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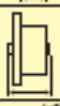
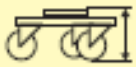


WHEELS • CASTORS • STAGE TECHNOLOGY

Stage Catalogue 2025

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Symbols

	wheel Ø		Ø of the tread
	wheel width		Ø of the flange
	hub length		overall width
	Ø bore hole		tread width
	overall height		hub length
	fixation plate		multijack basic state
	screw hole distance		multijack lifted
	load capacity dyn.		multijack fixation plate
	offset		multijack screw hole distance
	Ø screw hole		Ø screw holes (multijack)
	Ø bolt hole fitting		foot lever basic state
	bolt size		foot lever lifted
	spring pressure		fixation plate size
	spring way		screw hole distance
	triangular plate		Ø screw holes
	collision diameter		turtle overall height

We reserve the right to make technical changes.

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Selection criteria

1 Wheel diameter

To cross obstacles the wheel diameter is very decisive. The obstacle should not be higher than 5 % of the wheel diameter if the wheels have a soft tyre (softer than 90° Shore A).

Example:
wheel diameter 100 mm = 2,5 mm high obstacle
- pay attention to the condition of the ground surface
- choose wheel diameter as big as possible

2 Load capacity

To calculate the load capacity:

$$C = \frac{\text{weight of the device + weight of the load}}{\text{Number of wheels or castors used}}$$

On uneven grounds often only three wheels are in contact with the floor, so that the load of a device with four wheels is just distributed on three wheels.

1) total weight of the device and load
2) number of wheels or castors
3) position of the wheels
4) wheels that are in contact with the ground

3 Wheel bearings

One of the most important criteria in the choice of wheels is the type of the bearing.
We distinguish between four types of bearings:

Plain bearing
very high resistance to rolling and to start. For transport devices with low speed and little use. Advantage: cheap and resistant to corrosion, free of maintenance.

Roller bearings
Especially suitable for transport devices with low speed and with not too high load capacity. The resistance to rolling and to start is also with high load capacity comfortable, very robust and largely free of maintenace.

Ball bearings
also called deep-groove ball bearings. In all conditions best values are achieved, according to the load capacity the precision ball bearing offers the optimal solution. Very good quality in operation also at extreme load

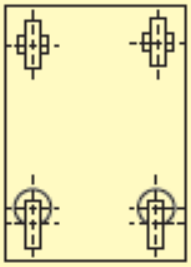
4 Ground surface conditions

According to the mentioned criterias, the quality of the ground influences the choice of wheels decisive. Pay attention to influences of environment, surroundings, and load capacity. Our program of wheels and castors offers right tyres for every use.

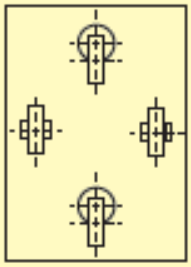
Selection criteria

5 Manoeuvrability

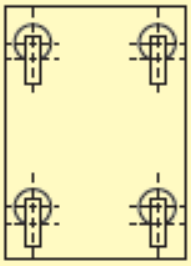
Because of different positions of the wheels, it is possible to achieve different ways to manoeuvre.



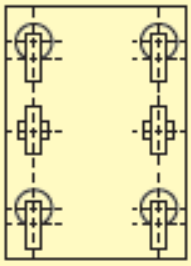
2 swivel castors
2 fixed castors



2 swivel castors
2 fixed castors



4 swivel castors



4 swivel castors
2 fixed castors

6 Brake system:

Wheel locking brake	=	brake locks the wheel from rotating
Directional lock	=	brakes the castor just in the straight-ahead postion
Total lock	=	brake locks the wheel from rotating and swiveling

There are two versions of total locks:

Temporary	=	during the drive the brake system is under the device, in order to brake the brake
Afterwards	=	the brake system is never under the device, because of that the use is easier sytem has to be got out below
Central locking	=	brakes the wheel and the steering through the central linkage

7 Possibilities to fix the wheels or castors:

bolts from diamter 15 mm to 60 mm for round or square tube, length 60 mm - special sizes or drillings available on demand



with threaded bolt



square bolt



round bolt

8 Expanding bolts

Round tube

Code:	inside Ø:
EXPA19RR	19-21 mm
EXPA21RR	21-24 mm
EXPA24RR	24-27 mm
EXPA27RR	27-30 mm
EXPA31RR	31-35 mm

Square tube

Code:	inside measure:
EXPA21VR	21x21 - 24x24 mm
EXPA24VR	24x24 - 27x27 mm
EXPA27VR	27x27 - 30x30 mm
EXPA31VR	31x31 - 35x35 mm
EXPA36VR	36x36 - 40x40 mm



· Blackwheels

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dyn. 70 - 800 kg

Black Polyurethane Wheels



		mm	mm	mm	kg	mm
	PUS033/09/08FL*	33	9	9	70	8
	PUS033/27/08FL*	33	27	28	100	8
PUS050/20/08BA*		50	20	20	75	8
PUS050/40/10BA*	PUS050/40/10FL*	50	40	40	150	10
PUS065/30/12BA*		65	30	30	200	12
PUS065/30/15BA*		65	30	30	200	15
PUSS075/50/12BA		75	50	50	350	12
PUSS080/30/12BA		80	30	30	250	12
PUSS080/30/15BA		80	30	30	250	15
PUSS080/40/12BA		80	40	40	300	12
PUSS080/40/15BA		80	40	40	300	15
PUSS100/22/12BA		100	22	22	250	12
PUSS100/22/15BA		100	22	22	250	15

* with silver rim

Black Polyurethane Wheels

Wheel:

Black wheels with black polyurethane, 92° Shore, on solid aluminium core, with ball bearing

Available in flat or convex

Characteristics:

- very high load capacity
- temperature resistant between -30° C and +80° C
- resistant to rubbing
- extremly robust
- good shock absorbing characteristic
- tyre fits stabil because the rim is cured-on
- tear resistant
- resistant to oxygen, benzene, oil, ozone and many other chemicals





		mm	mm	mm	dyn. kg	mm
PUSS100/40/12BA	PUS100/40/12FL*	100	40	40	400	12
PUSS100/40/15BA	PUS100/40/15FL*	100	40	40	400	15
PUSS100/40/20BA	PUS100/40/20FL*	100	40	40	400	20
PUS125/40/20BA*		125	40	40	450	20
PUS125/40/25BA*		125	40	40	450	25
PUSS125/45/20BA		125	45	45	550	20
PUSS125/45/25BA		125	45	45	550	25
PUSS125/45/30BA		125	45	45	550	30
PUSS150/50/20BA		150	50	50	800	20
PUSS150/50/25BA		150	50	50	800	25
PUSS150/50/30BA		150	50	50	800	30

* with silver rim

50 - 500 kg

Black polyurethane castors







			mm	mm	mm	mm	kg	mm	mm
LMPUS033KUPL*	LMPUS033KUPLTF*	BPUS033KUPL*	33x27	51	60x60	38x38/47x47	100	15	6
LPUSS050KUPL	LPUSS050KUPLTF	BPUSS050KUPL	50x20	73	60x60	38x38/47x47	50	25	6
LMPUSS050KUPL	LMPUSS050KUPLTF	BMPUSS050KUPL	50x40	72	60x60	38x38/47x47	150	31	6
LMPUSS050KUPLS	LMPUSS050KUPLSTF	BPUSS050KUPLS	50x40	82	80x80	60x60	150	31	9
LPUSS065KUP1	LPUSS065KUP1TF	BPUSS065KUP1	65x30	93	105x80	80x60	200	40	9
LPUSS080KUP1	LPUSS080KUP1TF	BPUSS080KUP1	80x30	100	105x80	80x60	200	40	9
LPUSS080KUP3	LPUSS080KUP3TF	BPUSS080KUP3	80x40	115	140x110	105x80	250	48	11
LPUSS100KUP1	LPUSS100KUP1TF	BPUSS100KUP1	100x40	128	105x80	80x60	320	40	9
LPUSS100KUP3	LPUSS100KUP3TF	BPUSS100KUP3	100x40	125	140x110	105x80	400	48	11
LPUSS125KUP3	LPUSS125KUP3TF	BPUSS125KUP3	125x45	155	140x110	105x80	500	47	11
LPUSS125KUP3A	LPUSS125KUP3TFA	BPUSS125KUP3A	125x45	165	140x110	105x80	500	45	13
LPUSS150KUP3	LPUSS150KUP3TF	BPUSS150KUP3	150x50	185	140x110	105x80	500	60	11

* with silver rim

Castor Munich



	mm	mm	mm	mm	kg	mm	mm
SLPUSS075KUP3TFS4RF	75x50	125	135x110	105x80	350	50	11

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Black polyurethane castors

theatre castors with black polyurethane wheel, 92° Shore, solid aluminium core, ball bearing, housing made of black sheet steel with double ball race at fork head

Available in flat or convex





			mm	mm	mm	mm	dyn. kg	mm	mm
LPUSS050KUPLS-4Fach			50x40	82	80x80	60x60	150	37	9
LPUSS065KUP1-4Fach			65x30	96	105x80	80x60	200	40	9
LPUSS075KUP1-4Fach			75x30	100	105x80	80x60	200	40	9
LPUSS080KUP1-4Fach			80x30	103	105x80	80x60	200	40	9
LPUSS080KUP3-4Fach		BPUSS080KUP3TF	80x40	115	140x110	105x80	250	(48)	11
LPUSS080KUP3-8Fach			80x40	115	140x110	105x80	250	48	11
	SLPUSS075KUP3TFS		75x50	125	135x110	105x80	350	50	11
LPUSS100KUP3-4Fach		BPUSS100KUP3TF	100x40	125	140x110	105x80	350	(48)	11
LPUSS100KUP3-8Fach			100x40	125	140x110	105x80	350	48	11
	SLPUSS100KUP3TFS		100x40	148	125x125	105x80	350	47	11
LPUSS125KUP3-4Fach		BPUSS125KUP3TF	125x45	155	140x110	105x80	500	(47)	11
LPUSS150KUP3-4Fach		BPUSS150KUP3TF	150x50	185	140x110	105x80	500	(60)	11




		mm	mm	mm	dyn. kg	mm
LMPUS033KUO*	LMPUS033KUOTF*	33x27	51	10	100	15
LPUSS050KUO	LPUSS050KUOTF	50x20	73	10	50	25
LMPUSS050KUO	LMPUSS050KUOTF	50x40	72	12	150	28
LPUSS065KUO		65x30	92	13	180	40
LPUSS075KUO		75x30	97	13	180	40
LPUSS080KUO	LPUSS080KUOTF	80x30	100	12	180	37
LPUSS080/40KUO		80x40	115	13	250	48
LPUSS100KUOA	LPUSS100KUOTFA	100x40	126	12	120	37
LPUSS100KUO	LPUSS100KUOTF**	100x40	125**	13	350	48
LPUSS125KUOA	LPUSS125KUOTFA	125x45	150	12	170	42
LPUSS150KUOA	LPUSS150KUOTFA	150x50	178	12	200	45

* with silver rim
** overall height of LPUSS100KUOTF is 128 mm, plates for compensating the height are available on request



Possibilities for fixation

250 - 660 kg

Black heavy duty polyurethane castors





			mm	mm	mm	mm	kg	mm	mm
with small plate									
SLPUSS080KUP1	SLPUSS080KUP1TF	SBPUSS080KUP1	80x30	120	105x85	80x60	250	40	9
SLPUSS100KUP1	SLPUSS100KUP1TF	SBPUSS100KUP1	100x40	130	105x80	80x60	350	40	9
with large plate									
SLPUSS100KUP3		SBPUSS100KUP3	100x40	148	135x110	105x80	350	40	11
SLPUSS125KUP3	SLPUSS125KUP3TF	SBPUSS125KUP3	125x45	178	135x110	105x80	500	50	11
SLPUSS150KUP3	SLPUSS150KUP3TF	SBPUSS150KUP3	150x50	210	135x110	105x80	660	53	11

Black heavy duty polyurethane castors

black heavy duty castors with black polyurethane wheels, 92° Shore, on solid aluminium core with ball bearing, black heavy duty housing made of sheet steel, with double ball race at fork head

available in flat or convex





			mm	mm	mm	mm	kg	mm	mm
SLPUSS100KUP3+2RF		SBPUSS100KUP3TF	100x40	148	135x105	105x80	350	(40)	11
	SLPUSS100KUP3TFS		100x40	148	125x125	105x80	350	47	11
SLPUSS125KUP3+2RF	SLPUSS125KUP3TFS*	SBPUSS125KUP3TF	125x45	178	135x110	105x80	500	(50)	11
SLPUSS150KUP3+2RF	SLPUSS150KUP3TFS	SBPUSS150KUP3TF	150x50	210	135x110	105x80	660	(53)	11

*also available with overall height 185 mm on demand




		mm	mm	mm	kg	mm
SLPUSS080KUZ22R	SLPUSS080KUZ22RTF	80x30	114	22x50	250	36
SLPUSS100KUZ22R	SLPUSS100KUZ22RTF	100x40	131	22x50	300	36
SLPUSS125KUZ22R	SLPUSS125KUZ22RTF	125x45	161	22x50	400	45
SLPUSS150KUZ22R	SLPUSS150KUZ22RTF	150x50	184	22x50	600	50

250 - 660 kg

Black heavy duty polyurethane castors







			mm	mm	mm	mm	kg	mm	mm
with small plate									
SLPUSS080KUP1	SLPUSS080KUP1TF	SBPUSS080KUP1	80x30	120	105x85	80x60	250	40	9
SLPUSS100KUP1	SLPUSS100KUP1TF	SBPUSS100KUP1	100x40	130	105x80	80x60	350	40	9
with large plate									
SLPUSS100KUP3		SBPUSS100KUP3	100x40	148	135x110	105x80	350	40	11
SLPUSS125KUP3	SLPUSS125KUP3TF	SBPUSS125KUP3	125x45	178	135x110	105x80	500	50	11
SLPUSS150KUP3	SLPUSS150KUP3TF	SBPUSS150KUP3	150x50	210	135x110	105x80	660	53	11

Black heavy duty polyurethane castors

black heavy duty castors with black polyurethane wheels, 92° Shore, on solid aluminium core with ball bearing, black heavy duty housing made of sheet steel, with double ball race at fork head

available in flat or convex





			mm	mm	mm	mm	kg	mm	mm
SLPUSS100KUP3+2RF		SBPUSS100KUP3TF	100x40	146	135x105	105x80	350	(40)	11
	SLPUSS100KUP3TFS		100x40	146	125x125	105x80	350	47	11
SLPUSS125KUP3+2RF	SLPUSS125KUP3TFS*	SBPUSS125KUP3TF	125x45	178	135x110	105x80	500	(50)	11
SLPUSS150KUP3+2RF	SLPUSS150KUP3TFS	SBPUSS150KUP3TF	150x50	210	135x110	105x80	660	(53)	11

*also available with overall height 185 mm on demand




		mm	mm	mm	kg	mm
SLPUSS080KUZ22R	SLPUSS080KUZ22RTF	80x30	114	22x50	250	36
SLPUSS100KUZ22R	SLPUSS100KUZ22RTF	100x40	131	22x50	300	36
SLPUSS125KUZ22R	SLPUSS125KUZ22RTF	125x45	161	22x50	400	45
SLPUSS150KUZ22R	SLPUSS150KUZ22RTF	150x50	184	22x50	600	50

200 - 750 kg

Black welded heavy duty polyurethane castors



			mm	mm	mm	mm	kg	mm	mm
with small plate									
GLPUSS065KUP1		GBPUSS065KUP1	65x30	132,5	105x80	80x60	200	30	11
GLPUSS080KUP1		GBPUSS080KUP1	80x40	140	105x80	80x60	300	30	11
GLPUSS100KUP1	GLPUSS100KUP1TF	GBPUSS100KUP1	100x40	150	105x80	80x60	350	30	11
GLPUSS125KUP1	GLPUSS125KUP1TF	GBPUSS125KUP1	125x40	160	105x80	80x60	400	32	11
with large plate									
GLPUSS100KUP3		GBPUSS100KUP3	100x40	163	135x110	105x80	300	45	13
GLPUSS125KUP3	GLPUSS125KUP3TF	GBPUSS125KUP3	125x45	175	135x110	105x80	400	45	13
GLPUSS150KUP3	GLPUSS150KUP3TF	GBPUSS150KUP3	150x50	205	135x110	105x80	650	50	13

Black welded heavy duty polyurethane castors

black welded heavy duty castors with black polyurethane wheels, 92° Shore, on solid aluminium core with ball bearing, black welded heavy duty housing made of sheet steel, with double ball race at fork head





		mm	mm	mm	dyn. kg	mm
GLPUSS100KUZ22R	GLPUSS100KUZ22RTF	100x40	150	22x50	350	36
GLPUSS125KUZ22R	GLPUSS125KUZ22RTF	125x45	175	22x50	500	45
GLPUSS150KUZ22R	GLPUSS150KUZ22RTF	150x50	205	22x50	750	50

100 - 1000 kg

Black polyurethane double castors









				mm	mm	mm	mm	kg	mm	mm
LDMPUS033KUPL*	LDMPUS033KUPLTF*	BDPUS033KUPL*	2x33x9	51	60X60	30X38/46X46	100	15	6
LDMPUS050KUPL*	LDMPUS050KUPLTF*	BDMPUS050KUPL*	2x50x20	72	60x60	30X38/46X46	150	31	6
LDMPUS050KUPLS*	LDMPUS050KUPLSTF*	BDPUS050KUPLS*	2x50x20	82	80x80	60x60	150	31	9
LDPUSS100KUP3	LDPUS100KUP3TF	BDPUSS100KUP3	2x100x22	125	140x110	105x80	400	48	11
LDPUSS100KUP1		BDPUSS100KUP1	2x100x22	128	105x80	80x60	320	40	9
SLDPUSS100KUP3		SBDPUSS100KUP3	2x100x22	148	140x110	105x80	500	48	11
LDPUSS100KUP4A		BDPUSS100KUP4A	2x100x30	184	170x170	130x130	600	60	13
LDPUSS125KUP4A	LDPUSS125KUP4TFA	BDPUSS125KUP4A	2x125x45	197	170x170	130x130	750	60	13

* with silver rim

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Black polyurethane double castors

black double castors with black polyurethane wheels, 92° Shore, on solid aluminium core, ball bearing, made of black sheet steel with double ball race at fork head

available in flat or convex



	mm	mm	mm	mm	dyn. kg	mm	mm
LDPUS050KUPLS-4Fach*	2x50x20	82	80x80	60x60	150	37	9
LDPUSS100KUP3-4Fach	2x100x22	125	140x110	105x80	350	48	11
LDPUSS100KUP3-8Fach	2x100x22	125	140x110	105x80	350	48	11

* with silver rim



		mm	mm	mm	dyn. kg	mm
LDMPUS033KUO*	LDMPUS033KUOTF*	2x33x9	51	10	100	15
LDMPUS050KUO*	LDMPUS050KUOTF*	2x50x20	72	12	150	28
LDPUSS100KUO	LDPUSS100KUOTF**	2x100x22	125**	13	350	40

* with silver rim
** overall height of LDPUS100KUOTF is 128 mm, plates for compensating the height are available on request



Possibilities for fixation

300 - 2000 kg

Black polyurethane turtles





	mm	mm	mm	mm	mm	kg	mm	mm
TLMPUS033KUP1/76*	118x118x118	33x27	76	105x85	80x60	300	175	9
TLMPUS033KUP3/85*	118x118x118	33x27	85	135x105	105x80	300	175	11
TLMPUS033KUP3S/95*	118x118x118	33x27	95	135x105	105x80	300	175	11
TLMPUSS050KUP1/101	183x183x183	50x40	101	105x85	80x60	450	246	9
TLMPUSS050KUP3/106	183x183x183	50x40	106	135x105	105x80	450	246	11
TLMPUSS050KUP3/108	183x183x183	50x40	108	135x105	105x80	450	254	11
TLMPUSS050KUP3S/115	183x183x183	50x40	115	135x105	105x80	450	254	11
TLMPUSS050KUP1S/101	210x210x210	50x40	101	105x85	80x60	350	318	9
TLMPUSS050KUP3S/108	210x210x210	50x40	108	135x105	105x80	450	318	11
TLMPUSS050KUP3SS/115	210x210x210	50x40	115	135x105	105x80	450	318	11
TLPUSS065KUP3/125	250x250x250	65x30	125	135x105	105x80	500	364	11
TLPUSS065KUP1/116	250x250x250	65x30	116	105x85	80x60	350	364	9
TLPUSS065KUP1/125	250x250x250	65x30	125	105x85	80x60	350	364	9
TLPUSS065KUP1S/128	250x250x250	65x30	128	105x85	80x60	350	364	9
TLPUSS075KUP1/122	250x250x250	75x30	122	105x85	80x60	350	381	9
TLPUSS075KUP3/130	250x250x250	75x30	130	135x105	105x80	500	381	11
TLPUSS080KUP1/124	250x250x250	80x30	124	105x85	80x60	350	387	9
TLPUSS080KUP3/133	250x250x250	80x30	133	135x105	105x80	500	387	11
TLPUSS080KUP3/148	250x250x250	80x30	148	135x105	105x80	500	387	11
TLPUSS080KUP1S/155	300x300x300	80x30	155	105x85	80x60	350	428	9
TLPUSS080KUP3S/155	300x300x300	80x40	155	135x105	105x80	600	428	11

* with silver rim

Special sizes available on request !

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Black polyurethane turtles

black turtles with black polyurethane wheels, 92° Shore, on solid aluminium core, ball bearing housing made of black sheet steel, with double ball race at fork head

available in flat or convex



	mm	mm	mm	mm	mm	dyn. kg	mm	mm
TLPUSS100KUP3L/160	300x300x300	100x40	160	135x105	105x80	600	456	11
TLPUSS100KUP3/164	300x300x300	100x40	164	135x105	105x80	600	456	11
TLPUSS100KUP3/166	300x300x300	100x40	166	135x105	105x80	1000	456	11
TLPUSS100KUP3S/178	300x300x300	100x40	178	135x105	105x80	1000	456	11
TSLPUSS100KUP3S/185	300x300x300	100x40	185	135x105	105x80	1000	456	11
TLPUSS125KUP3/196	340x340x340	125x45	196	135x105	105x80	600	543	11
TLPUSS125KUP3S/210	340x340x340	125x45	210	135x105	105x80	1000	543	11
TSLPUSS125KUP3SS/221	550x550x550	125x45	221	135x105	105x80	1000	670	11
TLPUSS150KUP3/235	550x550x550	150x50	235	135x105	105x80	1000	716	11
TLPUSS150KUP3S/230	550x550x550	150x50	230	135x105	105x80	1000	716	11
TLPUSS150KUP3SS/245	550x550x550	150x50	245	135x105	105x80	1000	716	11
TSLPUSS150KUPS/259	550x550x550	150x50	259	190x170	150x135	1500	716	15



	mm	mm	mm	mm	mm	dyn. kg	mm	mm
T5LMPUS033KUP1/75	Ø 195	33x27	75	105x85	80x60	450	240	9
T5LMPUS033KUP3/85	Ø 195	33x27	85	135x105	105x80	500	240	11
TLPUSS100KUP3R/160	Ø 380	100x40	160	135x105	105x80	600	500	11

Special sizes available on request !

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300 - 2000 kg

Black turtles with double polyurethane castors





	mm	mm	mm	mm	mm	kg	mm	mm
TLDMPUS033KUP1/76*	118x118x118	2x33x9	76	105x85	80x60	300	175	9
TLDMPUSS050KUP1/101	183x183x183	2x50x20	101	105x85	80x60	450	254	9
TLDMPUSS050KUP3/106	183x183x183	2x50x20	106	135x105	105x80	450	254	11
TLDMPUSS050KUP3/108	183x183x183	2x50x20	108	135x105	105x80	450	254	11
TLDMPUSS050KUP3S/115	183x183x183	2x50x20	115	135x105	105x80	450	254	11

* with silver rim

Special sizes available on request !

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Black turtles with double polyurethane castors

black turtles with double polyurethane wheels, 92° Shore A, solid aluminium core, ball bearing housing made of black sheet steel with double ball race at fork head

Available in flat or convex



	mm	mm	mm	mm	mm	dyn. kg	mm	mm
TLDPUS100KUP3L/160*	300x300x300	2x100x22	160	135x105	105x80	600	456	11
TLDPUS100KUP3/164*	300x300x300	2x100x22	164	135x105	105x80	600	456	11
TLDPUS100KUP3/166*	300x300x300	2x100x22	166	135x105	105x80	1000	456	11
TLDPUS100KUP3S/178*	300x300x300	2x100x22	178	135x105	105x80	1000	456	11
TLDPUS100KUP3SS/185*	300x300x300	2x100x22	185	135x105	105x80	1000	456	11

* with silver rim

Black turtles with double polyurethane castors

black turtles with double polyurethane wheels, 92° Shore A, solid aluminium core, ball bearing housing made of black sheet steel with double ball race at fork head

Available in flat or convex



	mm	mm	mm	mm	mm	dyn. kg	mm	mm
TLDPUS100KUP3L/160*	300x300x300	2x100x22	160	135x105	105x80	600	456	11
TLDPUS100KUP3/164*	300x300x300	2x100x22	164	135x105	105x80	600	456	11
TLDPUS100KUP3/166*	300x300x300	2x100x22	166	135x105	105x80	1000	456	11
TLDPUS100KUP3S/178*	300x300x300	2x100x22	178	135x105	105x80	1000	456	11
TLDPUS100KUP3SS/185*	300x300x300	2x100x22	185	135x105	105x80	1000	456	11

* with silver rim

Black ECONOMY polyurethane turtles



black turtles with black polyurethane wheel, 92° Shore, on polyamide core, ball bearing, made of black sheet steel with double ball race at fork head

available in flat



	mm	mm	mm	mm	mm	dyn. kg	mm	mm
TLVPSS100KUP3L/160	300x300x300	100x40	160	135x105	105x80	600	456	11
TLVPSS100KUP3/164	300x300x300	100x40	164	135x105	105x80	600	456	11
TLVPSS100KUP3/166	300x300x300	100x40	166	135x105	105x80	900	456	11
TLVPSS100KUP3/178	300x300x300	100x40	178	135x105	105x80	900	456	11
TLVPSS100KUP3/185	300x300x300	100x40	185	135x105	105x80	900	456	11

250 - 350 kg

Black ECONOMY polyurethane wheels



	 mm	 mm	 mm	 kg	 mm
GPS100/40/12BAL	100	40	40	350	12
GPS100/40/15BAL	100	40	40	350	15

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Black ECONOMY polyurethane wheels

Wheel:

black wheels with polyurethane, 92° Shore, on aluminium core, ball bearing

available in flat or convex

Characteristics:

- very high load capacity
- temperature resistant from -30°C to +80°C
- resistant to rubbing and extremly robust
- good shock absorbing characteristic
- tyre fits firm because the rim is cured on
- tear resistant
- resistant to oxygen, benzene, oil, ozone and many other chemicals



dyn. 200 - 350 kg

Black ECONOMY polyurethane castors





			mm	mm	mm	mm	dyn. kg	mm	mm
LGPTS100KUP1	LGPTS100KUP1TF	BGPTS100KUP1	100x40	128	105x80	80x60	320	40	9
LGPTS100KUP3	LGPTS100KUP3TF	BGPTS100KUP3	100x40	125	140x110	105x80	350	48	11

Black ECONOMY polyurethane castors

black castors with black polyurethane, 92° Shore, on aluminium- or casting core, ball bearing, made of black sheet steel with double ball race at fork head

available in flat and convex



			mm	mm	mm	mm	kg	mm	mm
LGPTS100KUP3-4Fach	BGPTS100KUP3TF	100x40	125	140x110	105x80	350	(48)	11
LGPTS100KUP3-8Fach		100x40	125	140x110	105x80	350	48	11
	SLGPTS100KUP3TFS	100x40	148	125x125	105x80	350	40	11



		mm	mm	mm	kg	mm
LGPTS100KUO	LGPTS100KUOTF*	100x40	125*	13	350	50

* overall height of LGPTS100KUOTF is 128 mm, plates for compensating the height are available on request



Possibilities for fixation

350 - 1000 kg

Black ECONOMY polyurethane turtles





	mm	mm	mm	mm	mm	kg	mm	mm
TLGPTS100KUP3L/160	300x300x300	100x40	160	135x105	105x80	600	456	11
TLGPTS100KUP3/164	300x300x300	100x40	164	135x105	105x80	600	456	11
TLGPTS100KUP3/166	300x300x300	100x40	166	135x105	105x80	1000	456	11
TSLGPTS100KUP3S/178	300x300x300	100x40	178	135x105	105x80	1000	456	11
TSLGPTS100KUP3S/185	300x300x300	100x40	185	135x105	105x80	1000	456	11

* with silver rim

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Black ECONOMY polyurethane turtles

black turtles with black polyurethane, 92° Shore, on cast aluminium core, ball bearing, made of black sheet steel with double ball race at fork head

available in flat or convex



	mm	mm	mm	mm	mm	kg	mm	mm
TLGPTS100KUP3R/160	Ø 380	100x40	160	135x105	105x80	600	500	11

80 kg

Black skater wheels





	mm	mm	mm	kg	mm
PK075/23/08 SC	75	23	23	80	8
PK100/23/08 SC	100	23	23	100	8
PK100/23/10 SC	100	23	23	100	10

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Black skater wheels

Wheel:

Black wheels with black polyurethane, 80° Shore A, on solid aluminium core, with ball bearing

Characteristics:

- very high load capacity
- temperature resistant from -30°C to +80°C
- resistant to rubbing and extremly robust
- good shock absorbing characteristic
- tyre fits firm because the rim is cured-on
- tear resistant
- resistant to oxygen, benzene, oil, ozone and many other chemicals

60 kg

Black skater castors





			mm	mm	mm	mm	kg	mm	mm
LGPK050KUPL SC	LGPK050KUPLTF SC	BGPK050KUPL SC	50x23	71	60x60	38x38/46x46	40	25	6
LKP075KUPL SC	LKP075KUPLTF SC	BKP075KUPL SC	75x23	100	60x60	38x38/46x46	60	30	6

Black skater castors

black housing with black polyurethane wheel, 80° Shore, on polyamide rim, ball bearing, made of black sheet steel with double ball race at fork head





		mm	mm	mm	dyn. kg	mm
LGPK050KUO SC	LGPK050KUOTF SC	50x23	69	10	40	25
LKP075KUO SC	LKP075KUOTF SC	75x23	100	10	60	30



Possibilities for fixation

Black skater castors

black housing with black polyurethane wheel, 80° Shore, on polyamide rim, ball bearing, made of black sheet steel with double ball race at fork head





		mm	mm	mm	dyn. kg	mm
LGPK050KUO SC	LGPK050KUOTF SC	50x23	69	10	40	25
LKP075KUO SC	LKP075KUOTF SC	75x23	100	10	60	30



Possibilities for fixation

Black double skater castors

black housing with 2 black polyurethane wheels, 80° Shore, on polyamide rim, ball bearing, made of black sheet steel with double ball race at fork head



		mm	mm	mm	kg	mm
LDMGPK050KUO SC	LDMGPK050KUOTF SC	2x50x23	69	10	100	25
LDKP075KUO SC	LDKP075KUOTF SC	2x75x23	100	10	80	35
LDKP100KUO SC	LDKP100KUOTF SC*	2x100x23	125*	12	200	36

* overall height of LDKP100KUOTF SC is 128 mm, plates for compensating the height are available on request



Possibilities for fixation

240 - 280 kg

Black skater turtles





	mm	mm	mm	mm	mm	kg	mm	mm
TLDMGPK050KUP1SC/97	183x183x183	2x50x23	97	105x85	80x60	300	246	9
TLDMGPK050KUP3SC/103	183x183x183	2x50x23	103	135x105	105x80	300	246	11
TLDKP075KUP1SC/125	250x250x250	2x75x23	125	105x85	80x60	240	381	9
TLDKP075KUP3SC/134	250x250x250	2x75x23	134	135x105	105x80	240	381	11
TLDKP100KUP1SC/156	300x300x300	2x100x23	156	105x85	80x60	450	456	9
TLDKP100KUP3SC/166	300x300x300	2x100x23	166	135x105	105x80	600	456	11

Special sizes available on request !

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Black skater turtles

black turtles with black polyurethane wheel, 80° Shore, on polyamide rim, ball bearing, made of black sheet steel with double ball race at fork head

50 - 400 kg

Black solid rubber wheels



	mm	mm	mm	kg	mm
NGS080RO12	80	25	40	50	12
NGS100RO12	100	30	40	70	12
NGS100RO15	100	30	45	70	15
NGS125RO15	125	38	48	100	15
NGS140RO20	140	37	45	115	15
NGS160RO20	160	40	58	135	20
NGS180RO20	180	45	58	170	20
NGS200RO20	200	50	58	205	20
NGS200RO25	200	50	58	205	25
NGS225RO25	225	55	60	250	25
NGS250RO25	250	60	60	295	25
NGS400RO25	400	75	88	400	25

Black solid rubber wheels

Wheel:

black rubber wheel, 80° Shore, on polyamide rim, roller bearing

Characteristics:

- low resistance to rolling
- easy on floors
- Shore-hardness 80°
- temperature resistant from -40°C to +80°C
- well priced

dyn. 50 - 300 kg

Black solid rubber castors





			mm	mm	mm	mm	kg	mm	mm
LNGS080ROP1	LNGS080ROP1TF	BNGS080ROP1	80x25	100	105x85	80x60	50	37	9
LNGS100ROP1	LNGS100ROP1TF	BNGS100ROP1	100x30	128	105x85	80x60	70	40	9
LNGS100ROP3	LNGS100ROP3TF	BNGS100ROP3	100x30	125	135x105	105x80	70	45	11
LNGS125ROP3	LNGS125ROP3TF	BNGS125ROP3	125x38	155	135x105	105x80	100	44	11
LNGS160ROP3	LNGS160ROP3TF	BNGS160ROP3	160x40	197	135x105	105x80	135	45	11
LNGS180ROP3	LNGS180ROP3TF	BNGS180ROP3	180x45	225	135x105	105x80	170	45	11
LNGS200ROP3	LNGS200ROP3TF	BNGS200ROP3	200x50	235	135x105	105x80	205	58	11
LNGS250ROP3	LNGS250ROP3TF	BNGS250ROP3	250x60	302	135x105	105x80	300	65	11

Black solid rubber castors

black housing with black rubber wheel, 80° Shore, on polyamide rim, roller bearing, made of black sheet steel with double ball race at fork heads





			mm	mm	mm	mm	kg	mm	mm
	SLNGS080ROP3TFS		80x40	125	125x125	105x80	70	48	11
LNGS100ROP3-4Fach		BNGS100ROP3TF	100x40	125	140x110	105x80	70	(48)	11
LNGS100ROP3-8Fach			100x40	125	140x110	105x80	70	48	11
	SLNGS100ROP3TFS		100x40	148	125x125	105x80	70	47	11
LNGS125ROP3-4Fach		BNGS125ROP3TF	125x45	155	140x110	105x80	100	(47)	11



		mm	mm	mm	kg	mm
LNGS080ROO	LNGS080ROOTF	80x25	100	12	50	37
LNGS100ROO	LNGS100ROOTF*	100x30	125*	12	70	37
LNGS125ROO	LNGS125ROOTF	125x38	150	12	100	42
LNGS160ROO	LNGS160ROOTF	160x40	194	16	135	55
LNGS180ROO	LNGS180ROOTF	180x45	222	16	170	55
LNGS200ROO	LNGS200ROOTF	200x50	232	16	205	55

* overall height of LNGS100ROOTF is 128 mm, plates for compensating the height are available on request



Possibilities for fixation

40 - 60 kg

Black rubber wheels



	mm	mm	mm	kg	mm
KU050/20/06 SC	50	20	22	40	6
KU075/25/06 SC	75	25	28	60	6

Black rubber wheels

Wheel:

rubber wheel, 80° Shore, on polyamide rim, ball bearing

Characteristics:

- ground protective tyre
- quiet running
- low-priced

40 - 60 kg

Black rubber castors





			mm	mm	mm	mm	kg	mm	mm
LKS050KUPL SC	LKS050KUPLTF SC	BKS050KUPL SC	50x20	73	60x60	38x38/47x47	40	25	6
LKS075KUPL SC	LKS075KUPLTF SC	BKS075KUPL SC	75x25	100	60x60	38x38/47x47	60	30	6

Black rubber castors

black housing with black rubber wheel, 80° Shore, on polyamide rim, ball bearing, made of black sheet steel with double ball race at fork head



		mm	mm	mm	kg	mm
LKS050KUO SC	LKS050KUOTF SC	50x20	71	10	40	25
LKS075KUO SC	LKS075KUOTF SC	75x23	100	10	60	30



Possibilities for fixation

40 - 80 kg

Black rubber double castors





			mm	mm	mm	mm	kg	mm	mm
LMKD050KUPL SC	LMKD050KUPLTF SC	BKD050KUPL SC	2x50x20	72	60x60	38X38/47X47	40	31	6
LKD075KUPL SC	LKD075KUPLTF SC		2x75x25	100	60x60	38X38/47X47	80	35	6

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Black rubber double castors

black housing with 2 black rubber wheels, 80° Shore, on polyamide rim, ball bearing, made of black sheet steel with double ball race at fork head





		mm	mm	mm	dyn. kg	mm
LMKD050KUO SC	LMKD050KUOTF SC	2x50x20	72	12	40	26
LKD075KUO SC	LKD075KUOTF SC	2x75x25	100	10	80	35



Possibilities for fixation

Black elastic rubber wheels





	mm	mm	mm	kg	mm
roller bearing					
AGT080RO12 SC	80	35	40	100	12
ball bearing					
AGT100KU12 SC	100	36	40	180	12
AGT100KU15 SC	100	36	40	180	15
AGT100KU20 SC	100	36	40	180	20
AGT125KU15 SC	125	36	48	250	15
AGT160KU20 SC	160	50	58	300	20
AGT160KU25 SC	160	50	58	300	25
AGT200KU20 SC	200	50	58	400	20
AGT200KU25 SC	200	50	58	400	25
AGT200KU30 SC	200	50	58	400	30
AGT250KU25 SC	250	50	60	400	25

Black elastic rubber wheels

Wheel:

rubber wheel, 70° Shore,
on polyamide rim, ball
bearing or roller bearing

available in flat

Characteristics:

- tyre fits firm because the rim is cured-on
- high rolling comfort
- extremely robust
- good shock absorbing characteristic
- temperature resistant from -20°C to +80°C

100 - 300 kg

Black elastic rubber castors





			mm	mm	mm	mm	kg	mm	mm
LAGTS080ROP1	LAGTS080ROP1TF	BAGTS080ROP1	80x35	100	105x80	80x60	120	40	9
LAGTS100KUP1	LAGTS100KUP1TF	BAGTS100KUP1	100x36	125	105x80	80x60	150	40	9
LAGTS100KUP3	LAGTS100KUP3TF	BAGTS100KUP3	100x36	125	140x110	105x80	150	48	11
LAGTS125KUP1	LAGTS125KUP1TF	BAGTS125KUP1	125x36	155	105x80	80x60	200	40	9
LAGTS125KUP3	LAGTS125KUP3TF	BAGTS125KUP3	125x36	155	140x110	105x80	250	47	13
LAGTS125KUP3A	LAGTS125KUP3TFA	BAGTS125KUP3A	125x36	166	140x110	105x80	250	45	13
LAGTS160KUP3	LAGTS160KUP3TF	BAGTS160KUP3	160x50	195	140x110	105x80	300	60	11

Black elastic rubber castors

black housing with black elastic rubber wheel, 70° Shore, on polyamide rim, ball bearing or roller bearing, made of black sheet steel with double ball race at fork head





		mm	mm	mm	mm	dyn. kg	mm	mm
LAGTS080ROP1-4Fach		80x35	103	105x80	80x60	120	40	9
	SLAGTS080ROP3TFS	80x35	125	125x125	105x80	120	48	11
LAGTS100KUP3-4Fach		100x36	125	140x110	105x80	150	48	11
LAGTS100KUP3-8Fach		100x36	125	140x110	105x80	150	48	11
	SLAGTS100KUP3TFS	100x36	148	125x125	105x80	150	47	11
LAGTS125KUP3-4Fach		125x36	155	140x110	105x80	250	47	11
LAGTS160KUP3-4Fach		160x50	195	140x110	105x80	300	60	11





		mm	mm	mm	dyn. kg	mm
LAGTS080ROO	LAGTS080ROOTF	80x35	106	12	120	37
LAGTS100KUO	LAGTS100KUOTF*	100x36	125*	12	120	37
LAGTS125KUO	LAGTS125KUOTF	125x36	150	12	170	42
LAGTS160KUO	LAGTS160KUOTF	160x50	194	16	300	55

* overall height of LAGTS100KUOTF is 128 mm, plates for compensating the height are available on request



Possibilities for fixation

100 - 550 kg

Black heavy duty elastic rubber castors





				mm	mm	mm	kg	mm	mm
with small plate									
SLAGTS080ROP1	SLAGTS080ROP1TF	SBAGTS080ROP1	80x35	120	105x85	80x60	100	40	9
SLAGTS100KUP1	SLAGTS100KUP1TF	SBAGTS100KUP1	100x36	128	105x80	80x60	180	40	9
with large plate									
SLAGTS100KUP3		SBAGTS100KUP3	100x36	148	135x110	105x80	180	40	11
SLAGTS125KUP3	SLAGTS125KUP3TF	SBAGTS125KUP3	125x36	178	135x110	105x80	250	50	11
SLAGTS160KUP3	SLAGTS160KUP3TF	SBAGTS160KUP3	160x50	215	135x110	105x80	300	53	11
SLAGTS180KUP3	SLAGTS180KUP3TF	SBAGTS180KUP3	180x50	235	135x110	105x80	350	53	11
SLAGTS200KUP3	SLAGTS200KUP3TF	SBAGTS200KUP3	200x50	245	135x110	105x80	400	55	11
SLAGTS250KUP3	SLAGTS250KUP3TF	SBAGTS250KUP3	250x50	298	135x110	105x80	550	74	11

Black heavy duty elastic rubber castors

black housing with black elastic rubber wheel, 70° Shore,on polyamide rim, ball bearing, made of black sheet steel with double ball race at fork head





		mm	mm	mm	mm	kg	mm	mm
	SLAGTS080KUP3TFS	80x35	125	125x125	105x80	150	48	11
SLAGTS100KUP3 + 2 RF		100x36	148	135x110	105x80	180	40	11
	SLAGTS100KUP3TFS	100x36	148	125x125	105x80	180	47	11
SLAGTS125KUP3 + 2 RF	SLAGTS125KUP3TFS*	125x36	178	135x110	105x80	250	50	11
SLAGTS160KUP3 + 2 RF	SLAGTS160KUP3TFS	160x50	215	135x110	105x80	300	53	11
SLAGTS180KUP3 + 2 RF	SLAGTS180KUP3TFS	180x50	235	135x110	105x80	350	53	11
SLAGTS200KUP3 + 2 RF	SLAGTS200KUP3TFS	200x50	245	135x110	105x80	400	55	11

*also available with overall height 185 mm on demand





		mm	mm	mm	kg	mm
SLAGTS080ROZ22R	SLAGTS080ROZ22RTF	80x35	114	22x50	100	36
SLAGTS100KUZ22R	SLAGTS100KUZ22RTF	100x36	131	22x50	180	36
SLAGTS125KUZ22R	SLAGTS125KUZ22RTF	125x36	161	22x50	250	45
SLAGTS180KUZ25R	SLAGTS180KUZ25RTF	180x50	234	25x65	350	57
SLAGTS200KUZ25R	SLAGTS200KUZ25RTF	200x50	244	25x65	400	57

180 - 550 kg

Black welded heavy duty elastic rubber castors







			mm	mm	mm	mm	kg	mm	mm
with small plate									
GLAGTS080KUP1	GLAGTS080KUP1TF	GBAGTS080KUP1	80x35	132,5	100x85	80x60	100	30	11
GLAGTS100KUP1	GLAGTS100KUP1TF	GBAGTS100KUP1	100x36	150	100x85	80x60	180	30	11
GLAGTS125KUP1	GLAGTS125KUP1TF	GBAGTS125KUP1	125x36	160	105x80	80x60	250	32	11
with large plate									
GLAGTS100KUP3		GBAGTS100KUP3	100x36	163	135x110	105x80	180	45	13
GLAGTS125KUP3	GLAGTS125KUP3TF	GBAGTS125KUP3	125x36	175	135x110	105x80	250	45	13
GLAGTS160KUP3	GLAGTS160KUP3TF	GBAGTS160KUP3	160x50	240	135x110	105x80	300	50	13
GLAGTS180KUP3	GLAGTS180KUP3TF	GBAGTS180KUP3	180x50	250	135x110	105x80	350	50	13
GLAGTS200KUP3	GLAGTS200KUP3TF	GBAGTS200KUP3	200x50	260	135x110	105x80	400	57	13
GLAGTS250KUP4	GLAGTS250KUP4FR	GBAGTS250KUP4	250x60	305	175x140	140x105	400	80	15

Black welded heavy duty elastic rubber castors

black housing with black elastic rubber wheel, 70° Shore, on polyamide rim, ball bearing, made of black sheet steel with double ball race at fork head





		mm	mm	mm	kg	mm
GLAGTS100KUZ22R	GLAGTS100KUZ22RTF	100x36	150	22x50	180	36
GLAGTS125KUZ22R	GLAGTS125KUZ22RTF	125x36	175	22x50	250	45
GLAGTS180KUZ25R	GLAGTS180KUZ25RTF	180x50	250	25x65	350	57
GLAGTS200KUZ25R	GLAGTS200KUZ25RTF	200x50	260	25x65	400	57

300 - 1000 kg

Black elastic rubber turtles





	mm	mm	mm	mm	mm	kg	mm	mm
TLAGTS080ROP1/124	250x250x250	80x35	124	105x85	80x60	300	387	9
TLAGTS080ROP3/133	250x250x250	80x35	133	135x105	105x80	300	387	11
TLAGTS080ROP3/148	250x250x250	80x35	148	135x105	105x80	300	387	11
TLAGTS080ROP1S/155	300x300x300	80x35	155	105x85	80x60	300	428	9
TLAGTS080ROP3S/155	300x300x300	80x35	155	135x105	105x80	300	428	11
TLAGTS100KUP3L/160	300x300x300	100x36	160	135x105	105x80	450	456	11
TLAGTS100KUP3/164	300x300x300	100x36	164	135x105	105x80	450	456	11
TLAGTS100KUP3/166	300x300x300	100x36	166	135x105	105x80	450	456	11
TLAGTS100KUP3S/178	300x300x300	100x36	178	135x105	105x80	450	456	11
TSLAGTS100KUP3S/185	300x300x300	100x36	185	135x105	105x80	450	456	11

Special sizes available on request !

BJERRING – Tykhøjetvej 20 – Hal 5 – 7323 Give – Tlf. +45 77345206 - mail: salg@bjerring-sales.dk bjerring-sales.dk – sunswim.dk – bjerring-shop.dk – bjerring-furniture.dk

Black elastic rubber turtles

black turtles with black elastic rubber wheel,
70° Shore, on polyamide rim, ball bearing,
made of black sheet steel with double ball race
at fork head



	mm	mm	mm	mm	mm	kg	mm	mm
TLAGTS125KUP3/196	340x340x340	125x36	196	135x105	105x80	600	543	11
TLAGTS125KUP3S/210	340x340x340	125x36	210	135x105	105x80	600	543	11
TSLAGTS125KUP3SS/221	550x550x550	125x36	221	135x105	105x80	750	670	11
TLAGTS160KUP3/240	550x550x550	160x50	240	135x105	105x80	900	716	11
TLAGTS160KUP3S/235	550x550x550	160x50	235	135x105	105x80	900	716	11
TLAGTS160KUP3SS/250	550x550x550	160x50	250	135x105	105x80	900	716	11
TSLAGTS160KUPS/259	550x550x550	160x50	259	190x170	150x135	900	716	11
TSLAGTS180KUPS/298	550x550x550	180x50	298	190x170	150x135	1000	751	11
TSLAGTS180KUPSS/298	550x550x550	180x50	298	190x170	150x135	1000	751	15
TSLAGTS200KUPS/305	550x550x550	200x50	305	190x170	150x135	1000	785	15



	mm	mm	mm	mm	mm	kg	mm	mm
TLAGTS100KUP3R/160	Ø 380	100x36	160	135x105	105x80	450	500	9

Special sizes
available on
request!

70 - 250 kg

Black unbreakable pneumatic wheels





	mm	mm	mm	kg	mm
LPNS180R20RN60*	180	50	60	70	20
LPNS200R20RN60*	200	50	60	75	20
LPNS220R20RN75*	220	65	75	100	20
LPNS220R20SN75**	220	65	75	100	20
LPNS220R25RN75*	220	65	75	100	25
LPNS220R25SN75**	220	65	75	100	25
LPNS260R20RN75*	260	85	75	200	20
LPNS260R20SN75**	260	85	75	200	20
LPNS260R25RN75*	260	85	75	200	25
LPNS260R25SN75**	260	85	75	200	25

* grooved profile

** block profile

Black unbreakable pneumatic wheels

Wheel:

black elastic PU foam wheel, 70° Shore,
on polyamide rim, roller bearing

Characteristics:

- medium load capacity
- good shock absorbing characteristic
- low resistance to rolling when used on difficult ground
- easy on floors, high running comfort
  temperature resistant from -10°C to +80°C



	mm	mm	mm	dyn. kg	mm
LPNS400R20RN75*	400	100	75	250	20
LPNS400R20RN88*	400	100	88	250	20
LPNS400R25RN75*	400	100	75	250	25
LPNS400R25RN88*	400	100	88	250	25
LPNS400R20SN75**	400	100	75	250	20
LPNS400R20SN88**	400	100	88	250	20
LPNS400R25SN75**	400	100	75	250	25
LPNS400R25SN88**	400	100	88	250	25

* grooved profile

** block profile

70 - 250 kg

Black unbreakable pneumatic castors





			mm	mm	mm	mm	kg	mm	mm
roller bearing										
LLPNS180ROP3	LLPNS180ROP3TF	BLPNS180ROP3	180x45	210	135x105	105x80	70	45	11
LLPNS200ROP3	LLPNS200ROP3TF	BLPNS200ROP3	200x50	236	135x105	105x80	75	58	11
LLPNS220ROP3	LLPNS220ROP3TF	BLPNS220ROP3	220x65	255	135x105	105x80	100	63	11
LLPNS260ROP4	LLPNS260ROP4TF	BLPNS260ROP4	260x85	295	175x175	140x140	200	70	14,5
LLPNS400ROP4	LLPNS400ROP4TF	BLPNS400ROP4	400x100	458	150x150	125x125	250	82	11

Black unbreakable pneumatic castors

black housing with black elastic PU foam wheel, 70° Shore, on polyamide rim, made of black sheet steel with double ball race at fork head



	mm	mm	mm	mm	kg	mm	mm
roller bearing							
LLPNS180ROP3 2RF	180x45	215	135x105	105x80	70	45	11
LLPNS200ROP3 2RF	200x50	236	135x105	105x80	75	58	11





		mm	mm	mm	kg	mm
roller bearing						
LLPNS180ROO	LLPNS180ROOTF	180x45	220	16	100	60
LLPNS200ROO	LLPNS200ROOTF	200x50	230	16	200	60
LLPNS260ROZ	LLPNS260ROZTF	260x85	298	25x55	150	85



Possibilities for fixation

70 - 250 kg

Black pneumatic wheels



		mm	mm	mm	kg	mm
plain bearing	roller bearing					
LNS180G20RN60*	LNS180R20RN60*	180	50	60	70	20
LNS200G20RN60*	LNS200R20RN60*	200	50	60	75	20
LNS220G20RN75***	LNS220R20RN75***	220	65	75	100	20
LNS220G20SN75***	LNS220R20SN75***	220	65	75	100	20
LNS220G25RN75***	LNS220R25RN75***	220	65	75	100	25
LNS220G25SN75***	LNS220R25SN75***	220	65	75	100	25
LNS260G20RN75*	LNS260R20RN75*	260	85	75	200	20
LNS260G20SN75**	LNS260R20SN75**	260	85	75	200	20
LNS260G25RN75*	LNS260R25RN75*	260	85	75	200	25
LNS260G25SN75**	LNS260R25SN75**	260	85	75	200	25

* grooved profile
** block profile
*** military profile

Black pneumatic wheels

Wheel:

black pneumatic wheels, polyamide core, roller bearing

Characteristics:

- medium load capacity
- good shock absorbing characteristic
- low resistance to rolling when used on difficult ground
- easy on floors, high running comfort
- temperature resistant from -10°C to +80°C
- Shore-hardness: variable according to tyre pressure





plain bearing	roller bearing	mm	mm	mm	kg	mm
LNS400G20RN75*	LNS400R20RN75*	400	100	75	250	20
LNS400G20RN88*	LNS400R20RN88*	400	100	88	250	20
LNS400G25RN75*	LNS400R25RN75*	400	100	75	250	25
LNS400G25RN88*	LNS400R25RN88*	400	100	88	250	25
LNS400G20SN75**	LNS400R20SN75**	400	100	75	250	20
LNS400G20SN88**	LNS400R20SN88**	400	100	88	250	20
LNS400G25SN75**	LNS400R25SN75**	400	100	75	250	25
LNS400G25SN88**	LNS400R25SN88**	400	100	88	250	25

* grooved profile

** block profile

70 - 200 kg

Black pneumatic castors





			mm	mm	mm	mm	kg	mm	mm
roller bearing									
LLNS180ROP3	LLNS180ROP3TF	BLNS180ROP3	180x45	215	135x105	105x80	70	45	11
LLNS200ROP3	LLNS200ROP3TF	BLNS200ROP3	200x50	236	135x105	105x80	75	58	11
LLNS220ROP3	LLNS220ROP3TF	BLNS220ROP3	220x65	280	135x105	105x80	100	63	11
LLNS260ROP4	LLNS260ROP4TF	BLNS260ROP4	260x85	295	175x175	140x140	150	70	15

Black pneumatic castors

black housing with black air tyre wheel on polyamide rim, roller bearing made of black sheet steel with double ball race at fork head



		mm	mm	mm	mm	kg	mm	mm
roller bearing								
LLNS180ROP3 2RF		180x45	215	135x105	105x80	70	45	11
LLNS200ROP3 2RF		200x50	236	135x105	105x80	75	58	11





		mm	mm	mm	kg	mm
roller bearing						
LLNS180ROO	LLNS180ROOTF	180x45	220	16	100	60
LLNS200ROO	LLNS200ROOTF	200x50	230	16	200	60
LLNS260ROZ	LLNS260ROZTF	260x85	298	25x55	150	85
ball bearing						
LPGS180KUO	LPGS180KUOTF	180x45	220	16	100	60
LPGS200KUO	LPGS200KUOTF	200x50	230	16	200	60
LPGS260KUZ	LPGS260KUZTF	260x85	298	25x55	150	85



Possibilities for fixation

Black polyamide wheels



		mm	mm	mm	kg	mm
plain bearing	roller bearing					
NY025/14/05		25	14	14,5	10	5
NY030/14/05		30	14	15	15	5
NY036/10/08		36	10	11	25	8
NY038/10/05		38	10	11	25	5
NY038/18/06		38	18	19	25	6
NY040/18/06		40	18	21,5	30	6
NY045/18/06		45	18	21,5	35	6
NY050/10/05		50	10	14	35	5
NY050/19/06		50	19	21	50	6
NY050/18/08		50	18	21,5	50	8
NY050/20/08		50	20	23	75	8
NY050/40/10		50	40	40	150	10
NY058S29GL10	NY058S25RO10	58	29	31	75	10
NY065/30/GL12		65	30	34,5	120	12
NY075/23/08		75	23,5	27,5	50	8
NY080/34/12		80	34	44,5	125	12
NY080S34GL12	NY080S34RO12	80	34	44	125	12
NY100S36GL12	NY100S36RO12	100	36	44	160	12
NY125S40GL12	NY125S40RO12	125	40	48	200	12

Black polyamide wheels

Wheel:

black polyamide wheels plain or roller or ball bearing

available in flat or convex

Characteristics:

- very high load capacity
- temperature resistant from -30°C to +80°C
- resistant to rubbing and extremly robust
- resistant to oxygen, benzene, oil, ozone and many other chemicals











mm mm mm kg mm

plain bearing	roller bearing	ball bearing					
SNY035GL08		SNY035KU08	35	27	27	100	8
SNY080GL12	SNY080RO12	SNY080KU12	80	30	30	250	12
SNY100GL20	SNY100RO20	SNY100KU12	100	40	40	500	20
SNY125GL20	SNY125RO20	SNY125KU15	125	45	45	600	20
SNY150GL20	SNY150RO20	SNY150KU20	150	50	50	700	20
SNY175GL20	SNY175RO20	SNY175KU20	175	50	50	800	20
SNY200GL20	SNY200RO20	SNY200KU20	200	50	50	1000	20
SNY250GL25	SNY250RO25	SNY250KU25	250	50	50	1000	25

dyn. 50 - 500 kg

Black polyamide castors





			mm	mm	mm	mm	kg	mm	mm
LMNYS033KUPL	LMNYS033KUPLTF	BNYS033KUPL	33x27	51	60X60	38X38/47X47	100	15	6
LNYS050GLPL	LNYS050GLPLTF	BNYS050GLPL	50x18	73	60X60	38X38/47X47	50	25	6
LMNYS050KUPL	LMNYS050KUPLTF	BMNYS050KUPL	50x40	72	60X60	38X38/47X47	150	31	6
LMNYS050KUPLS	LMNYS050KUPLSTF	BNYS050KUPLS	50x40	82	80x80	60x60	150	31	9
LNYS065KUP1	LNYS065KUP1TF	BNYS065KUP1	65x30	93	105x80	80x60	200	40	9
LNYS080ROP1	LNYS080ROP1TF	BNYS080ROP1	80x34	100	105x80	80x60	125	40	9
LNYS080ROP3	LNYS080ROP3TF	BNYS080ROP3	80x34	115	140x110	105x80	125	48	11
LNYS080KUP1	LNYS080KUP1TF	BNYS080KUP1	80x36	100	105x80	80x60	200	40	9
LNYS080KUP3	LNYS080KUP3TF	BNYS080KUP3	80x36	115	140x110	105x80	250	48	11
LNYS100ROP1	LNYS100ROP1TF	BNYS100ROP1	100x36	128	105x80	80x60	160	40	9
LNYS100ROP3	LNYS100ROP3TF	BNYS100ROP3	100x36	125	140x110	105x80	160	48	11
LNYS100KUP1	LNYS100KUP1TF	BNYS100KUP1	100x40	128	105x80	80x60	320	40	9
LNYS100KUP3	LNYS100KUP3TF	BNYS100KUP3	100x40	125	140x110	105x80	400	48	11
LNYS125ROP3	LNYS125ROP3TF	BNYS125ROP3	125x40	155	140x110	105x80	200	47	11
LNYS125ROP3A	LNYS125ROP3TFA	BNYS125ROP3A	125x40	165	140x110	105x80	200	45	13
LNYS125KUP3	LNYS125KUP3TF	BNYS125KUP3	125x45	155	140x110	105x80	500	47	11
LNYS125KUP3A	LNYS125KUP3TFA	BNYS125KUP3A	125x45	165	140x110	105x80	500	45	13
LNYS150KUP3	LNYS150KUP3TF	BNYS150KUP3	150x45	185	140x110	105x80	500	60	11
LNYS200KUP3	LNYS200KUP3TF	BNYS200KUP3	200x50	260	140x110	105x80	500	60	11

Black polyamide castors

black castors with black polyamide wheel, with plain, roller or ball bearing, made of black sheet steel with double ball race at fork head





		mm	mm	mm	mm	dyn. kg	mm	mm
LNYS050KUPL-4Fach		50x40	82	80x80	60x60	150	37	9
LNYS065KUP1-4Fach		65x30	93	105x80	80x60	150	40	9
LNYS080KUP1-4Fach		80x36	106	105x80	80x60	200	40	9
LNYS080KUP3-4Fach		80x36	115	140x110	105x80	250	48	9
LNYS080KUP3-8Fach		80x36	115	140x110	105x80	250	48	9
	SLNYS080KUP3TFS	80x36	125	125x125	105x80	350	48	11
LNYS100KUP3-4Fach		100x40	125	140x110	105x80	350	48	11
LNYS100KUP3-8Fach		100x40	125	140x110	105x80	350	48	11
	SLNYS100KUP3TFS	125x45	148	125x125	105x80	500	47	11
LNYS125KUP3-4Fach		125x45	155	140x110	105x80	500	47	11
LNYS150KUP3-4Fach	SLNYS125KUP3TFS*	150x45	185	140x110	105x80	500	60	11
LNYS200KUP3-4Fach	SLNYS180KUP3TFS	200x50	260	140x110	105x80	500	60	11

*also available with overall height 178 mm on demand





		mm	mm	mm	dyn. kg	mm
LMNYS033KUO	LMNYS033KUOTF	33x27	51	10	100	15
LMNYS050KUO	LMNYS050KUOTF	50x40	72	12	150	28
LNYS065KUO		65x30	92	13	180	40
LNYS075KUO		75x30	97	13	180	40
LNYS080KUO	LNYS080KUOTF	80x30	106	12	120	37
LNYS080/40KUO		80x40	115	13	250	48
LNYS100KUOA	LNYS100KUOTFA	100x40	125	12	120	37
LNYS100KUO	LNYS100KUOTF*	100x40	125*	13	350	48
LNYS125KUOA	LNYS125KUOTFA	125x45	150	12	170	42
LNYS150KUOA	LNYS150KUOTFA	150x50	179	12	200	45

* overall height of LNYS100KUOTF is 128 mm, plates for compensating the height are available on request



Possibilities for fixation

dyn. 250 - 1000 kg

Black heavy duty polyamide castors







			mm	mm	mm	mm	dyn. kg	mm	mm
with small plate									
SLNYS080KUP1	SLNYS080KUP1TF	SBNYS080KUP1	80x36	120	105x85	80x60	250	40	9
SLNYS100KUP1	SLNYS100KUP1TF	SBNYS100KUP1	100x40	130	105x80	80x60	350	40	9
with large plate									
SLNYS100KUP3		SBNYS100KUP3	100x40	148	135x110	105x80	350	40	11
SLNYS125KUP3	SLNYS125KUP3TF	SBNYS125KUP3	125x45	178	135x110	105x80	500	50	11
SLNYS150KUP3	SLNYS150KUP3TF	SBNYS150KUP3	150x45	210	135x110	105x80	660	53	11
SLNYS200KUP3	SLNYS200KUP3TF	SBNYS200KUP3	200x50	245	135x110	105x80	1000	55	11
SLNYS250KUP3	SLNYS250KUP3TF	SBNYS250KUP3	250x50	298	135x110	105x80	800	74	11

Black heavy duty polyamide castors

black castors with black polyamide wheel, roller or ball bearing, made of black sheet steel with double ball race at fork head





		mm	mm	mm	mm	dyn. kg	mm	mm
SLNYS100KUP3 + 2 RF		100x40	148	135x105	105x80	350	40	11
	SLNYS100KUP3TFS	100x40	148	125x125	105x80	350	47	11
SLNYS125KUP3 + 2 RF	SLNYS125KUP3TFS*	125x45	185	135x110	105x80	500	50	11
SLNYS150KUP3 + 2 RF	SLNYS150KUP3TFS	150x45	210	135x110	105x80	660	53	11
SLNYS200KUP3 + 2 RF	SLNYS200KUP3TFS	200x50	245	135x110	105x80	1000	55	11

*also available with overall height 178 mm on demand





		mm	mm	mm	dyn. kg	mm
SLNYS080KUZ22R	SLNYS080KUZ22RTF	80x36	114	22x50	150	36
SLNYS100KUZ22R	SLNYS100KUZ22RTF	100x40	131	22x50	175	36
SLNYS125KUZ22R	SLNYS125KUZ22RTF	125x45	161	22x50	300	45
SLNYS150KUZ22R	SLNYS150KUZ22RTF	150x45	184	22x50	400	50
SLNYS200KUZ25R	SLNYS200KUZ25RTF	200x50	244	25x65	550	57

200 - 1400 kg

Black welded heavy duty polyamide castors









			mm	mm	mm	mm	kg	mm	mm
with small plate									
GLNYS065KUP1		GBNYS065KUP1	65x30	132,5	105x85	80x60	200	30	11
GLNYS080KUP1		GBNYS080KUP1	80x36	140	100x80	80x60	300	30	11
GLNYS100KUP1	GLNYS100KUP1TF	GBNYS100KUP1	100x40	150	100x80	80x60	350	30	11
GLNYS125KUP1	GLNYS125KUP1TF	GBNYS125KUP1	125x40	160	105x80	80x60	400	32	11
with large plate									
GLNYS080KUP3		GBNYS080KUP3	80x80	130	135x110	105x80	600	68	13
GLNYS082KUP3		GBNYS082KUP3	82x80	133	135x110	105x80	600	68	13
GLNYS085KUP3		GBNYS085KUP3	85x80	135	135x110	105x80	600	68	13
GLNYS100KUP3		GBNYS100KUP3	100x40	163	135x110	105x80	300	45	13
GLNYS125KUP3	GLNYS125KUP3TF	GBNYS125KUP3	125x45	175	135x110	105x80	400	45	13
GLNYS150KUP3	GLNYS150KUP3TF	GBNYS150KUP3	150x50	205	135x110	105x80	650	50	13
GLNYS200KUP3	GLNYS200KUP3TF	GBNYS200KUP3	200x50	260	135x110	105x80	1100	57	13
GLNYS250KUP4	GLNYS250KUP4FR	GBNYS250KUP4	250x60	305	175x140	140x105	1400	80	15

Black welded heavy duty polyamide castors

black castors with black polyamide, ball bearing, made of black sheet steel with double ball race at fork head





		mm	mm	mm	kg	mm
GLNYS100KUZ22R	GLNYS100KUZ22RTF	100x40	150	22x50	350	36
GLNYS125KUZ22R	GLNYS125KUZ22RTF	125x45	175	22x50	500	45
GLNYS150KUZ22R	GLNYS150KUZ22RTF	150x45	205	22x50	750	50
GLNYS200KUZ25R	GLNYS200KUZ25RTF	200x50	260	25x65	1000	57

dyn. 80 - 2000 kg

Black double polyamide castors





			mm	mm	mm	mm	kg	mm	mm
LDMNYS033GLPL	LDMNYS033GLPLTF	BDNYS033GLPL	2x33x9	51	60X60	38X38/46X46	100	15	6
LDMNYS050KUPL	LDMNYS050KUPLTF	BDMNYS050KUPL	2x50x20	72	60x60	38X38/46X46	150	31	6
LDMNYS050KUPLS	LDMNYS050KUPLSTF	BDNYS050KUPLS	2x50x20	82	80x80	60x60	150	31	9
LDNYS080GLP3		BDNYS080GLP3	2x80x25	115	135x105	105x80	250	45	11
LDNYS075GLP3S		BDNYS075GLP3S	2x75x20	125	140x110	105x80	500	48	9
LDNYS100KUP3	LDNYS100KUP3TF	BDNYS100KUP3	2x100x20	125	135x105	105x80	400	48	11
LDNYS100KUP1		BDNYS100KUP1	2x100x20	128	105x80	80x60	320	40	9
SLDNYS100KUP3		SBDNYS100KUP3	2x100x20	148	135x105	105x80	500	48	11
LDNYS100KUP4A		BDNYS100KUP4A	2x100x30	184	170x170	130x130	600	60	13
LDNYS125KUP4A	LDNYS125KUP4TFA	BDNYS125KUP4A	2x125x45	197	170x170	130x130	750	60	13
LDNYS180KUP4A	LDNYS180KUP4TFA	BDNYS180KUP4A	2x180x50	260	200x200	160x160	1800	72	17
LDNYS200KUP3A	LDNYS200KUP3TFA	BDNYS200KUP3A	2x200x50	270	200x200	160x160	2000	72	17

Black double polyamide castors

black castors with black polyamide wheel, plain or ball bearing, made of black sheet steel with double ball race at fork head



		mm	mm	mm	mm	kg	mm	mm
LDNYS050KUPLS-4Fach	2x50x20	82	80x80	60x60	150	37	9
LDNYS080KUP3-4Fach	2x80x25	115	140x110	105x80	300	48	11
LDNYS080KUP3-8Fach	2x80x25	115	140x110	105x80	300	48	11
LDNYS100KUP3-4Fach	2x100x25	125	140x110	105x80	350	48	11
LDNYS100KUP3-8Fach	2x100x25	125	140x110	105x80	350	48	11
LDNYS125KUP3-4Fach	2x125x25	155	140x110	105x80	500	47	11



		mm	mm	mm	kg	mm
LDMNYS033GLO	LDMNYS033GLOTF	2x33x9	51	10	100	15
LDMNYS050GLO	LDMNYS050GLOTF	2x50x20	72	12	150	28
LDNYS050GLOS	LDNYS050KUOTFS	2x50x20	80	12	150	37
LDNYS080KUO		2x80x25	115	13	300	60
LDNYS100KUO	LDNYS100KUOTF*	2x100x25	125*	13	350	60
LDNYS125KUO	LDNYS125KUOTF	2x125x25	155	13	350	60

* overall height of LDNYS100KUOTF is 128 mm, plates for compensating the height are available on request



Possibilities for fixation

dyn. 300 - 2000 kg

Black polyamide turtles





	mm	mm	mm	mm	mm	kg	mm	mm
TLMNYS033GLP1/76	118x118x118	33x27	76	105x85	80x60	300	175	9
TLMNYS033GLP3/85	118x118x118	33x27	85	135x105	105x80	300	175	11
TLMNYS033GLP3S/95	118x118x118	33x27	95	135x105	105x80	300	175	11
TLMMNYS050KUP1/101	183x183x183	50x40	101	105x85	80x60	450	246	9
TLMNYS050KUP3/106	183x183x183	50x40	106	135x105	105x80	450	246	11
TLMNYS050KUP3S/115	183x183x183	50x40	115	135x105	105x80	450	254	11
TLMNYS050KUP1S/101	210x210x210	50x40	101	105x85	80x60	350	318	9
TLMNYS050KUP3S/108	210x210x210	50x40	108	135x105	105x80	450	318	11
TLMNYS050KUP3SS/115	210x210x210	50x40	115	135x105	105x80	450	318	11
TLNYS065KUP3/125	250x250x250	65x30	125	135x105	105x80	500	364	11
TLNYS065KUP1/116	250x250x250	65x30	116	105x85	80x60	350	364	9
TLNYS065KUP1/125	250x250x250	65x30	125	105x85	80x60	350	364	9
TLNYS065KUP1S/128	250x250x250	65x30	128	105x85	80x60	350	364	9
TLNYS080KUP1/124	250x250x250	80x36	124	105x85	80x60	350	387	9
TLNYS080KUP3/133	250x250x250	80x36	133	135x105	105x80	500	387	11
TLNYS080KUP3/148	250x250x250	80x36	148	135x105	105x80	500	387	11
TLNYS080KUP1S/155	300x300x300	80x36	155	105x85	80x60	350	428	9
TLNYS080KUP3S/155	300x300x300	80x36	155	135x105	105x80	600	428	11

Special sizes available on request !

BJERRING – Tykhøjetvej 20 – Hal 5 – 7323 Give – Tlf. +45 77345206 - mail: salg@bjerring-sales.dk bjerring-sales.dk – sunswim.dk – bjerring-shop.dk – bjerring-furniture.dk

Black polyamide turtles

black turtles with black polyamide, plain bearing or ball bearing, made of black sheet steel with double ball race at fork head



	mm	mm	mm	mm	mm	kg	mm	mm
TLNYS100KUP3L/160	300x300x300	100x40	160	135x105	105x80	600	456	11
TLNYS100KUP3/164	300x300x300	100x40	164	135x105	105x80	600	456	11
TLNYS100KUP3/166	300x300x300	100x40	166	135x105	105x80	1000	456	11
TLNYS100KUP3S/178	300x300x300	100x40	178	135x105	105x80	1000	456	11
TSLNYS100KUP3S/185	300x300x300	100x40	185	135x105	105x80	1000	456	11
TLNYS125KUP3/196	340x340x340	125x45	196	135x105	105x80	1000	543	11
TLNYS125KUP3S/210	340x340x340	125x45	210	135x105	105x80	1000	543	11
TSLNYS125KUP3SS/221	550x550x550	125x45	221	135x105	105x80	1000	670	11
TLNYS150KUP3/235	550x550x550	150x45	235	135x105	105x80	600	716	11
TLNYS150KUP3S/230	550x550x550	150x45	230	135x105	105x80	1000	716	11
TLNYS150KUP3SS/245	550x550x550	150x45	245	135x105	105x80	1000	716	11
TSLNYS150KUPS/259	550x550x550	150x45	259	190x170	150x135	2000	716	15
TSLNYS200KUPS/305	550x550x550	200x50	305	190x170	150x135	2000	785	15



	mm	mm	mm	mm	mm	kg	mm	mm
T5LMNYS035GLP1/76	Ø 195	33x27	76	105x85	80x60	500	240	9
T5LMNYS035GLP3/85	Ø 195	35x27	85	135x105	105x80	500	240	11
TLNYS100KUP3R/160	Ø 380	100x40	160	135x105	105x80	600	500	11

350 - 2000 kg

Black double polyamide turtles



	mm	mm	mm	mm	mm	kg	mm	mm
TLDMNYS033KUP1/76	118x118x118	2x33x9	76	105x85	80x60	300	175	9
TLDMNYS050KUP1/101	183x183x183	2x50x20	101	105x85	80x60	450	246	9
TLDMNYS050KUP3/106	183x183x183	2x50x20	106	135x105	105x80	450	246	11
TLDMNYS050KUP3S/115	183x183x183	2x50x20	115	135x105	105x80	450	254	11
TLDMNYS050KUP1S/101	210x210x210	2x50x20	101	105x85	80x60	350	318	9
TLDMNYS050KUP3S/108	210x210x210	2x50x20	108	135x105	105x80	450	318	11
TLDMNYS050KUP3SS/115	210x210x210	2x50x20	115	135x105	105x80	450	318	11
TLDNYS065KUP3/125	250x250x250	2x65x20	125	135x105	105x80	500	364	11
TLDNYS065KUP1/116	250x250x250	2x65x20	116	105x85	80x60	350	364	9
TLDNYS065KUP1/125	250x250x250	2x65x20	125	105x85	80x60	350	364	9
TLDNYS065KUP1S/128	250x250x250	2x65x20	128	105x85	80x60	350	364	9
TLDNYS080KUP1/124	250x250x250	2x80x20	124	105x85	80x60	350	387	9
TLDNYS080KUP3/133	250x250x250	2x80x20	133	135x105	105x80	500	387	11
TLDNYS080KUP3/148	250x250x250	2x80x20	148	135x105	105x80	500	387	11
TLDNYS080KUP1S/155	300x300x300	2x80x20	155	105x85	80x60	350	428	9
TLDNYS080KUP3S/155	300x300x300	2x80x20	155	135x105	105x80	600	428	11

Special sizes available on request !

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Black double polyamide turtles

black turtles with black polyamide, plain bearing or ball bearing, made of black sheet steel with double ball race at fork head



	mm	mm	mm	mm	mm	kg	mm	mm
TLDNYS100KUP3L/160	300x300x300	2x100x20	160	135x105	105x80	600	456	11
TLDNYS100KUP3/165	300x300x300	2x100x20	165	135x105	105x80	1000	456	11
TLDNYS100KUP3S/178	300x300x300	2x100x20	178	135x105	105x80	1000	456	11
TSLDNYS100KUP3S/185	300x300x300	2x100x20	185	135x105	105x80	1000	456	11
TLDNYS125KUP3/196	340x340x340	2x125x25	196	135x105	105x80	1000	543	11
TLDNYS125KUP3S/210	340x340x340	2x125x25	210	135x105	105x80	1000	543	11
TSLDNYS125KUP3SS/221	550x550x550	2x125x25	221	135x105	105x80	1000	670	11
TLDNYS150KUP3/235	550x550x550	2x150x30	235	135x105	105x80	600	716	11
TLDNYS150KUP3S/230	550x550x550	2x150x30	230	135x105	105x80	1000	716	11
TLDNYS150KUP3SS/245	550x550x550	2x150x30	245	135x105	105x80	1000	716	11
TSLDNYS150KUPS/259	550x550x550	2x150x30	259	190x170	150x135	2000	716	15
TSLDNYS200KUPS/305	550x550x550	2x200x30	305	190x170	150x135	2000	785	15

· Vulkollan / Polyurethane

2

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Vulkollan

A highly elastic material for the highest dynamic load capacity. In 1937 polyurethane was invented by Otto Bayer. The "classic" of this category is Vulkollan. There are 3 forms of this product:

- massiv, glycolnetworked Vulkollan
- massiv, waternetworked Vulkollan

For wheels and castors is massive, glycolnetworked Vulkollan for practise. Using massive and glycolnetworked Vulkollan for wheels and castors. Vulkollan is manufactured in a casting method of Desmophan and Desmodur 15.
Castor coverings made of Vulkollan have a higher load capacity in regard to castors made of gum. This important advantage makes it possible to construct room and weight saving by a default pressure. Castor bandages made of other or also resilient plastics are stronger. They offer a less driving comfort and cause driving noises. In comparison to other which have the same hardness PUR-Elastomers has Vulkollan a higher E-module and so a higher load capacity by a concurrently low absorbability and low lasting forming.
Vulkollan is a homogeneous and high molecular material without flexibilizer and colouring dues. Frequency and tensile strength are the same for all types. Vulkollan´s rigidity rises with thickness increasingly. This shows a higher clamping quality at the same distension and higher tear strength while the blow flexibility and elongation falls.
The choice of a Vulkollan type should be good considered so that the physical features are depending on temperature. A room temperature till approx +80°C are the forming qualities almost steady. At lower temperatures Vulkollan becomes more rigid till about -40°C the elastic features are frozen without any brittleness.

Tear Strength
For practising is the Tear Strength of elastic material Vulkollan extremely important. The combination of elasticity and Tear Strength results a feature of Vulkollan:
The extremely large abrasion resistance which shows a great corrosion behaviour to advantage in a dry or wet friction. The Tear Strength of Vulkollan will not be reached by no other not reinforced Elastomer. In this case special attention deserves the flexible Vulkollan qualities.

Abrasion Resistance
The excellent Abrasion Resistance is one of the best feature of Vulkollan. It beats all the other elastic materials. The DIN-Abrasion of Vulkollan is in comparison to a indelible nature gum quality only approx 25-40 percent. If in wet Abrasion between friction partner and Vulkollan there is a grease like water or oil then it belongs Vulkollan to the most indelible materials which are known today. As well as metal will be beaten. Already traces of wetness reduces the low Abrasion to a minimum. It will be excited less warmth which additionally a better conductibility of the grease. This reduction of the abrasion and thermal demand causes together the high tear strength.

Press formation properties
The Press formation properties dependent on the exterior form of the Vulkollan part and character of the press area. On sleek press areas can a body expand itself. The characteristic curve results if a foreign material is closely joined with the press area and there is consequently no circumference possible on the interface. If Vulkollan will be required dynamically then you have to consider the development of the heat. The heating will be rising by increasing of frequency and forming.

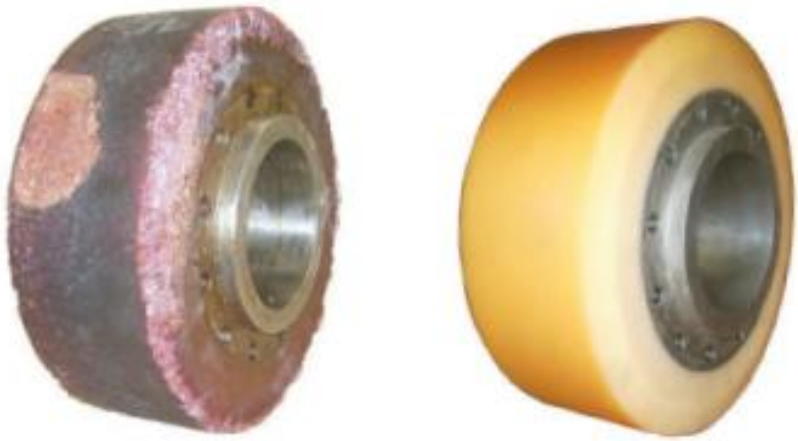
Air frame wheel

- flat or round tread
- fabrication on request



Driving wheel

old wheel with new Vulkollan tyre



before **after**

Castors with reduced offset



Housing: made of galvanized sheet steel with double ball race in the fork head

Wheel: Polyurethane wheel with ball bearing

Utilisation: narrow places where a big offset would be a disadvantage, e.g. small but high

Wheel diameter:	100 mm
Height:	125 mm
Offset:	20 mm
Top plate size:	133 x 104 mm
Bolt hole distance:	105 x 80 mm
Load capacity:	200 kg
Code:	**LGPT100KUP3 leicht**



Housing: made of galvanized sheet steel with double ball race in the fork head

Wheel: Vulkollan wheel with ball bearing

Utilisation: narrow places where a big offset would be a disadvantage, e.g. small but high

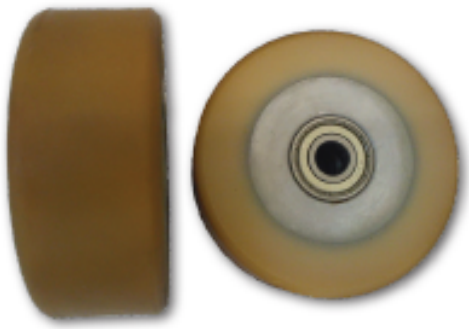
Wheel diameter:	100 mm
Height:	125 mm
Offset:	20 mm
Top plate size:	133 x 104 mm
Bolt hole distance:	105 x 80 mm
Load capacity:	200 kg
Code:	**LVU100KUP3 leicht**

for small and high decoration to fix right in the corner

Wheels for stages made of Vulkollan

- very high restoring elasticity (low compression set up for a longer time)
- strength and tear resistance
- non-staining and traceless on floor
- impact and vibration damping
- very small abraison and cut resistant, which is important for mobile electrical devices
- resistant to diluted bases and acids
- temperature resistant from -40°C to +80°C, for a short duration until +90°C
- resistant to oils and greases

Version: Wheel is available in flat or convex, 92° Shore



		driving wheel	mm	mm	mm	dyn. kg	mm	mm
VU050/20/08BA	VU050/20/08FL	ANV050/20/08FL	50	20	23	50	8	8 H7
VU050/40/10BA	VU050/40/10FL	ANV050/40/10FL	50	40	40	150	10	10 H7
VU065/30/12BA	VU065/30/12FL	ANV065/30/12FL	65	30	30	200	12	12 H7
VU065/30/15BA	VU065/30/15FL	ANV065/30/15FL	65	30	30	200	15	15 H7
VU075/30/12BA	VU075/30/12FL	ANV075/30/12FL	75	30	30	250	12	12 H7
VU075/30/15BA	VU075/30/15FL	ANV075/30/15FL	75	30	30	250	15	15 H7
VU080/30/12BA	VU080/30/12FL	ANV080/30/12FL	80	30	30	250	12	12 H7
VU080/30/15BA	VU080/30/15FL	ANV080/30/15FL	80	30	30	250	15	15 H7
VU080/40/12BA	VU080/40/12FL	ANV080/40/12FL	80	40	40	250	12	12 H7
VU080/40/15BA	VU080/40/15FL	ANV080/40/15FL	80	40	40	250	15	15 H7
VU100/40/12BA	VU100/40/12FL	ANV100/40/12FL	100	40	40	400	12	12 H7
VU100/40/15BA	VU100/40/15FL	ANV100/40/15FL	100	40	40	400	15	15 H7
VU100/40/20BA	VU100/40/20FL	ANV100/40/20FL	100	40	40	400	20	20 H7
VU125/45/20BA	VU125/45/20FL	ANV125/45/20FL	125	45	45	500	20	20 H7
VU125/45/25BA	VU125/45/25FL	ANV125/45/25FL	125	45	45	500	25	25 H7
VU125/45/30BA	VU125/45/30FL	ANV125/45/30FL	125	45	45	500	30	30 H7
VU150/50/20BA	VU150/50/20FL	ANV150/50/20FL	150	50	50	500	20	20 H7
VU150/50/25BA	VU150/50/25FL	ANV150/50/25FL	150	50	50	500	25	25 H7
VU150/50/30BA	VU150/50/30FL	ANV150/50/30FL	150	50	50	500	25	30 H7
VU180/50/20BA	VU180/50/20FL	ANV180/50/20FL	180	50	50	700	20	20 H7
VU180/50/25BA	VU180/50/25FL	ANV180/50/25FL	180	50	50	700	25	25 H7
VU180/50/30BA	VU180/50/30FL	ANV180/50/30FL	180	50	50	700	30	30 H7
VU200/50/20BA	VU200/50/20FL	ANV200/50/20FL	200	50	50	800	20	20 H7
VU200/50/25BA	VU200/50/25FL	ANV200/50/25FL	200	50	50	800	25	25 H7
VU200/50/30BA	VU200/50/30FL	ANV200/50/30FL	200	50	50	800	30	30 H7

Guiding wheels made of Vulkollan 92° Shore with steel core, 92° Shore, ball bearing

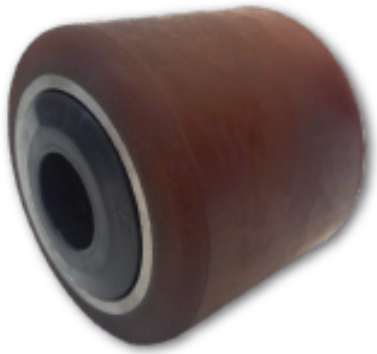


- very high restoring elasticity (low compression set up for a longer time)
- strength and tear resistance
- non-staining and traceless on floor
- impact and vibration damping
- very small abraison and cut resistant, which is important for mobile electrical devices
- resistant to diluted bases and acids
- temperature resistant from -40°C to +80°C, for a short duration until +90°C
- resistant to oils and greases

						
		mm	mm	mm	kg	mm
FU040/15/10		40	15	8	55	10
FU040/20/10		40	20	8	70	10
FU040/25/10		40	25	8	90	10
FU050/15/10		50	15	9	70	10
FU050/20/12		50	20	10	90	12
FU055/20/12		55	20	10	100	12
FU055/20/15		55	20	10	100	15
FU060/20/17		60	20	12	110	17
FU060/20/20		60	20	12	110	20
FU070/20/17		70	20	12	125	17
FU070/20/20		70	20	12	125	20
FU070/20/25		70	20	12	125	25
FU070/25/20		70	25	14	160	20
FU070/25/25		70	25	15	160	25
FU080/25/20		80	25	15	180	20
FU080/25/25		80	25	15	180	25
FU090/25/25		90	25	15	200	25
FU100/25/20		100	25	15	225	20
FU100/25/25		100	25	15	225	25
FU120/25/20		120	25	15	270	20
FU120/25/25		120	25	15	270	25
FU120/25/30		120	25	15	270	30
FU125/30/20		125	30	30	335	20
FU125/30/25		125	30	35	335	25

Pallet truck rollers made of Vulkollan with steel core, 92° Shore, ball bearing

- very high restoring elasticity (low compression set up for a longer time)
- strength and tear resistance
- non-staining and traceless on floor
- impact and vibration damping
- very small abraison and cut resistant, which is important for mobile electrical devices
- resistant to diluted bases and acids
- temperature resistant from -40°C to +80°C, for a short duration until +90°C
- resistant to oils and greases



		mm	mm	mm	dyn. kg	mm
HVU080/54/60/20	HVU080/54/60/25	80	54	60	400	20/25
HVU080/57/61/20	HVU080/57/61/25	80	57	61	400	20/25
HVU080/70/74/20	HVU080/70/74/25	80	70	74	450	20/25
HVU080/100/104/20	HVU080/100/104/25	80	100	104	650	20/25
HVU082/50/52/20	HVU082/50/52/25	82	50	52	400	20/25
HVU082/55/55/20	HVU082/55/55/25	82	55	55	400	20/25
HVU082/60/60/20	HVU082/60/60/25	82	60	60	450	20/25
HVU082/65/67/20	HVU082/65/67/25	82	65	67	450	20/25
HVU082/70/70/20	HVU082/70/70/25	82	70	70	550	20/25
HVU082/70/74/20	HVU082/70/74/25	82	70	74	500	20/25
HVU082/75/75/20	HVU082/75/75/25	82	75	75	550	20/25
HVU082/80/80/20	HVU082/80/80/25	82	80	80	600	20/25
HVU082/82/86/20	HVU082/82/86/25	82	82	86	600	20/25
HVU082/85/85/20	HVU082/85/85/25	82	85	85	650	20/25
HVU082/90/90/20	HVU082/90/90/25	82	90	90	700	20/25
HVU082/98/105/20	HVU082/98/105/25	82	98	105	700	20/25
HVU082/100/104/20	HVU082/100/104/25	82	100	104	700	20/25
HVU085/43/43/20		85	43	43	300	20
HVU085/46/50/20	HVU085/46/50/25	85	46	50	350	20/25
HVU085/50/55/20		85	50	55	350	20
HVU085/60/65/20		85	60	65	450	20
HVU085/75/77/20		85	75	77	550	20
HVU085/80/80/20	HVU085/80/80/25	85	80	80	600	20/25
HVU085/80/85/20		85	80	85	600	20
HVU085/86/88/20		85	86	88	600	20
	HVU085/90/92/25	85	90	92	700	25
HVU085/95/100/20		85	95	100	750	20
HVU085/100/100/20	HVU085/100/100/25	85	100	100	800	20/25
	HVU085/100/104/25	85	100	104	800	25
	HVU085/105/110/25	85	115	115	800	25
HVU085/120/124/20	HVU085/120/124/25	85	120	124	900	20/25

Theatre transport equipment castor with Vulkollan on solid aluminium core, 92° Shore



Wheel:
Vulkollan tyre, solid aluminium core, ball bearing, flat or convex
Description of properties: Page 2.3

Housing:
made of galvanised sheet steel with double ball race at fork head
bold: version with black housing





			mm	mm	mm	mm	dyn. kg	mm	mm
LMVU033KUPL	**LMVU033KUPLTF**	**BVU033KUPL**	33x27	51	60x60	38x38/47x47	100	15	6
LVU050KUPL	**LVU050KUPLTF**	**BVU050KUPL**	50x20	73	60x60	38x38/47x47	50	25	6
LMVU050KUPL	**LMVU050KUPLTF**	**BMVU050KUPL**	50x40	72	60x60	38x38/47x47	150	31	6
LMVU050KUPLS	**LMVU050KUPLSTF**	**BVU050KUPLS**	50x40	82	80x80	60x60	150	31	9
LVU065KUP1	**LVU065KUP1TF**	**BVU065KUP1**	65x30	93	105x80	80x60	200	40	9
LVU080KUP1	**LVU080KUP1TF**	**BVU080KUP1**	80x30	100	105x80	80x60	200	40	9
LVU080KUP3	**LVU080KUP3TF**	**BVU080KUP3**	80x40	115	140x110	105x80	250	48	11
LVU100KUP1	LVU100KUP1TF	BVU100KUP1	100x40	128	105x80	80x60	320	40	9
LVU100KUP3	**LVU100KUP3TF**	**BVU100KUP3**	**100x40**	**125**	**140x110**	**105x80**	**400**	**48**	**11**
LVU125KUP1	LVU125KUP1TF	BVU125KUP1	125x45	155	105x80	80x60	320	40	9
LVU125KUP3	LVU125KUP3TF	BVU125KUP3	125x45	155	140x110	105x80	500	47	11
LVU125KUP3A	LVU125KUP3TFA	BVU125KUP3A	125x45	166	140x110	105x80	400	45	13
LVU150KUP3	LVU150KUP3TF	BVU150KUP3	150x50	185	140x110	105x80	500	60	11





			mm	mm	mm	mm	dyn. kg	mm	mm
LVU050KUPL-4Fach			50x40	82	80x80	60x60	150	37	9
LVU065KUP1-4Fach			65x30	95	105x80	80x60	150	40	9
LVU075KUP1-4Fach			75x30	100	105x80	80x60	200	40	9
LVU080KUP1-4Fach			80x30	103	105x80	80x60	200	40	9
LVU080KUP3-4Fach		**BVU080KUP3TF**	80x40	115	140x110	105x80	250	48	11
LVU080KUP3-8Fach			80x40	115	140x110	105x80	250	48	11
LVU100KUP3-4Fach	SLVU080KUP3TFS	**BVU100KUP3TF**	100x40	125	140x110	105x80	350	48	11
LVU100KUP3-8Fach			100x40	125	140x110	105x80	350	48	11
LVU125KUP3-4Fach	SLVU100KUP3TFS*	BVU125KUP3TF	125x45	155	140x110	105x80	500	47	11
LVU150KUP3-4Fach	SLVU125KUP3TFS	BVU150KUP3TF	150x50	185	140x110	105x80	500	60	11

*also available with overall height 165 mm




			mm	mm	mm	dyn. kg	mm
LMVU033KUO	**LMVU033KUOTF**		33x27	51	10	100	15
LVU050KUO	**LVU050KUOTF**		50x20	73	10	50	25
LMVU050KUO	**LMVU050KUOTF**		50x40	71	12	150	28
LVU065KUO	**LVU065KUOTF**		65x30	93	13	180	40
LVU075KUO	**LVU075KUOTF**		75x30	97	13	180	40
LVU080KUO	**LVU080KUOTF**		80x30	100	13	180	45
LVU080/40KUO			80x40	115	13	250	48
LVU100KUO	**LVU100KUOTF***		100x40	125*	13	350	48
LVU125KUO	LVU125KUOTF		125x45	150	13	170	60
LVU150KUO	LVU150KUOTF		150x50	180	13	350	60



* overall height of LVU100KUOTF is 128 mm, plates for compensating the height are available on request

Heavy theatre transport equipment castor with Vulkollan on solid aluminium core, 92° Shore

Wheel:
Vulkollan tyre, solid aluminium core, ball bearing, flat or convex
Description of properties: Page 2.3

Housing:
made of galvanised sheet steel with double ball race at fork head



			mm	mm	mm	mm	dyn. kg	mm	mm
SLVU080KUP1	SLVU080KUP1TF	SBVU080KUP1	80x30	117	105x85	80x60	250	40	9
SLVU100KUP1	SLVU100KUP1TF	SBVU100KUP1	100x40	127	105x80	80x60	350	40	9
SLVU100KUP3		SBVU100KUP3	100x40	148	135x110	105x80	350	40	11
SLVU125KUP3	SLVU125KUP3TF	SBVU125KUP3	125x45	178	135x110	105x80	500	50	11
SLVU150KUP3	SLVU150KUP3TF	SBVU150KUP3	150x50	210	135x110	105x80	660	53	11
SLVU180KUP3	SLVU180KUP3TF	SBVU180KUP3	180x50	235	135x110	105x80	700	53	11
SLVU200KUP3	SLVU200KUP3TF	SBVU200KUP3	200x50	245	135x110	105x80	800	55	11
SLVU250KUP3	SLVU250KUP3TF	SBVU250KUP3	250x50	298	135x110	105x80	800	74	11

			mm	mm	mm	mm	dyn. kg	mm	mm
SLVU100KUP3 + 2 RF	SLVU100KUP3TFS	SBVU100KUP3TF	100x40	148	135x105	105x80	350	40	11
SLVU125KUP3 + 2 RF	SLVU125KUP3TFS*	SBVU125KUP3TF	125x45	178	135x110	105x80	500	50	11
SLVU150KUP3 + 2 RF	SLVU150KUP3TFS	SBVU150KUP3TF	150x50	210	135x110	105x80	660	53	11
SLVU180KUP3 + 2 RF	SLVU180KUP3TFS	SBVU180KUP3TF	180x50	235	135x110	105x80	700	53	11
SLVU200KUP3 + 2 RF	SLVU200KUP3TFS	SBVU200KUP3TF	200x50	245	135x110	105x80	800	55	11

*also available with overall height 185 mm on demand

			mm	mm	mm	dyn. kg	mm
SLVU080KUZ22R	SLVU080KUZ22RTF		80x30	114	22x50	250	36
SLVU100KUZ22R	SLVU100KUZ22RTF		100x40	131	22x50	300	36
SLVU125KUZ22R	SLVU125KUZ22RTF		125x45	161	22x50	400	45
SLVU150KUZ22R	SLVU150KUZ22RTF		150x50	184	22x50	600	50
SLVU180KUZ25R	SLVU180KUZ25RTF		180x50	234	25x65	650	57
SLVU200KUZ25R	SLVU200KUZ25RTF		200x50	244	25x65	800	57

Welded heavy theatre transport equipment castor with Vulkollan on solid aluminium core, 92° Shore



Wheel:
Vulkollan tyre, alu solid core, ball bearing, flat or convex
Description of properties: Page 2.3

Housing:
welded housing with double ball race at fork head

bold: version with black housing





			mm	mm	mm	mm	dyn. kg	mm	mm
GLVU065KUP1		GBVU065KUP1	65x30	132,5	100x85	80x60	200	36	11
GLVU080KUP1	GLVU080KUP1TF	GBVU080KUP1	80x40	140	100x85	80x60	250	36	11
GLVU100KUP1	GLVU100KUP1TF	GBVU100KUP1	100x40	150	100x85	80x60	300	36	11
GLVU080KUP3		GBVU080KUP3	80x80	130	135x110	105x80	600	68	13
GLVU082KUP3		GBVU082KUP3	82x80	133	135x110	105x80	600	68	13
GLVU085KUP3		GBVU085KUP3	85x80	135	135x110	105x80	600	68	13
GLVU100KUP3	GLVU100KUP3TF	GBVU100KUP3	100x40	145	138x110	105x80	400	35	11
GLVU125KUP3	GLVU125KUP3TF	GBVU125KUP3	125x45	175	135x110	105x80	400	45	13
GLVU150KUP3	GLVU150KUP3TF	GBVU150KUP3	150x50	205	135x110	105x80	650	50	13
GLVU160KUP3	GLVU160KUP3TF	GBVU160KUP3	160x50	200	138x110	105x80	850	60	11
GLVU180KUP3	GLVU180KUP3TF	GBVU180KUP3	180x50	250	135x110	105x80	700	57	13
GLVU200KUP3	GLVU200KUP3TF	GBVU200KUP3	200x50	260	135x110	105x80	800	57	13
GLVU250KUP4	GLVU250KUP4FR	GBVU250KUP4	250x60	305	175x140	140x105	800	80	15



		mm	mm	mm	mm	dyn. kg	mm
GBVU100KUP3TF	100x40	145	135x110	105x80	350	11
GBVU125KUP3TF	125x45	170	135x110	105x80	550	11
GBVU150KUP3TF	150x50	205	135x110	105x80	650	13
GBVU180KUP3TF	180x50	250	135x110	105x80	700	13
GBVU200KUP3TF	200x50	260	135x110	105x80	800	13




			mm	mm	mm	dyn. kg	mm
GLVU100KUZ22R	GLVU100KUZ22RTF		100x40	150	22x50	350	36
GLVU125KUZ22R	GLVU125KUZ22RTF		125x45	175	22x50	500	45
GLVU150KUZ22R	GLVU150KUZ22RTF		150x50	205	22x50	500	50
GLVU180KUZ25R	GLVU180KUZ25RTF		180x50	250	25x65	700	57
GLVU200KUZ25R	GLVU200KUZ25RTF		200x50	260	25x65	800	57



Theatre double castor with Vulkollan
on solid aluminium core, 92° Shore, ball bearing



Wheel:
Vulkollan tyre, alu solid core, ball bearing, flat or convex
Description of properties: Page 2.3

Housing:
welded housing with double ball race at fork head
bold: version with black housing





			mm	mm	mm	mm	dyn. kg	mm	mm
LDMVU030KUPL			2x30x12	50	60x60	38x38/47x47	80	15	6
LDMVU033KUPL	LDMVU033KUPLTF	BDVU033KUPL	2x33x12	51	60x60	38x38/47x47	80	15	6
LDMVU040KUPL	LDMVU040KUPLTF		2x40x20	67	60x60	38x38/47x47	150	31	6
LDMVU050KUPL	LDMVU050KUPLTF	BDMVU050KUPL	2x50x20	72	60x60	38x38/47x47	150	31	6
LDMVU050KUPLS	LDMVU050KUPLSTF	BDVU050KUPLS	2x50x20	82	80x80	60x60	150	31	9
LDVU065KUP3			2x65x25	108	140x110	105x80	300	48	11
LDVU080KUP3		BDVU080KUP3	2x80x25	115	135x105	105x80	300	48	11
LDVU100KUP3	LDVU100KUP3TF	BDVU100KUP3	2x100x25	125	135x105	105x80	400	48	11
LDVU100KUP1		BDVU100KUP1	2x100x25	128	105x80	80x60	320	40	9
SLDVU100KUP1		SBDVU100KUP1	2x100x25	130	105x80	80x60	350	40	9
LDVU100KUP3S		BDVU100KUP3S	2x100x30	148	140x110	105x80	590	35	11
LDVU125KUP3S	LDVU125KUP3STF	BDVU125KUP3S	2x125x45	170	140x110	105x80	1100	50	11
LDVU125KUP4A	LDVU125KUP4TFA	BDVU125KUP4A	2x125x40	197	170x170	130x130	750	60	13
LDVU150KUP4		BDVU150KUP4	2x150x50	212	175x140	140x110	1600	55	12
LDVU150KUP4A	LDVU150KUP4TFA	BDVU150KUP4A	2x150x40	210	170x170	130x130	1000	60	13
LDVU180KUP3		BDVU180KUP4	2x180x50	255	175x140	140x110	1400	65	12
LDVU180KUP4A	LDVU180KUP4TFA	BDVU180KUP4A	2x180x50	260	200x200	160x160	1400	72	17
LDVU200KUP3		BDVU200KUP4	2x200x50	265	175x140	140x110	1600	67	12
LDVU200KUP4A	LDVU200KUP4TFA	BDVU200KUP4A	2x200x50	270	200x200	160x160	1600	72	17



		mm	mm	mm	mm	dyn. kg	mm	mm
LDVU050KUPL-4Fach	2x50x00	82	80x80	60x60	150	37	9
LDVU080KUP3-4Fach	2x80x25	115	140x110	105x80	300	48	11
LDVU080KUP3-8Fach	2x80x25	115	140x110	105x80	300	48	11
LDVU100KUP3-4Fach	2x100x25	125	140x110	105x80	350	48	11
LDVU100KUP3-8Fach	2x100x25	125	140x110	105x80	350	48	11
LDVU125KUP3-4Fach	2x125x25	155	140x110	105x80	500	47	11



			mm	mm	mm	dyn. kg	mm
LDMVU030KUO			2x30x12	50	10	80	15
LDMVU033KUO	LDMVU033KUOTF		2x33x12	51	10	80	15
LDMVU040KUO	LDMVU040KUOTF		2x40x20	67	12	150	28
LDMVU050KUO	LDMVU050KUOTF		2x50x20	72	12	150	28
LDVU080KUO			2x80x25	115	13	300	45
LDVU100KUO	LDVU100KUOTF*		2x100x25	125*	13	350	48
LDVU125KUOA	LDVU125KUOTFA		2x125x25	150	13	170	60

Further fixation possibilities



* overall height of LDVU100KUOTF is 128 mm, plates for compensating the height are available on request

Turtles with single Vulkollan wheel

on solid aluminium core, 92° Shore, ball bearing



Wheel:
Vulkollan tyre, solid aluminium core, ball bearing, flat or convex
Description of properties: Page 2.3

Housing:
- made of galvanised sheet steel with double ball race at fork head

bold: version with black housing



	mm	mm	mm	mm	mm	dyn. kg	mm	mm
T5LMVU033KUP1/76	**Ø 195**	**33x27**	**76**	**105x85**	**80x60**	**450**	**240**	**9**
TLMVU033KUP1/76	**118x118x118**	**33x27**	**76**	**105x85**	**80x60**	**300**	**175**	**9**
T5LMVU033KUP3/85	**Ø 195**	**33x27**	**85**	**135x105**	**105x80**	**500**	**240**	**11**
TLMVU033KUP3/85	**118x118x118**	**33x27**	**85**	**135x105**	**105x80**	**300**	**175**	**11**
TLMVU033KUP3S/95	**118x118x118**	**33x27**	**95**	**135x105**	**105x80**	**300**	**175**	**11**
TLMVU040KUP1/96	**183x183x183**	**40x40**	**96**	**105x85**	**80x60**	**450**	**234**	**9**
TLMVU040KUP3/101	**183x183x183**	**40x40**	**101**	**135x105**	**105x80**	**450**	**234**	**11**
TLMVU050KUP1 /101	**183x183x183**	**50x40**	**101**	**105x85**	**80x60**	**450**	**246**	**9**
TLMVU050KUP3/106	**183x183x183**	**50x40**	**106**	**135x105**	**105x80**	**450**	**246**	**11**
TLMVU050KUP3/108	**183x183x183**	**50x40**	**108**	**135x105**	**105x80**	**450**	**246**	**11**
TLMVU050KUP3S/115	**183x183x183**	**50x40**	**115**	**135x105**	**105x80**	**450**	**246**	**11**
TLMVU050KUP1S/101	**210x210x210**	**50x40**	**101**	**105x85**	**80x60**	**450**	**318**	**9**
TLMVU050KUP3S/108	**210x210x210**	**50x40**	**108**	**135x105**	**105x80**	**450**	**318**	**11**
TLMVU050KUP3SS/115	**210x210x210**	**50x40**	**115**	**135x105**	**105x80**	**450**	**318**	**11**
TLVU065KUP3/125	**250x250x250**	**65x30**	**125**	**135x105**	**105x80**	**500**	**364**	**11**
TLVU065KUP1/117	**250x250x250**	**65x30**	**117**	**105x85**	**80x60**	**450**	**364**	**9**
TLVU065KUP1/125	**250x250x250**	**65x30**	**125**	**105x85**	**80x60**	**450**	**364**	**9**
TLVU065KUP1S/128	**250x250x250**	**65x30**	**128**	**105x85**	**80x60**	**450**	**364**	**9**
TLVU075KUP1/123	**250x250x250**	**75x30**	**123**	**105x85**	**80x60**	**450**	**381**	**9**
TLVU075KUP3/130	**250x250x250**	**75x30**	**130**	**135x105**	**105x80**	**500**	**381**	**11**
TLVU080KUP1/125	**250x250x250**	**80x30**	**125**	**105x85**	**80x60**	**450**	**387**	**9**
TLVU080KUP3/133	**250x250x250**	**80x30**	**133**	**135x105**	**105x80**	**500**	**387**	**11**
TLVU080KUP3/148	**250x250x250**	**80x30**	**148**	**135x105**	**105x80**	**500**	**387**	**11**
TLVU080KUP1S/155	**300x300x300**	**80x40**	**155**	**105x85**	**80x60**	**450**	**428**	**9**
TLVU080KUP3S/155	**300x300x300**	**80x40**	**155**	**135x105**	**105x80**	**600**	**428**	**11**
TLVU100KUP3R/160	**Ø 380**	**100x40**	**160**	**135x105**	**105x80**	**600**	**500**	**11**
TLVU100KUP3L/160	**300x300x300**	**100x40**	**160**	**135x105**	**105x80**	**600**	**456**	**11**
TLVU100KUP3/164	**300x300x300**	**100x40**	**164**	**135x105**	**105x80**	**600**	**456**	**11**
TLVU100KUP3/166	**300x300x300**	**100x40**	**166**	**135x105**	**105x80**	**1000**	**456**	**11**
TLVU100KUP3S/178	**300x300x300**	**100x40**	**178**	**135x105**	**105x80**	**1000**	**456**	**11**
TSLVU100KUP3S/185	**300x300x300**	**100x40**	**185**	**135x105**	**105x80**	**1000**	**456**	**11**
TLVU125KUP3/196	340x340x340	125x45	196	135x105	105x80	750	543	11
TLVU125KUP3S/210	340x340x340	125x45	210	135x105	105x80	750	543	11
TSLVU125KUP3SS/221	550x550x550	125x45	221	135x105	105x80	1000	670	11
TLVU150KUP3/235	550x550x550	150x50	235	135x105	105x80	600	716	11
TLVU150KUP3S/230	550x550x550	150x50	230	135x105	105x80	1000	716	11
TLVU150KUP3SS/245	550x550x550	150x50	245	135x105	105x80	1000	716	11
TSLVU150KUPS/254	550x550x550	150x50	254	190x170	150x135	2000	716	15
TSLVU180KUPS/298	550x550x550	180x50	298	190x170	150x135	2000	751	15
TSLVU200KUPS/305	550x550x550	200x50	305	190x170	150x135	2000	785	15

Turtles with double Vulkollan wheel

on solid aluminium core, 92° Shore, ball bearing

Wheel:
Vulkollan tyre, solid aluminium core, ball bearing, flat or convex
Description of properties: Page 2.3

Housing:
• made of galvanised sheet steel with double ball race at fork head



bold: version with black housing

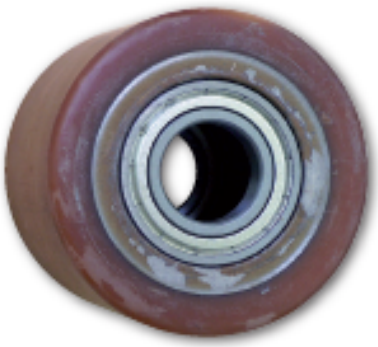


	mm	mm	mm	mm	mm	kg	mm	mm
TLDMVU040KUP1/96	183x183x183	2x40x20	96	105x85	80x60	450	234	9
TLDMVU040KUP3/101	183x183x183	2x40x20	101	135x105	105x80	450	234	11
TLDMVU050KUP1/101	183x183x183	2x50x20	101	105x85	80x60	450	254	9
TLDMVU050KUP3/106	183x183x183	2x50x20	106	135x105	105x80	450	254	11
TLDMVU050KUP3/108	183x183x183	2x50x20	108	135x105	105x80	450	254	11
TLDMVU050KUP3S/115	183x183x183	2x50x20	115	135x105	105x80	450	254	11
TLDMVU050KUP1S/101	210x210x210	2x50x20	101	105x85	80x60	450	318	9
TLDMVU050KUP3S/108	210x210x210	2x50x20	108	135x105	105x80	450	318	11
TLDMVU050KUP3SS/115	210x210x210	2x50x20	115	135x105	105x80	450	318	11
TLDVU060KUP3/125	250x250x250	2x60x20	125	135x105	105x80	400	364	11
TLDVU060KUP1/125	250x250x250	2x60x20	125	105x85	80x60	400	364	9
TLDVU075KUP3/130	250x250x250	2x75x20	130	135x105	105x80	500	381	11
TLDVU080KUP3/133	250x250x250	2x80x20	133	135x105	105x80	500	387	11
TLDVU080KUP3/148	250x250x250	2x80x20	148	135x105	105x80	500	387	11
TLDVU080KUP1/155	300x300x300	2x80x20	155	105x85	80x60	450	428	9
TLDVU080KUP3/155	300x300x300	2x80x20	155	135x105	105x80	750	428	11
TLDVU100KUP3L/160	300x300x300	2x100x25	160	135x105	105x80	600	456	11
TLDVU100KUP3/164	300x300x300	2x100x25	164	135x105	105x80	600	456	11
TLDVU100KUP3/166	300x300x300	2x100x25	166	135x105	105x80	1000	456	11
TLDVU100KUP3S/178	300x300x300	2x100x25	178	135x105	105x80	1000	456	11
TLDVU100KUP3SS/185	300x300x300	2x100x25	185	135x105	105x80	1000	456	11
TLDVU125KUP3/196	340x340x340	2x125x25	196	135x105	105x80	750	543	11
TLDVU125KUP3S/210	340x340x340	2x125x25	210	135x105	105x80	750	543	11
TSLDVU125KUP3SS/220	550x550x550	2x125x25	220	135x105	105x80	1000	670	11

also available as Hebewunder!

Pallet truck castors made of polyurethane

on steel core, 92° Shore, ball bearing



- high restoring elasticity (low compression set up for a longer time)
- non-staining and traceless on floor
- impact and vibration damping
- strength and tear resistant
- light rim, due to alumnium (2/3 lighter than steel)
- resistant to diluted bases and acids
- temperature resistant from -20°C to +80°C, for a short duration until 130°C
- resitant to oils and greases

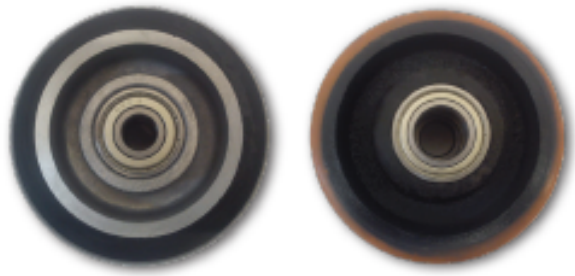
Version: Wheel available in flat, 92° Shore

Bore Hole 15	Bore Hole 20	Bore Hole 25	mm	mm	mm	dyn. kg	mm
HPU070/70/70/15			70	70	70	500	15
	HPU075/50/50/20		75	50	50	550	20
HPU075/75/75/15			75	75	75	550	15
	HPU080/54/60/20	HPU080/54/60/25	80	54	60	400	20
	HPU080/57/61/20	HPU080/57/61/25	80	57	61	400	20/25
	HPU080/70/74/20	HPU080/70/74/25	80	70	74	450	20/25
	HPU080/80/80/20		80	80	80	800	20
	HPU080/90/90/20		80	90	90	900	20
	HPU082/50/50/20	HPU082/50/50/25	82	50	50	500	20/25
	HPU082/60/60/20	HPU082/60/60/25	82	60	60	450	20/25
	HPU082/70/70/20	HPU082/70/70/25	82	70	70	550	20/25
	HPU082/70/74/20	HPU082/70/74/25	82	70	74	500	20/25
	HPU082/75/75/20	HPU082/75/75/25	82	75	75	550	20/25
	HPU082/80/80/20	HPU082/80/80/25	82	80	80	600	20/25
	HPU082/90/90/20	HPU082/90/90/25	82	90	90	900	20/25
	HPU082/98/105/20	HPU082/98/105/25	82	98	105	700	20/25
	HPU082/100/104/20	HPU082/100/104/25	82	100	104	700	20/25
	HPU085/40/40/20		85	40	40	400	20
	HPU085/46/50/20	HPU085/46/50/25	85	46	50	350	20/25
	HPU085/50/50/20		85	50	50	350	20
	HPU085/60/65/20		85	60	65	450	20
	HPU085/75/75/20		85	75	75	550	20
	HPU085/80/80/20	HPU085/80/80/25	85	80	80	800	20/25
	HPU085/80/85/20		85	80	85	600	20
	HPU085/86/88/20		85	86	88	600	20
	HPU085/90/90/25		85	90	90	700	25
	HPU085/95/100/20		85	95	100	750	20
	HPU085/100/100/20	HPU085/100/100/25	85	100	100	1000	20/25
	HPU085/100/102/20		85	100	102	800	20
	HPU085/105/110/25		85	115	115	800	25
	HPU085/110/114/25		85	110	114	850	25

Economy wheels made of polyurethane

on cast aluminium or iron core, 92° Shore, ball bearing

- high restoring elasticity (low compression set up for a longer time)
- non-staining and traceless on floor
- impact and vibration damping
- strength and tear resistant
- light rim, due to aluminium (2/3 lighter than steel)
- resistant to diluted bases and acids
- temperature resistant from -20°C to +80°C, for a short duration until 130°C
- resitant to oils and greases



Version: Wheel available in flat or convex, 92° Shore

			mm	mm	mm	kg	mm	rim type
AP080/30/12BA	AP080/30/12FL		80	30	40	180	12	cast alu
	AP080/30/15FL		80	30	40	180	15	cast alu
AP100/30/12BA	AP100/30/12FL		100	30	30	200	12	cast alu
AP100/30/15BA	AP100/30/15FL		100	30	30	200	15	cast alu
	AP100/40/12FL		100	40	40	250	12	cast alu
AP125/50/20BA	AP125/50/20FL	AP125/50/25FL	125	50	50	370	20/25	cast alu
AP160/50/20BA	AP160/50/20FL	AP160/50/25FL	160	50	60	600	20/25	cast alu
AP180/50/20BA	AP180/50/20FL	AP180/50/25FL						
AP200/50/20BA	AP200/50/20FL	AP200/50/25FL	200	50	60	800	20/25	cast alu
	AP250/50/20FL	AP250/50/25FL	250	50	60	1000	25	cast alu
	GP075/30/12FL		75	30	30	250	12	cast iron
	GP075/30/15FL		75	30	30	250	15	cast iron
	GP080/36/15FL		80	36	36	250	15	cast iron
	GP100/40/20FL		100	40	40	350	20	cast iron
	GP125/40/20FL	GP125/40/25FL	125	40	40	400	20/25	cast iron
	GP125/50/20FL	GP125/50/25FL	125	50	60	500	20/25	cast iron
	GP150/40/20FL	GP150/40/25FL	150	40	40	500	20/25	cast iron
	GP150/50/20FL	GP150/50/25FL	150	50	50	650	20/25	cast iron
	GP150/60/20FL	GP150/60/25FL	150	60	60	650	20/25	cast iron
	GP150/50/30FL		150	50	50	650	30	cast iron
	GP175/40/20FL	GP175/40/25FL	175	40	40	650	20/25	cast iron
	GP200/50/20FL	GP200/50/25FL	200	50	60	1000	20/25	cast iron
	GP200/50/30FL		200	50	60	1000	30	cast iron
	GP200/80/30FL		200	80	80	1600	30	cast iron
	GP200/100/30FL		200	100	100	2000	30	cast iron
	GP200/100/50FL		200	100	100	2000	50	cast iron
	GP250/50/25FL		250	50	60	1150	25	cast iron
	GP250/60/25FL		250	60	60	1400	30	cast iron
	GP250/80/30FL		250	80	90	1800	30	cast iron
	GP250/100/30FL		250	100	100	2500	50	cast iron
	GP250/150/40FL		250	150	150	4000	40	cast iron
	GP300/70/30FL		300	70	70	2200	30	cast iron
	GP300/70/35FL		300	70	70	2200	35	cast iron
	GP300/100/30FL		300	100	100	3000	30	cast iron
	GP300/100/35FL		300	100	100	3000	35	cast iron
	GP300/160/40FL		300	160	160	5000	40	cast iron
	GP400/100/40FL		400	100	100	4000	40	cast iron
	GP400/100/50FL		400	100	100	4000	50	cast iron

Theatre Economy castor with polyurethane

on cast aluminium or iron core, 92° Shore, ball bearing



Wheel:
polyurethane tyre, alu solid core, ball bearing, flat or convex
Description of properties: Page 2.21

Housing:
- made of galvanised sheet steel with double ball race at fork head

bold: version with black housing





			mm	mm	mm	mm	dyn. kg	mm	mm
LGPT075KUP1	**LGPT075KUP1TF**	**BGPT075KUP1**	**75x30**	**98**	**105x80**	**80x60**	**200**	**40**	**9**
LGPT080KUP1	**LGPT080KUP1TF**	**BGPT080KUP1**	**80x30**	**100**	**105x80**	**80x60**	**200**	**40**	**9**
LGPT080KUP1L	**LGPT080KUP1TFL**	**BGPT080KUP1L**	**80x30**	**108**	**105x80**	**80x60**	**120**	**40**	**9**
LGPT100KUP1	**LGPT100KUP1TF**	**BGPT100KUP1**	**100x40**	**128**	**105x80**	**80x60**	**320**	**40**	**9**
LGPTS100KUP3	**LGPTS100KUP3TF**	**BGPTS100KUP3**	**100x40**	**125**	**140x110**	**105x80**	**350**	**48**	**11**
LGPT125KUP1	LGPT125KUP1TF	BGPT125KUP1	125x45	155	105x80	80x60	320	40	9
LGPT125KUP3	LGPT125KUP3TF	BGPT125KUP3	125x45	155	140x110	105x80	500	47	11
LAP125KUP3	LAP125KUP3TF	BAP125KUP3	125x50	164	135x110	105x80	500	50	11
LGPT125KUP3A	LGPT125KUP3TFA	BGPT125KUP3A	125x45	165	140x110	105x80	500	45	13
LGPT150KUP3	LGPT150KUP3TF	BGPT150KUP3	150x50	185	140x110	105x80	500	60	11
LAP160KUP3	LAP160KUP3TF	BAP160KUP3	160x50	195	135x110	105x80	600	55	11
LGPT175KUP3A	LGPT175KUP3TFA	BGPT175KUP3A	175x50	238	135x110	105x80	600	57	13
LGPT180KUP3A	LGPT180KUP3TFA	BGPT180KUP3A	180x50	241	135x110	105x80	700	57	13
LAP200KUP3	LAP200KUP3TF	BAP200KUP3	200x50	245	135x110	105x80	700	55	11





			mm	mm	mm	mm	dyn. kg	mm	mm
LGPT075KUP1-4Fach			**75x30**	**100**	**105x80**	**80x60**	**200**	**40**	**9**
LGPTS100KUP3-4Fach		**BGPTS100KUP3TF**	**100x40**	**125**	**140x110**	**105x80**	**350**	**48**	**11**
LGPTS100KUP3-8Fach			**100x40**	**125**	**140x110**	**105x80**	**350**	**48**	**11**
LGPT125KUP3-4Fach	SLGPT100KUP3TFS*	BGPT125KUP3TF	125x45	155	140x110	105x80	500	47	11
		BGPT125KUP3C	125x50	164	135x110	105x80	500	50	11
		BGPT125KUP3A	125x45	165	140x110	105x80	500	45	13
LGPT150KUP3-4Fach	SLGPT125KUP3TFS	BGPT150KUP3	150x50	185	140x110	105x80	500	60	11
LGPT160KUP3-4Fach		BGPT160KUP3C	160x50	195	135x110	105x80	600	55	11
LGPT175KUP3-4Fach		BGPT175KUP3A	175x50	238	135x110	105x80	600	57	13
LGPT180KUP3-4Fach	SLGPT150KUP3TFS	BGPT180KUP3A	180x50	241	135x110	105x80	700	57	13
LGPT200KUP3-4Fach	SLGPT180KUP3TFS	BGPT200KUP3C	200x50	245	135x110	105x80	700	55	11

*also available with overall height 165 mm




			mm	mm	mm	dyn. kg	mm
LGPT075KUO	**LGPT075KUOTF**	possibilities for fixation	**75x30**	**97**	**13**	**180**	**40**
LGPT080KUO	**LGPT080KUOTF**		**80x30**	**100**	**13**	**180**	**45**
LGPTS100KUO	**LGPTS100KUOTF***		**100x40**	**125***	**13**	**350**	**48**
LGPT125KUO	LGPT125KUOTF		125x45	150	13	170	60
LGPT150KUO	LGPT150KUOTF		150x50	180	13	350	60



* overall height of LGPTS100KUOTF is 128 mm, plates for compensating the height are available on request

Heavy theatre castor with polyurethane
on cast aluminium or iron core, 92° Shore, ball bearing

Wheel:
Vulkollan tyre, alu solid core, ball bearing
Description of properties: Page 2.21

Housing:
- made of galvanised sheet steel with double ball race at fork head



Version: Wheel is available in flat or convex, 92° Shore





			mm	mm	mm	mm	dyn. kg	mm	mm
SLGPT080KUP1	SLGPT080KUP1TF	SBGPT080KUP1	80x30	117	105x85	80x60	250	40	9
SLGPT100KUP1	SLGPT100KUP1TF	SBGPT100KUP1	100x40	127	105x80	80x60	350	40	9
SLGPT100KUP3		SBGPT100KUP3	100x40	148	135x110	105x80	350	40	11
SLGPT125KUP3	SLGPT125KUP3TF	SBGPT125KUP3	125x45	178	135x110	105x80	500	50	11
SLGPT150KUP3	SLGPT150KUP3TF	SBGPT150KUP3	150x50	210	135x110	105x80	660	53	11
SLGPT180KUP3	SLGPT180KUP3TF	SBGPT180KUP3	180x50	235	135x110	105x80	800	53	11
SLGPT200KUP3	SLGPT200KUP3TF	SBGPT200KUP3	200x50	245	135x110	105x80	1000	55	11
SLGPT250KUP3	SLGPT250KUP3TF	SBGPT250KUP3	250x50	298	135x110	105x80	800	74	11





			mm	mm	mm	mm	dyn. kg	mm	mm
SLGPT100KUP3 + 2 RF	SLGPT100KUP3TFS	SBGPT100KUP3TF	100x40	148	135x105	105x80	350	40	11
SLGPT125KUP3 + 2 RF	SLGPT125KUP3TFS*	SBGPT125KUP3TF	125x45	178	135x110	105x80	500	50	11
SLGPT150KUP3 + 2 RF	SLGPT150KUP3TFS	SBGPT150KUP3TF	150x50	210	135x110	105x80	660	53	11
SLGPT180KUP3 + 2 RF	SLGPT180KUP3TFS	SBGPT180KUP3TF	180x50	235	135x110	105x80	800	53	11
SLGPT200KUP3 + 2 RF	SLGPT200KUP3TFS	SBGPT200KUP3TF	200x50	245	135x110	105x80	1000	55	11

*also available with overall height 185 mm on demand




			mm	mm	mm	dyn. kg	mm
SLGPT080KUZ22R	SLGPT080KUZ22RTF	possibilities for fixation	80x30	114	22x50	250	36
SLGPT100KUZ22R	SLGPT100KUZ22RTF		100x40	131	22x50	300	36
SLGPT125KUZ22R	SLGPT125KUZ22RTF		125x45	161	22x50	400	45
SLGPT150KUZ22R	SLGPT150KUZ22RTF		150x50	184	22x50	600	50
SLGPT180KUZ25R	SLGPT180KUZ25RTF		180x50	234	25x65	650	57
SLGPT200KUZ25R	SLGPT200KUZ25RTF		200x50	244	25x65	800	57



Welded heavy castors with Economy wheels

on cast aluminium or iron core, 92° Shore, ball bearing



Wheel:
Vulkollan tyre, alu solid core, ball bearing, flat or convex
Description of properties: Page 2.21

Housing:
- welded housing with double ball race at fork head

bold: version with black housing





			mm	mm	mm	mm	kg	mm	mm
GLGPT100KUP1	GLGPT100KUP1TF	GBGPT100KUP1	100x40	150	100x85	80x60	295	35	11
GLGPT080KUP3		GBGPT080KUP3	80x80	130	135x110	105x80	600	68	13
GLGPT082KUP3		GBGPT082KUP3	82x80	133	135x110	105x80	600	68	13
GLGPT085KUP3		GBGPT085KUP3	85x80	135	135x110	105x80	600	68	13
GLGPT100KUP3	GLGPT100KUP3TF	GBGPT100KUP3	100x40	145	135x110	105x80	400	46	11
GLGPT125KUP3	GLGPT125KUP3TF	GBGPT125KUP3	125x45	175	135x110	105x80	500	45	13
GLGPT150KUP3	GLGPT150KUP3TF	GBGPT150KUP3	150x50	205	135x110	105x80	650	55	13
GLGPT180KUP3	GLGPT180KUP3TF	GBGPT180KUP3	180x50	250	135x110	105x80	900	57	13
GLGPT200KUP3	GLGPT200KUP3TF	GBGPT200KUP3	200x50	260	135x110	105x80	1000	57	13
GLGPT250KUP4	GLGPT250KUP4FR	GBGPT250KUP4	250x60	305	175x140	140x105	1400	80	15



		mm	mm	mm	mm	kg	mm	mm
GBGPT100KUP3TF	100x40	145	135x110	105x80	400		11
GBGPT125KUP3TF	125x45	175	135x110	105x80	500		11
GBGPT150KUP3TF	150x50	205	135x110	105x80	650		13
GBGPT180KUP3TF	180x50	250	135x110	105x80	900		13
GBGPT200KUP3TF	200x50	260	135x110	105x80	1000		13




			mm	mm	mm	kg	mm
GLGPT100KUZ22R	GLGPT100KUZ22RTF	possibilities for fixation	100x40	150	22x50	350	36
GLGPT125KUZ22R	GLGPT125KUZ22RTF		125x45	175	22x50	500	45
GLGPT150KUZ22R	GLGPT150KUZ22RTF		150x50	205	22x50	750	50
GLGPT180KUZ25R	GLGPT180KUZ25RTF		180x50	250	25x65	820	57
GLGPT200KUZ25R	GLGPT200KUZ25RTF		200x50	260	25x65	1000	57



Economy castor w. double polyurethane wheel
on aluminium pressure- or casting core, 92° Shore, ball bearinW

Wheel:
Vulkollan tyre, alu solid core, ball bearing, flat or convex
Description of properties: Page 2.21

Housing:
- made of galvanised sheet steel with double ball race at fork head



bold: version with black housing





			mm	mm	mm	mm	dyn. kg	mm	mm
LDGP080KUP3	**LDGP080KUP3TF**	**BDGP080KUP3**	**2x80x25**	**115**	**135x105**	**105x80**	**250**	**45**	**11**
LDGP100KUP3	**LDGP100KUP3TF**	**BDGP100KUP3**	**2x100x25**	**125**	**135x105**	**105x80**	**350**	**48**	**11**
SLDGP100KUP3	SLDGP100KUP3TF	SBDGP100KUP3	2x100x25	145	138x110	105x80	590	35	11
LDGP125KUP3	LDGP125KUP3TF	BDGP125KUP3	2x125x45	170	138x110	105x80	1100	50	11
LDGP125KUP4A	**LDGP125KUP4TFA**	**BDGP125KUP4A**	**2x125x40**	**197**	**170x170**	**130x130**	**750**	**60**	**13**
LDGP150KUP4	LDGP150KUP4TF	BDGP150KUP4	2x150x50	212	175x140	140x105	1600	55	14
LDGP150KUP4A	**LDGP150KUP4TFA**	**BDGP150KUP4A**	**2x150x40**	**210**	**170x170**	**130x130**	**1000**	**60**	**13**
LDGP180KUP4		BDGP180KUP4	2x180x50	254	175x140	140x105	1800	67	14
LDGP180KUP4A	**LDGP180KUP4TFA**	**BDGP180KUP4A**	**2x180x50**	**260**	**200x200**	**160x160**	**1800**	**72**	**17**
LDGP200KUP4	LDGP200KUP4TF	BDGP200KUP4	2x200x50	264	175x140	140x105	2000	67	14
LDGP200KUP4A	**LDGP200KUP4TFA**	**BDGP200KUP4A**	**2x200x50**	**270**	**200x200**	**160x160**	**2000**	**72**	**17**



		mm	mm	mm	mm	dyn. kg	mm	mm
LDGP080KUP3-4Fach	**2x80x25**	**115**	**140x110**	**105x80**	**300**	**48**	**11**
LDGP080KUP3-8Fach	**2x80x25**	**115**	**140x110**	**105x80**	**300**	**48**	**11**
LDGP100KUP3-4Fach	**2x100x25**	**125**	**140x110**	**105x80**	**350**	**48**	**11**
LDGP100KUP3-8Fach	**2x100x25**	**125**	**140x110**	**105x80**	**350**	**48**	**11**
LDGP125KUP3-4Fach	2x125x25	155	140x110	105x80	500	47	11




			mm	mm	mm	dyn. kg	mm
LDGP080KUO		possibilities for fixation	**2x80x25**	**115**	**13**	**300**	**45**
LDGP100KUO	**LDGP100KUOTF***		**2x100x25**	**125***	**13**	**350**	**48**
LDGP125KUO	LDGP125KUOTF		2x125x25	150	13	170	60



* overall height of LDGP100KUOTF is 128 mm, plates for compensating the height are available on request

Turtles with single Economy wheel

on cast aluminium or iron core, 92° Shore, ball bearing



Wheel:
Vulkollan tyre, alu solid core, ball bearing, flat or convex
Description of properties: Page 2.21

Housing:
- made of galvanised sheet steel with double ball race at fork head

bold: version with black housing



	mm	mm	mm	mm	mm	dyn. kg	mm	mm
TLGPT075KUP1/122	**250x250x250**	**75x30**	**122**	**105x85**	**80x60**	**450**	**381**	**9**
TLGPT075KUP3/130	**250x250x250**	**75x30**	**130**	**135x105**	**105x80**	**500**	**381**	**11**
TLGPT100KUP3R/160	**380 mm rund**	**100x40**	**160**	**135x105**	**105x80**	**600**	**500**	**11**
TLGPT100KUP3L/160	**300x300x300**	**100x40**	**160**	**135x105**	**105x80**	**600**	**456**	**11**
TLGPT100KUP3/164	**300x300x300**	**100x40**	**164**	**135x105**	**105x80**	**600**	**456**	**11**
TLGPT100KUP3/166	**300x300x300**	**100x40**	**166**	**135x105**	**105x80**	**1000**	**456**	**11**
TLGPT100KUP3S/178	**300x300x300**	**100x40**	**178**	**135x105**	**105x80**	**1000**	**456**	**11**
TSLGPT100KUP3S/185	**300x300x300**	**100x40**	**185**	**135x105**	**105x80**	**1000**	**456**	**11**
TLGPT125KUP3/196	340x340x340	125x50	196	135x105	105x80	1000	543	11
TLGPT125KUP3S/210	340x340x340	125x50	210	135x105	105x80	1000	543	11
TSLGPT125KUP3SS/221	550x550x550	125x50	221	135x105	105x80	1000	670	11
TLGPT150KUP3/235	550x550x550	150x50	235	135x105	105x80	600	716	11
TLGPT150KUP3S/230	550x550x550	150x50	230	135x105	105x80	1000	716	11
TLGPT150KUP3SS/245	550x550x550	150x50	245	135x105	105x80	1000	716	11
TSLGPT150KUPS/259	550x550x550	150x50	259	190x170	150x135	2000	716	15
TSLGPT175KUPS/298	550x550x550	175x45	298	190x170	150x135	2000	751	15
TSLGPT180KUPS/298	550x550x550	180x50	298	190x170	150x135	2000	751	15
TSLGPT200KUPS/305	550x550x550	200x50	305	190x170	150x135	2000	785	15

Turtles with double Economy wheel

on cast aluminium or iron core, 92° Shore, ball bearing

Wheel:
Vulkollan tyre, alu solid core, ball bearing, flat or convex
Description of properties: Page 2.21

Housing:
- made of galvanised sheet steel with double ball race at fork head



bold: version with black housing



	mm	mm	mm	mm	mm	dyn. kg	mm	mm
TLDGP075KUP3/130	**250x250x250**	**2x75x20**	**130**	**135x105**	**105x80**	**500**	**381**	**11**
TLDGP080KUP3/133	**250x250x250**	**2x80x25**	**133**	**135x105**	**105x80**	**500**	**387**	**11**
TLDGP080KUP3/148	**250x250x250**	**2x80x25**	**148**	**135x105**	**105x80**	**500**	**387**	**11**
TLDGP080KUP1/155	**300x300x300**	**2x80x25**	**155**	**115x85**	**80x60**	**350**	**428**	**9**
TLDGP080KUP3/155	**300x300x300**	**2x80x25**	**155**	**135x105**	**105x80**	**750**	**428**	**11**
TLDGP100KUP3L/160	**300x300x300**	**2x100x25**	**160**	**135x105**	**105x80**	**600**	**456**	**11**
TLDGP100KUP3/164	**300x300x300**	**2x100x25**	**164**	**135x105**	**105x80**	**600**	**456**	**11**
TLDGP100KUP3/166	**300x300x300**	**2x100x25**	**166**	**135x105**	**105x80**	**1000**	**456**	**11**
TLDGP100KUP3S/178	**300x300x300**	**2x100x25**	**178**	**135x105**	**105x80**	**1000**	**456**	**11**
TLDGP100KUP3SS/185	**300x300x300**	**2x100x25**	**185**	**135x105**	**105x80**	**1000**	**456**	**11**
TLDGP125KUP3/196	**340x340x340**	**2x125x25**	**196**	**135x105**	**105x80**	**1000**	**543**	**11**
TLDGP125KUP3S/210	340x340x340	2x125x25	210	135x105	105x80	1000	543	11
TSLDGP125KUP3SS/220	550x550x550	2x125x25	220	135x105	105x80	1000	670	11

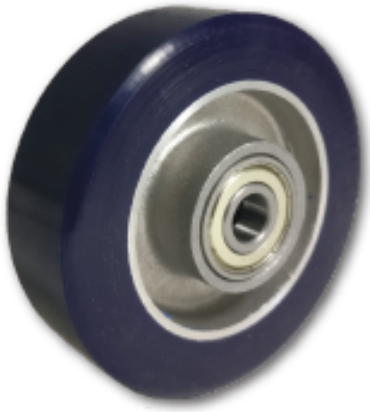


Wheels for stages made of soft polyurethane

on cast aluminium core, 75° Shore, ball bearing

- Soft polyurethane on cast aluminium core, ball bearing
- non marking and traceless on the floor
- shock- and vibration-absorbing
- temperature resistant from -30°C to +70°C
- oil- und grease-resistant

Version: Wheel is available in flat, 75° Shore



	 mm	 mm	 mm	 kg	 mm
GW100/30/12FL	100	30	40	200	12
GW125/40/15FL	125	40	40	300	15
GW150/40/20FL	150	40	50	350	20
GW160/50/20FL	160	50	60	500	20
GW160/50/25FL	160	50	60	500	25
GW180/50/20FL	180	50	60	500	20
GW180/50/25FL	180	50	60	500	25
GW200/50/20FL	200	50	60	700	20
GW200/50/25FL	200	50	60	700	25
GW250/50/20FL	250	50	60	900	20

Theatre castor with soft polyurethane wheel

on cast aluminium core, 75° Shore, ball bearing



Wheel:
Soft polyurethane on cast aluminium core, ball bearing, flat tread
Description of properties: Page 2.28

Housing:
- made of galvanised sheet steel with double ball race at fork head

bold: version with black housing





			mm	mm	mm	mm	dyn. kg	mm	mm
LGPW100KUP1	**LGPW100KUP1TF**	**BGPW100KUP1**	**100x30**	**128**	**105x80**	**80x60**	**200**	**40**	**9**
LGPW100KUP3	**LGPW100KUP3TF**	**BGPW100KUP3**	**100x30**	**125**	**140x110**	**105x80**	**200**	**48**	**11**
LGPW125KUP1	LGPW125KUP1TF	BGPW125KUP1	125x40	155	105x80	80x60	300	40	9
LGPW125KUP3	LGPW125KUP3TF	BGPW125KUP3	125x40	155	140x110	105x80	300	47	11
LGPW125KUP3A	LGPW125KUP3TFA	BGPW125KUP3A	125x40	165	140x110	105x80	300	45	13
LGPW150KUP3	LGPW150KUP3TF	BGPW150KUP3	150x40	185	140x110	105x80	300	60	11
LGPW160KUP3	LGPW160KUP3TF	BGPW160KUP3	160x50	205	140x110	105x80	500	60	11
LGPW200KUP3	LGPW200KUP3TF	BGPW200KUP3	200x50	245	140x110	105x80	700	60	11





			mm	mm	mm	mm	dyn. kg	mm	mm
LGPW100KUP3-4Fach		**BGPW100KUP3TF**	**100x30**	**125**	**140x110**	**105x80**	**200**	**48**	**11**
LGPW100KUP3-8Fach			**100x30**	**125**	**140x110**	**105x80**	**200**	**48**	**11**
LGPW125KUP3-4Fach	SLGPW100KUP3TFS*	BGPW125KUP3TF	125x40	155	140x110	105x80	300	47	11
LGPW150KUP3-4Fach	SLGPW125KUP3TFS	BGPW150KUP3TF	150x50	185	140x110	105x80	500	60	11
LGPW160KUP3-4Fach		BGPW160KUP3TF	160x50	205	140x110	105x80	500	60	11
LGPW200KUP3-4Fach	SLGPW180KUP3TFS	BGPW200KUP3TF	200x50	245	140x110	105x80	700	60	11

*also available with overall height 165 mm




			mm	mm	mm	dyn. kg	mm
LGPW100KUO	**LGPW100KUOTF***	possibilities for fixation	**100x30**	**125***	**13**	**270**	**48**
LGPW125KUOA	LGPW125KUOTFA		125x40	155	12	170	42
LGPW150KUOA	LGPW150KUOTFA		150x40	179	12	200	45
LGPW200KUOA	LGPW200KUOTFA		200x50	232	16	300	55



* overall height of LGPW100KUOTF is 128 mm, plates for compensating the height are available on request

Heavy theatre castor with soft polyurethane wheel

on cast aluminium core, 75° Shore, ball bearing

Wheel:
Soft polyurethane on cast aluminium core, ball bearing, flat tread
Description of properties: Page 2.28

Housing:
- made of galvanised sheet steel with double ball race at fork head

bold: version with black housing







			mm	mm	mm	mm	dyn. kg	mm	mm
SLGPW100KUP1	SLGPW100KUP1TF	SBGPW100KUP1	100x30	127	105x80	80x60	200	40	9
SLGPW100KUP3		SBGPW100KUP3	100x30	148	135x110	105x80	200	40	11
SLGPW125KUP3	SLGPW125KUP3TF	SBGPW125KUP3	125x50	178	135x110	105x80	300	50	11
SLGPW150KUP3	SLGPW150KUP3TF	SBGPW150KUP3	150x50	210	135x110	105x80	300	53	11
SLGPW200KUP3	SLGPW200KUP3TF	SBGPW200KUP3	200x50	245	135x110	105x80	700	55	11





			mm	mm	mm	mm	dyn. kg	mm	mm
SLGPW100KUP3 + 2 RF	SLGPW100KUP3TFS	SBGPW100KUP3TF	100x30	148	135x105	105x80	200	40	11
SLGPW125KUP3 + 2 RF	SLGPW125KUP3TFS*	SBGPW125KUP3TF	125x50	178	135x110	105x80	300	50	11
SLGPW150KUP3 + 2 RF	SLGPW150KUP3TFS	SBGPW150KUP3TF	150x50	210	135x110	105x80	300	53	11
SLGPW200KUP3 + 2 RF	SLGPW200KUP3TFS	SBGPW200KUP3TF	200x50	245	135x110	105x80	700	55	11

*also available with overall height 185 mm on demand




		mm	mm	mm	dyn. kg	mm
SLGPW100KUZ22	SLGPW100KUZ22TF	100x30	131	22x50	200	36
SLGPW125KUZ22	SLGPW125KUZ22TF	125x50	161	22x50	300	45
SLGPW150KUZ22	SLGPW150KUZ22TF	150x50	184	22x50	300	50
SLGPW200KUZ25	SLGPW200KUZ25TF	200x50	244	25x65	700	57

possibilities for fixation



Welded Theatre castor w soft polyurethane wheel

on cast aluminium core, 75° Shore, ball bearing



Wheel:
Soft polyurethane on cast aluminium core, ball bearing, flat tread
Description of properties: Page 2.28

Housing:
- welded housing with double ball race at fork head

bold: version with black housing





			mm	mm	mm	mm	dyn. kg	mm	mm
GLGPW100KUP1	GLGPW100KUP1TF	GBGPW100KUP1	100x30	150	100x80	80x60	200	30	11
GLGPW100KUP3		GBGPW100KUP3	100x30	145	135x110	105x80	200	46	11
GLGPW125KUP3	GLGPW125KUP3TF	GBGPW125KUP3	125x50	170	135x110	105x80	300	55	11
GLGPW150KUP3	GLGPW150KUP3TF	GBGPW150KUP3	150x50	205	135x110	105x80	300	55	13
GLGPW200KUP3	GLGPW200KUP3TF	GBGPW200KUP3	200x50	260	135x110	105x80	700	57	13



	mm	mm	mm	mm	dyn. kg	mm	mm
GBGPW100KUP3TF	100x30	145	135x110	105x80	200	-	11
GBGPW125KUP3TF	125x50	170	135x110	105x80	300	-	11
GBGPW150KUP3TF	150x50	205	135x110	105x80	300	-	11
GBGPW200KUP3TF	200x50	260	135x110	105x80	700	-	13




		mm	mm	mm	dyn. kg	mm
GLGPW100KUZ22R	GLGPW100KUZ22RTF	100x30	150	22x50	200	36
GLGPW125KUZ22R	GLGPW125KUZ22RTF	125x45	175	22x50	300	45
GLGPW150KUZ22R	GLGPW150KUZ22RTF	150x50	205	22x50	300	50
GLGPW200KUZ25R	GLGPW200KUZ25RTF	200x50	260	25x65	700	57

possibilities for fixation



Theatre double castor with soft polyurethane wheel
on cast aluminium core, 75° Shore, ball bearing

Wheel:
Soft polyurethane on cast aluminium core, ball bearing, flat tread
Description of properties: Page 2.28

Housing:
- made of galvanised sheet steel with double ball race at fork head

bold: version with black housing



			mm	mm	mm	mm	dyn. kg	mm	mm
LDGPW125KUP3	LDGPW125KUP3TF	BDGPW125KUP3	2x125x40	170	138x110	105x80	600	50	11
LDGPW125KUP4A	**LDGPW125KUP4TFA**	**BDGPW125KUP4A**	**2x125x40**	**197**	**170x170**	**130x130**	**600**	**60**	**13**
LDGPW150KUP4	LDGPW150KUP4TF	BDGPW150KUP4	2x150x50	212	175x140	140x105	600	55	14
LDGPW150KUP4A	**LDGPW150KUP4TFA**	**BDGPW150KUP4A**	**2x150x40**	**210**	**170x170**	**130x130**	**600**	**60**	**13**
LDGPW180KUP4		BDGPW180KUP4	2x180x50	254	175x140	140x105	1000	67	14
LDGPW180KUP4A	**LDGPW180KUP4TFA**	**BDGPW180KUP4A**	**2x180x50**	**260**	**200x200**	**160x160**	**1000**	**72**	**17**
LDGPW200KUP4	LDGPW200KUP4TF	BDGPW200KUP4	2x200x50	264	175x140	140x105	1400	67	14
LDGPW200KUP4A	**LDGPW200KUP4TFA**	**BDGPW200KUP4A**	**2x200x50**	**270**	**200x200**	**160x160**	**1400**	**72**	**17**

Turtles with soft polyurethane wheels

on cast aluminium core, 75° Shore, ball bearing



Wheel:
Soft polyurethane on cast aluminium core, ball bearing
Description of properties: Page 2.28

Housing:
- made of galvanised sheet steel with double ball race at fork head

bold: version with black housing



	mm	mm	mm	mm	mm	kg	mm	mm
TLGPW100KUP3R/160	**Ø 380**	**100x30**	**160**	**135x105**	**105x80**	**600**	**500**	**11**
TLGPW100KUP3L/160	**300x300x300**	**100x30**	**160**	**135x105**	**105x80**	**600**	**456**	**11**
TLGPW100KUP3/164	**300x300x300**	**100x30**	**164**	**135x105**	**105x80**	**600**	**456**	**11**
TLGPW100KUP3/166	**300x300x300**	**100x30**	**166**	**135x105**	**105x80**	**600**	**456**	**11**
TLGPW100KUP3S/178	**300x300x300**	**100x30**	**178**	**135x105**	**105x80**	**600**	**456**	**11**
TSLGPW100KUP3S/185	**300x300x300**	**100x30**	**185**	**135x105**	**105x80**	**600**	**456**	**11**
TLGPW125KUP3/196	340x340x340	125x40	196	135x105	105x80	900	543	11
TLGPW125KUP3S/210	340x340x340	125x40	210	135x105	105x80	900	543	11
TSLGPW125KUP3SS/221	550x550x550	125x40	221	135x105	105x80	900	670	11
TLGPW150KUP3/235	550x550x550	150x50	235	135x105	105x80	900	716	11
TLGPW150KUP3S/230	550x550x550	150x50	230	135x105	105x80	900	716	11
TLGPW150KUP3SS/245	550x550x550	150x50	245	135x105	105x80	900	716	11
TSLGPW150KUPS/259	550x550x550	150x50	259	190x170	150x135	900	716	15
TSLGPW175KUPS/298	550x550x550	180x50	298	190x170	150x135	1000	751	15
TSLGPW180KUPS/298	550x550x550	200x50	305	190x170	150x135	1000	785	15
TSLGPW200KUPS/305	550x550x550	200x50	305	190x170	150x135	1000	785	15

Wheels for stages made of polyurethane

on polyamide core, 80° Shore, ball bearing



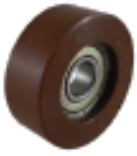
GPK050/18/06FL



GPK100/35/45/08

- rims can not corrode, thus they are made of polyamide
- non-marking and traceless on floor
- shock- and vibration-absorbing
- resistant to diluted bases and acids
- temperature resistant from -20°C to +60°C, for a short duration resistant up to +80°C
- oil- and grease-resistant

Version: Wheel is available in flat, 80° Shore

		mm	mm	mm	dyn. kg	mm
	GPK050/18/06FL	50	18	22	50	6
	GPK075/25/06FL	75	25	27	80	6
	GPK080/30/12FL	80	30	40	110	8
	GPK080/35/08FL	80	35	40	150	8
	GPK100/30/08FL	100	30	40	120	8
	GPK100/34/08FL	100	34	40	250	8
	GPK100/35/08FL	100	35	40	200	8
	GPK100/35/45/08	100	35	45	200	8
	GPK125/32/08FL	125	35	40	135	8
	GPK125/40/10FL	125	40	45	280	10
	GPK125/40/15FL	125	40	50	350	15
	GPK150/45/20FL	150	45	60	400	20
	GPK160/45/20FL	160	45	60	400	20
	GPK200/50/20FL	200	50	50	600	20
PUL25/10/06		25	10	6	20	6
PUL030/11/08		30	11	7	22	8
PUL040/14/10		40	14	9	70	10
PUL040/16/15		40	16	9	55	15
PUL040/20/10		40	20	9	55	15
PUL042/14/...		42	14	10	80	10 / 12
PUL046/15/12		46	15	8	80	12
PUL050/15/...		50	15	9	70	10 / 12
PUL055/25/15		55	25	9	110	15
PUL060/18/12		60	18	10	90	12
PUL062/20/17		62	20	14	110	17
PUL070/25/20		70	25	14	150	20
PUL080/20/...		80	20	14	140	12/15/17/20

Skater Wheel

on polyamide core, 78° Shore, ball bearing

- skater wheels are suitable for carpets
- rims can not corrode, thus they are made of polyamide
- non-marking and traceless on floor
- shock- and vibration-absorbing
- resistant to diluted bases and acids
- temperature resistant from -20°C to +60°C, for a short duration resistant up to +80°C
- oil- and grease-resistant

Version: Wheel is available in convex, 78° Shore



	mm	mm	mm	dyn. kg	mm
PK075/23/08 SC	75	23	23	80	8
PK072/23/08	72	23	23	80	8
PK100/23/08 SC	100	23	23	100	8
PK100/23/10 SC	100	23	23	100	10
PK100/23/08	100	23	23	100	8
PK100/23/10	100	23	23	100	10
PK125/23/08	125	23	23	100	8

Theatre castors with polyurethane wheel

on polyamide core, 80° Shore, ball bearing



Wheel:
Polyurethane on polyamide core, ball bearing, flat tread
Description of properties: Page 2.34

Housing:
- made of galvanised sheet steel with double ball race at fork head

bold: version with black housing





			mm	mm	mm	mm	dyn. kg	mm	mm
LGPK035KUPL	LGPK035KUPLTF	BGPK035KUPL	35x15	52	60X60	38X38/47X47	60	15	6
LGPK040KUPL	LGPK040KUPLTF	BGPK040KUPL	40x14	68	60x60	38x38/46x46	40	25	6
LGPK046KUPL	LGPK046KUPLTF	BGPK046KUPL	46x14	70	60x60	38x38/46x46	40	25	6
LGPK050KUPL	LGPK050KUPLTF	BGPK050KUPL	50x20	73	60X60	38X38/47X47	40	25	6
LMGPK050KUPL	LMGPK050KUPLTF	BMGPK050KUPL	50x40	72	60X60	38X38/47X47	120	31	6
LMGPK050KUPLS	LMGPK050KUPLSTF	BGPK050KUPLS	50x40	82	80x80	60x60	120	31	9
LGPK075KUPL	LGPK075KUPLTF	BGPK075KUPL	75x25	100	60x60	38X38/47X47	50	26	6
LGPK080KUP1	LGPK080KUP1TF	BGPK080KUP1	80x30	100	105x80	80x60	150	40	9
LGPK100KUP1	LGPK100KUP1TF	BGPK100KUP1	100x35	128	105x80	80x60	200	40	9
LGPK100KUP3	LGPK100KUP3TF	BGPK100KUP3	100x35	125	140x110	105x80	200	48	11
LGPK125KUP1	LGPK125KUP1TF	BGPK125KUP1	125x40	155	105x80	80x60	280	40	9
LGPK125KUP3	LGPK125KUP3TF	BGPK125KUP3	125x40	155	140x110	105x80	280	47	11
LGPK125KUP3A	LGPK125KUP3TFA	BGPK125KUP3A	125x40	165	140x110	105x80	280	45	13
LGPK150KUP3	LGPK150KUP3TF	BGPK150KUP3	150x45	185	140x110	105x80	400	60	11
LGPK160KUP3	LGPK160KUP3TF	BGPK160KUP3	160x45	195	140x110	105x80	400	60	11
LGPK200KUP3	LGPK200KUP3TF	BGPK200KUP3	200x50	235	140x110	105x80	500	60	11





			mm	mm	mm	mm	dyn. kg	mm	mm
LGPK050KUPL-4Fach			50x40	82	80x80	60x60	120	37	9
LGPK080KUP1-4Fach			80x30	103	105x80	80x60	150	40	9
LGPK100KUP3-4Fach	SLGPK080KUP3TFS	BGPK100KUP3TF	100x35	125	140x110	105x80	200	48	11
LGPK100KUP3-8Fach			100x35	125	140x110	105x80	200	48	11
LGPK125KUP3-4Fach	SLGPK100KUP3TFS*	BGPK125KUP3TF	125x40	155	140x110	105x80	280	47	11
LGPK150KUP3-4Fach	SLGPK125KUP3TFS	BGPK150KUP3TF	150x45	185	140x110	105x80	400	60	11
LGPK160KUP3-4Fach		BGPK160KUP3TF	160x45	190	140x110	105x80	400	60	11
LGPK200KUP3-4Fach		BGPK200KUP3TF	200x50	235	140x110	105x80	500	60	11

*also available with overall height 165 mm




			mm	mm	mm	dyn. kg	mm
LGPK035KUO	LGPK035KUOTF		35x15	52	10	60	15
LGPK040KUO	LGPK040KUOTF		40x14	68	10	40	26
LGPK046KUO	LGPK046KUOTF		46x14	70	10	40	26
LMGKP050KUO	LMGKP050KUOTF		50x40	72	12	150	28
LGPK075KUO	LGPK075KUOTF		75x24	100	10	50	30
LGPK080KUO	LGPK080KUOTF		80x30	100	13	180	45
LGPK100KUO	LGPK100KUOTF*		100x35	125*	13	200	48
LGPK125KUO	LGPK125KUOTF		125x40	155	13	350	60
LGPK150KUO	LGPK150KUOTF		150x45	185	13	350	60
LGPK160KUO	LGPK160KUOTF		160x45	190	13	350	60
LGPK200KUO	LGPK200KUOTF		200x50	230	13	350	60

possibilities for fixation



* overall height of LGPK100KUOTF is 128 mm, plates for compensating the height are available on request

Heavy duty castor w. polyuerthane wheel

on polyamide core, 80° Shore, ball bearing

Wheel:
Polyurethane on polyamide core,ball bearing
Description of properties: Page 2.34

Housing:
- made of galvanised sheet steel with double ball race at fork head

Version: Wheel is available in flat, 80° Shore



			mm	mm	mm	mm	dyn. kg	mm	mm
SLGPK080KUP1	SLGPK080KUP1TF	SBGPK080KUP1	80x35	120	105x85	80x60	150	40	9
SLGPK100KUP1	SLGPK100KUP1TF	SBGPK100KUP1	100x35	130	105x80	80x60	200	40	9
SLGPK100KUP3		SBGPK100KUP3	100x35	148	135x110	105x80	200	40	11
SLGPK125KUP3	SLGPK125KUP3TF	SBGPK125KUP3	125x40	178	135x110	105x80	280	50	11
SLGPK150KUP3	SLGPK150KUP3TF	SBGPK150KUP3	150x45	210	135x110	105x80	400	53	11
SLGPK160KUP3	SLGPK160KUP3TF	SBGPK160KUP3	160x45	215	135x110	105x80	400	53	11
SLGPK200KUP3	SLGPK200KUP3TF	SBGPK200KUP3	200x50	245	135x110	105x80	600	55	11

			mm	mm	mm	mm	dyn. kg	mm	mm
SLGPK100KUP3 + 2 RF	SLGPK100KUP3TFS	SBGPK100KUP3TF	100x35	148	135x110	105x80	200	40	11
SLGPK125KUP3 + 2 RF	SLGPK125KUP3TFS*	SBGPK125KUP3TF	125x40	178	135x110	105x80	280	50	11
SLGPK150KUP3 + 2 RF	SLGPK150KUP3TFS	SBGPK150KUP3TF	150x45	210	135x110	105x80	400	53	11
SLGPK160KUP3 + 2 RF		SBGPK160KUP3TF	160x45	215	135x110	105x80	400	53	11
SLGPK200KUP3 + 2 RF	SLGPK200KUP3TFS	SBGPK200KUP3TF	200x50	245	135x110	105x80	600	55	11

*also available with overall height 185 mm on demand

		mm	mm	mm	dyn. kg	mm
SLGPK080KUZ22R	SLGPK080KUZ22RTF	80x35	114	22x50	150	36
SLGPK100KUZ22R	SLGPK100KUZ22RTF	100x35	131	22x50	200	36
SLGPK125KUZ22R	SLGPK125KUZ22RTF	125x40	161	22x50	280	45
SLGPK150KUZ22R	SLGPK150KUZ22RTF	150x45	184	22x50	400	50
SLGPK200KUZ25R	SLGPK200KUZ25RTF	200x50	244	25x65	600	57

possibilities for fixation



Welded heavy duty with polyurethane wheel

on polyamide core, 80° Shore, ball bearing



Wheel:
Polyurethane on polyamide core, ball bearing, flat tread
Description of properties: Page 2.34

Housing:
- welded housing with double ball race at fork head

bold: version with black housing

			mm	mm	mm	mm	dyn. kg	mm	mm
GLGPK080KUP1		GBGPK080KUP1	80x35	125	100x80	80x60	150	30	11
GLGPK100KUP1	GLGPK100KUP1TF	GBGPK100KUP1	100x35	150	100x80	80x60	250	30	11
GLGPK125KUP1	GLGPK125KUP1TF	GBGPK125KUP1	125x40	163	100x80	80x60	280	30	11
GLGPK100KUP3		GBGPK100KUP3	100x35	145	135x110	105x80	250	46	11
GLGPK125KUP3	GLGPK125KUP3TF	GBGPK125KUP3	125x40	170	135x110	105x80	350	55	11
GLGPK150KUP3	GLGPK150KUP3TF	GBGPK150KUP3	150x45	205	135x110	105x80	400	55	13
GLGPK160KUP3	GLGPK160KUP3TF	GBGPK160KUP3	160x45	210	135x110	105x80	400	57	13
GLGPK200KUP3	GLGPK200KUP3TF	GBGPK200KUP3	200x50	260	135x110	105x80	600	57	13



	mm	mm	mm	mm	dyn. kg	mm	mm
GBGPK100KUP3TF	100x35	145	135x110	105x80	250	-	11
GBGPK125KUP3TF	125x40	170	135x110	105x80	350	-	11
GBGPK150KUP3TF	150x45	205	135x110	105x80	400	-	11
GBGPK160KUP3TF	160x45	210	135x110	105x80	400	-	11
GBGPK200KUP3TF	200x50	260	135x110	105x80	600	-	11



			mm	mm	mm	dyn. kg	mm
GLGPK100KUZ22R	GLGPK100KUZ22RTF	possibilities for fixation	100x35	150	22x50	250	36
GLGPK125KUZ22R	GLGPK125KUZ22RTF		125x40	175	22x50	350	45
GLGPK150KUZ22R	GLGPK150KUZ22RTF		150x45	205	22x50	400	50
GLGPK200KUZ25R	GLGPK200KUZ25RTF		200x50	260	25x65	600	57



Theatre castor w. double polyurethane wheels

on polyamide core, 80° Shore, ball bearing

Wheel:
Polyurethane on polyamide core, ball bearing, flat tread
Description of properties: Page 2.34

Housing:
- made of galvanised sheet steel with double ball race at fork head

bold: version with black housing







			mm	mm	mm	mm	dyn. kg	mm	mm
LDGPK025KUPL	LDGPK025KUPLTF		2x25x10	47	60x60	38x38/46x46	40	15	6
LDMGPK030KUPL			3x30x11	48	60x60	38x38/46x46	66	15	6
LDMGPK035KUPL	LDMGPK035KUPLTF		2x35x15	52	60x60	38x38/46x46	80	15	6
LDMGPK040KUPL	LDMGPK040KUPLTF		2x40x14	67	60x60	38x38/46x46	100	31	6
LDMGPK045KUPL	LDMGPK045KUPLTF		2x45x15	69	60x60	38x38/46x46	100	31	6
LDMGPK050KUPL	LDMGPK050KUPLTF	BDMGPK050KUPL	2x50x20	72	60X60	38X38/47X47	100	31	6
LDMGPK050KUPLS	LDMGPK050KUPLSTF	BDGPK050KUPLS	2x50x20	82	80x80	60x60	100	31	9
LDGPK075KUPL	LDGPK075KUPLTF		2x75x25	100	60X60	38X38/46X46	80	35	6
LDGPK125KUP4A	LDGPK125KUP4TFA	BDGPK125KUP4A	2x125x45	197	170x170	130x130	700	60	13
LDGPK150KUP4A	LDGPK150KUP4TFA	BDGPK150KUP4A	2x150x45	210	170x170	130x130	800	60	13
LDGPK160KUP4A	LDGPK160KUP4TFA	BDGPK160KUP4A	2x160x45	250	170x170	130x130	800	60	13
LDGPK200KUP4A	LDGPK200KUP4TFA	BDGPK200KUP4A	2x200x50	270	200x200	160x160	1200	72	17




		mm	mm	mm	dyn. kg	mm
LDGPK025KUO		2x25x10	47	10	40	15
LDMGPK030KUO		3x30x11	48	10	66	15
LDMGPK035KUO	LDMGPK035KUOTF	2x35x15	52	10	80	15
LDMGPK040KUO	LDMGPK040KUOTF	2x40x14	67	12	100	28
LDMGPK045KUO	LDMGPK045KUOTF	2x45x15	69	12	100	28
LDMGPK050KUO	LDMGPK050KUOTF	2x50x20	72	12	100	28
LDGPK075KUO	LDGPK075KUUOTF	2x75x25	100	12	80	35

possibilities for fixation



Turtles with single polyurethane wheels

on polyamide core, 80° Shore, ball bearing



Wheel:
Polyurethane on polyamide core, ball bearing, flat tread
Description of properties: Page 2.34

Housing:
- made of galvanised sheet steel with double ball race at fork head

bold: version with black housing



	mm	mm	mm	mm	mm	kg	mm	mm
TLMGPK050KUP1/101	**183x183x183**	**50x40**	**101**	**105x85**	**80x60**	**300**	**254**	**9**
TLMGPK050KUP3/108	**183x183x183**	**50x40**	**108**	**135x105**	**105x80**	**300**	**254**	**11**
TLMGPK050KUP3S/115	**183x183x183**	**50x40**	**115**	**135x105**	**105x80**	**300**	**254**	**9**
TLMGPK050KUP1S/101	**210x210x210**	**50x40**	**101**	**105x85**	**80x60**	**300**	**318**	**11**
TLMGPK050KUP3S/108	**210x210x210**	**50x40**	**108**	**135x105**	**105x80**	**300**	**318**	**11**
TLMGPK050KUP3SS/115	**210x210x210**	**50x40**	**115**	**135x105**	**105x80**	**300**	**318**	**11**
TLGPK080KUP1/124	**250x250x250**	**80x35**	**124**	**105x85**	**80x60**	**450**	**387**	**9**
TLGPK080KUP3/133	**250x250x250**	**80x35**	**133**	**135x105**	**105x80**	**450**	**387**	**11**
TLGPK080KUP3/148	**250x250x250**	**80x35**	**148**	**135x105**	**105x80**	**450**	**387**	**11**
TLGPK080KUP1S/155	**300x300x300**	**80x35**	**155**	**105x85**	**80x60**	**450**	**428**	**9**
TLGPK080KUP3S/155	**300x300x300**	**80x35**	**155**	**135x105**	**105x80**	**450**	**428**	**11**
TLGPK100KUP3R/160	**Ø 380**	**100x35**	**160**	**135x105**	**105x80**	**600**	**500**	**11**
TLGPK100KUP3L/160	**300x300x300**	**100x35**	**160**	**135x105**	**105x80**	**600**	**456**	**11**
TLGPK100KUP3/164	**300x300x300**	**100x35**	**164**	**135x105**	**105x80**	**600**	**456**	**11**
TLGPK100KUP3/166	**300x300x300**	**100x35**	**166**	**135x105**	**105x80**	**750**	**456**	**11**
TLGPK100KUP3S/178	**300x300x300**	**100x35**	**178**	**135x105**	**105x80**	**750**	**456**	**11**
TSLGPK100KUP3S/185	**300x300x300**	**100x35**	**185**	**135x105**	**105x80**	**750**	**456**	**11**
TLGPK125KUP3/196	340x340x340	125x40	196	135x105	105x80	1000	543	11
TLGPK125KUP3S/210	340x340x340	125x40	210	135x105	105x80	1000	543	11
TSLGPK125KUP3SS/221	550x550x550	125x40	221	135x105	105x80	1000	670	11
TLGPK150KUP3/235	550x550x550	150x45	235	135x105	105x80	600	716	11
TLGPK150KUP3S/230	550x550x550	150x45	230	135x105	105x80	1000	716	11
TLGPK150KUP3SS/245	550x550x550	150x45	245	135x105	105x80	1000	716	11
TSLGPK150KUPS/259	550x550x550	150x45	259	190x170	150x135	1000	716	15
TSLGPK160KUPS/245	550x550x550	160x45	245	135x105	105x80	1000	716	11
TSLGPK200KUPS/305	550x550x550	200x50	305	190x170	150x135	1000	785	15

Turtles with double polyurethane wheels
on polyamide core, 80° Shore, ball bearing

Wheel:
Polyurethane on polyamide core, ball bearing, flat tread
Description of properties: Page 2.34

Housing:
- made of galvanised sheet steel with double ball race at fork head

bold: version with black housing







		mm	mm	mm	mm	mm	dyn. kg	mm	mm
T5LDMGPK025KUP1/70	Ø 195	2x25x10	70	105x85	80x60	200	239	9
TLDMGPK025KUP1/73	118x118x118	2x25x10	73	105x85	80x60	120	158	9
T5LDMGPK025KUP3/78	Ø 195	2x25x10	78	135x105	105x80	200	239	11
TLDMGPK025KUP3/80	118x118x118	2x25x10	80	135x105	105x80	120	158	11
T5LDMGPK030KUP1/72	Ø 195	2x30x11	72	105x85	80x60	220	241	9
TLDMGPK030KUP1/74	118x118x118	2x30x11	74	105x85	80x60	132	164	9
T5LDMGPK030KUP3/80	Ø 195	2x30x11	80	135x105	105x80	220	241	11
TLDMGPK030KUP3/82	118x118x118	2x30x11	82	135x105	105x80	132	164	11
TLDMGPK035KUP1/76	183x183x183	2x35x15	76	105x85	80x60	240	241	9
TLDMGPK035KUP3/86	183x183x183	2x35x15	86	135x105	105x80	240	241	11
TLDMGPK040KUP1/96	183x183x183	2x40x20	96	105x85	80x60	300	234	9
TLDMGPK040KUP3/101	183x183x183	2x40x20	101	135x105	105x80	300	234	11
TLDMGPK045KUP1/98	183x183x183	2x45x15	98	105x85	80x60	300	240	9
TLDMGPK045KUP3/103	183x183x183	2x45x15	103	135x105	105x80	300	240	11
TLDMGPK050KUP1/101	183x183x183	2x50x20	101	105x85	80x60	300	254	9
TLDMGPK050KUP3/108	183x183x183	2x50x20	108	135x105	105x80	300	254	11
TLDMGPK050KUP3S/115	183x183x183	2x50x20	115	135x105	105x80	300	254	11
TLDGPK075KUP1/121	250x250x250	2x75x25	121	105x85	80x60	240	381	11
TLDGPK075KUP3/128	250x250x250	2x75x25	128	135x105	105x80	240	381	11

Apparatus castors with Skater Wheel

on polyamide core, 78° Shore, ball bearing



Wheel:
Skaterwheel with ball bearing, convex tread
Description of properties: Page 2.34

Housing:
- made of galvanised sheet steel with double ball race at fork head

bold: version with black housing





			mm	mm	mm	mm	dyn. kg	mm	mm
LKP075KUPL SC	**LKP075KUPLTF SC**	**BKP075KUPL SC**	**75x23**	**100**	**60x60**	**38x38 / 46x46**	**60**	**30**	**6**
LKP075KUPL	LKP075KUPLTF	BKP075KUPL	75x23	100	60x60	38x38 / 46x46	60	28	6
LKP100KUPL	LKP100KUPLTF	BKP100KUPL	100x23	120	60x60	38x38 / 46x46	80	36	6
KLP100KPL1	KLP100KPL1TF	KBP100KPL1	100x23	135	77x67	46x56 / 51x61	80	40	9
KLP125KPL1	KLP125KPL1TF	KBP125GPL1	125x23	161	77x67	46x56 / 51x61	100	42	9




			mm	mm	mm	dyn. kg	mm
LKP075KUO SC	**LKP075KUOTF SC**		**75x23**	**100**	**10**	**60**	**30**
LKP075KUO	LKP075KUOTF		75x23	100	10	60	28
LKP100KUO	LKP100KUOTF	possibilities for fixation	100x23	120	13	80	26
KLP100KUO10	KLP100KUO10TF		100x23	135	10	80	36
KLP100KUO12	KLP100KUO12TF		100x23	135	12	80	40
KLP125KUO10	KLP125KUO10TF		125x23	161	10	100	42
KLP125KUO12	KLP125KUO12TF		125x23	161	12	100	51



Apparatus twin castors with Skater Wheel

on polyamide core, 78° Shore, ball bearing

Wheel:
Skaterwheel with ball bearing, convex tread
Description of properties: Page 2.34

Housing:
- made of galvanised sheet steel with double ball race at fork head

bold: version with black housing







			mm	mm	mm	mm	dyn. kg	mm	mm
LDKP075KUPL SC	**LDKP075KUPLTF SC**		**2x75x23**	**100**	**60x60**	38x38 / 46x46	**80**	**35**	**6**
LDKP075KUPL	LDKP075KUPLTF		2x75x23	100	60x60	38x38 / 46x46	80	28	6
LDKP100KUP3 SC	**LDKP100KUP3TF SC**	**BDKP100KUP3 SC**	**2x100x23**	**125**	**140x110**	**105x80**	**200**	**48**	**11**
LDKP100KUP3	LDKP100KUP3TF	BDKP100KUP3	2x100x23	125	140x110	105x80	200	48	11
LDKP125KUP3	LDKP125KUP3TF	BDKP125KUP3	2x125x23	155	140x110	105x80	200	40	11




			mm	mm	mm	dyn. kg	mm
LDKP075KUO SC	**LDKP075KUOTF SC**		**2x75x23**	**100**	**10**	**80**	**35**
LDKP075KUO	LDKP075KUOTF		2x75x23	100	10	80	35
LDKP100KUO SC	**LDKP100KUOTF SC**		**2x100x23**	**125**	**12**	**200**	**36**
LDKP100KUO	LDKP100KUOTF		2x100x23	125	12	200	36
LDKP125KUO	LDKP125KUOTF		2x125x23	155	12	200	40

possibilities for fixation



Turtles with double Skater Wheels

on polyamide core, 78° Shore, ball bearing



Wheel:
Skater wheel with ball bearing, convex tread
Description of properties: Page 2.34

Housing:
- made of galvanised sheet steel with double ball race at fork head

bold: version with black housing



	mm	mm	mm	mm	mm	dyn. kg	mm	mm
TLDMGPK050KUP1SC/97	**183x183x183**	**2x50x23**	**97**	**105x85**	**80x60**	**300**	**254**	**9**
TLDMGPK050KUP3SC/103	**183x183x183**	**2x50x23**	**103**	**135x105**	**105x80**	**300**	**254**	**11**
TLDKP075KUP1SC/125	**250x250x250**	**2x75x23**	**125**	**105x85**	**105x80**	**240**	**381**	**9**
TLDKP075KUP3SC/134	**250x250x250**	**2x75x23**	**134**	**135x105**	**105x80**	**240**	**381**	**11**
TLDKP075KUP1/125	250x250x250	2x75x23	125	105x85	105x80	240	381	9
TLDKP075KUP3/134	250x250x250	2x75x23	134	135x105	105x80	240	381	11
TLDKP100KUP3R/160	Ø 380	2x100x23	160	135x105	105x80	600	500	11
TLDKP100KUP1SC/156	**300x300x300**	**2x100x23**	**156**	**105x85**	**80x60**	**450**	**456**	**9**
TLDKP100KUP1/156	300x300x300	2x100x23	156	105x85	80x60	450	456	9
TLDKP100KUP3L/160	300x300x300	2x100x23	160	135x105	105x80	600	456	11
TLDKP100KUP3SC/164	**300x300x300**	**2x100x23**	**164**	**135x105**	**105x80**	**600**	**456**	**11**
TLDKP100KUP3SC/166	**300x300x300**	**2x100x23**	**166**	**135x105**	**105x80**	**600**	**456**	**11**
TLDKP100KUP3/164	300x300x300	2x100x23	164	135x105	105x80	600	456	11
TLDKP100KUP3/166	300x300x300	2x100x23	166	135x105	105x80	600	456	11
TLDKP100KUP3S/178	300x300x300	2x100x23	178	135x105	105x80	600	456	11
TSLDKP100KUP3S/185	300x300x300	2x100x23	185	135x105	105x80	600	456	11
TLDKP125KUP3/196	340x340x340	2x125x23	196	135x105	105x80	600	543	11
TLDKP125KUP3S/210	340x340x340	2x125x23	210	135x105	105x80	600	543	11
TSLDKP125KUP3SS/221	550x550x550	2x125x23	221	135x105	105x80	600	670	11

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Wheels for stages made of elastic soft polyurethane
on solid aluminium core, 75° Shore

- soft elastic covering, high shock- and vibration-absorbing
- tear-resistant
- non-marking and traceless on floor
- light-weight rim, due to aluminium (2/3 lighter than steel)
- temperature resistant from -20°C to 80°C, for a short duration resistant up to +130°C
- oil- and grease-resistant
- resistant to diluted bases and acids



Version: Wheel is available in flat or convex, 75° Shore
blue dot: mark for soft wheel

		mm	mm	mm	dyn. kg	mm
	PUW033/10/08 FL	33	10	10	50	8
	PUW035/27/08 FL	35	27	28	100	8
PUW050/20/08BA	PUW050/20/08FL	50	20	20	120	8
PUW050/40/10BA	PUW050/40/10FL	50	40	40	125	10
PUW075/30/12BA		75	30	30	200	12
PUW075/30/15BA		75	30	30	200	15
PUW080/30/12BA		80	30	30	200	12
PUW080/30/15BA		80	30	30	200	15
PUW080/40/12BA		80	40	40	250	12
PUW080/40/15BA		80	40	40	250	15
PUW100/40/12BA	PUW100/40/12FL	100	40	40	300	12

Theatre castor with elastic, soft polyurethane wheel on solid aluminium core, 75° Shore, ball bearing



Wheel:
soft polyurethane wheel on solid aluminium core, ball bearing, flat or convex
Description of properties: Page 2.44

Housing:
- made of galvanised sheet steel with double ball race at fork head

bold: version with black housing
blue dot: mark for soft wheel



			mm	mm	mm	mm	dyn. kg	mm	mm
LMPUW033KUPL	LMPUW033KUPLTF	BPUW033KUPL	33x27	51	60x60	38x38/47x47	80	15	6
LMPUW050KUPL	LMPUW050KUPLTF	BMPUW050KUPL	50x40	72	60x60	38x38/47x47	125	31	6
LMPUW050KUPLS	LMPUW050KUPLSTF	BPUW050KUPLS	50x40	82	80x80	60x60	125	31	9
LPUW080KUP1	LPUW080KUP1TF	BPUW080KUP1	80x40	100	105x80	80x60	200	40	9
LPUW080KUP3	LPUW080KUP3TF	BPUW080KUP3	80x40	115	140x110	105x80	250	48	11
LPUW100KUP1	LPUW100KUP1TF	BPUW100KUP1	100x40	128	105x80	80x60	300	40	9
LPUW100KUP3	LPUW100KUP3TF	BPUW100KUP3	100x40	125	140x110	105x80	300	48	11



			mm	mm	mm	mm	dyn. kg	mm	mm
LPUW050KUPL-4Fach			50x40	82	80x80	60x60	125	37	9
LPUW075KUP1-4Fach			75x30	100	105x80	80x60	200	40	9
LPUW080KUP1-4Fach			80x30	103	105x80	80x60	200	40	9
LPUW080KUP3-4Fach		BPUW080KUP3TF	80x40	115	140x110	105x80	250	48	11
LPUW080KUP3-8Fach			80x40	115	140x110	105x80	250	48	11
LPUW100KUP3-4Fach	SLPUW080KUP3TFS	BPUW100KUP3TF	100x40	125	140x110	105x80	300	48	11
LPUW100KUP3-8Fach			100x40	125	140x110	105x80	300	48	11



			mm	mm	mm	dyn. kg	mm
LMPUW033KUO	LMPUW033KUOTF	possibilities for fixation	33x27	51	10	80	15
LMPUW050KUO	LMPUW050KUOTF		50x40	71	12	125	28
LPUW080KUO	LPUW080KUOTF		80x30	100	13	180	45
LPUW080/40KUO			80x40	115	13	250	48
LPUW100KUO	LPUW100KUOTF*		100x40	125*	13	300	48



* overall height of LPUW100KUOTF is 128 mm, plates for compensating the height are available on request

Heavy theatre castor with elastic, soft polyurethane wheel

on solid aluminium core, 75° Shore, ball bearing



Wheel:
soft polyurethane wheel on solid aluminium core, ball bearing, flat or convex
Description of properties: Page 2.44

Housing:
made of galvanised sheet steel with double ball race at fork head

bold: version with black housing
blue dot: mark for soft wheel

			mm	mm	mm	mm	dyn. kg	mm	mm
SLPUW080KUP1	SLPUW080KUP1TF	SBPUW080KUP1	80x30	120	105x85	80x60	250	40	9
SLPUW100KUP1	SLPUW100KUP1TF	SBPUW100KUP1	100x40	127	105x80	80x60	300	40	9
SLPUW100KUP3		SBPUW100KUP3	100x40	148	135x110	105x80	300	40	11

			mm	mm	mm	mm	dyn. kg	mm	mm
SLPUW100KUP3+2RF	SLPUW100KUP3TFS	SBPUW100KUP3TF	100x40	148	135x105	105x80	300	40	11

			mm	mm	mm	dyn. kg	mm	
SLPUW080KUZ22R	SLPUW080KUZ22RTF	possibilities for fixation	80x30	114	22x50	250	36	
SLPUW100KUZ22R	SLPUW100KUZ22RTF		100x40	131	22x50	300	36	

Welded heavy duty castor with elastic, soft polyurethane wheel on solid aluminium core, 75° Shore, ball bearing



Wheel:
soft polyurethane wheel on solid aluminium core, ball bearing, flat or convex
Description of properties: Page 2.44

Housing:
- welded housing with double ball race at fork head

bold: version with black housing
blue dot: mark for soft wheel

			mm	mm	mm	mm	dyn. kg	mm	mm
GLPUW080KUP1		GBPUW080KUP1	80x40	125	100x80	80x60	250	30	11
GLPUW100KUP1	GLPUW100KUP1TF	GBPUW100KUP1	100x40	150	100x80	80x60	300	30	11

			mm	mm	mm	dyn. kg	mm
GLPUW100KUZ22R	GLPUW100KUZ22RTF	possibilities for fixation 	100x40	150	22x50	300	36

Theatre castor with double elastic, soft polyurethane wheel on solid aluminium core, 75° Shore, ball bearing

Wheel:
soft polyurethane wheel on solid aluminium core, ball bearing, flat or convex
Description of properties: Page 2.44

Housing:
- made of galvanised sheet steel with double ball race at fork head
- in 80 and 100 mm wheel diameter also available with black coated housing

bold: version with black housin
blue dot: mark for soft wheel







			mm	mm	mm	mm	dyn. kg	mm	mm
LDMPUW033KUPL	LDMPUW033KUPLTF	BDPUW033KUPL	2x33x10	51	60X60	38X38/46X46	100	15	6
LDMPUW050KUPL	LDMPUW050KUPLTF	BDMPUW050KUPL	2x50x20	72	60X60	38X38/46X46	150	31	6
LDMPUW050KUPLS	LDMPUW050KUPLSTF	BDPUW050KUPLS	2x50x20	82	80x80	60x60	150	31	9
LDPUW080KUP3		BDPUW080KUP3	2x80x25	115	135x105	105x80	350	48	11
LDPUW100KUP3	LDPUW100KUP3TF	BDPUW100KUP3	2x100x25	125	135x105	105x80	350	48	11
LDPUW100KUP1		BDPUW100KUP1	2x100x25	128	105x80	80x60	320	40	9
SLDPUW100KUP1	SLDPUW100KUP1TF	SBDPUW100KUP1	2x100x25	130	105x80	80x60	350	40	9
SLDPUW100KUP3		SBDPUW100KUP3	2x100x25	148	135x105	105x80	500	48	11



	mm	mm	mm	mm	dyn. kg	mm	mm
LDPUW050KUPL-4Fach	2x50x20	82	80x80	60x60	150	37	9
LDPUW080KUP3-4Fach	2x80x25	115	140x110	105x80	300	48	11
LDPUW080KUP3-8Fach	2x80x25	115	140x110	105x80	300	48	11
LDPUW100KUP3-4Fach	2x100x25	125	140x110	105x80	350	48	11
LDPUW100KUP3-8Fach	2x100x25	125	140x110	105x80	350	48	11




possibilities for fixation



		mm	mm	mm	dyn. kg	mm
LDMPUW033KUO	LDMPUW033KUOTF	2x33x10	51	10	100	10
LDMPUW050KUO	LDMPUW050KUOTF	2x50x20	71	12	150	37
LDPUW080KUO		2x80x25	115	13	300	60
LDPUW100KUO	LDPUW100KUOTFA*	2x100x25	125*	13	350	60

* overall height of LDPUW100KUOTFA is 128 mm, plates for compensating the height are available on request

Turtles with elastic soft polyurethane wheels

on solid aluminium core, 75° Shore, ball bearing



Wheel:
soft polyurethane wheel on solid aluminium core, ball bearing, flat or convex
Description of properties: Page 2.44

Housing:
- made of galvanised sheet steel with double ball race at fork head

bold: version with black housing
blue dot: mark for soft wheel



	mm	mm	mm	mm	mm	kg	mm	mm
T5LMPUW033KUP1/76	Ø 195	33x27	76	115x85	80x60	400	240	9
TLMPUW033KUP1/76	118x118x118	33x27	76	115x85	80x60	240	175	9
TLMPUW050KUP1/101	183x183x183	50x40	101	115x85	80x60	350	254	9
TLMPUW050KUP3/108	183x183x183	50x40	108	135x105	105x80	450	254	11
TLMPUW050KUP3S/115	183x183x183	50x40	115	135x105	105x80	450	254	11
TLPUW080KUP3/133	250x250x250	80x30	133	135x105	105x80	500	387	11
TLPUW080KUP3/148	250x250x250	80x30	148	135x105	105x80	500	387	11
TLPUW080KUP1/155	300x300x300	80x30	155	115x85	80x60	350	428	9
TLPUW080KUP3/155	300x300x300	80x40	155	135x105	105x80	750	428	11
TLPUW100KUP3L/160	300x300x300	100x40	160	135x105	105x80	600	456	11
TLPUW100KUP3/164	300x300x300	100x40	164	135x105	105x80	900	456	11
TLPUW100KUP3/166	300x300x300	100x40	166	135x105	105x80	900	456	11
TLPUW100KUP3S/178	300x300x300	100x40	178	135x105	105x80	900	456	11
TLPUW100KUP3SS/185	300x300x300	100x40	185	135x105	105x80	900	456	11

Turtles with (double)elastic soft polyurethane
wheels on solid aluminium core, 75° Shore, ball bearing

Wheel:
soft polyurethane wheel on solid aluminium core, ball bearing, flat or convex
Description of properties: Page 2.44

Housing:
- made of galvanised sheet steel with double ball race at fork head

bold: version with black housing
blue dot: mark for soft wheel





	mm	mm	mm	mm	mm	kg	mm	mm
T5LDMPUW033KUP1/76	Ø 195	2x33x10	76	115x85	80x60	450	240	9
TLDMPUW033KUP1/76	118x118x118	2x33x10	76	115x85	80x60	300	175	9
TLDMPUW050KUP1/101	183x183x183	2x50x20	101	115x85	80x60	350	254	9
TLDMPUW050KUP3/108	183x183x183	2x50x20	108	135x105	105x80	450	254	11
TLDMPUW050KUP3S/115	183x183x183	2x50x20	115	135x105	105x80	450	254	11
TLDPUW080KUP3/133	250x250x250	2x80x25	133	135x105	105x80	500	387	11
TLDPUW080KUP3/148	300x300x300	2x80x25	148	115x85	80x60	500	428	11
TLDPUW080KUP1/155	300x300x300	2x80x25	155	135x105	105x80	350	428	9
TLDPUW080KUP3/155	300x300x300	2x100x25	155	135x105	105x80	750	456	11
TLDPUW100KUP3L/160	300x300x300	2x100x25	160	135x105	105x80	600	456	11
TLDPUW100KUP3/164	300x300x300	2x100x25	164	135x105	105x80	900	456	11
TLDPUW100KUP3/166	300x300x300	2x100x25	166	135x105	105x80	900	456	11
TLDPUW100KUP3S/178	300x300x300	2x100x25	178	135x105	105x80	900	456	11
TLDPUW100KUP3SS/185	300x300x300	2x100x25	185	135x105	105x80	900	456	11

- (Elastic) Rubber & Polyamide

BJERRING – Tykhøjetvej 20 – Hal 5 – 7323 Give – Tlf. +45 77345206 - mail: salg@bjerring-sales.dk bjerring-sales.dk – sunswim.dk – bjerring-shop.dk – bjerring-furniture.dk

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Characteristics of wheels

Standard solid rubber:

- low resistance to rolling
- easy on floors
- Shore-hardness : 75
- temperature resistant from –40° to +80°C

Elastic solid rubber tyres:

- higher load capacity and elasticity than standard solid rubber and half elastic tyres
- tyre fits stabil because the rim is cured-on
- easy on floors
- very low resistance to rolling
- high resistance to rubbing
- very good running comfort
- temperature resistant from –40° to +80°C, short-term also to 100°C

Pneumatic wheels:

- good shock absorbing characteristic
- low resistance to rolling when used on difficult ground
- easy on floors
- high running comfort
- temperature resistant from -10° to + 80°C
- short-term to 80°C
- Shore-hardness: variable according to tyre pressure

Unbreakable pneumatic wheels:

- ordinary good shock absorbing charasteristic
- low resistance to rolling when used on difficult ground
- easy on floors
- high running comfort
- temperature resistant from -10° to + 80°C
- short-term to 80°C
- Shore-hardness: 60

Solid rubber tyre black or grey

on steel rim, 80° Shore, roller bearing

- low resistance to rolling
- easy on floors
- Shore-hardness : 80°
- temperature resistant from -40° to +80°C
- grey tyre to prevent strong floor marks

Version: Wheel is available in flat, 80° Shore



		mm	mm	mm	kg	mm
SR080RO12	SR080GR12	80	25	37	50	12
SR100RO12	SR100GR12	100	30	37	70	12
SR100RO15	SR100GR15	100	30	45	70	15
SR125RO15	SR125GR15	125	38	48	100	15
SR140RO20	SR140GR20	140	37	45	115	20
SR160RO20	SR160GR20	160	40	58	135	20
SR180RO20	SR180GR20	180	45	58	170	20
SR200RO20	SR200GR20	200	50	58	205	20
SR200RO25	SR200GR25	200	50	58	205	25
SR225RO25	SR225GR25	225	55	60	250	25
SR250RO25	SR250GR25	250	60	60	295	25
SR400RO25	SR400GR25	400	75	88	400	25

Transport castor with solid black rubber tyre

on steel rim, 80° Shore, roller bearing



Wheel:
black rubber wheel,on steel rim, roller bearing
Description of properties: Page 3.3

Housing:

- made of galvanised sheet steel with double ball race at the fork head
- in 80 and 100 mm wheel diameter also available with black coated housing

Version: Wheel is available in flat, 80 ° Shore





			mm	mm	mm	mm	dyn. kg	mm	mm
LSR080ROP1	LSR080ROP1TF	BSR080ROP1	80x25	100	105x85	80x60	50	37	9
LSR100ROP1	LSR100ROP1TF	BSR100ROP1	100x30	128	105x85	80x60	70	40	9
LSR100ROP3	LSR100ROP3TF	BSR100ROP3	100x30	125	135x105	105x80	70	45	11
LSR125ROP1	LSR125ROP1TF	BSR125ROP1	125x38	155	105x85	80x60	100	40	9
LSR125ROP3	LSR125ROP3TF	BSR125ROP3	125x38	155	135x105	105x80	100	44	11
LSR140ROP1	LSR140ROP1TF	BSR140ROP1	140x37	175	105x80	80x60	115	40	9
LSR160ROP3	LSR160ROP3TF	BSR160ROP3	160x40	195	135x105	105x80	135	45	11
LSR180ROP3	LSR180ROP3TF	BSR180ROP3	180x45	225	135x105	105x80	170	45	11
LSR200ROP3	LSR200ROP3TF	BSR200ROP3	200x50	240	135x105	105x80	205	58	11
LSR225ROP3	LSR225ROP3TF	BSR225ROP3	225x55	255	135x105	105x80	250	63	11
LSR250ROP3	LSR250ROP3TF	BSR250ROP3	250x60	290	135x105	105x80	300	65	11




			mm	mm	mm	dyn. kg	mm
LSR080ROO	LSR080ROOTF		80x25	100	13	80	40
LSR100ROO	LSR100ROOTF		100x30	125	13	80	40
LSR125ROO	LSR125ROOTF		125x38	155	13	100	47
LSR160ROO	LSR160ROOTF		160x40	185	13	135	52
LSR180ROO	LSR180ROOTF		180x45	220	13	170	54
LSR200ROO	LSR200ROOTF		200x50	230	13	205	54

possibilities for fixation



Transport castor with solid grey rubber tyre
on steel rim, 80° Shore, roller bearing

Wheel:
grey rubber wheel,on steel rim, roller bearing
Description of properties: Page 3.3

Housing:
- made of galvanised sheet steel with double ball race at fork head
- in 80 and 100 mm wheel diameter also available with black
- coated housing

Version: Wheel is available in flat, 80 ° Shore



			mm	mm	mm	mm	dyn. kg	mm	mm
LSR080GRP1	LSR080GRP1TF	BSR080GRP1	80x25	100	105x85	80x60	50	37	9
LSR100GRP1	LSR100GRP1TF	BSR100GRP1	100x30	128	105x85	80x60	70	40	9
LSR100GRP3	LSR100GRP3TF	BSR100GRP3	100x30	125	135x105	105x80	70	45	11
LSR125GRP1	LSR125GRP1TF	BSR125GRP1	125x38	155	105x85	80x60	100	40	9
LSR125GRP3	LSR125GRP3TF	BSR125GRP3	125x38	155	135x105	105x80	100	44	11
LSR140GRP1	LSR140GRP1TF	BSR140GRP1	140x37	175	105x85	80x60	115	40	9
LSR160GRP3	LSR160GRP3TF	BSR160GRP3	160x40	195	135x105	105x80	135	45	11
LSR180GRP3	LSR180GRP3TF	BSR180GRP3	180x45	225	135x105	105x80	170	45	11
LSR200GRP3	LSR200GRP3TF	BSR200GRP3	200x50	240	135x105	105x80	205	58	11
LSR225GRP3	LSR225GRP3TF	BSR225GRP3	225x55	255	135x105	105x80	250	63	11
LSR250GRP3	LSR250GRP3TF	BSR250GRP3	250x60	290	135x105	105x80	300	65	11

			mm	mm	mm	dyn. kg	mm
LSR080GRO	LSR080GROTF		80x25	100	13	80	40
LSR100GRO	LSR100GROTF		100x30	125	13	80	40
LSR125GRO	LSR125GROTF		125x38	155	13	100	47
LSR160GRO	LSR160GROTF		160x40	185	13	135	52
LSR180GRO	LSR180GROTF		180x45	220	13	170	54
LSR200GRO	LSR200GROTF		200x50	230	13	205	54

possibilities for fixation

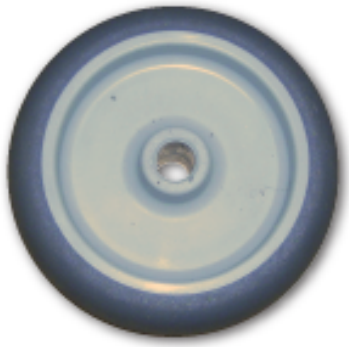


Solid rubber tyre, grey

on polyamide rim, 80° - 75° Shore, plain or ball bearing

- low resistance to rolling
- easy on floors
- Shore-hardness : 80-75°
- temperature resistant from -40° to +80°C
- grey tyre to prevent strong floor marks

Version: Wheel is available in flat, 80 - 75° Shore



		mm	mm	mm	kg	mm
	KU050/20/06 SC	50	20	22	40	6
	KU050/20/06	50	20	22	40	6
	KU050/20/08	50	20	22	40	8
	KU075/30/06 SC	75	25	28	60	6
	KU075/30/06	75	25	28	60	6
	KU075/30/08	75	25	28	60	8
	KU080/30/08	80	30	37	80	8
	KU100/25/06	100	25	29	80	6
	KU100/32/08	100	32	37	80	8
	KU125/25/08	125	25	29	80	8
	KU125/32/08	125	32	37	100	8
	KU150/32/08	150	32	37	110	8
	KU200/32/08	200	32	37	120	8
GL025/20/06		25	20	20	35	6
GL030/14/05		30	14	15	40	5
GL040/18/06		40	18	18	40	6
GL050/20/06		50	20	22	40	6
GL050/20/08		50	20	22	40	8
GL075/30/06		75	25	28	60	6
GL075/30/08		75	25	28	60	8
GL100/25/06		100	25	29	80	6
GL100/32/08		100	32	37	80	8
GL125/25/08		125	25	29	80	8
GL125/32/08		125	32	37	100	8
GL150/32/08		150	32	37	100	8

Apparatus castors with grey, solid rubber tyre

on polyamide rim, ball bearing, 80° - 75° Shore,



Wheel:
grey rubber wheel, on polyamide rim, ball bearing, flat tread
Description of properties: Page 3.6
Housing:

- made of galvanised sheet steel with double ball race at fork head

bold: version with black housing





			mm	mm	mm	mm	dyn. kg	mm	mm
LKS050KUPL SC	**LKS050KUPLTF SC**	**BKS050KUPL SC**	**50x20**	**73**	**60x60**	38X38/47X47	**40**	**25**	**6**
LKS050KUPL	LKS050KUPLTF	BKS050KUPL	50x20	73	60x60	38X38/47X47	40	25	6
LKS075KUPL SC	**LKS075KUPLTF SC**	**BKS075KUPL SC**	**75x25**	**100**	**60x60**	38X38/47X47	**60**	**30**	**6**
LKS075KUPL	LKS075KUPLTF	BKS075KUPL	75x25	100	60x60	38X38/47X47	60	28	6
LKS100KUPL	LKS100KUPLTF	BKS100KUPL	100x25	120	60x60	38X38/47X47	80	25	6
KLK080KUPL1	KLK080KUPL1TF	KBK080KUPL1	80x30	117	77x67	46x56 / 51x61	80	40	9
KLK080KUPL2	KLK080KUPL2TF	KBK080KUPL2	80x30	117	95x70	75x45 / 72x52	80	40	9
KLK100KUPL1	KLK100KUPL1TF	KBK100KUPL1	100x32	135	77x67	46x56 / 51x61	80	42	9
KLK100KUPL2	KLK100KUPL2TF	KBK100KUPL2	100x32	135	95x70	75x45 / 72x52	80	42	9
KLK125KUPL1	KLK125KUPL1TF	KBK125KUPL1	125x32	161	77x67	46x56 / 51x61	100	44	9
KLK125KUPL2	KLK125KUPL2TF	KBK125KUPL2	125x32	161	95x70	75x45 / 72x52	100	44	9
KLK150KUPL1	KLK150KUPL1TF	KBK150KUPL1	150x32	189	77x67	46x56 / 51x61	110	51	9
KLK150KUPL2	KLK150KUPL2TF	KBK150KUPL2	150x32	189	95x70	45x72 / 52x75	110	51	9




		mm	mm	mm	dyn. kg	mm
LKS050KUO SC	**LKS050KUOTF SC**	**50x20**	**71**	**10**	**40**	**25**
LKS050KUO	LKS050KUOTF	50x20	71	10	40	25
LKS075KUO SC	**LKS075KUOTF SC**	**75x23**	**100**	**10**	**60**	**30**
LKS075KUO	LKS075KUOTF	75x23	100	10	60	28
LKS100KUO	LKS100KUOTF	100x23	120	13	80	26
KLK080KUO10	KLK080KUO10TF	80x30	117	10	80	26
KLK080KUO12	KLK080KUO12TF	80x30	117	12	80	26
KLK100KUO10	KLK100KUO10TF	100x32	135	10	80	36
KLK100KUO12	KLK100KUO12TF	100x32	135	12	80	40
KLK125KUO10	KLK125KUO10TF	125x32	161	10	100	42
KLK125KUO12	KLK125KUO12TF	125x32	161	12	100	51
KLK150KUO10	KLK150KUO10TF	150x32	189	10	110	61
KLK150KUO12	KLK150KUO12TF	150x32	189	12	110	61

possibilities for fixation



Apparatus castors with grey, solid rubber tyre
on polyamide rim, plain bearing, 80° - 75° Shore,

Wheel:
grey rubber wheel, on polyamide rim, plain bearing
Description of properties: Page 3.6
Housing:
- made of galvanised sheet steel with double ball race at fork head

Version: Wheel is available in flat, 80 - 75° Shore



			mm	mm	mm	mm	dyn. kg	mm	mm
LKS025GLPL		BKS025GLPL	25x13	35	40x40	29x29	15	14	
LKS030GLPL		BKS030GLPL	30x15	37	40x40	29x29	20	14	
LKS040GLPL		BKS040GLPL	40x18	64	42x42	30x30	35	26	
LKS050GLPL	LKS050GLPLTF	BKS050GLPL	50x20	73	60x60	38X38/47X47	40	25	6
LKS075GLPL	LKS075GLPLTF	BKS075GLPL	75x25	100	60x60	38X38/47X47	60	28	6
LKS100GLPL	LKS100GLPLTF	BKS100GLPL	100x25	120	60x60	38X38/47X47	80	25	6
KLK080GLPL1	KLK080GLPL1TF	KBK080GLPL1	80x30	117	77x67	46x56 / 51x61	80	40	9
KLK080GLPL2	KLK080GLPL2TF	KBK080GLPL2	80x30	117	95x70	75x45 / 72x52	80	40	9
KLK100GLPL1	KLK100GLPL1TF	KBK100GLPL1	100x32	135	77x67	46x56 / 51x61	80	42	9
KLK100GLPL2	KLK100GLPL2TF	KBK100GLPL2	100x32	135	95x70	75x45 / 72x52	80	42	9
KLK125GLPL1	KLK125GLPL1TF	KBK125GLPL1	125x32	161	77x67	46x56 / 51x61	100	44	9
KLK125GLPL2	KLK125GLPL2TF	KBK125GLPL2	125x32	161	95x70	75x45 / 72x52	100	44	9
KLK150GLPL1	KLK150GLPL1TF	KBK150GLPL1	150x32	189	77x67	46x56 / 51x61	110	51	9
KLK150GLPL2	KLK150GLPL2TF	KBK150GLPL2	150x32	189	95x70	45x72 / 52x75	110	51	9

			mm	mm	mm	dyn. kg	mm
LKS050GLO	LKS050GLOTF		50x20	71	10	40	25
LKS075GLO	LKS075GLOTF		75x23	100	10	60	28
LKS100GLO	LKS100GLOTF		100x23	120	13	80	26
KLK080GLO10	KLK080GLO10TF		80x30	117	10	80	26
KLK080GLO12	KLK080GLO12TF		80x30	117	12	80	26
KLK100GLO10	KLK100GLO10TF		100x32	135	10	80	36
KLK100GLO12	KLK100GLO12TF	possibilities for fixation	100x32	135	12	80	40
KLK125GLO10	KLK125GLO10TF		125x32	161	10	100	42
KLK125GLO12	KLK125GLO12TF		125x32	161	12	100	51
KLK150GLO10	KLK150GLO10TF		150x32	189	10	110	61
KLK150GLO12	KLK150GLO12TF		150x32	189	12	110	61



Apparatus twin castors with grey, solid rubber tyre
on polyamide rim, ball bearing, 80° - 75° Shore,



Wheel:
grey rubber wheel,on polyamide rim, ball bearing
Description of properties: Page 3.6
Housing:

- made of galvanised sheet steel with double ball race at fork head

bold: version with black housing

			mm	mm	mm	mm	dyn. kg	mm	mm
LMKD025GLPL		**BMKD025GLPL**	**2x25x13**	**48**	**60x60**	38X38/47X47	**40**	**15**	**6**
LMKD030GLPL		**BMKD030GLPL**	**2x30x14**	**51**	**60x60**	38X38/47X47	**40**	**15**	**6**
LMKD035GLPL	**LMKD035GLPLTF**	**BMKD035GLPL**	**2x35x15**	**54**	**60x60**	38X38/47X47	**40**	**15**	**6**
LMKD040GLPL	**LMKD040GLPLTF**	**BMKD040GLPL**	**2x40x19**	**67**	**60x60**	38X38/47X47	**90**	**31**	**6**
LMKD050KUPL	**LMKD050KUPLTF**	**BMKD050KUPL**	**2x50x20**	**72**	**60x60**	38X38/47X47	**100**	**31**	**6**
LKD050KUPL SC	**LKD050KUPLTF SC**	**BKD050KUPL SC**	**2x50x20**	**73**	**60x60**	38X38/47X47	**60**	**25**	**6**
LKD050KUPL	LKD050KUPLTF	BKD050KUPL	2x50x20	73	60x60	38X38/47X47	60	25	6
LKD075KUPL SC	**LKD075KUPLTF SC**		**2x75x25**	**100**	**60x60**	38X38/47X47	**80**	**35**	**6**
LKD075KUPL	LKD075KUPLTF		2x75x25	100	60x60	38X38/47X47	80	28	6
LKD100KUPL	LKD100KUPLTF	BKD100KUPL	2x100x25	125	140x110	105x80	120	25	11



		mm	mm	mm	dyn. kg	mm
LMKD025GLO		**2x25x13**	**48**	**12**	**40**	**25**
LMKD030GLO		**2x30x14**	**51**	**12**	**40**	**25**
LMKD035GLO	**LMKD035GLOTF**	**2x35x15**	**54**	**12**	**40**	**25**
LMKD040GLO	**LMKD040GLOTF**	**2x40x19**	**67**	**12**	**90**	**28**
LMKD050KUO	**LMKD050KUOTF**	**2x50x20**	**72**	**12**	**100**	**28**
LKD050KUO SC	**LKD050KUOTF SC**	**2x50x20**	**71**	**10**	**40**	**25**
LKD050KUO	**LKD050KUOTF**	**2x50x20**	**71**	**10**	**40**	**25**
LKD075KUO SC	**LKD075KUOTF SC**	**2x75x25**	**100**	**10**	**80**	**35**
LKD075KUO	LKD075KUOTF	2x75x25	100	10	80	26
LKD100KUO	LKD100KUOTF	2x100x25	125	12	120	36

possibilities for fixation



Transport castors with grey, solid rubber tyre

on polyamide rim, ball bearing, 80° - 75° Shore,

Wheel:
grey rubber wheel,on polyamide rim, plain bearing
Description of properties: Page 3.6
Housing:

- made of galvanised sheet steel with double ball race at fork head

Version: Wheel is available in flat, 80 - 75° Shore



			mm	mm	mm	mm	dyn. kg	mm	mm
LKG080KUP1	LKG080KUP1TF	BKG080KUP1	80x30	100	105x85	80x60	80	37	9
LKG100KUP1	LKG100KUP1TF	BKG100KUP1	100x32	128	105x85	80x60	80	40	9
LKG100KUP3	LKG100KUP3TF	BKG100KUP3	100x32	125	135x105	105x80	80	45	11
LKG125KUP1	LKG125KUP1TF	BKG125KUP1	125x32	155	105x85	80x60	100	40	9
LKG125KUP3	LKG125KUP3TF	BKG125KUP3	125x32	155	135x105	105x80	100	44	11
LKG150KUPL1	LKG150KUPL1TF	BKG150KUPL1	150x32	185	77x67	61,5x51,5/ 56x46,5	100	40	9

			mm	mm	mm	dyn. kg	mm
LKG080KUO	LKG080KUOTF		80x30	100	13	80	40
LKG100KUO	LKG100KUOTF		100x32	128	13	80	40
LKG100KUO	LKG100KUOTF		100x32	125	13	80	40
LKG125KUO	LKG125KUOTF		125x32	155	13	100	40
LKG125KUO	LKG125KUOTF		125x32	155	13	100	47
LKG150KUO	LKG150KUOTF		150x32	180,5	13	110	51

possibilities for fixation



Turtles with double rubber wheels

on polyamide core, 80° Shore



Wheel:
rubber, polyamide core, ball bearing, flat tread
Description on page 3.5

Housing:
- galvanized steel

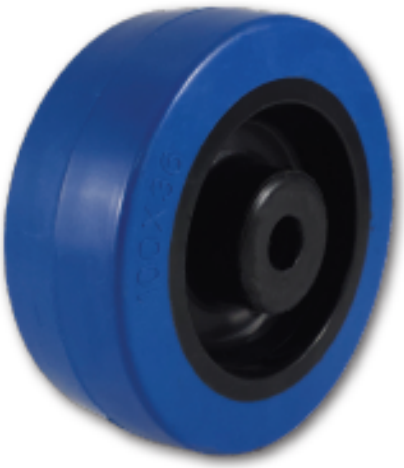
bold: version with black housing



	mm	mm	mm	mm	mm	kg	mm	mm
T5LMKD025GLP1/72	195 mm rund	2x25x13	72	105x85	80x60	200	239	9
TLMKD025GLP1/75	118x118x118	2x25x13	75	105x85	80x60	120	158	9
T5LMKD025GLP3/80	195 mm rund	2x25x13	80	135x105	105x80	200	239	11
TLMKD025GLP3/82	118x118x118	2x25x13	82	135x105	105x80	120	158	11
T5LMKD030GLP1/74	195 mm rund	2x30x14	74	105x85	80x60	200	241	9
TLMKD030GLP1/76	118x118x118	2x30x14	76	105x85	80x60	120	164	9
T5LMKD030GLP3/82	195 mm rund	2x30x14	82	135x105	105x80	200	241	11
TLMKD030GLP3/83	118x118x118	2x30x14	83	135x105	105x80	120	164	11
T5LMKD035GLP1/80	195 mm rund	2x35x15	80	105x85	80x60	200	278	9
TLMKD035GLP1/81	183x183x183	2x35x15	81	105x85	80x60	120	241	9
T5LMKD035GLP3/88	195 mm rund	2x35x15	88	135x105	105x80	200	278	11
TLMKD035GLP3/89	183x183x183	2x35x15	89	135x105	105x80	120	241	11
TLMKD040GLP1/96	183x183x183	2x40x19	96	105x85	80x60	270	234	9
TLMKD040GLP3/101	183x183x183	2x40x19	101	135x105	105x80	270	234	11
TLMKD050KUP1/101	183x183x183	2x50x20	101	105x85	80x60	300	254	9
TLMKD050KUP3/108	183x183x183	2x50x20	108	135x105	105x80	300	254	11
TLMKD050KUP3S/115	183x183x183	2x50x20	115	135x105	105x80	240	254	11
TLMKD075KUP3/130	250x250x250	2x75x25	130	135x105	105x80	240	381	11

Wheels for stage with elastic-rubber tyre

polyamide core, 70 - 65 ° Shore, roller bearing



- higher load capacity and elasticity than standard solid rubber and half elastic tyres
- tyre fits stabil because the rim is cured-on
- easy on floors
- very low resistance to rolling
- high resistance to rubbing
- very good running comfort
- temperature resistant from -40° to 80°C, short-term also to 100°C

Version: Wheel is available in flat, 70 - 65° Shore

			 mm	 mm	 mm	 kg	 mm
black tyre	blue tyre	grey tyre					
AGT080RO12SC			80	25	30	100	12
AGT100KU12SC	AGT100RO8L12	AGT100ROGR12	100	36	40	180	12
AGT100KU15SC			100	36	40	180	15
AGT100KU20SC			100	36	40	180	20
AGT125RO15SC	AGT125RO8L15	AGT125ROGR15	125	36	48	180	15
AGT160RO20SC	AGT160RO8L20	AGT160ROGR20	160	50	58	300	20
AGT160KU25SC			160	50	58	300	25
AGT200KU20SC	AGT200RO8L20	AGT200ROGR20	200	50	58	400	20
AGT200KU25SC			200	50	58	400	25
AGT200KU30SC			200	50	58	400	30
AGT250KU25SC	AGT250RO8L25	AGT250ROGR25	250	50	60	400	25

Wheels for stage with elastic-rubber tyre

cast aluminium core, 70 - 65° Shore, ball bearing

- higher load capacity and elasticity than standard solid rubber and half elastic tyres tyre fits stabil because the rim is cured-on
- easy on floors
- very low resistance to rolling
- high resistance to rubbing
- very good running comfort
- temperature resistant from -40° to 80°C, short-term also to 100°C

Version: Wheel is available in flat, 70 - 65° Shore












black tyre	grey tyre	blue tyre	mm	mm	mm	kg	mm
AG100KU12	AG100KG12	AG100KB12	100	40	40	180	12
AG100KU15	AG100KG15	AG100KB15	100	40	40	180	15
AG100KU20			100	40	40	180	20
AG125KU20	AG125KG20	AG125KB20	125	50	60	250	20
AG125KU25	AG125KG25	AG125KB25	125	50	60	250	25
AG125KU30	AG125KG30	AG125KB30	125	50	60	250	30
AG160KU20	AG160KG20	AG160KB20	160	50	60	300	20
AG160KU25	AG160KG25	AG160KB25	160	50	60	300	25
AG180KU20	AG180KG20	AG180KB20	180	50	60	350	20
AG180KU25	AG180KG25	AG180KB25	180	50	60	350	25
AG180KU30	AG180KG30	AG180KB30	180	50	60	350	30
AG200KU20	AG200KG20	AG200KB20	200	50	60	400	20
AG200KU25	AG200KG25	AG200KB25	200	50	60	400	25
AG200KU30	AG200KG30	AG200KB30	200	50	60	400	30
AG230KU25			230	50	60	450	25
AG250KU25			250	50	60	550	25
AG250/75KU25			250	75	82	600	25
AG300/60KU30			300	60	60	550	30
AG300/75KU25			300	75	82	700	25

Theatre transport castor w. elastic-rubber tyre
cast aluminium or polyamide core, 70 - 65° Shore



Wheel:
Elastic-rubber tyre, polyamide core, roller bearing, flat tread
Description of properties: Page 3.10

Housing:
- made of galvanised sheet steel with double ball race at fork head

bold: version with black housing





			mm	mm	mm	mm	dyn. kg	mm	mm
LAGTS080ROP1	**LAGTS080ROP1TF**	**BAGTS080ROP1**	**80x25**	**100**	**105x80**	**80x60**	**100**	**40**	**9**
LAGT080ROP1L	LAGT080ROP1TFL	BAGT080ROP1L	80x25	108	105x80	80x60	100	40	9
LAGT100ROP1	LAGT100ROP1TF	BAGT100ROP1	100x36	128	105x80	80x60	150	40	9
LAGTS100KUP1	**LAGTS100KUP1TF**	**BAGTS100KUP1**	**100x36**	**128**	**105x80**	**80x60**	**150**	**40**	**9**
LAGT100ROP3	LAGT100ROP3TF	BAGT100ROP3	100x36	125	140x110	105x80	150	48	11
LAG125KUP1	LAG125KUP1TF	BAG125KUP1	125x36	155	105x80	80x60	200	40	9
LAG125KUP3	LAG125KUP3TF	BAG125KUP3	125x36	155	140x110	105x80	250	47	13
LAG125KUP3A	LAG125KUP3TFA	BAG125KUP3A	125x36	165	140x110	105x80	250	45	13
LAG160KUP3	LAG160KUP3TF	BAG160KUP3	160x50	195	140x110	105x80	300	60	11
LAG180KUP3	LAG180KUP3TF	BAG180KUP3	180x50	225	140x110	105x80	350	60	11
LAG200KUP3	LAG200KUP3TF	BAG200KUP3	200x50	235	140x110	105x80	400	60	11





			mm	mm	mm	mm	dyn. kg	mm	mm
LAGT080ROP1-4RF			**80x25**	**103**	**105x80**	**80x60**	**100**	**40**	**9**
LAGT100KUP3-4RF	SLAGT080ROP3TFS	**BAGT100ROP3TF**	**100x36**	**125**	**140x110**	**105x80**	**150**	**48**	**11**
LAGT100KUP3-8RF			**100x36**	**125**	**140x110**	**105x80**	**150**	**48**	**11**
LAG125KUP3-4Fach	SLAG100ROP3TFS*	BAG125KUP3TF	125x36	155	140x110	105x80	250	47	11
LAG160KUP3-4Fach		BAG160KUP3TF	160x50	195	140x110	105x80	300	60	11
LAG180KUP3-4Fach	SLAG150KUP3TFS	BAG180KUP3TF	180x50	225	140x110	105x80	350	60	11
LAG200KUP3-4Fach	SLAG180KUP3TFS	BAG200KUP3TF	200x50	235	140x110	105x80	400	60	11

*also available with overall height 165 mm




			mm	mm	mm	dyn. kg	mm
LAGT080ROO	LAGT080ROOTF	possibilities for fixation	80x25	100	13	100	45
LAGT100KUO	LAGT100KUOTF		100x36	125	13	150	48
LAG125KUO	LAG125KUOTF		125x36	155	13	250	60
LAG160KUO	LAG160KUOTF		160x50	185	13	300	60
LAG180KUO	LAG180KUOTF		180x50	220	13	350	60
LAG200KUO	LAG200KUOTF		200x50	230	13	350	60



Heavy duty-castors with elastic-rubber tyre
cast aluminium core, 70 - 65° Shore



Wheel:
Elastic-rubber tyre, cast aluminium core, ball bearing
Description of properties: Page 3.11

Housing:
- made of galvanised sheet steel with double ball race at fork head

Version: Wheel is available in flat, 70 - 65° Shore





			mm	mm	mm	mm	dyn. kg	mm	mm
SLAGT080ROP1	SLAGT080ROP1TF	SBAGT080ROP1	80x25	120	105x85	80x60	100	40	9
SLAG100KUP1	SLAG100KUP1TF	SBAG100KUP1	100x40	130	105x80	80x60	180	40	9
SLAG100KUP3		SBAG100KUP3	100x40	148	135x110	105x80	180	40	11
SLAG125KUP3	SLAG125KUP3TF	SBAG125KUP3	125x40	178	135x110	105x80	250	50	11
SLAG160KUP3	SLAG160KUP3TF	SBAG160KUP3	160x50	215	135x110	105x80	300	53	11
SLAG180KUP3	SLAG180KUP3TF	SBAG180KUP3	180x50	235	135x110	105x80	350	53	11
SLAG200KUP3	SLAG200KUP3TF	SBAG200KUP3	200x50	245	135x110	105x80	400	55	11
SLAG250KUP3	SLAG250KUP3TF	SBAG250KUP3	250x50	298	135x110	105x80	550	74	11





			mm	mm	mm	mm	dyn. kg	mm	mm
SLAG100KUP3 + 2 RF	SLAG100KUP3TFS	SBAG100KUP3TF	100x40	148	135x105	105x80	180	40	9
SLAG125KUP3 + 2 RF	SLAG125KUP3TFS*	SBAG125KUP3TF	125x40	178	135x110	105x80	250	50	11
SLAG160KUP3 + 2 RF	SLAG160KUP3TFS	SBAG160KUP3TF	160x50	215	135x110	105x80	300	53	11
SLAG180KUP3 + 2 RF	SLAG180KUP3TFS	SBAG180KUP3TF	180x50	235	135x110	105x80	350	53	11
SLAG200KUP3 + 2 RF	SLAG200KUP3TFS	SBAG200KUP3TF	200x50	245	135x110	105x80	400	55	11

*also available with overall height 185 mm on demand




possibilities for fixation



		mm	mm	mm	dyn. kg	mm
SLAG080ROZ22R	SLAG080ROZ22RTF	80x25	114	22x50	100	36
SLAG100KUZ22R	SLAG100KUZ22RTF	100x40	131	22x50	180	36
SLAG125KUZ22R	SLAG125KUZ22RTF	125x40	161	22x50	250	45
SLAG180KUZ25R	SLAG180KUZ25RTF	180x50	234	25x65	350	57
SLAG200KUZ25R	SLAG200KUZ25RTF	200x50	244	25x65	400	57

Welded Heavy duty-castors w. elastic-rubber tyre

cast aluminium core, 70 - 65° Shore, ball bearing



Wheel:
Elastic-rubber tyre, cast aluminium core, ball bearing, flat tread
Description of properties: Page 3.11
Housing:

- welded housing with double ball race at fork head

bold: version with black housing

			mm	mm	mm	mm	dyn. kg	mm	mm
GLAG100KUP1	GLAG100KUP1TF	GBAG100KUP1	100x40	150	100x80	80x60	180	30	11
GLAG125KUP1	GLAG125KUP1TF	GBAG125KUP1	125x40	163	100x80	80x60	200	30	11
GLAG100KUP3		GBAG100KUP3	100x40	145	135x110	105x80	180	46	11
GLAG125KUP3	GLAG125KUP3TF	GBAG125KUP3	125x40	170	135x110	105x80	250	55	11
GLAG160KUP3	GLAG160KUP3TF	GBAG160KUP3	160x50	200	135x110	105x80	300	55	13
GLAG180KUP3	GLAG180KUP3TF	GBAG180KUP3	180x50	250	135x110	105x80	350	57	13
GLAG200KUP3	GLAG200KUP3TF	GBAG200KUP3	200x50	260	135x110	105x80	400	57	13
GLAG250KUP4	GLAG250KUP4FR	GBAG250KUP4	250x60	305	175x140	140x105	550	80	15



	mm	mm	mm	mm	dyn. kg	mm
GBAG100KUP3TF	100x40	145	135x110	105x80	180	9
GBAG125KUP3TF	125x40	170	135x110	105x80	250	11
GBAG160KUP3TF	160x50	200	135x110	105x80	300	11
GBAG180KUP3TF	180x50	250	135x110	105x80	350	11
GBAG200KUP3TF	200x50	260	135x110	105x80	400	11



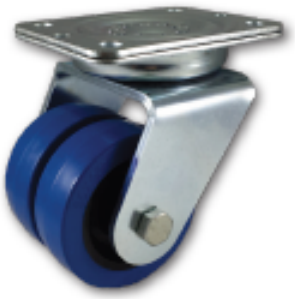
			mm	mm	mm	dyn. kg	mm
GLAG100KUZ22R	GLAG100KUZ22RTF	possibilities for fixation	100x40	150	22x50	180	36
GLAG125KUZ22R	GLAG125KUZ22RTF		125x40	175	22x50	250	45
GLAG180KUZ25R	GLAG180KUZ25RTF		180x50	250	25x65	350	57
GLAG200KUZ25R	GLAG200KUZ25RTF		200x50	260	25x65	400	57



Double Heavy duty-castors w. elastic-rubber tyre
cast aluminium core, 70 - 65° Shore, ball bearing

Wheel:
Elastic-rubber tyre, cast aluminium core, ball bearing, flat tread
Description of properties: Page 3.11
Housing:
- welded housing with double ball race at fork head

bold: version with black housing







			mm	mm	mm	mm	kg	mm	mm
LDAG125KUP3	LDAG125KUP3TF	BDAG125KUP3	2x125x40	170	138x110	105x80	500	50	11
LDAG125KUP4A	**LDAG125KUP4TFA**	**BDAG125KUP4**	**2x125x40**	**197**	**170x170**	**130x130**	**500**	**60**	**13**
LDAG160KUP4A		**BDAG160KUP4**	**2x160x50**	**250**	**200x200**	**160x160**	**600**	**72**	**17**
LDAG180KUP4		BDAG180KUP4	2x180x50	254	175x140	140x105	700	67	14
LDAG180KUP4A		**BDAG180KUP4**	**2x180x50**	**260**	**200x200**	**160x160**	**700**	**72**	**17**
LDAG200KUP4	LDAG200KUP4TF	BDAG200KUP4	2x200x50	264	175x140	140x105	800	67	14
LDAG200KUP4A	**LDAG200KUP4TFA**	**BDAG200KUP4**	**2x200x50**	**270**	**200x200**	**160x160**	**800**	**72**	**17**
LDAG250KUP4	LDAG250KUP4TF	BDAG250KUP4	2x250x50	314	175x140	140x105	1100	80	14
LDAG250KUP4A	**LDAG250KUP4TFA**	**BDAG250KUP4**	**2x250x50**	**320**	**230x230**	**190x190**	**1100**	**80**	**19**

Turtles with elastic-rubber tyre

cast aluminium core, 70 - 65° Shore, ball bearing



Wheel:
Elastic-rubber tyre, polyamide or cast core, roller bearing
Description of properties: Page 3.10
Housing:

- made of galvanised sheet steel with double ball race at fork head

bold: version with black housing



	mm	mm	mm	mm	mm	kg	mm	mm
TLAGT080ROP1/124	**250x250x250**	**80x25**	**124**	**105x85**	**80x60**	**300**	**387**	**9**
TLAGT080ROP3/133	**250x250x250**	**80x25**	**133**	**135x105**	**105x80**	**300**	**387**	**11**
TLAGT080ROP3/148	**250x250x250**	**80x25**	**148**	**135x105**	**105x80**	**300**	**387**	**9**
TLAGT080ROP1S/155	**300x300x300**	**80x25**	**155**	**105x85**	**80x60**	**300**	**428**	**11**
TLAGT080ROP3S/155	**300x300x300**	**80x25**	**155**	**135x105**	**105x80**	**300**	**428**	**11**
TLAGT100ROP3R/160	**Ø 380**	**100x36**	**160**	**135x105**	**105x80**	**450**	**500**	**9**
TLAGT100ROP3L/160	**300x300x300**	**100x36**	**160**	**135x105**	**105x80**	**450**	**456**	**11**
TLAGT100ROP3/164	**300x300x300**	**100x36**	**164**	**135x105**	**105x80**	**450**	**456**	**11**
TLAGT100ROP3/166	**300x300x300**	**100x36**	**166**	**135x105**	**105x80**	**450**	**456**	**11**
TLAGT100ROP3S/178	**300x300x300**	**100x36**	**178**	**135x105**	**105x80**	**450**	**456**	**11**
TSLAGT100ROP3S/185	**300x300x300**	**100x36**	**185**	**135x105**	**105x80**	**450**	**456**	**11**
TLAGT125KUP3/196	340x340x340	125x40	196	135x105	105x80	750	543	11
TLAGT125KUP3S/210	340x340x340	125x40	210	135x105	105x80	750	543	11
TSLAG125KUP3SS/221	550x550x550	125x40	221	135x105	105x80	750	670	11
TLAG160KUP3/240	550x550x550	160x50	240	135x105	105x80	900	716	11
TLAG160KUP3S/235	550x550x550	160x50	235	135x105	105x80	900	716	11
TLAG160KUP3SS/250	550x550x550	160x50	250	135x105	105x80	900	716	11
TSLAG160KUPS/259	550x550x550	160x50	259	190x170	150x135	900	716	11
TSLAG180KUPS/298	550x550x550	180x50	298	190x170	150x135	1000	751	11
TSLAG180KUPS/298	550x550x550	180x50	298	190x170	150x135	1000	751	15
TSLAG200KUPS/305	550x550x550	200x50	305	190x170	150x135	1000	785	15

Unbreakable pneumatic wheels

steel rim, 70 - 60° Shore, roller or ball bearing



ordinary good shock absorbing charasteristic
low resistance to rolling when used on difficult ground
easy on floors
high running comfort
temperature resistant from -10° to 80°C

Version: Wheel is available in flat, 70 - 60° Shore

		mm	mm	mm	dyn. kg	mm	Profile
ball bearing	roller bearing						
LPS180K20RN60	LPS180R20RN60	180	50	60	70	20	grooved
LPS200K20RN60	LPS200R20RN60	200	50	60	75	20	grooved
LPS210K20RN75	LPS210R20RN75	210	65	75	100	20	grooved
LPS210K20SN75	LPS210R20SN75	210	65	75	100	20	block
LPS220K20RN75	LPS220R20RN75	220	65	75	100	20	grooved
LPS220K20SN75	LPS220R20SN75	220	65	75	100	20	block
LPS220K25RN75	LPS220R25RN75	220	65	75	100	25	grooved
LPS220K25SN75	LPS220R25SN75	220	65	75	100	25	block
LPS260K20RN50	LPS260R20RN50	260	85	50	200	20	grooved
LPS260K20SN50	LPS260R20SN50	260	85	50	200	20	block
LPS260K25RN50	LPS260R25RN50	260	85	50	200	25	grooved
LPS260K25SN50	LPS260R25SN50	260	85	50	200	25	block
LPS260K20RN75	LPS260R20RN75	260	85	75	200	20	grooved
LPS260K20SN75	LPS260R20SN75	260	85	75	200	20	block
LPS260K25RN75	LPS260R25RN75	260	85	75	200	25	grooved
LPS260K25SN75	LPS260R25SN75	260	85	75	200	25	block
LPS400K20RN75	LPS400R20RN75	400	100	75	250	20	grooved
LPS400K20RN88	LPS400R20RN88	400	100	88	250	20	grooved
LPS400K25RN75	LPS400R25RN75	400	100	75	250	25	grooved
LPS400K25RN88	LPS400R25RN88	400	100	88	250	25	grooved
LPS400K20SN75	LPS400R20SN75	400	100	75	250	20	block
LPS400K20SN88	LPS400R20SN88	400	100	88	250	20	block
LPS400K25SN75	LPS400R25SN75	400	100	75	250	25	block
LPS400K25SN88	LPS400R25SN88	400	100	88	250	25	block

Transport castors w. unbreakable pneumatic tyre

steel rim, 70 - 60° Shore, roller or ball bearing



Wheel:
Unbreakable pneumatic wheels, steel rim, roller bearing
Description of properties: Page 3.17

Housing:
- made of galvanised sheet steel with double ball race at fork head

Version: Wheel is available in flat, 70 - 60° Shore





			mm	mm	mm	mm	dyn. kg	mm	mm
	roller bearing								
LLPS180ROP3	LLPS180ROP3TF	BLPS180ROP3	180x45	215	135x105	105x80	70	45	11
LLPS200ROP3	LLPS200ROP3TF	BLPS200ROP3	200x50	236	135x105	105x80	75	58	11
LLPS220ROP3	LLPS220ROP3TF	BLPS220ROP3	220x65	280	135x105	105x80	100	63	11
LLPS260ROP4	LLPS260ROP4TF	BLPS260ROP4*	260x85	295	175x175	140x140	200	70	14,5
LLPS4.00-4ROP4	LLPS4.00-4ROP4TF	BLPS4.00-4ROP4	300x100	408	150x150	125x125	250	82	11
LLPS400ROP4	LLPS400ROP4TF	BLPS400ROP4	400x100	480	150x150	125x125	250	82	11
	ball bearing								
LLPS180KUP3	LLPS180KUP3TF	BLPS180KUP3	180x45	215	135x105	105x80	70	45	11
LLPS200KUP3	LLPS200KUP3TF	BLPS200KUP3	200x50	236	135x105	105x80	75	58	11
LLPS220KUP3	LLPS220KUP3TF	BLPS220KUP3	220x65	280	135x105	105x80	100	63	11
LLPS260KUP4	LLPS260KUP4TF	BLPS260KUP4*	260x85	295	175x175	140x140	200	70	14,5
LLPS4.00-4KUP4	LLPS4.00-4KUP4TF	BLPS4.00-4KUP4	300x100	408	150x150	125x125	250	82	11
LLPS400KUP4	LLPS400KUP4TF	BLPS400KUP4	400x100	480	150x150	125x125	250	82	11

* plate size: 230x125 mm, bolt hole distance: 190x75 mm




		mm	mm	mm	dyn. kg	mm
roller bearing						
LLPS180ROO	LLPS180ROOTF	180x45	220	13	100	60
LLPS200ROO	LLPS200ROOTF	200x50	230	13	200	60
LLPS260ROZ	LLPS260ROZTF	260x85	298	25x55	150	85
ball bearing						
LLPS180KUO	LLPS180KUOTF	180x45	220	13	100	60
LLPS200KUO	LLPS200KUOTF	200x50	230	13	200	60
LLPS260KUZ	LLPS260KUZTF	260x85	298	25x55	150	85

possibilities for fixation



Unbreakable pneumatic wheels

polyamide core, roller or ball bearing, 70 - 60° Shore





- ordinary good shock absorbing charasteristic
- low resistance to rolling when used on difficult ground easy on floors
- high running comfort
- temperature resistant from -10° to 80°C

Version: Wheel is available in flat, 70 - 60° Shore



	mm	mm	mm	dyn. kg	mm	Profile
ball bearing						
LPG150K08RN35	150	30	35	60	8	grooved
LPG180K20RN60	180	50	60	70	20	grooved
LPG200K2..RN60	200	50	60	75	20/25	grooved
LPG220K2..RN75	220	65	75	100	20/25	grooved
LPG220K2..SN75	220	65	75	100	20/25	block
LPG260K2..RN75	260	85	75	150	20/25	grooved
LPG260K2..SN75	260	85	75	200	20/25	block



	mm	mm	mm	dyn. kg	mm	Profile
roller bearing						
LPN180R20RN60	180	50	60	70	20	grooved
LPN200R20RN60	200	50	60	75	20	grooved
LPN220R20RN75	220	65	75	100	20	grooved
LPN220R20SN75	220	65	75	100	20	block
LPN220R25RN75	220	65	75	100	25	grooved
LPN220R25SN75	220	65	75	100	25	block
LPN260R20RN75	260	85	75	200	20	grooved
LPN260R20SN75	260	85	75	200	20	block
LPN260R25RN75	260	85	75	200	25	grooved
LPN260R25SN75	260	85	75	200	25	block
LPN400R20RN75	400	100	75	250	20	grooved
LPN400R20RN88	400	100	88	250	20	grooved
LPN400R25RN75	400	100	75	250	25	grooved
LPN400R25RN88	400	100	88	250	25	grooved
LPN400R20SN75	400	100	75	250	20	block
LPN400R20SN88	400	100	88	250	20	block
LPN400R25SN75	400	100	75	250	25	block
LPN400R25SN88	400	100	88	250	25	block

Transport castors w. unbreakable pneumatic tyre
polyamide core, 70 - 60° Shore



Wheel:
Unbreakable pneumatic wheels, polyamide core, roller bearing
Description of properties: Page 3.19

Housing:
- made of galvanised sheet steel with double ball race at fork head

Version: Wheel is available in flat, 70 - 60° Shore





			mm	mm	mm	mm	dyn. kg	mm	mm
	roller bearing								
LLPN180ROP3	LLPN180ROP3TF	BLPN180ROP3	180x45	215	135x105	105x80	70	45	11
LLPN200ROP3	LLPN200ROP3TF	BLPN200ROP3	200x50	236	135x105	105x80	75	58	11
LLPN220ROP3	LLPN220ROP3TF	BLPN220ROP3	220x65	280	135x105	105x80	100	63	11
LLPN260ROP4	LLPN260ROP4TF	BLPN260ROP4*	260x85	295	175x175	140x140	200	70	14,5
LLPN400ROP4	LLPN400ROP4TF	BLPN400ROP4	400x100	480	150x150	125x125	250	82	11
	ball bearing								
LLPN180KUP3	LLPN180KUP3TF	BLPN180KUP3	180x45	215	135x105	105x80	70	45	11
LLPN200KUP3	LLPN200KUP3TF	BLPN200KUP3	200x50	236	135x105	105x80	75	58	11
LLPN220KUP3	LLPN220KUP3TF	BLPN220KUP3	220x65	280	135x105	105x80	100	63	11
LLPN260KUP4	LLPN260KUP4TF	BLPN260KUP4*	260x85	295	175x175	140x140	200	70	14,5
LLPN4.00-4KUP4	LLPN4.00-4KUP4TF	BLPN4.00-4KUP4	300x100	408	150x150	125x125	250	82	11
LLPN400KUP4	LLPN400KUP4TF	BLPN400KUP4	400x100	480	150x150	125x125	250	82	11

* plate size: 230x125 mm, bolt hole distance: 190x75 mm




		mm	mm	mm	dyn. kg	mm
roller bearing						
LLPN180ROO	LLPN180ROOTF	180x45	220	13	100	60
LLPN200ROO	LLPN200ROOTF	200x50	230	13	200	60
LLPN260ROZ	LLPN260ROZTF	260x85	298	25x55	150	85
ball bearing						
LLPN180KUO	LLPN180KUOTF	180x45	220	13	100	60
LLPN200KUO	LLPN200KUOTF	200x50	230	13	200	60
LLPN260KUZ	LLPN260KUZTF	260x85	298	25x55	150	85

possibilities for fixation



Super soft rubber wheel

on polyamide rim, ball bearing, 30° Shore



- ideal as protection wheel
- also for use as transport wheel for light duties

Version: Wheel is available in flat, 30° Shore

	mm	mm	mm	kg	mm
KPS080/30/08	80	30	37	50	8
KPS100/32/08	100	32	37	50	8
KPS125/32/08	125	32	37	60	8
KPS150/32/08	150	32	37	60	8

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Apparatus castors with grey, soft rubber tyre

on polyamide rim, ball bearing, 30° Shore



Wheel:
super soft grey rubber wheel,on polyamide rim, ball bearing
Description of properties: Page 3.22
Housing:

- made of galvanised sheet steel with double ball race at fork head
- in 50 and 75 mm wheel diameter. Also available with black
- coated housing

Version: Wheel is available in flat, 30 ° Shore





			mm	mm	mm	mm	dyn. kg	mm	mm
LKS050KWSPL	LKS050KWSPLTF	BKS050KWSPL	50x20	73	60x60	38X38/47X47	20	25	6
LKS075KWSPL	LKS075KWSPLTF	BKS075KWSPL	75x25	100	60x60	38X38/47X47	40	25	6
LKS100KWSPL	LKS100KWSPLTF	BKS100KWSPL	100x25	120	60x60	38X38/47X47	50	25	6
KLP080KWSPL1	KLP080KWSPL1TF	KBP080KWSPL1	80x30	117	77x67	46x56 / 51x61	50	40	6
KLP080KWSPL2	KLP080KWSPL2TF	KBP080KWSPL2	80x30	117	95x70	75x45 / 72x52	50	40	6
KLP100KWSPL1	KLP100KWSPL1TF	KBP100KWSPL1	100x32	135	77x67	46x56 / 51x61	50	42	9
KLP100KWSPL2	KLP100KWSPL2TF	KBP100KWSPL2	100x32	135	95x70	75x45 / 72x52	50	42	9
KLP125KWSPL1	KLP125KWSPL1TF	KBP125KWSPL1	125x32	161	77x67	46x56 / 51x61	60	44	9
KLP125KWSPL2	KLP125KWSPL2TF	KBP125KWSPL2	125x32	161	95x70	75x45 / 72x52	60	44	9
KLP150KWSPL1	KLP150KWSPL1TF	KBP150KWSPL1	150x32	189	77x67	46x56 / 51x61	60	51	9
KLP150KWSPL2	KLP150KWSPL2TF	KBP150KWSPL2	150x32	189	95x70	45x72 / 52x75	60	51	9




		mm	mm	mm	dyn. kg	mm
LKS050KWSO	LKS050KWSOTF	50x20	71	10	20	25
LKS075KWSO	LKS075KWSOTF	75x23	100	10	40	26
LKS100KWSO	LKS100KWSOTF	100x23	120	13	50	26
KLP080KWSO10	KLP080KWSO10TF	80x30	117	10	50	26
KLP080KWSO12	KLP080KWSO12TF	80x30	117	12	50	26
KLP100KWSO10	KLP100KWSO10TF	100x32	135	10	50	36
KLP100KWSO12	KLP100KWSO12TF	100x32	135	12	50	40
KLP125KWSO10	KLP125KWSO10TF	125x32	161	10	60	42
KLP125KWSO12	KLP125KWSO12TF	125x32	161	12	60	51
KLP150KWSO10	KLP150KWSO10TF	150x32	189	10	60	61
KLP150KWSO12	KLP150KWSO12TF	150x32	189	12	60	61

possibilities for fixation



Apparatus twin castors with grey, soft rubber tyre
on polyamide rim, ball bearing, 30° Shore



Wheel:
super soft grey rubber wheel,on polyamide rim, ball bearing
Description of properties: Page 3.22
Housing:

- made of galvanised sheet steel with double ball race at fork head
- in 50 and 75 mm wheel diameter. Also available with black
- coated housing

Version: Wheel is available in flat, 30° Shore

			mm	mm	mm	mm	kg	mm	mm
LKDM050KWSPL	LKDM050KWSPLTF	BKDM050KWSPL	2x50x20	72	60x60	38X38/47X47	40	31	6
LKD075KWSPL	LKD075KWSPLTF		2x75x25	100	60x60	38X38/47X47	80	25	6
LKD100KWSPL	LKD100KWSPLTF	BKD100KWSPL	2x100x25	125	140x110	105x80	100	25	11
LKD125KWSPL	LKD125KWSPLTF	BKD125KWSPL	2x125x25	163	140x110	105x80	120	25	11

			mm	mm	mm	kg	mm
LKDM050KWSO	LKDM050KWSOTF	possibilities for fixation	2x50x20	71	10	40	25
LKD075KWSO	LKD075KWSOTF		2x75x25	100	10	80	26
LKD100KWSO	LKD100KWSOTF		2x100x25	125	12	200	36
LKD125KWSO	LKD125KWSOTF		2x125x25	163	12	200	40



Transport castors with grey, soft rubber tyre
on polyamide rim, ball bearing, 30° Shore

Wheel:
super soft grey rubber wheel,on polyamide rim, ball bearing
Description of properties: Page 3.22
Housing:

- made of galvanised sheet steel with double ball race at fork head
- in 80 and 100 mm wheel diameter also available with black coated housing

Version: Wheel is available in flat, 30° Shore



			mm	mm	mm	mm	dyn. kg	mm	mm
LKG080KWSP1	LKG080KWSP1TF	BKG080KWSP1	80x30	100	105x85	80x60	50	37	9
LKG100KWSP1	LKG100KWSP1TF	BKG100KWSP1	100x32	128	105x85	80x60	50	40	9
LKG100KWSP3	LKG100KWSP3TF	BKG100KWSP3	100x32	125	135x105	105x80	50	45	11
LKG125KWSP1	LKG125KWSP1TF	BKG125KWSP1	125x32	155	105x85	80x60	60	40	9
LKG125KWSP3	LKG125KWSP3TF	BKG125KWSP3	125x32	155	135x105	105x80	60	44	11
LKG150KWSPL1	LKG150KWSPL1TF	BKG150KWSPL1	150x32	180,5	95x70	75x45/72x52	60	51	9

			mm	mm	mm	dyn. kg	mm
LKG080KWSO	LKG080KWSOTF	possibilities for fixation	80x30	100	13	50	40
LKG100KWSO	LKG100KWSOTF		100x32	128	13	50	40
LKG125KWSO	LKG125KWSOTF		125x32	155	13	60	40
LKG150KWSO	LKG150KWSOTF		150x32	180,5	13	60	51



Pneumatic wheels

steel rim, 70 - 60° Shore, roller or ball bearing





good shock absorbing characteristic
low resistance to rolling when used on difficult ground
easy on floors
high running comfort
temperature resistant from -10° to 80°C

Version: Shore-hardness: variable according to tyre pressure





roller bearing	ball bearing	mm	mm	mm	dyn. kg	mm	Profile
LS180R20RN60	LS180K20RN60	180	50	60	70	20	grooved2PR
LS200R20RN60	LS200K20RN60	200	50	60	75	20	grooved2PR
LS210R20RN75	LS210K20RN75	210	65	75	100	20	grooved2PR
LS210R20SN75	LS210K20SN75	210	65	75	100	20	block 2PR
LS220R20RN75	LS220K20RN75	220	65	75	100	20	Military
LS220R20SN75	LS220K20SN75	220	65	75	100	20	Military
LS220R25RN75	LS220K25RN75	220	65	75	100	25	Military
LS220R25SN75	LS220K25SN75	220	65	75	100	25	block 2PR
LS260R20RN50	LS260K20RN50	260	85	50	200	20	grooved2PR
LS260R20SN50	LS260K20SN50	260	85	50	200	20	block 2PR
LS260R25RN50	LS260K25RN50	260	85	50	200	25	grooved2PR
LS260R25SN50	LS260K25SN50	260	85	50	200	25	block 2PR
LS260R20RN75	LS260K20RN75	260	85	75	200	20	grooved2PR
LS260R20SN75	LS260K20SN75	260	85	75	200	20	block 2PR
LS260R25RN75	LS260K25RN75	260	85	75	200	25	grooved2PR
LS260R25SN75	LS260K25SN75	260	85	75	200	25	block 2PR
LS4.00-4R20RN75	LS4.00-4K20RN75	315	110	75	250	20	grooved2PR
LS4.00-4R20SN75	LS4.00-4K20SN75	315	110	75	250	20	block 2PR
LS4.00-4R25RN75	LS4.00-4K25RN75	315	110	75	250	25	grooved2PR
LS4.00-4R25SN75	LS4.00-4K25SN75	315	110	75	250	25	block 2PR
LS400R20RN75	LS400K20RN75	400	100	75	250	20	grooved2PR
LS400R20RN88	LS400K20RN88	400	100	88	250	20	grooved2PR
LS400R25RN75	LS400K25RN75	400	100	75	250	25	grooved2PR
LS400R25RN88	LS400K25RN88	400	100	88	250	25	grooved2PR
LS400R20SN75	LS400K20SN75	400	100	75	250	20	block 2PR
LS400R20SN88	LS400K20SN88	400	100	88	250	20	block 2PR
LS400R25SN75	LS400K25SN75	400	100	75	250	25	block 2PR
LS400R25SN88	LS400K25SN88	400	100	88	250	25	block 2PR
LS4.00-8R20SN75	LS4.00-8K20SN75	400	100	75	250	20	block 6PR
LS4.00-8R20SN88	LS4.00-8K20SN88	400	100	88	250	20	block 6PR
LS4.00-8R25SN75	LS4.00-8K25SN75	400	100	75	250	25	block 6PR
LS4.00-8R25SN88	LS4.00-8K25SN88	400	100	88	250	25	block 6PR
LS5.00-8R20SN75	LS5.00-8K20SN75	465	30	75	350	20	block 6PR
LS5.00-8R20SN88	LS5.00-8K20SN88	465	30	88	350	20	block 6PR
LS5.00-8R25SN75	LS5.00-8K25SN75	465	30	75	350	25	block 6PR
LS5.00-8R25SN88	LS5.00-8K25SN88	465	30	88	350	25	block 6PR

Transport castors with pneumatic tyre
steel rim, 70 - 60° Shore, roller or ball bearing



Wheel:
Pneumatic wheels, steel rim, roller bearing
Description of properties: Page 3.25

Housing:
- made of galvanised sheet steel with double ball race at fork head

Version: Shore-hardness: variable according to tyre pressure





			mm	mm	mm	mm	kg	mm	mm
	roller bearing								
LLS180ROP3	LLS180ROP3TF	BLS180ROP3	180x45	215	135x105	105x80	70	45	11
LLS200ROP3	LLS200ROP3TF	BLS200ROP3	200x50	236	135x105	105x80	75	58	11
LLS220ROP3	LLS220ROP3TF	BLS220ROP3	220x65	280	135x105	105x80	100	63	11
LLS260ROP4	LLS260ROP4TF	BLS260ROP4*	260x85	295	175x175	140x140	200	70	14,5
LLS4.00-4ROP4	LLS4.00-4ROP4TF	BLS4.00-4ROP4	300x100	408	150x150	125x125	250	82	11
LLS400ROP4	LLS400ROP4TF	BLS400ROP4	400x100	480	150x150	125x125	250	82	11
	ball bearing								
LLS180KUP3	LLS180KUP3TF	BLS180KUP3	180x45	215	135x105	105x80	70	45	11
LLS200KUP3	LLS200KUP3TF	BLS200KUP3	200x50	236	135x105	105x80	75	58	11
LLS220KUP3	LLS220KUP3TF	BLS220KUP3	220x65	280	135x105	105x80	100	63	11
LLS260KUP4	LLS260KUP4TF	BLS260KUP4*	260x85	295	175x175	140x140	200	70	14,5
LLS4.00-4KUP4	LLS4.00-4KUP4TF	BLS4.00-4KUP4	300x100	408	150x150	125x125	250	82	11
LLS400KUP4	LLS400KUP4TF	BLS400KUP4	400x100	480	150x150	125x125	250	82	11




		mm	mm	mm	kg	mm
roller bearing						
LLS180ROO	LLS180ROOTF	180x45	220	13	100	60
LLS200ROO	LLS200ROOTF	200x50	230	13	200	60
LLS260ROZ	LLS260ROZTF	260x85	298	25x55	150	85
ball bearing						
LLS180KUO	LLS180KUOTF	180x45	220	13	100	60
LLS200KUO	LLS200KUOTF	200x50	230	13	200	60
LLS260KUZ	LLS260KUZTF	260x85	298	25x55	150	85

possibilities for fixation



Pneumatic wheels

polyamide core, roller or ball bearing





good shock absorbing characteristic
low resistance to rolling when used on difficult ground
easy on floors
high running comfort
temperature resistant from -10° to 80°C

Version: Shore-hardness: variable according to tyre pressure



	mm	mm	mm	dyn. kg	mm	Profile
ball bearing						
LG150K08RN35	150	30	35	60	8	grooved
LG180K20RN60	180	50	60	70	20	grooved
LG200K2..RN60	200	50	60	75	20/25	grooved
LG220K2..RN75	220	65	75	100	20/25	Military
LG220K2..SN75	220	65	75	100	20/25	Military
LG260K2..RN75	260	85	75	200	20/25	grooved
LG260K2..SN75	260	85	75	200	20/25	block





		mm	mm	mm	dyn. kg	mm	Profile
plain bearing	ball bearing						
LN180G20RN60	LN180R20RN60	180	50	60	70	20	grooved
LN200G20RN60	LN200R20RN60	200	50	60	75	20	grooved
LN220G20RN75	LN220R20RN75	220	65	75	100	20	Military
LN220G20SN75	LN220R20SN75	220	65	75	100	20	Military
LN220G25RN75	LN220R25RN75	220	65	75	100	25	Military
LN220G25SN75	LN220R25SN75	220	65	75	100	25	block
LN260G20RN75	LN260R20RN75	260	85	75	200	20	grooved
LN260G20SN75	LN260R20SN75	260	85	75	200	20	block
LN260G25RN75	LN260R25RN75	260	85	75	200	25	grooved
LN260G25SN75	LN260R25SN75	260	85	75	200	25	block
LN400G20RN75	LN400R20RN75	400	100	75	250	20	grooved
LN400G20RN88	LN400R20RN88	400	100	88	250	20	grooved
LN400G25RN75	LN400R25RN75	400	100	75	250	25	grooved
LN400G25RN88	LN400R25RN88	400	100	88	250	25	grooved
LN400G20SN75	LN400R20SN75	400	100	75	250	20	block
LN400G20SN88	LN400R20SN88	400	100	88	250	20	block
LN400G25SN75	LN400R25SN75	400	100	75	250	25	block
LN400G25SN88	LN400R25SN88	400	100	88	250	25	block

Transport castors with pneumatic tyre
polyamide core, roller or ball bearing



Wheel:
Pneumatic wheels, polyamide core, roller bearing
Description of properties: Page 3.25

Housing:
- made of galvanised sheet steel with double ball race at fork head

Version: Shore-hardness: variable according to tyre pressure





			mm	mm	mm	mm	dyn. kg	mm	mm
roller bearing									
LLN180ROP3	LLN180ROP3TF	BLN180ROP3	180x45	215	135x105	105x80	70	45	11
LLN200ROP3	LLN200ROP3TF	BLN200ROP3	200x50	236	135x105	105x80	75	58	11
LLN220ROP3	LLN220ROP3TF	BLN220ROP3	220x65	280	135x105	105x80	100	63	11
LLN260ROP4	LLN260ROP4TF	BLN260ROP4*	260x85	295	175x175	140x140	200	70	14,5
ball bearing									
LPG150KUP1	LPG150KUP1TF	BPG150KUP1	150x32	180,5	95x70	75x45/72x52	60	51	9
LPG180KUP3	LPG180KUP3TF	BPG180KUP3	180x45	215	135x105	105x80	75	45	11
LPG200KUP3	LPG200KUP3TF	BPG200KUP3	200x50	236	135x105	105x80	75	58	11
LPG220KUP3	LPG220KUP3TF	BPG220KUP3	220x65	280	135x105	105x80	100	63	11
LPG260KUP4	LPG260KUP4TF	BPG260KUP4*	260x85	295	175x175	140x140	200	70	14,5

* plate size: 230x125 mm, bolt hole distance: 190x75 mm




		mm	mm	mm	dyn. kg	mm
roller bearing						
LLN180ROO	LLN180ROOTF	180x45	220	13	100	60
LLN200ROO	LLN200ROOTF	200x50	230	13	200	60
LLN260ROZ	LLN260ROZTF	260x85	298	25x55	150	85
ball bearing						
LPG180KUO	LPG180KUOTF	180x45	220	13	100	60
LPG200KUO	LPG200KUOTF	200x50	230	13	200	60
LPG260KUZ	LPG260KUZTF	260x85	298	25x55	150	85

possibilities for fixation



Polyamide wheel

with plain, roller or ball bearing



- high elastic recovery (inferior permanent deformation during idle time)
- non-marking and traceless of floor
- resistant to diluted bases and acids
- oil- and grease-resistant

Version: Wheel is available in flat, 100 ° Shore

		 mm	 mm	 mm	 kg	 mm
plain bearing	roller bearing					
NY025/14/04		25	14	14,5	10	5
NY030/15/04		30	15	16	15	6
NY035/18/06		35	18	21,5	25	5
NY038/17/06		38	18	19	20	6
NY040/18/06		40	18,5	21	30	6
NY045/18/06		45	18,5	21,5	35	6
NY050/18/06		50	19	20	50	6
NY050/18/08		50	19	22	50	8
NY050/20/08		50	18	20	75	10
NY050/40/10		50	40	40	150	10
NY058W25GL10	NY058W25RO10	58	29	31	100	10
NY065/30/12		65	30	30	200	12
NY065/30/15		65	30	30	200	15
NY065W30GL12	NY065W30RO12	65	30	40	100	12
NY075/23/08		75	23,5	27,5	50	8
NY080/36/15		80	36	36	250	15
NY080W30GL12	NY080RO12	80	30	36	125	12



plain bearing	roller bearing	mm	mm	mm	kg	mm
NY100/24/08		100	24,5	29,5	60	8
NY100/30/12		100	30	30	250	12
NY100/30/15		100	30	30	250	15
NY100/32/12		100	32	35	150	12
NY100/40/12		100	40	40	350	12
NY100/40/15		100	40	40	350	15
NY100/40/20		100	40	40	350	20
NY100W35GL12	NY100RO12	100	35	40	125	12
NY125/32/12		125	35	36	200	12
NY125/45/20		125	45	45	550	20
NY125/45/25		125	45	45	550	25
NY125/45/30		125	45	45	550	30
NY125W35GL15	NY125RO15	125	35	47	150	15
NY150/45/20		150	50	50	800	20
NY150/45/25		150	50	50	800	25
NY150/45/30		150	50	50	800	25
NY150W40GL20		150	40	50	300	20
NY150W43GL20	NY150RO20	150	43	58	400	20
NY160W40GL15		160	40	50	400	15
NY160W40GL20	NY160RO20	160	40	58	400	20
NY175W45GL20	NY175RO20	175	45	58	400	20
NY200/50/20		200	50	50	1000	20
NY200/50/25		200	50	50	1000	25
NY200/50/30		200	50	50	1000	30
NY200W50GL20	NY200RO20	200	50	60	500	20
NY250W50GL20	NY250RO25	250	50	58	700	25

Heavy polyamide wheel
with plain, roller or ball bearing



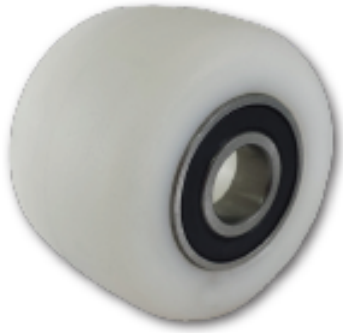
- high elastic recovery (inferior permanent deformation during idle time)
- non-marking and traceless of floor
- resistant to diluted bases and acids
- oil- and grease-resistant

Version: Wheel is available in flat or convex, 100° Shore

 plain bearing	 roller bearing	 ball bearing	mm	mm	mm	kg	mm
SNY080GL12	SNY080RO12	SNY080KU12	80	35	40	250	12
SNY100GL20	SNY100RO20	SNY100KU12	100	45	58	500	20
SNY125GL20	SNY125RO20	SNY125KU15	125	45	58	600	20
SNY150GL20	SNY150RO20	SNY150KU20	150	45	58	700	20
SNY175GL20	SNY175RO20	SNY175KU20	160	50	58	800	20
SNY200GL20	SNY200RO20	SNY200KU20	200	50	58	1000	20
SNY250GL25	SNY250RO25	SNY250KU25	250	50	65	1000	25

Pallet truck rollers made of polyamide

with ball bearing

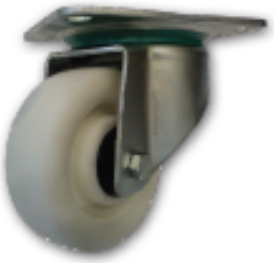


Description of properties: Page 3.29

Version: Wheel is available in flat, 100° Shore

bore hole 15 mm	bore hole 20 mm	bore hole 25 mm					
			 mm	 mm	 mm	 kg	 mm
HNY070/70/70/15			70	70	70	500	15
	HNY075/50/50/20		75	50	50	550	20
HNY075/75/75/15			75	75	75	550	15
	HNY080/54/60/20	HNY080/54/60/25	80	54	60	400	20/25
	HNY080/57/61/20	HNY080/57/61/25	80	57	61	400	20/25
	HNY080/70/74/20	HNY080/70/74/25	80	70	74	450	20/25
	HNY080/80/80/20		80	80	80	800	20
	HNY080/90/90/20		80	90	90	900	20
	HNY082/50/50/20	HNY082/50/50/25	82	50	50	500	20/25
	HNY082/60/60/20	HNY082/60/60/25	82	60	60	450	20/25
	HNY082/70/70/20	HNY082/70/70/25	82	70	70	550	20/25
	HNY082/70/74/20	HNY082/70/74/25	82	70	74	500	20/25
	HNY082/75/75/20	HNY082/75/75/25	82	75	75	550	20/25
	HNY082/80/80/20	HNY082/80/80/25	82	80	80	600	20/25
	HNY082/90/90/20	HNY082/90/90/25	82	90	90	900	20/25
	HNY082/98/105/20	HNY082/98/105/25	82	98	105	700	20/25
	HNY082/100/104/20	HNY082/100/104/25	82	100	104	700	20/25
	HNY085/40/40/20		85	40	40	400	20
	HNY085/46/50/20	HNY085/46/50/25	85	46	50	350	20/25
	HNY085/50/50/20		85	50	50	350	20
	HNY085/60/65/20		85	60	65	450	20
	HNY085/75/75/20		85	75	75	550	20
	HNY085/80/80/20	HNY085/80/80/25	85	80	80	800	20/25
	HNY085/80/85/20		85	80	85	600	20
	HNY085/86/88/20		85	86	88	600	20
		HNY085/90/90/25	85	90	90	700	25
	HNY085/95/100/20		85	95	100	750	20
	HNY085/100/100/20	HNY085/100/100/25	85	100	100	1000	20/25
	HNY085/100/102/20		85	100	102	800	20
		HNY085/105/110/25	85	105	110	800	25
		HNY085/110/114/25	85	110	114	850	25

Transport castor with polyamide wheel
with plain or ball bearing



Wheel:
polyamide wheel with plain or ball bearing, flat or convex
Description of properties: Page 3.29
Housing:

- made of galvanised sheet steel with double ball race at fork head

bold: version with black housing





			mm	mm	mm	mm	dyn. kg	mm	mm
LMNY033KUPL	**LMNY033KUPLTF**	**BNY033GLPL**	**33x27**	**51**	**60x60**	**38x38/47x47**	**100**	**15**	**6**
LMNY050GLPL	**LMNY050GLPLTF**	**BMNY050GLPL**	**50x40**	**72**	**60x60**	**38x38/47x47**	**150**	**31**	**6**
LMNY050GLPLS	**LMNY050GLPLSTF**	**BNY050GLPLS**	**50x40**	**82**	**80x80**	**60x60**	**150**	**31**	**9**
LNY065KUP1	**LNY065KUP1TF**	**BNY065KUP1**	**65x30**	**95**	**105x80**	**80x60**	**200**	**40**	**9**
LNY080KUP1	**LNY080KUP1TF**	**BNY080KUP1**	**80x36**	**100**	**105x80**	**80x60**	**200**	**40**	**9**
LNY080KUP3	**LNY080KUP3TF**	**BNY080KUP3**	**80x36**	**115**	**140x110**	**105x80**	**250**	**48**	**11**
LNY100KUP1	**LNY100KUP1TF**	**BNY100KUP1**	**100x40**	**128**	**105x80**	**80x60**	**320**	**40**	**9**
LNY100KUP3	**LNY100KUP3TF**	**BNY100KUP3**	**100x40**	**125**	**140x110**	**105x80**	**400**	**48**	**11**
LNY125KUP1	LNY125KUP1TF	BNY125KUP1	125x45	155	105x80	80x60	320	40	9
LNY125KUP3	LNY125KUP3TF	BNY125KUP3	125x45	155	140x110	105x80	500	47	11
LNY125KUP3A	LNY125KUP3TFA	BNY125KUP3A	125x45	165	140x110	105x80	500	45	13
LNY150KUP3	LNY150KUP3TF	BNY150KUP3	150x45	185	140x110	105x80	500	60	11
LNY200KUP3	LNY200KUP3TF	BNY200KUP3	200x50	235	140x110	105x80	500	60	11





			mm	mm	mm	mm	dyn. kg	mm	mm
LNY050KUPL-4Fach			50x40	82	80x80	60x60	150	37	9
LNY065KUP1-4Fach			**65x30**	**95**	**105x80**	**80x60**	**150**	**40**	**9**
LNY080KUP1-4Fach			**80x36**	**106**	**105x80**	**80x60**	**200**	**40**	**9**
LNY080KUP3-4Fach		**BNY080KUP3TF**	**80x36**	**115**	**140x110**	**105x80**	**250**	**48**	**9**
LNY080KUP3-8Fach			**80x36**	**115**	**140x110**	**105x80**	**250**	**48**	**9**
LNY100KUP3-4Fach	SLNY080KUP3TFS	**BNY100KUP3TF**	**100x40**	**125**	**140x110**	**105x80**	**350**	**48**	**11**
LNY100KUP3-8Fach			**100x40**	**125**	**140x110**	**105x80**	**350**	**48**	**11**
LNY125KUP3-4Fach	SLNY100KUP3TFS*	BNY125KUP3TF	125x45	155	140x110	105x80	500	47	11
LNY150KUP3-4Fach	SLNY125KUP3TFS**	BNY150KUP3TF	150x45	185	140x110	105x80	500	60	11
LNY200KUP3-4Fach	SLNY180KUP3TFS	BNY200KUP3TF	200x50	235	140x110	105x80	500	60	11

*overall height is 148 mm, also available with overall height 165 mm ** also available with overall height 178 mm on demand




			mm	mm	mm	dyn. kg	mm
LMNY033GLO	**LMNY033GLOTF**		**35x27**	**51**	**10**	**100**	**15**
LNY050GLO	**LNY050GLOTF**		**50x18**	**73**	**11**	**50**	**25**
LMNY050GLOS	**LMNY050GLOTFS**	possibilities for fixation	**50x40**	**80**	**13**	**150**	**37**
LNY065KUO	**LNY065KUOTF**		**65x30**	**92**	**13**	**180**	**40**
LNY080KUO	**LNY080KUOTF**		**80x36**	**100**	**13**	**180**	**45**
LNY100KUO	**LNY100KUOTF***		**100x40**	**125***	**13**	**350**	**48**
LNY125KUOA	LNY125KUOTFA		125x45	155	13	170	60
LNY150KUOA	LNY150KUOTFA		150x45	180	13	350	60
LNY200KUO	LNY200KUOTF		200x50	230	13	350	60



* overall height of LNY100KUOTF is 128 mm, plates for compensating the height are available on request

Heavy duty castor with polyamide wheel
with ball bearing

Wheel:
polyamide wheel with plain or ball bearing
Description of properties: Page 3.29
Housing:

- made of galvanised sheet steel with double ball race at fork head



Version: Wheel is available in flat or convex, 100° Shore





			mm	mm	mm	mm	kg	mm	mm
SLNY080KUP1	SLNY080KUP1TF	SBNY080KUP1	80x36	117	105x85	80x60	250	40	9
SLNY100KUP1	SLNY100KUP1TF	SBNY100KUP1	100x40	130	105x80	80x60	350	40	9
SLNY100KUP3		SBNY100KUP3	100x40	148	135x110	105x80	350	40	11
SLNY125KUP3	SLNY125KUP3TF	SBNY125KUP3	125x45	178	135x110	105x80	500	50	11
SLNY150KUP3	SLNY150KUP3TF	SBNY150KUP3	150x45	210	135x110	105x80	660	53	11
SLNY200KUP3	SLNY200KUP3TF	SBNY200KUP3	200x50	245	135x110	105x80	1000	55	11
SLNY250KUP3	SLNY250KUP3TF	SBNY250KUP3	250x50	298	135x110	105x80	800	74	11





			mm	mm	mm	mm	kg	mm	mm
SLNY100KUP3 + 2 RF	SLNY100KUP3TFS	SBNY100KUP3TF	100x40	148	135x105	105x80	350	40	11
SLNY125KUP3 + 2 RF	SLNY125KUP3TFS*	SBNY125KUP3TF	125x45	178	135x110	105x80	500	50	11
SLNY150KUP3 + 2 RF	SLNY150KUP3TFS	SBNY150KUP3TF	150x45	210	135x110	105x80	660	53	11
SLNY200KUP3 + 2 RF	SLNY200KUP3TFS	SBNY200KUP3TF	200x50	245	135x110	105x80	1000	55	11

*also available with overall height 185 mm on demand




			mm	mm	mm	kg	mm
SLNY080KUZ22R	SLNY080KUZ22RTF	possibilities for fixation	80x30	114	22x50	150	36
SLNY100KUZ22R	SLNY100KUZ22RTF		100x30	131	22x50	175	36
SLNY125KUZ22R	SLNY125KUZ22RTF		125x40	161	22x50	300	45
SLNY150KUZ22R	SLNY150KUZ22RTF		150x40	184	22x50	400	50
SLNY200KUZ25R	SLNY200KUZ25RTF		200x50	244	25x65	550	57



Welded heavy duty castors with polyamide wheel

with ball bearing



Wheel:
polyamide wheel with plain or ball bearing
Description of properties: Page 3.29
Housing:
- welded housing with double ball race at fork head

bold: version with black housing

			mm	mm	mm	mm	dyn. kg	mm	mm
GLNY065KUP1		GBNY065KUP1	65x30	132,5	100x85	80x60	200	35	11
GLNY080KUP1		GBNY080KUP1	80x40	140	100x85	80x60	250	35	11
GLNY100KUP1	GLNY100KUP1TF	GBNY100KUP1	100x40	150	100x85	80x60	295	35	11
GLNY080KUP3		GBNY080KUP3	80x80	130	135x110	105x80	600	68	13
GLNY082KUP3		GBNY082KUP3	82x80	133	135x110	105x80	600	68	13
GLNY085KUP3		GBNY085KUP3	85x80	135	135x110	105x80	600	68	13
GLNY100KUP3	GLNY100KUP3TF	GBNY100KUP3	100x40	145	135x110	105x80	400	35	11
GLNY125KUP3	GLNY125KUP3TF	GBNY125KUP3	125x45	175	135x110	105x80	400	45	13
GLNY150KUP3	GLNY150KUP3TF	GBNY150KUP3	150x50	205	135x110	105x80	650	50	13
GLNY180KUP3	GLNY180KUP3TF	GBNY180KUP3	180x50	250	135x110	105x80	900	57	13
GLNY200KUP3	GLNY200KUP3TF	GBNY200KUP3	200x50	260	135x110	105x80	1100	57	13
GLNY250KUP4	GLNY250KUP4FR	GBNY250KUP4	250x60	305	175x140	140x105	1400	80	15



	mm	mm	mm	mm	dyn. kg	mm	mm
GBNY100KUP3TF	100x40	145	135x110	105x80	350	-	11
GBNY125KUP3TF	125x45	170	135x110	105x80	550	-	11
GBNY150KUP3TF	150x45	205	135x110	105x80	750	-	11
GBNY200KUP3TF	200x50	260	135x110	105x80	1000	-	11



			mm	mm	mm	dyn. kg	mm
GLNY100KUZ22R	GLNY100KUZ22RTF		100x40	150	22x50	350	36
GLNY125KUZ22R	GLNY125KUZ22RTF	possibilities for fixation	125x45	175	22x50	500	45
GLNY150KUZ22R	GLNY150KUZ22RTF		150x45	205	22x50	750	50
GLNY200KUZ25R	GLNY200KUZ25RTF		200x50	260	25x65	1000	57



Double castors with polyamide wheel

with plain or ball bearing



Wheel:
polyamide wheel with plain or ball bearing
Description of properties: Page 3.29
Housing:

- made of galvanised sheet steel with double ball race at fork head

bold: version with black housing





			mm	mm	mm	mm	dyn. kg	mm	mm
LDMNY030GLPL	**LDMNY030GLPLTF**	**BDMNY030GLPL**	**2x30x14**	**50**	**60x60**	38X38/47X47	**80**	**15**	**6**
LDMNY033GLPL	**LDMNY033GLPLTF**	**BDMNY033GLPL**	**2x33x14**	**51**	**60x60**	38X38/47X47	**80**	**15**	**6**
LDMNY036GLPL	**LDMNY036GLPLTF**	**BDMNY036GLPL**	**2x36x15**	**54**	**60x60**	38X38/47X47	**80**	**31**	**6**
LDMNY040GLPL	**LDMNY040GLPLTF**	**BDMNY040GLPL**	**2x40x19**	**67**	**60x60**	38X38/47X47	**100**	**31**	**6**
LDMNY045GLPL	**LDMNY045GLPLTF**	**BDMNY045GLPL**	**2x45x19**	**70**	**60x60**	38X38/47X47	**110**	**31**	**6**
LDMNY050KUPL	**LDMNY050KUPLTF**	**BDMNY050KUPL**	**2x50x20**	**72**	**60x60**	38X38/47X47	**150**	**31**	**6**
LDMNY050KUPLS	**LDMNY050KUPLSTF**	**BDNY050KUPLS**	**2x50x20**	**82**	**80x80**	**60x60**	**150**	**31**	**9**
LDNY080KUP3		**BDNY080KUP3**	**2x80x25**	**115**	**135x105**	**105x80**	**250**	**48**	**11**
LDNY100KUP3	**LDNY100KUP3TF**	**BDNY100KUP3**	**2x100x25**	**125**	**135x105**	**105x80**	**400**	**48**	**11**
LDNY100KUP1		**BDNY100KUP1**	**2x100x25**	**128**	**105x80**	**80x60**	**320**	**40**	**9**
LDNY100KUP3S		BDNY100KUP3S	2x100x25	148	138x110	105x80	590	35	11
LDNY125KUP3		BDNY125KUP3	2x125x45	170	138x110	105x80	1100	50	11
LDNY125KUP4A	**LDNY125KUP4TFA**	**BDNY125KUP4A**	**2x125x40**	**197**	**170x170**	**130x130**	**750**	**60**	**13**
LDNY150KUP4		BDNY150KUP4	2x150x50	212	175x140	140x110	1600	55	12
LDNY150KUP4A	**LDNY150KUP4TFA**	**BDNY150KUP4A**	**2x150x40**	**210**	**170x170**	**130x130**	**1000**	**60**	**13**
LDNY180KUP4		BDNY180KUP4	2x180x50	255	175x140	140x110	1700	65	12
LDNY180KUP4A	**LDNY180KUP4TFA**	**BDNY180KUP4A**	**2x180x50**	**260**	**200x200**	**160x160**	**1800**	**72**	**17**
LDNY200KUP4		BDNY200KUP4	2x200x50	265	175x140	140x110	2000	67	12
LDNY200KUP4A	**LDNY200KUP4TFA**	**BDNY200KUP4A**	**2x200x50**	**270**	**200x200**	**160x160**	**2000**	**72**	**17**



	mm	mm	mm	mm	dyn. kg	mm	mm
LDNY050KUPL-4Fach	2x50x20	82	80x80	60x60	150	37	9
LDNY080KUP3-4Fach	**2x80x25**	**115**	**140x110**	**105x80**	**300**	**48**	**11**
LDNY080KUP3-8Fach	**2x80x25**	**115**	**140x110**	**105x80**	**300**	**48**	**11**
LDNY100KUP3-4Fach	**2x100x25**	**125**	**140x110**	**105x80**	**350**	**48**	**11**
LDNY100KUP3-8Fach	**2x100x25**	**125**	**140x110**	**105x80**	**350**	**48**	**11**
LDNY125KUP3-4Fach	2x125x25	155	140x110	105x80	500	47	11




			mm	mm	mm	dyn. kg	mm
LDMNY050GLO	**LDMNY050GLOTF**		**2x50x20**	**71**	**12**	**150**	**25**
LDNY080KUO		possibilities for fixation	**2x80x25**	**115**	**13**	**300**	**48**
LDNY100KUO	**LDNY100KUOTF***		**2x100x25**	**125***	**13**	**350**	**60**
LDNY125KUOA	**LDNY125KUOTFA**		**2x125x25**	**150**	**13**	**170**	**60**



* overall height of LDNY100KUOTF is 128 mm, plates for compensating the height are available on request.

Turtles with polyamide wheels
with plain or ball bearing



Wheel:
polyamide wheel with plain or ball bearing
Description of properties: Page 3.29
Housing:
- made of galvanised sheet steel with double ball race at fork head

bold: version with black housing



	mm	mm	mm	mm	mm	dyn. kg	mm	mm
T5LMNY033GLP1/76	**Ø 195**	**33x27**	**76**	**105x85**	**80x60**	**450**	**240**	**9**
TLMNY035GLP1/76	**118x118x118**	**33x27**	**76**	**105x85**	**80x60**	**300**	**241**	**9**
T5LMNY035GLP3/85	**Ø 195**	**33x27**	**85**	**135x105**	**105x80**	**500**	**240**	**11**
TLMNY035GLP3/85	**118x118x118**	**33x27**	**85**	**135x105**	**105x80**	**300**	**241**	**11**
TLMNY035GLP3S/95	**118x118x118**	**33x27**	**95**	**135x105**	**105x80**	**300**	**241**	**11**
TLMNY050KUP1/101	**183x183x183**	**50x40**	**101**	**105x85**	**80x60**	**450**	**254**	**9**
TLMNY050KUP3/108	**183x183x183**	**50x40**	**108**	**135x105**	**105x80**	**450**	**254**	**11**
TLMNY050KUP3S/115	**183x183x183**	**50x40**	**115**	**135x105**	**105x80**	**450**	**254**	**11**
TLMNY050KUP1S/101	**210x210x210**	**50x40**	**101**	**105x85**	**80x60**	**450**	**318**	**9**
TLMNY050KUP3S/108	**210x210x210**	**50x40**	**108**	**135x105**	**105x80**	**450**	**318**	**11**
TLMNY050KUP3SS/115	**210x210x210**	**50x40**	**115**	**135x105**	**105x80**	**450**	**318**	**11**
TLNY065KUP3/125	**250x250x250**	**65x30**	**125**	**135x105**	**105x80**	**500**	**364**	**11**
TLNY065KUP1/116	**250x250x250**	**65x30**	**116**	**105x85**	**80x60**	**450**	**364**	**9**
TLNY065KUP1/125	**250x250x250**	**65x30**	**125**	**105x85**	**80x60**	**450**	**364**	**9**
TLNY065KUP1S/128	**250x250x250**	**65x30**	**128**	**105x85**	**80x60**	**450**	**364**	**9**
TLNY080KUP1/124	**250x250x250**	**80x36**	**124**	**105x85**	**80x60**	**450**	**387**	**9**
TLNY080KUP3/133	**250x250x250**	**80x36**	**133**	**135x105**	**105x80**	**500**	**387**	**11**
TLNY080KUP3/148	**250x250x250**	**80x36**	**148**	**135x105**	**105x80**	**500**	**387**	**11**
TLNY080KUP1S/155	**300x300x300**	**80x36**	**155**	**105x85**	**80x60**	**450**	**428**	**9**
TLNY080KUP3S/155	**300x300x300**	**80x36**	**155**	**135x105**	**105x80**	**600**	**428**	**11**
TLNY100KUP3R/160	**Ø 380**	**100x40**	**160**	**135x105**	**105x80**	**600**	**500**	**11**
TLNY100KUP3L/160	**300x300x300**	**100x40**	**160**	**135x105**	**105x80**	**600**	**456**	**11**
TLNY100KUP3/164	**300x300x300**	**100x40**	**164**	**135x105**	**105x80**	**600**	**456**	**11**
TLNY100KUP3/166	**300x300x300**	**100x40**	**166**	**135x105**	**105x80**	**1000**	**456**	**11**
TLNY100KUP3S/178	**300x300x300**	**100x40**	**178**	**135x105**	**105x80**	**1000**	**456**	**11**
TSLNY100KUP3S/185	**300x300x300**	**100x40**	**185**	**135x105**	**105x80**	**1000**	**456**	**11**
TLNY125KUP3/196	340x340x340	125x45	196	135x105	105x80	1000	543	11
TLNY125KUP3S/210	340x340x340	125x45	210	135x105	105x80	1000	543	11
TSLNY125KUP3SS/221	550x550x550	125x45	221	135x105	105x80	1000	670	11
TLNY150KUP3/235	550x550x550	150x45	235	135x105	105x80	600	716	11
TLNY150KUP3S/230	550x550x550	150x45	230	135x105	105x80	1000	716	11
TLNY150KUP3SS/245	550x550x550	150x45	245	135x105	105x80	1000	716	11
TSLNY150KUPS/259	550x550x550	150x45	259	190x170	150x135	2000	716	15
TSLNY200KUPS/305	550x550x550	200x50	305	190x170	150x135	2000	785	15

Turtles with double polyamide wheels
with plain or ball bearing



Wheel:
polyamide wheel with plain or ball bearing
Description of properties: Page 3.29
Housing:
- made of galvanised sheet steel with double ball race at fork head

bold: version with black housing

	mm	mm	mm	mm	mm	dyn. kg	mm	mm
T5LDMNY025GLP1/70	Ø 195	2x25x14	70	105x85	80x60	210	239	9
TLDMNY025GLP1/73	118x118x118	2x25x14	73	105x85	80x60	210	158	9
T5LDMNY025GLP3/78	Ø 195	2x25x14	78	135x105	105x80	210	239	11
TLDMNY025GLP3/80	118x118x118	2x25x14	80	135x105	105x80	210	158	11
T5LDMNY030GLP1/72	Ø 195	2x30x14	72	105x85	80x60	240	241	9
TLDMNY030GLP1/74	118x118x118	2x30x14	74	105x85	80x60	240	164	9
T5LDMNY030GLP3/80	Ø 195	2x30x14	80	135x105	105x80	240	241	11
TLDMNY030GLP3/82	118x118x118	2x30x14	82	135x105	105x80	240	164	11
T5LDMNY033GLP1/77	Ø 195	2x33x14	77	105x85	80x60	270	277	9
TLDMNY033GLP1/79	183x183x183	2x33x20	79	105x85	80x60	270	241	9
T5LDMNY033GLP3/86	Ø 195	2x33x14	86	135x105	105x80	270	277	11
TLDMNY033GLP3/87	183x183x183	2x33x20	87	135x105	105x80	270	241	11
TLDMNY040GLP1/96	183x183x183	2x40x20	96	105x85	80x60	300	234	9
TLDMNY040GLP3/101	183x183x183	2x40x20	101	135x105	105x80	300	234	11
TLDMNY045GLP1/98	183x183x183	2x45x20	98	105x85	80x60	300	240	9
TLDMNY045GLP3/103	183x183x183	2x45x20	103	135x105	105x80	330	240	11
TLDMNY050KUP1/101	183x183x183	2x50x20	101	105x85	80x60	450	254	9
TLDMNY050KUP3/108	183x183x183	2x50x20	108	135x105	105x80	450	254	11
TLDMNY050KUP3S/115	183x183x183	2x50x20	115	135x105	105x80	450	254	11
TLDMNY050KUP1S/101	210x210x210	2x50x20	101	105x85	80x60	450	318	9
TLDMNY050KUP3S/108	210x210x210	2x50x20	108	135x105	105x80	450	318	11
TLDMNY050KUP3SS/115	210x210x210	2x50x20	115	135x105	105x80	450	318	11
TLDNY065KUP3/125	250x250x250	2x65x20	125	135x105	105x80	500	364	11
TLDNY065KUP1/116	250x250x250	2x65x20	116	105x85	80x60	450	364	9
TLDNY065KUP1/125	250x250x250	2x65x20	125	105x85	80x60	450	364	9
TLDNY065KUP1S/128	250x250x250	2x65x20	128	105x85	80x60	450	364	9
TLDNY080KUP1/124	250x250x250	2x80x20	124	105x85	80x60	450	387	9
TLDNY080KUP3/133	250x250x250	2x80x20	133	135x105	105x80	500	387	11
TLDNY080KUP3/148	250x250x250	2x80x20	148	135x105	105x80	500	387	11
TLDNY080KUP1S/155	300x300x300	2x80x20	155	105x85	80x60	450	428	9
TLDNY080KUP3S/155	300x300x300	2x80x20	155	135x105	105x80	600	428	11
TLDNY100KUP3R/160	Ø 380	2x100x25	160	135x105	105x80	600	500	11
TLDNY100KUP3L/160	300x300x300	2x100x25	160	135x105	105x80	600	456	11
TLDNY100KUP3/164	300x300x300	2x100x25	164	135x105	105x80	600	456	11
TLDNY100KUP3/166	300x300x300	2x100x25	166	135x105	105x80	1000	456	11
TLDNY100KUP3S/178	300x300x300	2x100x25	178	135x105	105x80	1000	456	11
TSLDNY100KUP3S/185	300x300x300	2x100x25	185	135x105	105x80	1000	456	11
TLDNY125KUP3/196	340x340x340	2x125x25	196	135x105	105x80	1000	543	11
TLDNY125KUP3S/210	340x340x340	2x125x25	210	135x105	105x80	1000	543	11
TSLDNY125KUP3SS/221	550x550x550	2x125x25	221	135x105	105x80	1000	670	11
TLDNY150KUP3/235	550x550x550	2x125x25	235	135x105	105x80	600	716	11
TLDNY150KUP3S/230	550x550x550	2x150x30	230	135x105	105x80	1000	716	11
TLDNY150KUP3SS/245	550x550x550	2x150x30	245	135x105	105x80	1000	716	11
TSLDNY150KUPS/259	550x550x550	2x150x30	259	190x170	150x135	2000	716	15

- **Special constructions**
- **pneumatic lifting systems**
- **Brake systems**

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Axles, Locating rings, wheels with axles

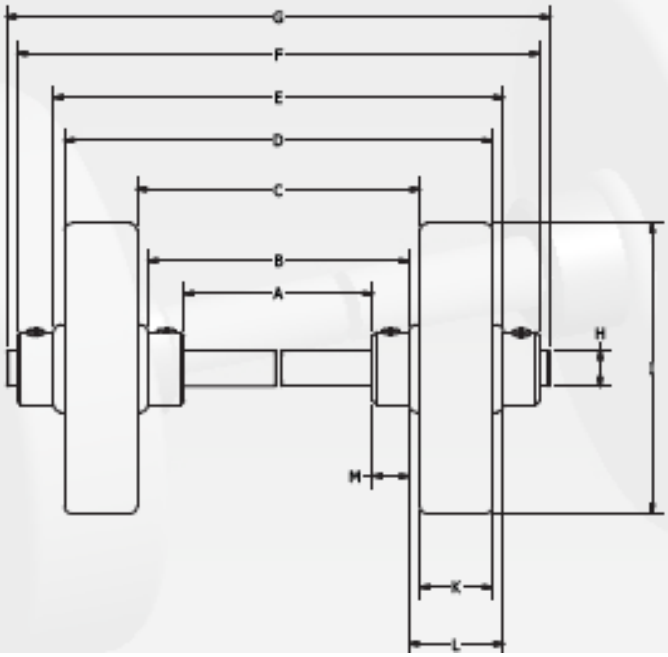


Axles made of steel	
code:	axle diameter (mm)
Achse 10	10
Achse 12	12
Achse 15	15
Achse 20	20
Achse 25	25
Achse 30	30
Achse 40	40



Locating rings made of steel			
code:	outside diameter (mm)	length (mm)	inside diameter (mm)
Stell 15	25	12	15
Stell 20	32	14	20
Stell 25	40	17	25
Stell 30	45	17	30
Stell 35	56	16	35

Wheels with axles available on demand



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Thrust ball bearings, axle supports



H135x105 HD



H138x109 S

Thrust ball bearings made of steel

code:	mm	mm	mm	mm	dyn. kg
H57x57 (twin plate)	10,5	6,5	57x57	43x43	50
H95x70 (twin plate)	19,5	6,5	95x70	75x45	280
H135x105 HD (twin plate)	34,5	11,0	135x105	105x75	1000
H105x85 H	22,0	8,5	105x85	80x60	450
H110x110 H	22,0	8,5	110x110	90x90	450
H105x85	19,0	9,0	105x85	80x60	450
H125x125 H	22,0	11,0	125x125	75x75	450
H135x105 H	24,0	11,0	135x105	105x75/80	600
H138x109	26,0	11,0	138x109	105x75/80	600
H138x109 S	28,5	11,0	138x109	105x75/80	1000
H135x105 SH	28,5	11,0	135x105	105x75/80	1400
H190x170	34,0	16,0	190x170	150x135	2000





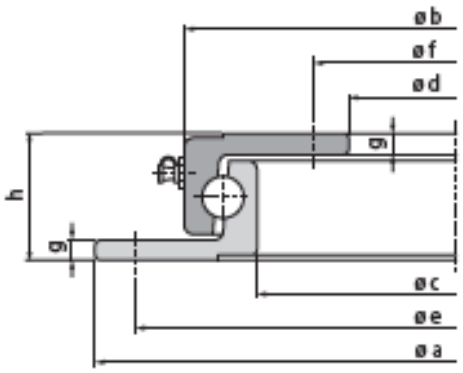
Axle supports made of steel

code:	axle diameter (mm)	height (mm)	plate (mm)	screw distance (mm)
AB 20	20	50	80x34	52
AB 25	25	62	92x40	64
AB 30	30	62	90x40	64

Rotating assemblies

0,75 to 4,5 t axial load capacity





For farm carts and transport equipment with speed up to 30 km/h

Ident. No	Code	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	ball Ø mm	weight kg	axial load t
107291001	400L	400	342	292	230	375	260	8	45	14	11	0,75
107291002	500L	500	442	392	330	475	360	8	45	14	15	0,9
107291003	650L	650	592	542	480	625	510	8	45	14	20	1,5
107291004	750L	750	692	642	580	725	610	8	45	14	23	1,8
107291005	850L	850	792	742	680	825	710	8	45	14	27	2,5
107291006	950L	950	892	842	780	925	810	8	45	14	30	3,0
107291007	1050L	1050	992	942	880	1025	910	8	45	14	34	3,5

For heavy farm carts and light truck trailers with speed over 30 km/h

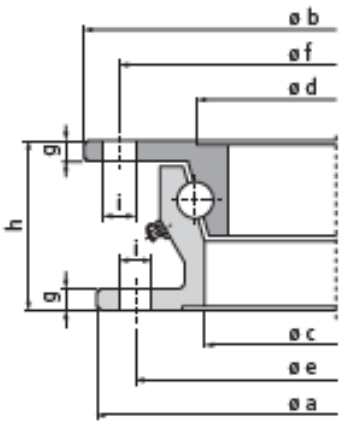
Ident. No	Code	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	ball Ø mm	weight kg	axial load* t
107291008	500N	500	437	384	315	475	340	8	52	16	17	1,8
107291009	650N	650	587	534	465	625	490	8	52	16	23	2,5
107291010	750N	750	687	634	565	725	590	8	52	16	28	3,0
107291192	850N	850	787	734	665	825	690	8	52	16	32	3,5
107291061	950N	950	887	834	765	925	790	8	52	16	36	4,0
107291013	1050N	1050	987	934	865	1025	890	8	52	16	40	4,5

* the permissible axial load increases by 30-50% at a speed below 30 km/h

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Rotating assemblies

3 to 14 t axial load capacity



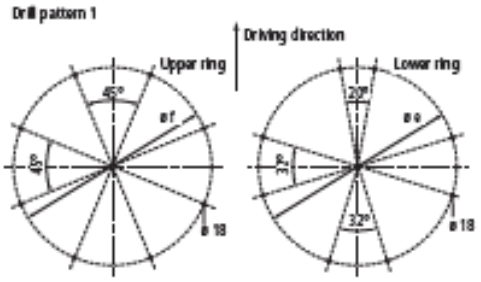


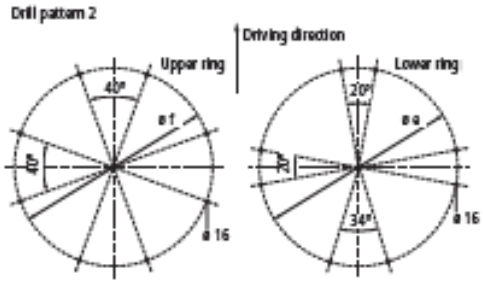
For two and three axle trailers over 25 km/h, undrilled

Ident. No	Code	a mm	b mm	c mm	d mm	e mm	f mm	height g mm	height h mm	weight kg	axial load t
107291014	HE 4	685	700	590	573	657	671	9	80	32	3,0
107291130	HE 6-1000	1000	1015	905	888	972	986	9	80	48	6,0
107291131	HE 12-1000	1000	1011	886	862	960	974	10	90	63	7,0
107291135	HE 18-1000	1000	1011	886	859	960	974	10	90	63	8,0
107291022	HE 1000-22	1000	1011	886	859	960	974	10	90	63	10,0
107291141	HE 1300-22	1300	1311	1186	1159	1260	1274	10	90	84	14,0

For two and three axle trailers over 25 km/h, drilled

Ident. No	Code	Drill pattern	Drill hole Ø i mm	a mm	b mm	c mm	d mm	e mm	f mm	height g mm	height h mm	weight kg	axial load t
107291015	HE 5	2	16	880	895	785	768	852	866	9	80	43	5,0
107291017	HE 6	1	18	1090	1105	995	978	1060	1074	9	80	52	6,5
107291133	HE 12	1	18	1100	1111	986	959	1060	1074	10	90	69	8,0
107291137	HE 18	1	18	1100	1111	986	959	1060	1074	10	90	69	10,0
107291023	HE 1100-22	1	18	1100	1111	986	959	1060	1074	10	90	69	12,0
107291024	HE 1200-22	1	18	1200	1211	1086	1059	1160	1174	10	90	76	13,0





Multi-Castors



OKRB035



OKRB035FUSS



OKRA035



OKRA050



OKRB050



OKRB050TF



OKRB100



OKRB100TF

- Fast directional change - easier steering than traditional castors
- Glide smoothly over carpet, wood & marble floors
- Multiple drain channels expel debris & fluids
- Effortlessly convey delicate materials with minimal damage

Code:	Ball-Ø (mm)	Height (mm)	Load (kg)
OKRB035	35	71,5	30
OKRB035FUSS	35	70	30
OKRA035	35	60	30
OKRA050	50	77	60
OKRB050	50	84	60
OKRB050TF	50	84	60
OKRB100	104	151,5	80
OKRB100TF	104	151,5	80

Fixing options for OKRB035(FUSS):

Countersunk M10



Q12

M8x13



Q13

M10x16



Q14

3/8"x45/64"



Q15

10x27 mm



Q16

11x18 mm



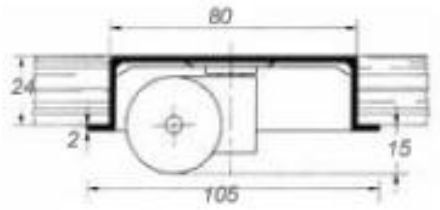
Q17

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Roller inserts

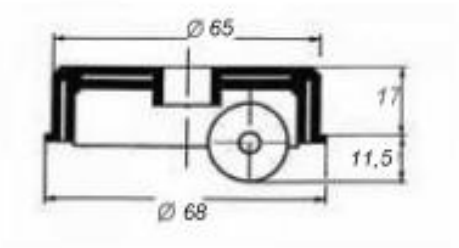
For installation in flake boards (for example for desks and furniture trolleys, case legs) and for very low total heights.

Type 2902-065 has 2 different total heights by changing the postion of the wheel



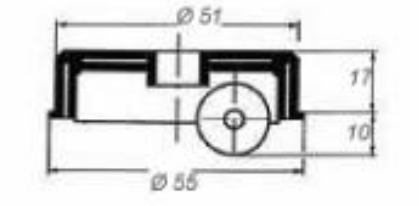


Code: 2900-080





Code: 2902-065

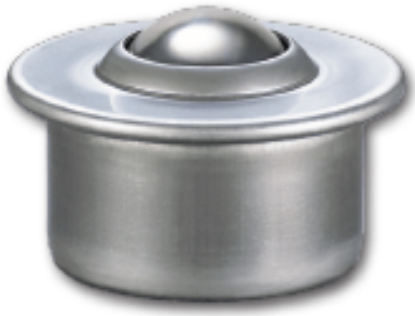


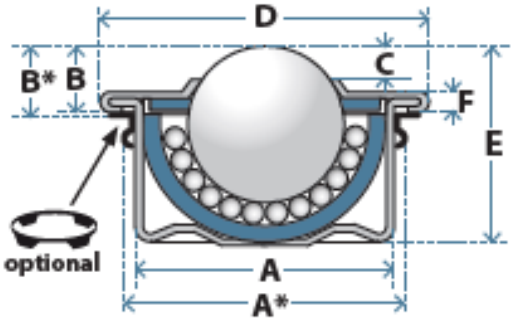


Code: 2903-051

Code:	Wheel:	mm	mm	dyn. kg
2900-080	soft, rubber	80	15	50
2902-065	hard, polyamide	65	9,5 / 11,5	50
2903-051	hard, polyamide	50	10	50

Ball units

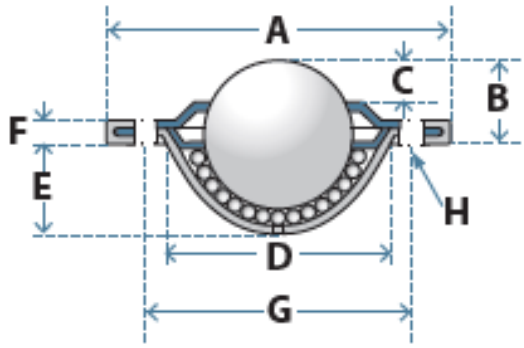




	Standard		A		D		SS								
	Carbon steel balls, zinc plated pressings		Stainless steel balls, zinc plated pressings		Nylon load ball, zinc plated pressings		Stainless steel balls & pressings								
Code	Load (kg)	Weight (kg)	Load (kg)	Weight (kg)	Load (kg)	Weight (kg)	Load (kg)	Weight (kg)	ball Ø (mm)	A	B(*)	C	D	E	F
RBL15	60	0,041	60	0,039	10	0,026	40	0,039	15	24	9,5	4,6	31	21	2,8
RBL22	160	0,128	160	0,125	20	0,088	90	0,125	22	36	9,8	3,9	45	29,5	2,9
RBL30	280	0,253	280	0,249	25	0,154	200	0,271	30	45	13,8	6,8	55	37	3,6
RBL45	600	0,72	550	0,71	NA	–	260	0,71	45	62	19	9	75	53,5	4

All variants with 22 mm & 30 mm main balls feature a felt seal.





	Standard		A		D		SS									
	Carbon steel balls, zinc plated pressings		Stainless steel balls, zinc plated pressings		Nylon load ball, zinc plated pressings		Stainless steel balls & pressings									
Code	Load (kg)	Weight (kg)	Load (kg)	Weight (kg)	Load (kg)	Weight (kg)	Load (kg)	Weight (kg)	ball Ø (mm)	A	B	C	D	E	F	G	H
RBLD16	15	0,045	10	0,044	10	0,03	NA	0,031	15	41	10,8	5	24	8,5	3,2	30	2 x 3,4
RBLD19	25	0,09	25	0,089	20	0,063	25	0,086	19	61	10	3,2	29,1	12	3,2	44,5	2 x 5,1
RBLD19/3	25	0,089	25	0,088	20	0,062	25	0,086	19	61	10	3,2	29,1	12	3,2	44,5	3 x 5,1
RBLD23	120	0,096	90	0,096	22	0,059	NA	–	23	45	9,8	6,2	33	17,9	3,6	39	3 x 3,5
RBLD25	55	0,17	55	0,166	25	0,11	55	0,172	25,4	73	14,2	6,3	37,2	15,8	3,5	55,6	2 x 5,1
RBLD25/3	55	0,168	55	0,167	25	0,11	55	0,171	25,4	73	14,2	6,3	37,2	15,8	3,5	55,6	3 x 5,1
RBLD26	60	0,125	40	0,126	22	0,07	NA	–	25	56	14,6	7,8	36	15,4	3,3	45	2 x 4,0
RBLD32	125	0,269	125	0,269	–	–	125	0,256	32	73,7	16,2	8	45,5	19,9	4,2	58,7	2 x 5,1
RBLD32/3	125	0,269	125	0,267	–	–	125	0,255	32	73,7	16,2	8	45,5	19,9	4,2	58,7	3 x 5,1

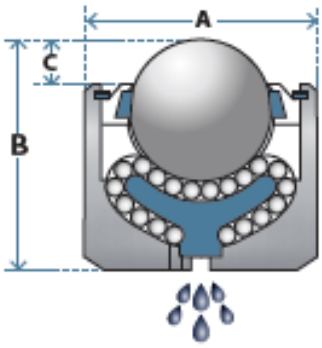
RBLD32-SS & RBLD32/3-SS units feature 7 large fluid drain holes & omit felt seal.

Heavy duty ball units

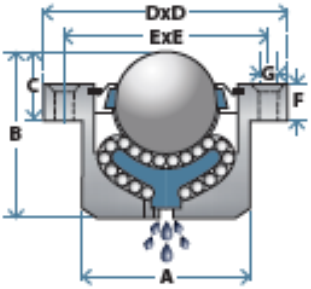


Code	Load (kg)	ball Ø (mm)	A	B	C
RB9000	50	12,7	20	20	3,8
RB9021	225	25,4	44,5	41,3	5,6
RB9031	385	25,4	50,8	44,5	6,4
RB9041	1100	38,1	60,3	61,5	12,7
RB9051	2200	50,8	101,6	98,4	14,3
RB9060	4550	76,2	160	145	21

Version A = stainless steel balls
Version Z = stainless steel balls and internal components
Version SS = all parts stainless steel







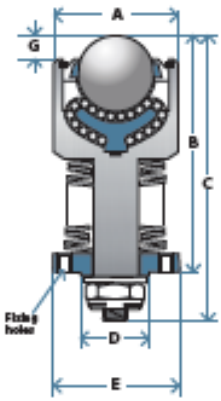
Code	Load (kg)	ball Ø (mm)	A	B	C	DxD	ExE	G
RB9300	50	12,7	23,8	22,2	11,2	44,5	34,9	2 x 3,6
RB9320	225	25,4	44	41,3	10,3	57,2	44,5	4 x 6,1
RB9330	385	25,4	50	44,5	12,7	76,2	57,9	4 x 8,1
RB9341	1100	38,1	60,3	60,3	25,4	76,2	57,9	4 x 8,1
RB9350	2200	50,8	100	98,4	33,3	127	101,6	4 x 11,1
RB9360	4550	76,2	160	145	36	175	145	4 x 13,1

Version A = stainless steel balls
Version Z = stainless steel balls and internal components
Version SS = all parts stainless steel



Code	Pre-load (kg)	ball Ø (mm)	A	B	C	D	E	F	G	Load at max. deflec-tion (kg)	Max. deflection advised (mm)
RB9401	7	12,7	20,6	32,2	47	14,7	20	3	3,8	32	2
RB9421	23	25,4	44,5	61,5	77	19,2	31,8	3xM5	5,6	136	5
RB9431	136	25,4	50,8	79,6	95,3	19,2	38,1	3xM6	6,4	331	7,7
RB9441	318	38,1	60,3	121	162,1	35	59,4	3xM8	12,7	960	11,1
RB9451	764	50,8	101,6	175,1	200,9	57	101,6	4xM8	14,3	1400	5,3

Version A = stainless steel balls
Version Z = stainless steel balls and internal components
Version SS = all parts stainless steel



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Support castor, Machine foot, Spring mounted castors



Support castors with Vulkollan wheel

code:	wheel size mm	overall height mm	hub way mm	tube diameter mm	load capacity kg
Stötzgbl VU125	125x45	572	235	48	150
Stötzgbl VU150	150x50	585	235	48	150
Stötzgbl VU180	180x50	600	235	48	150
Stötzgbl VU200	200x50	610	235	48	150

Support castors with blue elastic wheel

code:	wheel size mm	overall height mm	hub way mm	tube diameter mm	load capacity kg
Stötzgbl AG125	125x45	572	235	48	150
Stötzgbl AG150	150x50	585	235	48	150
Stötzgbl AG180	180x50	600	235	48	150
Stötzgbl AG200	200x50	610	235	48	150



Machine foot

with plate

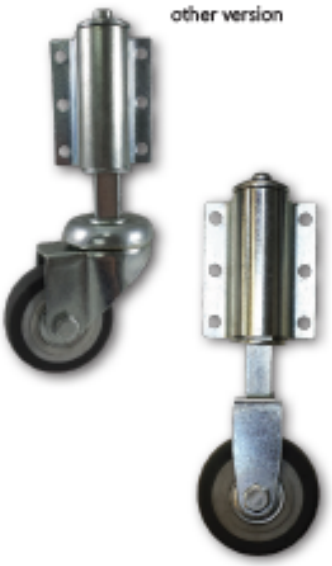
code:	wheel size mm	height min. mm	height max. mm	plate size mm	bolt hole distance mm	load capacity kg	offset mm
F050GLPL	50x22	83	95	73x73	58x58	170	60
F060GLPL	60x55	90	-	90x90	70x70	800	25
F063GLPL	63x29	102	117	90x90	70x70	400	83,5
F072GLPL	72x31	120	138	95x95	70x70	700	90
F072GLPLS	72x31	121	139	95x95	70x70	900	89,5
F075GLPL	75x55	108	-	95x95	70x70	1000	25
F075GLPLS	75x55	110	160	95x95	70x70	900	65,5
F092GLPL	92x54	130	155	100x100	70x70	1200	115

with bolt hole fitting

code:	wheel size mm	height min. mm	height max. mm	threaded pin mm	load capacity kg	offset mm
F042GLO	42x18	71	81	8x12	40	50
F050GLO	50x22	83	95	12x15	170	60
F063GLO	63x29	102	117	12x15	400	83,5
F072GLO	72x34	120	138	16x16	700	90
F072GLOS	72x34	121	139	16x16	900	89,5



other version



Spring mounted castor

Housing: galvanized steel
Wheel: with rubber or polyurethane wheel and ball bearing
Spring way: 25 mm

Swivel castor

code:	wheel size mm	overall height mm	plate size mm	bolt hole distance mm	load capacity kg	offset mm
Federlenkrolle PK050	50x18	150	59,5x48	22,5/38	40	24
Federlenkrolle KU050	50x20	150	59,5x48	22,5/38	40	24
Federlenkrolle KU075 bremsbar	75x25	184	59,5x48	22,5/38	60	25

Fixed castor

code:	wheel size mm	overall height mm	plate size mm	bolt hole distance mm	load capacity kg
Federbockrolle PK050	50x18	150	59,5x48	22,5/38	40
Federbockrolle KU050	50x20	150	59,5x48	22,5/38	40

Spring mounted swivel castors



- especially for sensible light and audio equipment
- shock absorption

Wheel: Vulkollan on full aluminium core, ball bearing
Housing: made of steel with polyurethane spring

code:	wheel	overall height	plate	bolt holes	offset	spring pressure	spring way	dyn. load capacity
swivel castor								
GEFLVU100KUP1	100 x 40 mm	171 mm	105 x 85 mm	80 x 60 mm	30 mm	40 daN	25 mm	130 kg
GEFLVU100KUP3	100 x 40 mm	171 mm	135 x 110 mm	105 x 80 mm	30 mm	50 daN	25 mm	170 kg
GEFLVU125KUP1	125 x 40 mm	207 mm	105 x 85 mm	80 x 60 mm	32 mm	90 daN	25 mm	200 kg
GEFLVU125KUP3	125 x 40 mm	207 mm	135 x 110 mm	105 x 80 mm	32 mm	90 daN	25 mm	200 kg
GEFLVU150KUP3	150 x 40 mm	233 mm	135 x 110 mm	105 x 80 mm	43 mm	90 daN	28 mm	220 kg
GEFLVU200KUP3	200 x 50 mm	274 mm	135 x 110 mm	105 x 80 mm	57 mm	85 daN	32 mm	260 kg
fixed castor								
GEFBVU100KUP1	100 x 40 mm	171 mm	105 x 85 mm	80 x 60 mm	-	40 daN	25 mm	130 kg
GEFBVU100KUP3	100 x 40 mm	171 mm	135 x 110 mm	105 x 80 mm	-	50 daN	25 mm	170 kg
GEFBVU125KUP1	125 x 40 mm	207 mm	105 x 85 mm	80 x 60 mm	-	90 daN	25 mm	200 kg
GEFBVU125KUP3	125 x 40 mm	207 mm	135 x 110 mm	105 x 80 mm	-	90 daN	25 mm	200 kg
GEFBVU150KUP3	150 x 40 mm	233 mm	135 x 110 mm	105 x 80 mm	-	90 daN	28 mm	220 kg
GEFBVU200KUP3	200 x 50 mm	274 mm	135 x 110 mm	105 x 80 mm	-	85 daN	32 mm	260 kg



Wheel: Elastic rubber wheel on plastic rim, roller bearing
Housing: made of steel with polyurethane spring

code:	wheel	overall height	plate	bolt holes	offset	spring pressure	spring way	dyn. load capacity
swivel castor								
GEFLAG100ROP1	100 x 40 mm	171 mm	105 x 85 mm	80 x 60 mm	30 mm	40 daN	25 mm	130 kg
GEFLAG100ROP3	100 x 40 mm	171 mm	135 x 110 mm	105 x 80 mm	30 mm	50 daN	25 mm	170 kg
GEFLAG125ROP1	125 x 40 mm	207 mm	105 x 85 mm	80 x 60 mm	32 mm	90 daN	25 mm	200 kg
GEFLAG125ROP3	125 x 40 mm	207 mm	135 x 110 mm	105 x 80 mm	32 mm	90 daN	25 mm	200 kg
GEFLAG150ROP3	150 x 40 mm	233 mm	135 x 110 mm	105 x 80 mm	43 mm	90 daN	28 mm	220 kg
GEFLAG200ROP3	200 x 50 mm	274 mm	135 x 110 mm	105 x 80 mm	57 mm	85 daN	32 mm	260 kg
fixed castor								
GEFBAG100ROP1	100 x 40 mm	171 mm	105 x 85 mm	80 x 60 mm	-	40 daN	25 mm	130 kg
GEFBAG100ROP3	100 x 40 mm	171 mm	135 x 110 mm	105 x 80 mm	-	50 daN	25 mm	170 kg
GEFBAG125ROP1	125 x 40 mm	207 mm	105 x 85 mm	80 x 60 mm	-	90 daN	25 mm	200 kg
GEFBAG125ROP3	125 x 40 mm	207 mm	135 x 110 mm	105 x 80 mm	-	90 daN	25 mm	200 kg
GEFBAG150ROP3	150 x 40 mm	233 mm	135 x 110 mm	105 x 80 mm	-	90 daN	28 mm	220 kg
GEFBAG200ROP3	200 x 50 mm	274 mm	135 x 110 mm	105 x 80 mm	-	85 daN	32 mm	260 kg

Hebewunder (pneumatic lift roller)

with (single) Vulkollan wheels on full aluminium core, 92° Shore



Pneumatic lift roller "Hebewunder" for installation in steel or aluminium frames to realise an easier move of stage elements and to reduce set-up and dismantling times during theatre performances.

Advantages of our "Hebewunder":

1. the stage element can be moved at any time
2. there is no overloading of the castors when standing, as they are retracted during theatre performances
3. the lowering of the construction creates the same stability as a non-moveable stage element
4. saving "manpower"
5. low offset

operating pressure: 2 bar

	mm	mm	min. mm	max. mm	kg	mm	mm	air consumption per pillow in litre
HWLMPUSS033KUP3/91*	118x118x118	33x27	91	126	300	175	11	1,1
HWSLMPUSS033KUP3/101*	Ø 195	33x27	101	141	400	240	11	2,5
HWLMVU050KUP3/125	183x183x183	50x40	125	165	400	254	11	2,5
HWLMVU050KUP3/145	183x183x183	50x40	145	185	400	212	11	2,0
HWLVU065KUP3/160	250x250x250	65x30	160	202	400	364	11	2,0
HWLVU080KUP3/167	250x250x250	80x30	167	208	400	387	11	2,0
HWLVU100KUP3/202	300x300x300	100x40	202	243	400	456	11	2,0
HWLVU125KUP3/222	340x340x340	125x45	222	263	400	543	11	2,0
HWLVU150KUP3/258	550x550x550	150x50	258	299	400	716	11	2,0
HWLMVU050KUP3/135 HOAC	183x183x183	50x40	135	165	400	254	11	2,5
HWSLMVU050KUP3/145 750 KG	Ø 220	50x40	145	175	750	340	11	14

*with polyurethane wheels



Hebewunder with springs



Shifting of whole grandstands in short time!
Photo: Michael Hübner/Theater Regensburg





Hebewunder for HOAC frame

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Hebewunder (pneumatic lift roller)

with (double) Vulkollan wheels on full aluminium core, 92° Shore

Wheel:
Vulkollan, full aluminium core, ball bearing
Description of properties on page 2.3

Version:
wheel available with flat or round tread, 92° Shore

Housing:
galavanized steel with double ball race at fork head



Film Hebewunder in action
(Youtube)

operating pressure: 2 bar



	mm	mm	min. mm	max. mm	kg	mm	mm	air consumption per pillow in litre
HWLDMPUSS033KUP3/91*	118x118x118	2x33x10	91	126	300	175	11	1,1
HW5LDMPUSS033KUP3/101*	Ø 195	2x33x10	101	141	400	240	11	2,5
HWLDMVU050KUP3/125	183x183x183	2x50x20	125	165	400	254	11	2,5
HWLDMVU050KUP3/145	183x183x183	2x50x20	145	185	400	212	11	2,0
HWLDVU080KUP3/167	250x250x250	2x80x20	167	208	400	387	11	2,0
HWLDVU100KUP3/202	300x300x300	2x100x25	202	243	400	456	11	2,0
HWLDVU125KUP3/233	340x340x340	2x125x25	233	273	400	543	11	2,0
HWLDVU150KUP3/258	550x550x550	2x150x25	258	299	400	716	11	2,0
HWLDMVU050KUP3/135 HOAC	183x183x183	2x50x20	135	165	400	254	11	2,5
HW5LDMVU050KUP3/145 750 KG	Ø 220	2x50x20	145	175	750	340	11	14

*with polyurethane wheels

The air cushion of the "Hebewunder" is filled with compressed air (from a compressor or bottle). The stage element is now lifted up and can be moved. To move larger stage elements, several "Hebewunder" can be connected to each other via a distributor with hoses. A valve should be connected upstream of each "Hebewunder" in order to be able to lift the areas of the element with different weights evenly.

Accessory parts:

Item	Code
T-connector	3104 06 00
connector	3101 06 10
silencer	0670 00 10
polyamide air hose, 25 m	102SP0601
3-way-valve	0452 04 10
quick coupling 1	NW5BA-POM-6
quick coupling 2	NW5BA-MS-6

pressure reducer available upon request



3-way-valve



Silencer



Connector



T-connector



Quick coupling 1



Quick coupling 2

Pneumatic Brake

for fixation of whole stage elements

The pneumatic brake is mounted under rolling stage elements or wagons. Once the wagon has reached the desired position the pneumatic brake can be activated and lift the whole wagon so it stands still.

Technical data:
Air hose diameter: 6 mm
Lifting height: 40 mm
Load capacity: 400 kg (dyn.)
Operating pressure: 2 bar

Code: PNB400



with lateral tension springs



The stage wagon which is equipped with pneumatic brakes is positioned on the desired place. The pneumatic units are filled with air in order to lift the object. Now the wagon cannot be moved anymore.



If required the air units can be deflated so the stage element can be moved again. The lateral tension springs of the pneumatic brake keep the bottom part constantly pulled up.



In this way contact between floor and pneumatic brake will be avoided. The object can be moved and jacked again on another place. This process can be repeated as often as there is enough air available.

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Grandstand-Lifting-Roller

for shifting whole grandstands

Grandstand roller made out of aluminium with 2 integrated Hebewunders for an easy shifting of grandstand elements in order to reduce the time for transformations.



for hook up into tube diameter 50 mm
with adjustable center rod for
min. distance 1868 mm and
max. distance 2132 mm
between the tubes of the hooked up grandstand



wheels with solid aluminium core, ball bearing and Vulkollan tread
tube diameter: 6 mm
Turtles® with wheel size: 50x40 mm
lifting height: 40 mm
load capacity: 400 kg (dyn.)
operating pressure: 2 bar

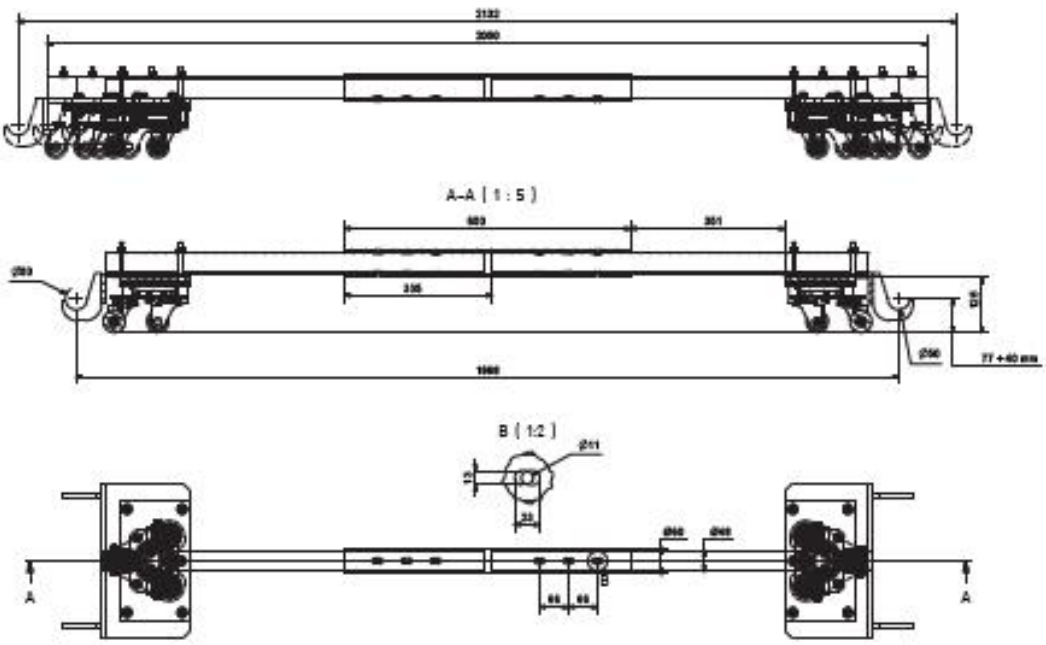






Video

Code: HWTRLMVU050KUP3



Multijacks



Heberoller LAGT100ROP1TH



Heberoller LAGT100ROP3

By mounting the multijack under the construction, the movement of heavy scenery parts is simplified hugely. Our multijack is made of steel sheets with black painted surface.

Code	mm	mm	mm	mm	mm	dyn. kg	mm
multijack with Vulkollan wheels							
Heberoller LDVU050KUP3	2x50x20	251	296	150 x 110	115 x 80	160	M10
Heberoller LVU050KUP3	50x40	251	296	150 x 110	115 x 80	160	M10
Heberoller LVU065KUP3	65x30	271	316	150 x 110	115 x 80	200	M10
Heberoller LVU075KUP3	75x30	276	321	150 x 110	115 x 80	250	M10
Heberoller LVU080KUP3	80x30	279	324	150 x 110	115 x 80	250	M10
Heberoller LVU100KUP3	100x40	290	335	150 x 110	115 x 80	250	M10
multijack with elastic rubber wheels							
Heberoller LAGT080ROP3	80x30	279	324	150 x 110	115 x 80	100	M10
Heberoller LAGT100ROP3	100x40	290	335	150 x 110	115 x 80	150	M10
multijack with Vulkollan wheels with **foot lever**							
Heberoller LVU065KUP1TH	65x30	220	256	153 x 100	60/63x76	200	M10
Heberoller LVU080KUP1TH	80x30	227	264	153 x 100	60/63x76	250	M10
Heberoller LVU100KUP3TH	100x40	251	289	153 x 100	60/63x76	275	M10
multijack with elastic rubber wheels with **foot lever**							
Heberoller LAGT080ROP1TH	80x30	227	264	153 x 100	60/63x76	100	M10
Heberoller LAGT100ROP3TH	100x40	251	289	153 x 100	60/63x76	150	M10



Heberoller SLPUSS080KUP3TFS-4RF
(black)



Heberoller SLSPY080KUP3TFS+4RF
(black or white)



Heberoller TLPU050KUP3

Truck locks and lifting jacks

Truck locks can be fitted to transport equipment, enabling them to be locked in their resting position. By operating the pedal the transport equipment is held in place without being lifted.

Truck Locks	mm	mm	mm	mm	mm
FF125	142	180	140 x 110	105x80	12,3
FF150	170	208	140 x 110	105x80	12,3
FF160	175	213	140 x 110	105x80	12,3
FF200	217	255	140 x 110	105x80	12,3
FFB100	117	146	135 x 110	105x80	10,3
FFB125	137	168	140 x 110	105x80	10,3
FFB150	155	195	140 x 110	105x80	10,3
FFB200	205	245	140 x 110	105x80	10,3
FFS160	164	206	152 x 115	127 x 63	14



FFB100



FFS160

Multijack	mm	mm	mm	mm	mm
Hebefeststeller	165	205	150 x 110	115 x 80	10,3



Multijack

Lifting jacks can be fitted to transport equipment, enabling them to be lifted whilst in their resting position. The transport equipment is lifted by operating the pedal.
Jacks can be combined with various castor series. The jacks provide their best performance if the total height of the operated jack (H1) is 5 mm higher than the selected swivel or fixed castors. Depending on the weight of the person operating the transport equipment, the lifting force is between 150 kg and 250 kg.



WH160

Lifting Jacks	mm	mm	mm	mm	mm
WH 160	166	209	140 x 110	105x80	12,3
WH 200	207	250	140 x 110	105x80	12,3
WH 250	257	300	140 x 110	105x80	12,3

Swivel castor with lift pedal

with braking function



Functioning:
By using the lift pedal the construction will be jacked up 5 mm and secured against rolling away. The foot can be adjusted with the thread. It consists of a ball joint in order to compensate uneven floors. The bottom of the foot is rubberized to protect the floor and avoid a slipping.

Wheel:
wheel made of high-quality polyamide with ball bearing
(available with different wheels)



5 mm jacked

Housing:
made out of sheet steel with double ball race at fork head

wheel size: 80x40 mm
fixing plate: 105x80 mm
bolt hole distance: 80x60/55 mm
bolt hole-Ø: 9 mm

overall height: 118-123 mm
offset: 42 mm
load capacity: 350 kg (dyn.)

code: LFHFNY080KUP1



foot with ball joint and rubberized bottom

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Direction Stable Swivel Castor

wheel:
Vulkollan, solid aluminium core, ball bearing

version:
wheel available with flat or convex tread,
92° Shore

housing:
made out of sheet steel with
double ball race at fork head



	mm	mm	mm	mm	dyn. kg	mm	mm
SLVU080KUP1SPRF	80x30	120	105x85	80x60	250	40	9
SLVU100KUP1SPRF	100x40	130	105x80	80x60	350	40	9
SLVU100KUP3SPRF	100x40	148	135x105	105x80	350	40	11
SLVU125KUP3SPRF	125x45	185	135x110	105x80	500	50	11
SLVU150KUP3SPRF	150x50	210	135x110	105x80	660	53	11
SLVU180KUP3SPRF	180x50	235	135x110	105x80	800	53	11
SLVU200KUP3SPRF	200x50	245	135x110	105x80	1000	55	11

available with different types of wheels →



Castors with central brake

Housing: galvanized steel

Castors with Vulkollan wheels





			mm	mm	mm	mm	dyn. kg	mm	mm
LHVU080KUP1	LHVU080KUP1-Schalt	BHVU080KUP1	80 x 40	130	105x85	80x60	250	41	8,5
LHVU100KUP1	LHVU100KUP1-Schalt	BHVU100KUP1	100x40	140	105x85	80x60	350	41	8,5
LHVU125KUP1	LHVU125KUP1-Schalt	BHVU125KUP1	125x40	167,5	105x85	80x60	450	41	8,5
LHVU150KUP1	LHVU150KUP1-Schalt	BHVU150KUP1	150x50	200	105x85	80x60	450	55	8,5
LHVU200KUP1	LHVU200KUP1-Schalt	BHVU200KUP1	200x50	245	105x85	80x60	450	60	8,5
LVU100KUP3	LHVU100KUP3-Schalt	BHVU100KUP3	100x40	131	135x105	105x80	350	41	8,5
LVU125KUP3	LHVU125KUP3-Schalt	BHVU125KUP3	125x40	164	135x105	105x80	450	41	8,5
LVU150KUP3	LHVU150KUP3-Schalt	BHVU150KUP3	150x50	200	135x105	105x80	600	55	8,5
LVU200KUP3	LHVU200KUP3-Schalt	BHVU200KUP3	200x50	245	135x105	105x80	1000	60	8,5

Castors with elastic rubber wheels





			mm	mm	mm	mm	dyn. kg	mm	mm
LHAG080ROP1	LHAG080ROP1-Schalt	BHAG080ROP1	80 x 40	130	105x85	80x60	100	41	8,5
LHAG100KUP1	LHAG100KUP1-Schalt	BHAG100KUP1	100x40	140	105x85	80x60	180	41	8,5
LHAG125KUP1	LHAG125KUP1-Schalt	BHAG125KUP1	125x40	164	105x85	80x60	250	41	8,5
LHAG200KUP1	LHAG200KUP1-Schalt	BHAG200KUP1	200x50	245	105x85	80x60	450	60	8,5
LHAG100KUP3	LHAG100KUP3-Schalt	BHAG100KUP3	100x40	140	135x105	105x80	180	41	8,5
LHAG125KUP3	LHAG125KUP3-Schalt	BHAG125KUP3	125x40	167,5	135x105	105x80	250	41	8,5
LHAG160KUP3	LHAG160KUP3-Schalt	BHAG160KUP3	160x50	210	135x105	105x80	300	55	8,5
LHAG200KUP3	LHAG200KUP3-Schalt	BHAG200KUP3	200x50	245	135x105	105x80	450	60	8,5

Castors with solid rubber wheel





			mm	mm	mm	mm	dyn. kg	mm	mm
LHSR160ROP3	LHSR160ROP3Schalt	BHSR160ROP3	160x40	210	135x105	105x80	200	55	11
LHSR200ROP3	LHSR200ROP3Schalt	BHSR200ROP3	200x50	245	135x105	105x80	350	60	11
LHSR250ROP3	LHSR250ROP3Schalt	BHSR250KUP3	250x60	310	135x105	105x80	550	66	11

The following accessory parts are available:

- Pin
- Pedal



Castors for hospital beds with brake

Wheel:
with grey rubber, polyamide rim, ball bearing
Description of properties on page 3.6

Versions:
flat wheel 80 - 75° Shore

Housing:
galvanized steel



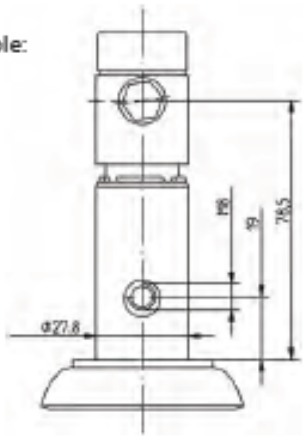




			mm	mm	mm	dyn. kg	mm	mm
KLK080KUO10	KLK080KUOSchalt		80x30	113	28 x 78,5	100	44	28x45
KLK080KUO12	KLK080KUOSchalt+RF		80x30	113	28 x 78,5	100	44	28x45
KLK100KUO10	KLK100KUOSchalt	possibilities for fixation on page V	100x32	133	28 x 78,5	100	42	28x45
KLK100KUO12	KLK100KUOSchalt+RF		100x32	133	28 x 78,5	100	42	28x45
KLK125KUO10	KLK125KUOSchalt		125x32	168	28 x 78,5	100	44	28x45
KLK125KUO12	KLK125KUOSchalt+RF		125x32	168	28 x 78,5	100	44	28x45
KLK150KUO10	KLK150KUOSchalt		150x32	185	28 x 78,5	120	51	28x45
KLK150KUO12	KLK150KUOSchalt+RF		150x32	185	28 x 78,5	120	51	28x45



The following accessory parts are available:
- Pin
- Pedal



- Pin 78,5 mm
- for tube Ø 28 mm
- switching shaft variants A/B
- switching shaft cross or in direction of movement
- threaded pin with bore holes (4x)
- adjustment sleeves for other tube diameters available

Castor Munich

with non turnable total brake and 4-directional lock



Versions:
wheel with flat or round tread

Housing:
galvanized steel with ball bearing

black version to be found on page 1.6

Vulkollan wheel | polyurethane wheel | polyamide wheel





			mm	mm	mm	mm	kg	mm	mm
SLVU080KUP3TFS+ 4RF	SLPUSS080KUP3TFS+ 4RF	SLNY080KUP3TFS+ 4RF	80x40	124	135x105	105x80	250	40	11
SLVU100KUP3TFS+ 4RF	SLGPT100KUP3TFS+ 4RF	SLNY100KUP3TFS+ 4RF	100x40	148	135x105	105x80	350	40	11
SLVU125KUP3TFS+ 4RF	SLGPT125KUP3TFS+ 4RF	SLNY125KUP3TFS+ 4RF	125x45	178*	135x105	105x80	500	50	11
SLVU150KUP3TFS+ 4RF	SLGPT150KUP3TFS+ 4RF	SLNY150KUP3TFS+ 4RF	150x50	210	135x105	105x80	660	53	11
SLVU180KUP3TFS+ 4RF	SLGPT180KUP3TFS+ 4RF		180x50	235	135x105	105x80	800	53	11
SLVU200KUP3TFS+ 4RF	SLGPT200KUP3TFS+ 4RF	SLNY200KUP3TFS+ 4RF	200x50	245	135x105	105x80	1000	55	11

soft polyurethane wheel | soft & elastic polyurethane wheel




		mm	mm	mm	mm	kg	mm	mm
SLGPW100KUP3TFS+ 4RF	SLPUW100KUP3TFS+ 4RF	100x40	148	135x105	105x80	270/300	40	11
SLGPW125KUP3TFS+ 4RF		125x45	178*	135x105	105x80	380	50	11
SLGPW150KUP3TFS+ 4RF		150x50	210	135x105	105x80	450	53	11
SLGPW200KUP3TFS+ 4RF		200x50	245	135x105	105x80	650	55	11

black elastic rubber wheel | blue elastic rubber wheel




		mm	mm	mm	mm	kg	mm	mm
	SLAGT080ROP3TFS+ 4RF	80x30	124	135x105	105x80	100	48	11
SLAG100KUP3TFS+ 4RF		100x40	148	135x105	105x80	150	40	9
SLAG125KUP3TFS+ 4RF		125x45	178*	135x105	105x80	250	50	11
SLAG160KUP3TFS+ 4RF		160x50	215	135x105	105x80	300	53	11
SLAG180KUP3TFS+ 4RF		180x50	235	135x105	105x80	350	53	11
SLAG200KUP3TFS+ 4RF		200x50	245	135x105	105x80	400	55	11

*also available with overall height 185 mm on demand

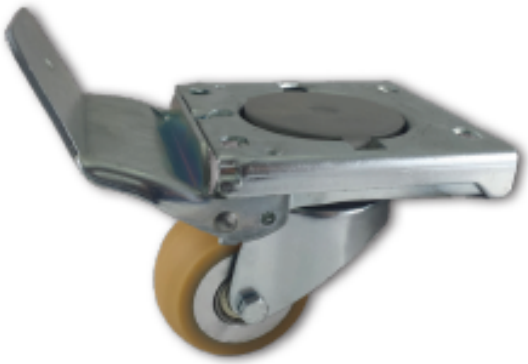
Castor Vienna

with non turnable total brake

Versions:
wheel with flat or round tread

Housing:
galvanized steel with ball bearing

black version to be found on page 1.7



Code: SLVU080KUP3TFS

Vulkollan wheel	polyurethane wheel	polyamide wheel								
			mm	mm	mm	mm	dyn. kg	mm	mm
SLVU080KUP3TFS	SLPUSS080KUP3TFS	SLNY080KUP3TFS	80x40	124	125x125	105x80	250	48	11
SLVU100KUP3TFS	SLGPT100KUP3TFS	SLNY100KUP3TFS	100x40	148	125x125	105x80	350	40	11
SLVU125KUP3TFS	SLGPT125KUP3TFS	SLNY125KUP3TFS	125x45	178*	125x125	105x80	500	50	11
SLVU150KUP3TFS	SLGPT150KUP3TFS	SLNY150KUP3TFS	150x50	210	125x125	105x80	660	53	11
SLVU180KUP3TFS	SLGPT180KUP3TFS		180x50	235	125x125	105x80	800	53	11
SLVU200KUP3TFS	SLGPT200KUP3TFS	SLNY200KUP3TFS	200x50	245	125x125	105x80	1000	55	11

soft polyurethane wheel	soft & elastic polyurethane wheel								
		mm	mm	mm	mm	dyn. kg	mm	mm
SLGPW100KUP3TFS	SLPUW100KUP3TFS	100x40	148	125x125	105x80	270/300	40	11
SLGPW125KUP3TFS		125x45	178*	125x125	105x80	380	50	11
SLGPW150KUP3TFS		150x50	210	125x125	105x80	450	53	11
SLGPW200KUP3TFS		200x50	245	125x125	105x80	650	55	11

black elastic rubber wheel	blue elastic rubber wheel								
		mm	mm	mm	mm	dyn. kg	mm	mm
	SLAGT080ROP3TFS	80x30	124	125x125	105x80	100	48	11
SLAG100KUP3TFS		100x40	148	125x125	105x80	150	40	9
SLAG125KUP3TFS		125x45	178*	125x125	105x80	250	50	11
SLAG160KUP3TFS		160x50	215	125x125	105x80	300	53	11
SLAG180KUP3TFS		180x50	235	125x125	105x80	350	53	11
SLAG200KUP3TFS		200x50	245	125x125	105x80	400	55	11

*also available with overall height 185 mm on demand

Fixed castor with drum brake and dead man's brake



Wheel:
polyurethane, cast iron or polyamide core,
ball bearing, 92° Shore

Versions:
wheel with flat tread

Housing:
galvanized steel with drum brake or dead man's brake

can be used with Bowden cable



Castor with dead man's brake
(brakes when released)

	mm	mm	mm	mm	kg	mm
8GPT125KUP3TM	150X50	165	140x110	105x80	180	11
8GPT150KUP3TM	150x50	185	140x110	105x80	450	11
8GPT160KUP3TM	160x50	195	140x110	105x80	450	11
8GPT180KUP3TM	180x50	215	140x110	105x80	525	11
8GPT200KUP3TM	200x50	235	140x110	105x80	600	11



Castor with drum brake
(brakes when pulled)

	mm	mm	mm	mm	kg	mm
8GPT160KUP3TB	160x50	195	140x110	105x80	450	11
8GPT180KUP3TB	180x50	215	140x110	105x80	525	11
8GPT200KUP3TB	200x50	235	140x110	105x80	600	11

Also available with soft polyurethane wheels, rubber wheels, elastic rubber wheels, pneumatic wheels

Trolley castor 80 - 75° Shore

Wheel:
grey rubber, polyamide rim, ball bearing
Description of properties on page 3.6

Versions:
flat wheel, 80 - 75° Shore

Housing:
galvanized steel



	mm	mm	mm	mm	dyn. kg	mm	mm
LKD075KUPLSZF	2x75x23	102	55x70	51/57x41	100	29	5,5

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Double castor with cable brake

for wheel diameter 75 & 100 mm



Swivel castor with automatic locking system, housing made of Polyamide, with blind hole for furniture fittings.

Wheel centre made of Polyamide
Tread: Polyurethane, plain bearing
Force to release 23 N
spring stroke length 8 mm

Bowden cables and brakes available on request.

minimum order quantity: 1000 pcs

	mm	mm	mm	dyn. kg	mm
DZB075GLGZ10	75x55	75,5	10	80	23
DZB100GLGZ10	100x73	100	11	100	32

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Polyurethane wheels with excentric shaft

on cast iron core, 92° Shore, ball bearing

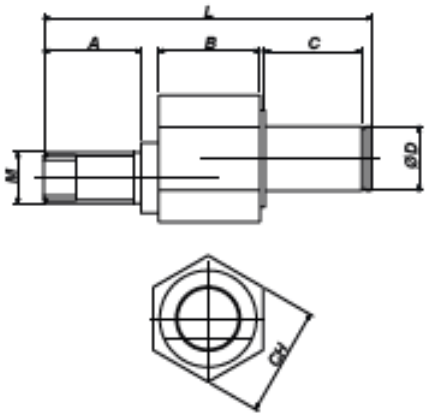
- high restoring elasticity (low compression set up for a longer time)
- non-staining and traceless on floor
- impact and vibration damping
- strength and tear resistant
- resistant to diluted bases and acids
- temperature resistant from -20°C to +80°C, for a short duration until 130°C
- resitant to oils and greases



wheel fitting for excentric shaft				dyn.	
Code	mm	mm	mm	kg	mm
EWPU055/30/20	55	30	30	120	20
EWPU070/30/20	70	30	30	150	20
EWPU078/30/20	78	30	30	300	20
EWPU080/30/20	80	30	30	300	20
EWPU100/30/20	100	30	30	300	20
EWPU123/30/20	123	30	30	300	20
EWPU123/30/25	123	30	30	300	25
EWPU123/35/25	123	35	35	350	25
EWPU123/40/20	123	40	40	400	20
EWPU150/40/25	150	40	40	500	25

Excentric Shaft

Code	M	A	B	C	ØD	L	CH
EWM1401	M14	40	21	30	20	96	36
EWM1601	M16	30	21	30	20	90	34
EWM1602	M16	30	31,5	30	20	102	34
EWM1603	M16	37,5	29	30	25	99,5	36
EWM2001	M20	32	21	30	20	88	36
EWM2002	M20	40	21	30	20	96	36
EWM2003	M20	40	21	40	20	106	36
EWM2004	M20	40	21,5	40	25	112	36



Special constructions (on request)



protection wheel



platform castor for
braking from the top



Double castor with Vulkollan wheels
100 mm total height,
load capacity 400 kg



Castors with very low total height:
only 47 mm



aluminium rim
with rubber tyre

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Special constructions (on request)







Special constructions (on request)



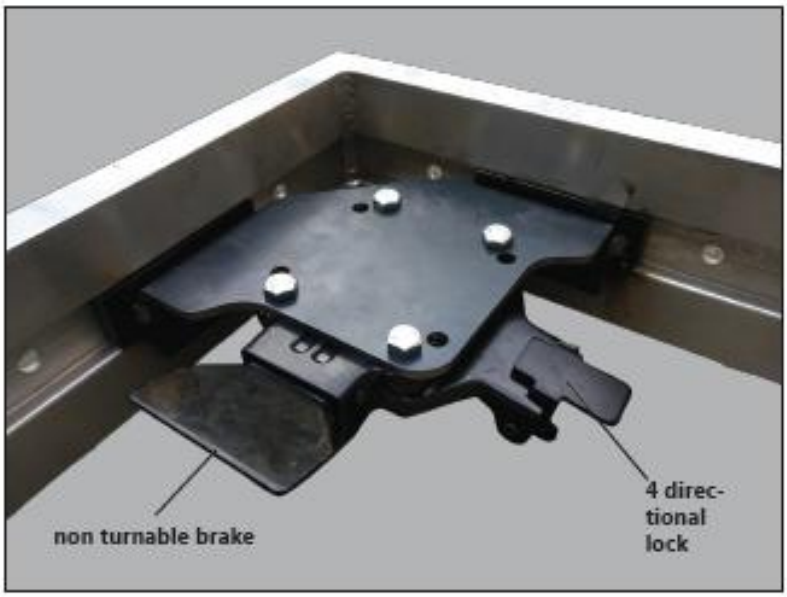
Swivel castor with
4 directional lock from above



Heavy duty turtle TLPUS075KUPS/155
overall height 155 mm,
load capacity 750 kg

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Special constructions (on request)







Swivel castor for system frame made out of steel or aluminium



Stage adapter castor (single tube)



Stage adapter castor (double tube)

Roller for grand pianos

Flat Steel: thickness 10 mm

Roller for the transport of grand pianos, tables and chairs

- load capacity 300 kg
- stackable
- overall height 135 mm

Code: Flügeltransportroller



Roller for pianos

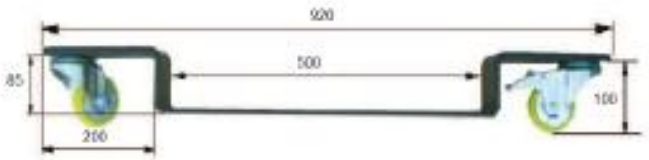


Flat Steel: thickness 10 mm

With one swivel castor and one swivel castor with total brake.
Wheels of polyurethan on full aluminium rim.

Code: Klavierroller

Length: 920 mm
Width max.: 500 mm
Castor height: 100 mm
overall height: 110 mm
Wheel diameter: 80 mm



the size can be adjusted to your requirements

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Inclining Turtle



Code: Neigeturtle LVU100KUP3

Plate size:	140x110 mm
screw hole distance:	110x80 mm
screw diameter:	10 mm
inclinging angle:	10°
thickness of inclining plate:	10,4 mm
overall height:	196 mm
triangular plate:	300x300x300 mm
wheels:	3x 100x40 mm
thickness triangular plate:	12 mm
load capacity:	500 kg
weight:	10,2 kg

The function of the „Neigeturtle" is to distribute the load of scene parts over the castors to even and uneven floors. It is also possible to compensate reciprocating and inclining movements in a perpendicular way to the floor. The Neigeturtle is a special product for the theatre branch.

also available with blue elastic rubber wheels

Smartwheels - Theft Protection



Smartwheels

The smartwheels by Gatekeeper can be braked via remote control in order to stop rolling. By pushing the button the integrated drum brake will be disabled and the wheels can roll again. The object can be moved.

Video



Anti-Theft Flightcase

Smartwheels can be used in many different ways. For example as theft protection for flightcases which often contain expensive stage equipment. Once they are equipped with these castors the flightcase cannot be moved and stolen anymore.

Code: Set Smartwheels
(only large quantities available)



locked / unlocked



Code: Cart Key Remote Control

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Omni-Transport-Drive

for omnidirectional movements on stage

The driving units with either 4 Mecanum wheels („Mecanum-Drive") or 2 standard drive wheels and 2 swivel castors („Standard-Drive") allow omnidirectional driving movements on stage. The units are battery-powered and remote controlled by a handy and ergonomic panel equipped with a safety emergency button. The design allows an installation into all common 1x1 m steel or aluminum frames for a total height of 176 mm. The transport units can carry a vertical load up to one ton and a lateral load up to 1.5 t. The rugged design, the intuitive control and the good price-performance ratio are very suitable for usage on stage areas.

Code: OTR100

Mecanum-Drive



+



Standard-Drive



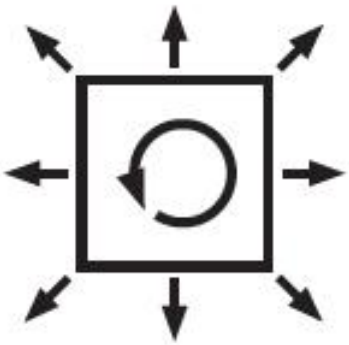
+





remote control

Movement Directions



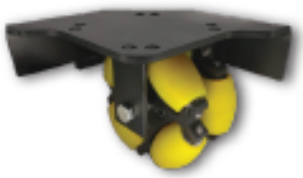


Omniwheels

for sideway movements



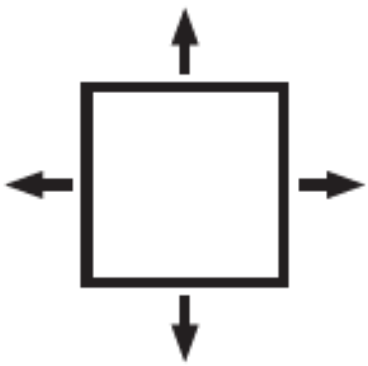
Omniwheels were developed for sideways movements.
Tread made of polyurethane





Code	Diameter	Load Capacity/Wheel	Weight/Wheel
OMW120P	120 mm	100 kg	3 kg
OMW152P	152 mm	250 kg	3,5 kg
OMW203P	203 mm	300 kg	8,5 kg
OMW254P	254 mm	500 kg	21 kg
OMW350P	350 mm	1000 kg	51 kg

Movement Directions



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Mecanumwheels

for sideway and rotation movements

Mecanumwheels

The Mecanumwheels were developed for manoeuvring on confined space in any direction. By opposite driving of the single wheels it is possible to rotate with the wagon on one point or to move sideways.

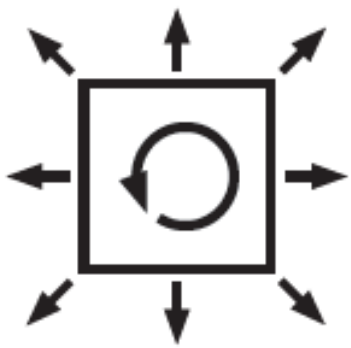


wheels made of polyurethane, also available in polyamide on request

The following sets contain four wheels with two „left" and two „right" versions:

Code	Diameter	Load Capacity/Set	Weight/Set
SETMCW152P	152 mm	300 kg	13 kg
SETMCW152P-HEAVY	152 mm	600 kg	13 kg
SETMCW203P	203 mm	500 kg	35 kg
SETMCW203P-HEAVY	203 mm	800 kg	35 kg
SETMCW254P	254 mm	1200 kg	68 kg
SETMCW305P	305 mm	3000 kg	114 kg
SETMCW355P	355 mm	4000 kg	180 kg

Movement Directions



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Special constructions (on request)

Black scaffold castors

with or without wheel brake, for plug in,
pin diameter 39 mm



Code: LNYS150KRO-Steeldeck



Code: LNYS150KROMFZ-Steeldeck

Spring mounted hinge

Dimensions: 50 x 50 x 3 mm



Code: 00057050-FEDER

Shackle

with pin that cannot get lost,
minimum breaking load 2416 kg



Code: RBF-1667

Lifting jacks

for jacking stage castors with overall
heights of 100, 125 and 155 mm



Code: FFC080, FFC100, FFC125

Ballet castor

with low noise and soft brake,
overall height 138 mm



Code: KLNYS100KUPL1TF-WB



Code: KLPUS100KUPL1TF-WB

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Special constructions (on request)

Swivel castor "Karlsruhe"

with adaptor plug for system frames



for square tube



for round tube



Code: LPU075KUOMFM12 for overall height 115 mm, load 250 kg
LPU080KUOMFM12 for overall height 127,5 mm, load 300 kg
LPU090KUOMFM12 for overall height 135 mm, load 350 kg

Turtle for dance floors

ideal for dancing floors,
overall height 106 mm



Code: TLDMNYS050KUP3-106FL

Turtle "Berlin"

collision diameter only 300 mm,
overall height 166 mm



Code: TLPUS090KUP3-166-300

Black scenery fittings

Plate with threaded pin
Size: 68 x 45 x 50 mm, Thread: M10 x 50



RBF-015

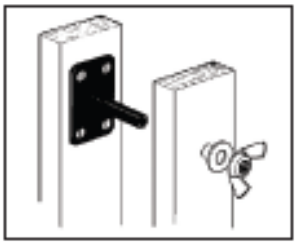
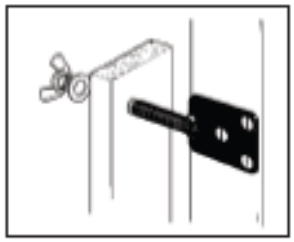


Plate with lateral threaded pin
Size: 115 x 45 x 10 mm, Thread: M10 x 50



RBF-016

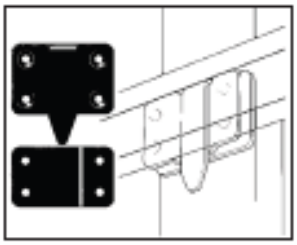


Pelmet clip and socked
Clip: 68 x 65 x 13 mm, Socket: 68 x 40 x 10 mm



RBF-004

RBF-003

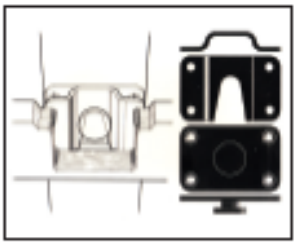


Button pelmet clip and socked
Button: 68 x 45 x 11 mm, Socket: 68 x 45 x 13 mm



RBF-047

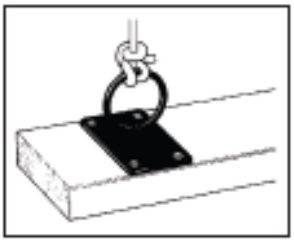
RBF-046



Round ring plate
Size: 68 x 45 x 60 mm



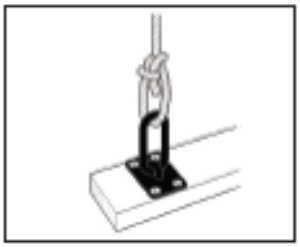
RBF-017



Oval ring plate
Size: 68 x 45 x 75 mm



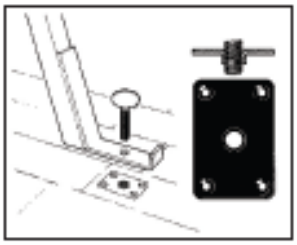
RBF-017HD



Threaded square plate
Size: 68 x 45 x 10 mm, Plate thickness: 3 mm



RBF-014



Threaded round plate
Size: 50 x 10 mm, Plate thickness: 3 mm



RBF-014AC



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Black scenery fittings

Flying iron with D-Ring
Size 370 x 30 x 22 mm



RBF-012



Long socket
Size: 153 x 66 mm



RBF-049

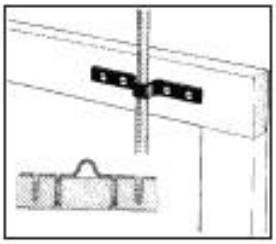


example application

Grummet
Size: 95 x 16 x 15 mm



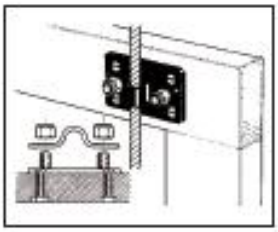
RBF-010



2-part grummet
Size: 68 x 45 x 20 mm



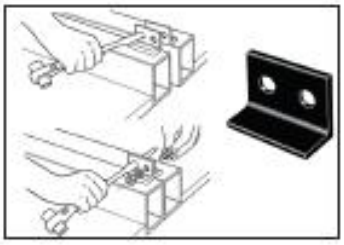
RBF-041



Connecting plates
Size: 40 x 40 x 5 mm, Length: 60 mm



RBF-043



Large grummet
Slot size: 17 x 45 mm



RBF-010MP



Bolt hinge
Size: 106 x 50 x 2 mm



RBF-057



Black T-Hinges
Length: 100 to 450 mm





T=100 mm Code: RBF-200
T=150 mm Code: RBF-201
T=200 mm Code: RBF-206
T=250 mm Code: RBF-207
T=350 mm Code: RBF-208
T=450 mm Code: RBF-205

- **Flanged Castors**
- **Tracks & Rollers**

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5

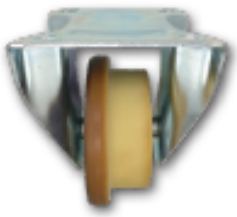
Content	Page
Fixed castors with flanged wheel	5.1
Tracks & Rollers / Fixations	5.2 - 5.11
Hangers / Guide rollers	5.14 - 5.21
Bent tracks / Track door stop	5.22 - 5.23
Self-closing runners	5.24 - 5.25
Transport roller hangers	5.26 - 5.27

Fixed castors with flanged/grooved wheel

Housing: galvanzised steel
Wheel: Vulkollan, full aluminum core, ball bearing
Application: for guiding constructions on a track

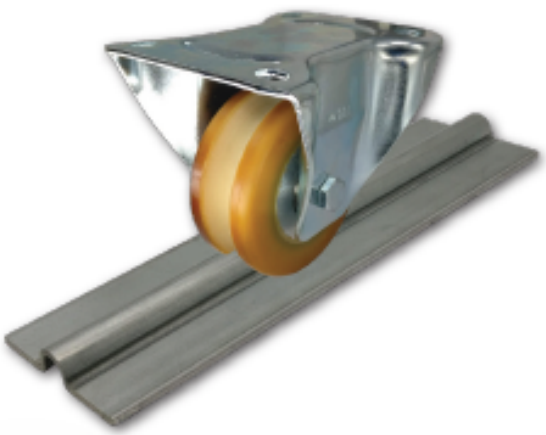
special sizes
available on request

Code					dyn.
	mm	mm	mm	mm	kg
Flanged wheels made of Vulkollan with fixed housing					
BSPVU050KUPL	50x40	72	60x60	38x38/47x47	150
BSPVU080KUP1	80x30	100	105x80	80x60	200
BSPVU080KUP3	80x40	115	135x105	105x80	250
BSPVU100KUP3	100x40	125	135x105	105x80	350
BSPVU125KUP3	125x45	155	135x105	105x80	500
BSPVU150KUP3	150x50	185	135x105	105x80	500
Flanged wheels made of Vulkollan with fixed housing and brake					
BSPVU080KUP3TF	80x40	115	135x105	105x80	250
BSPVU100KUP3TF	100x40	125	135x105	105x80	350
BSPVU125KUP3TF	125x45	155	135x105	105x80	500
BSPVU150KUP3TF	150x50	185	135x105	105x80	500
Vulkollan wheels with round groove in fixed housing					
BVK050KUPL	50x40	72	60x60	38x38/47x47	150
BVK080KUP1	80x30	100	105x80	80x60	200
BVK080KUP3	80x40	115	135x105	105x80	250
BVK100KUP3	100x40	125	135x105	105x80	350
BVK125KUP3	125x45	155	135x105	105x80	500
BVK150KUP3	150x50	185	135x105	105x80	500









more
flanged wheels
on page 7.9

Bottom rails and rollers

Bottom Rails
for screw fixing



Material:
Galvanized steel (Sendzimir)

Features:
Standard length 3 m,
drilled every 590 mm

Bottom rollers with axle
for bottom rail

for hand- and electrically operated steel sliding doors (factory and warehouse doors) with normal, jolt-free acceleration

Material:
Roller made of galvanized steel, axle made of hexagon head bolt with nut

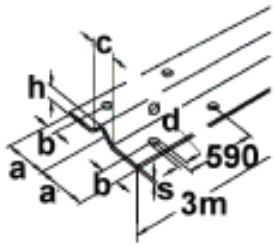
Features:
Fitted with two precision deep-groove ball bearings, without lubricating nipple



bottom rollers also available in polyamide

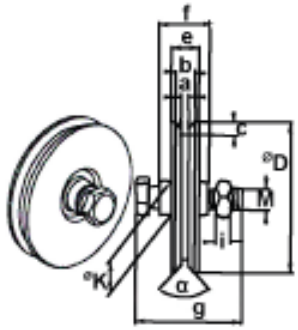
Bottom rails and rollers

Track		82090	82090	82090	82090	82090	82090	82090
Code		82090						
EAN-Nr.		4001455889903						
	a	32,5						
	b	8,5						
	c	33						
	⌀d	6,2						
	h	17						
	s	3						
weight	kg/m	1,7						



max. load capacity in kg		200	200	400	500	550	700	750
code		81508*	81509*	81510	81511	81512	81513	81514
EAN-Nr.		4001455889904	4001455815901	4001455881907	4001455815114	4001455815121	4001455815138	4001455815145
	⌀D	80	100	100	120	140	160	200
	a	5	5	5	5	5	5	5
	b	13	13	21	21	21	21	21
	c	8	8	12	12	12	12	12
	e	20	20	32	32	32	32	32
	f	32	32	44	44	44	44	44
	g	77	77	79	79	79	81	81
	i	11	11	11	11	11	13	13
	⌀K	22	22	22	22	22	26	26
	α	92°	92°	92°	92°	92°	92°	92°
thread	M	M 14	M 14	M 14	M 14	M 14	M 16	M 16
weight/pc	kg	0,65	0,97	1,55	2,25	2,86	3,65	5,55

*with 1 ball bearing



Bottom rails and rollers

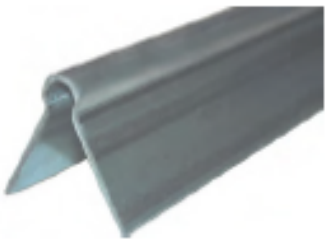
Bottom Rails
for screwing



Material:
Galvanized steel (Sendzimir)

Features:
Standard length 3 m,
drilled every 590 mm.

Bottom Rails
for setting into concrete



Material:
Galvanized steel (Sendzimir)

Features:
Standard length 3 m

Bottom rollers with axle
for bottom rail

for hand- and electrically operated steel sliding doors (factory and warehouse doors) with normal, jolt-free acceleration

Material:
Roller made of galvanized steel, axle made of hexagon head bolt with nut

Features:
Fitted with two precision deep-groove ball bearings, without lubricating nipple

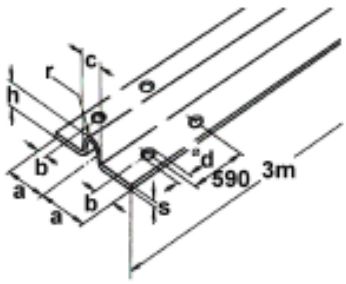


bottom rollers also available in polyamide

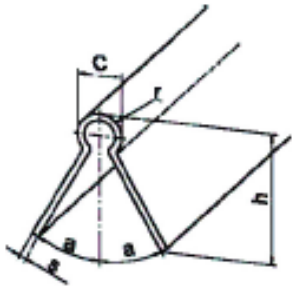
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Bottom rails and rollers

Track		82088	82088	82089	82089	80289	82089	80289
Code		82088		82089				
EAN-Nr.		4001430830880		4001430830897				
	a	29		40				
	b	10		10				
	c	13		19				
	⌀d	6,5		8,5				
	h	10		17				
	r	6		9,5				
	s	2		3,5				
weight	kg/m	1,1		2,55				

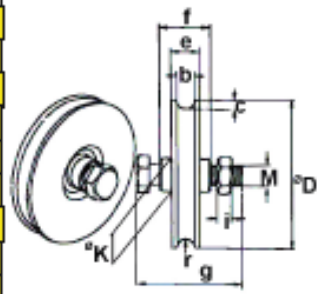


Code				82091				
EAN-Nr.				4001430830910				
	a			33				
	c			19				
	h			60				
	r			9,5				
	s			3,5				
weight	kg/m			3,64				



max. load capacity in kg		200	200	400	500	550	700	750
Code		81501*	81502*	81503	81504	81505	81506	81507
EAN-Nr.		4001430815015	4001430815022	4001430815039	4001430815046	4001430815053	4001430815060	4001430815077
	⌀D	80	100	100	120	140	160	200
	b	12	12	22	22	22	22	22
	c	6	6	10	10	10	10	10
	e	20	20	32	32	32	32	32
	f	32	32	44	44	44	45	45
	g	80	80	79	79	81	81	81
	l	11	11	11	11	13	13	13
	r	6	6	10	10	10	10	10
	⌀K	22	22	22	22	22	26	26
thread	M	M 14	M 14	M 14	M 14	M 14	M 16	M 16
weight/pc	kg	0,65	0,97	1,55	2,25	2,86	3,65	5,55

*with 1 ball bearing



Steel tracks

Steel Track

Material:
Steel, Sendzimir rolled, galvanized

Features:
Standard length 6 m, 2 m or 3 m





bent tracks also available -
page 5.22 / 5.23

Steel Track

Material:
steel, not galvanized

Features:
Standard length 6 m, 2 m or 3 m



Jointing Brackets

Material:
steel, galvanized

Features:
for connecting two tracks, fast screw mounting

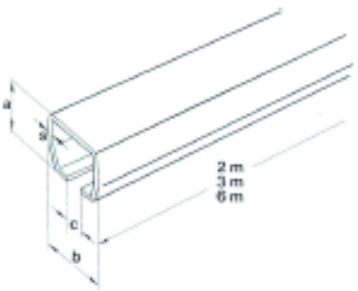


Steel tracks

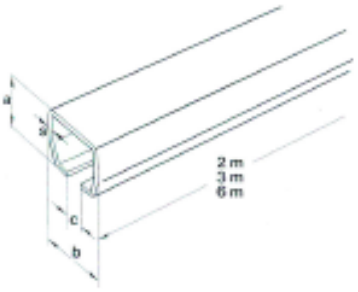
		10	30	40	50	60	70
Track		82100	82102	82104	82106	82108	82118
F = max door weight in kg		80	180	400	750	1200	2000
Code	2m	82138	82120	82122	82163	82170	82171*
	3m	82136	82121	82123	82137	82139	82185*
	6m	82100	82102	82104	82106	82108	82118*
EAN-Nr.	2m						
	3m						
	6m						
	a	28	35	43,5	60	75	110
	b	30	40	48,5	65	80	90
	c	8	10	15	18	22	25
	s	1,8	2,8	3,2	3,8	4,5	7
weight	kg/m	1,8	2,51	3,45	5,39	8,57	15,86



*galvanized

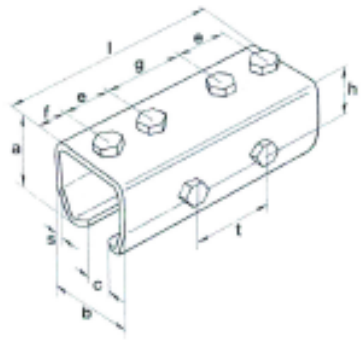


Code	2m	82173	82174	82175	82176	82177	82178
	3m	82179	82180	82181	82182	82183	82184
	6m	82125	82126	82124	82127	82128	82129
EAN-Nr.	2m						
	3m						
	6m						
	a	28	35	43,5	60	75	110
	b	30	40	48,5	65	80	90
	c	8	10	15	18	22	25
	s	1,8	2,8	3,2	3,8	4,5	7
weight	kg/m	1,8	2,51	3,45	5,39	8,57	15,86



Code		85200	85201	85202	85203	65019	85204*
EAN-Nr.							
	a	35	45	55	75	98	135
	b	37,5	50	60	80	98	115
	c	10	16,5	19	25	28	32
	e	15	25	28	50	55	70
	f	12	12	24	18	18	20
	g	24	41	40	45	45	40
	h	80	19,5	19	32	35	65
	l	80	115	145	180	205	220
	s	3	4	4	6	8	10
	t	24	41	50	45	40	40
weight/pc	kg	0,23	0,58	0,82	2,04	3,96	6,89

* with additional hexagon nuts



Fixing brackets

Welding Brackets

for track attachment to steel construction

Material:
ungalvanized steel

Features:
Max. span 750 mm between two brackets



Soffit fixing brackets

for track mounting below ceilings

Material:
galvanized steel

Features:
Max. span 750 mm between two brackets



Side fixing brackets

for track attachment to walls

Material:
galvanized steel

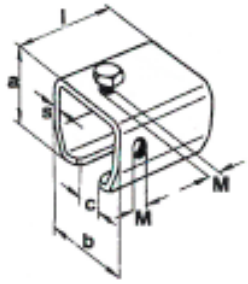
Features:
Max. span 750 mm between two brackets



Fixing brackets

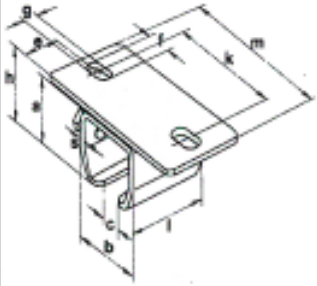
		10	30	40	50	60	70
Track		82100	82102	82104	82106	82108	82110
Code		85160	85161	85162	85163	65023	65014*
EAN-Nr.		4001435601600	4001435601617	4001435601624	4001435601631	4001435650634	4001435650443
	a	35	45	55	73,5	98	133
	b	37,5	50	60	80	102	116,5
	c	11	15	20	27	25	32
	l	40	55	66	85	110	110
	s	3	4	4	6	8	10
thread	M	M 6	M 8	M 8	M 8	M 10	M 12
weight/pc	kg	0,1	0,23	0,39	0,97	2,1	3,3

* with additional nuts to fit the screws



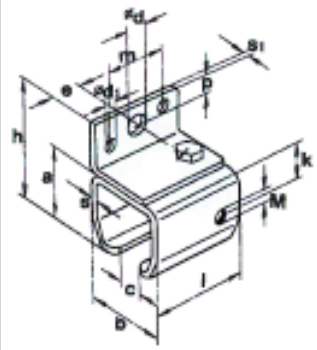
Code		85180	85181	85182	85183	65025	65015*
EAN-Nr.		4001435601600	4001435601617	4001435601624	4001435601631	4001435650336	4001435650159
	a	35	45	55	75	98	136
	b	37,5	50	60	80	97	115
	c	11	16,5	20	25	28	32
	e	20	27	32,5	45	55	50
	f	17	19	21	28	30	34
	g	9	11	13	17	20,5	21
	h	38	48	58	82	106	146
	k	70	80	93	124	148	167
	l	40	54	65	82	111	110
	m	100	115	130	170	210	225
	s	3	4	4	6	8	10
weight/pc	kg	0,19	0,41	0,75	1,8	3,9	5,25

* with additional nuts to fit the screws



Code		85170	85171	85172	85173	65024	65016*
EAN-Nr.		4001435601709	4001435601716	4001435601723	4001435601730	4001435650341	4001435650166
	a	35	45	55	74	98	135
	b	37,5	50	60	80	97	115,5
	c	11	16,5	20	25	25	32
	⌀d	10	12	12	17	20,5	26
	⌀d¹	5	6,5	8	8	10	8,5
	e	20	27	32	42	49,8	55
	h	60	74	95	125	156	204
	k	15	20	20	31,5	35	63
	l	40	55	65	85	110	110
	m	25	33	44,5	53	70	70
	p	11	12	16,5	22	25	30
	s	3	4	4	6	7	10
	s¹	3	4	4	6	7	11
thread	M	M 6	M 8	M 8	M 8	M 10	M 12
weight/pc	kg	0,17	0,35	0,58	1,37	2,49	4,87

* with additional nuts to fit the screws



Angle plates

Angle plates
for 1 vertically adjustable bracket

Material:
galvanized steel

Features:
For vertical track alignment and wide-range adjustment of standoff from wall; max. span 750 mm between two angle plates.



Angle plates, short
for 1 vertically adjustable bracket

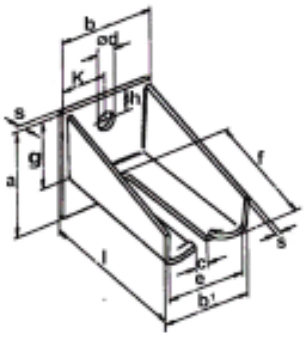
Material:
galvanized steel

Features:
For vertical track alignment adjustment of standoff from wall; max. span 750 mm between two angle plates.

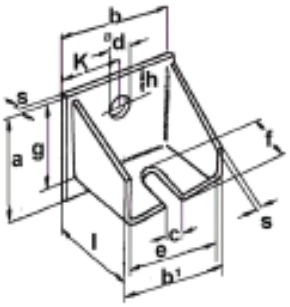


Angle plates

Code			85211	85212	85217
EAN-Nr.			4001436683119	4001436683126	4001436683171
	a		75	110	130
	b		70	80	130
	b¹		70	80	115
	c		16,5	20,5	31
	⌀d		12,5	20,5	26
	e		62	68	95
	f		100	95	90
	g		70	80	80
	h		15,2	24,5	31
	k		35	40	65
	l		128	115	132
	s		4	6	10
weight/pc	kg		0,26	0,79	3,2



Code			85210			
EAN-Nr.			4001436683102			
	a		75			
	b		70			
	b¹		70			
	c		16,5			
	⌀d		12,5			
	e		62			
	f		37,5			
	g		70			
	h		15			
	k		35			
	l		60			
	s		4			
weight/pc	kg		0,41			



BJERRING – Tykhøjetvej 20 – Hal 5 – 7323 Give – Tlf. +45 77345206 - mail: salg@bjerring-sales.dk bjerring-sales.dk – sunswim.dk – bjerring-shop.dk – bjerring-furniture.dk

Angle plates

Angle plates, long
for 2 vertically adjustable brackets

Material:
galvanized steel

Features:
For vertical track alignment and wide-range adjustment of standoff from wall; max. span 750 mm between two angle plates.



Double track supports
for 2 vertically adjustable bracket

Material:
galvanized steel

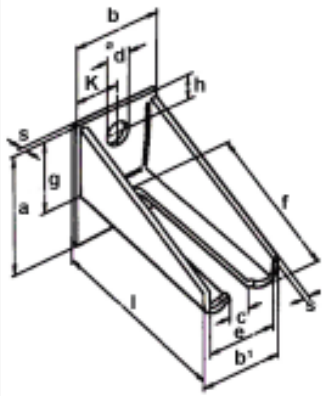
Features:
For sliding doors running on parallel tracks; permits alignment of 2 tracks, max. span 750 mm between two supports.



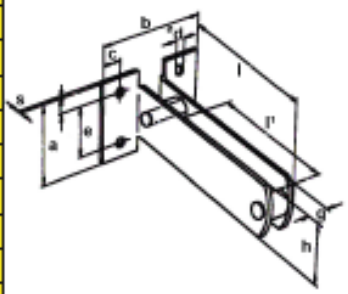
Note the maximum rated load!

Angle plates

		10	30	40	50	60	70
Track		82100	82102	82104	82106	82108	82118
max. load capacity per piece in kg			400		750	1200	
Code			85213		85214	65011	
EAN-Nr.							
	a		75		110	98,5	
	b		70		80	90	
	b¹		70		80	92,5	
	c		16,5		20,5	25,5	
	⌀d		12,5		20,5	18	
	e		62		68	75,5	
	f		100		154	124,5	
	g		70		80	69	
	h		15,2		24,5	25	
	k		35		40	45	
	l		128		175	158	
	s		4		6	8	
weight/pc	kg		0,26		1,69	1,91	



max. load capacity per piece in kg		80	400	500		
Code		81301	81354	81379		
EAN-Nr.						
	a	50	80	90		
	b	55	95	110		
	c	10	17,5	21		
	⌀d	6,4	8,5	10,5		
	e	35	50	65		
	f	7,5	15	13		
	g	14	15,5	21,5		
	h	25	50	50		
	k	113	180	212		
	l	65	130	155		
	s	3	4	5		
weight/pc	kg	0,19	0,76	1,18		



Hangers

Hangers
four-roller type

Material:
Strip steel support; steel attaching screw, rollers; all galvanized, version with polyamide wheels (PA6)*

Features:
Four rollers with ball bearing; attaching screw permits easy assembly and disassembly as well as vertical and horizontal adjustment.



Hangers
eight-roller type

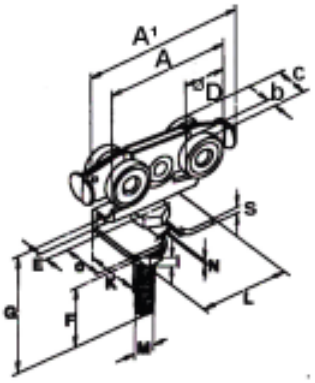
Material:
Strip steel support; steel attaching screw, rollers; all galvanized

Features:
Eight rollers with ball bearing; attaching screw permits easy assembly and disassembly as well as vertical adjustment.



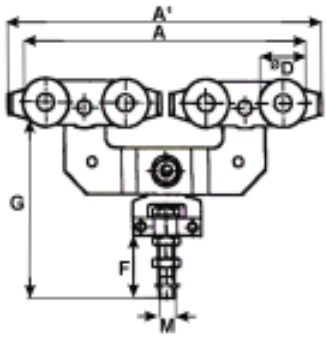
Hangers

		10	30	40	50	60	70
Track		82100	82102	82104	82106	82108	82118
max. load capaicty per piece in kg		40 30*	90 60*	200 100*	375 200*	600 300*	1000
Code		85000	85002	85006	85010	65017	85024
EAN-Nr.		4001432650009	4001432650023	4001432650061	4001432650108	4001432650173	4001432650245
	heat resistant	85084	85085				
EAN-Nr.		4001432650948	4001432650986				
special thread M16				85035			
EAN-Nr.				4001432650351			
Code	PA6*	85614*	85615*	85616*	85617*	85618*	
EAN-Nr.	PA6*	4001432650614	4001432650553	4001432650163	4001432650179	4001432650186	
	b	7	8	10	15	16	20
	c	20	25	32	43	52	56
	i	8	6	7	8	10	10
	o	16	25	35	33	29	36
	s	3	4	5	8	8	10
	A	77	84	127,5	145	147	354
	A¹	87,5	91	138	158	156	360
	E	12	16	17	28	30	31
	⌀D	23	28	34	48	60	95
	F	50	63	62	68	80	86
	G	78	95	109	118	125	163
	K	30	39	54	60	60	68
	L	50	60	80	100	100	158
	N	1,5	2,5	2,5	3	3	4
thread	M	M 10	M 12	M 14	M 16	M 20	M 24
weight/pc	kg	0,25	0,43	0,9	1,95	2,6	8,52



max. load capaicty per piece in kg					600	1000	2000
Code					85027	85016	85025
EAN-Nr.					4001432650376	4001432650260	4001432650352
	b				15	16	20
	c				43	52	56
	i				10	10	10
	A				318	313	455
	A¹				330	332	492
	⌀D				48	60	95
	F				60	60	60
	G				189,5	170	275
	L				-	-	122
	N				3	3	3
thread	M				M 20	M 20	M 20
weight/pc	kg				3,9	4,8	17,6

8 rollers



Hangers

Hangers
four-roller type

Material:
Strip steel support,
rollers plastic

Features:
Four rollers with plain bearing,
without screw



Hangers
four-roller type

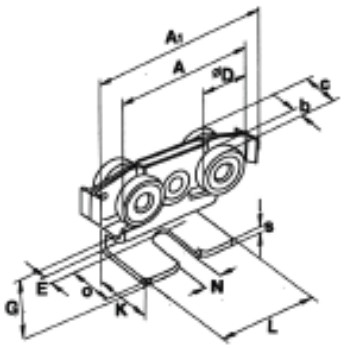
Material:
Strip steel support; steel attaching screw,
rollers made out of steel; galvanized or rollers
made out of polyamide (PA6)*

Features:
Four rollers with ball bearing; attaching screw
permits easy assembly and disassembly
as well as vertical adjustment.

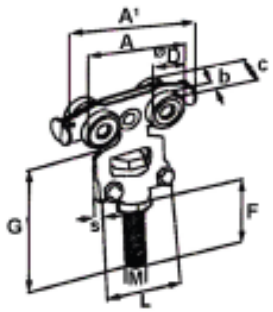


Hangers

		10	30	40	50	60	70
Track		82100	82102	82104	82106	82108	82118
max. load capacity per piece in kg				100 150*			
Code				85061			
EAN-Nr.				4001435000610			
Code				85067*			
EAN-Nr.				4001435000672			
	b			8			
	c			30,5			
	o			34,5			
	s			4			
	A			87			
	A¹			90,5			
	E			5,5			
	⌀D			34			
	G			30			
	K			40			
	L			60			
	N			12,6			
thread	M			M 12			
weight/pc	kg			0,319			



Track		82100	82102	82104	82106	82108	82118
max. load capacity per piece in kg		40 30*	90 60*	200 100*	375 200*	600 300*	
Code		85001	85003	85007	85011	85015	
EAN-Nr.		4001435000016	4001435000030	4001435000078	4001435000115	4001435000153	
Code	PA6*	85619*	85620*	85621*	85622*	85623*	
EAN-Nr.	PA6*	4001435000193	4001435000209	4001435000216	4001435000223	4001435000230	
	b	7	8	10	15	16	
	c	20	26	32	44	51	
	s	3	4	5	6	6	
	A	77	84	127	143	146	
	A¹	87	90	138	156	156	
	⌀D	23	28	34	48	60	
	F	40	51	47	52	70	
	G	72	91	94	112	127	
	L	48	56	65	78	78	
thread	M	M 10	M 12	M 14	M 16	M 20	
weight/pc	kg	0,25	0,44	0,84	1,68	2,32	



Guide Rollers

Plastic guide rollers
for screw mounting

Material:
Roller made of polyamide, axle and nuts
made of galvanized steel

Features:
plain bearing



Plastic guide rollers
for screw mounting

Material:
Roller made of polyamide, axle and nuts
made of galvanized steel

Features:
plain bearing



Plastic guide rollers
for screw mounting

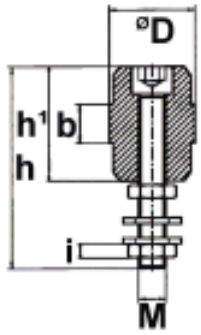
Material:
Roller made of polyamide, axle and nuts
made of galvanized steel

Features:
plain bearing

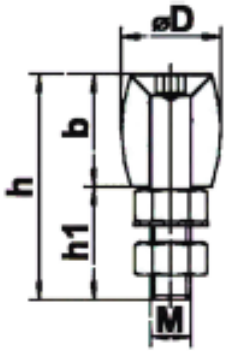


Guide Rollers

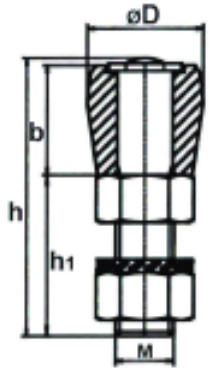
Code		62039	
EAN-Nr.		4001432630361	
	øD	44	
	b	20	
	h	104	
	h¹	59	
	i	7	
thread	M	M 14	
weight/pc	kg	0,28	



max. load capacity per piece in kg		40		
Code		85143		
EAN-Nr.		4001432851433		
	øD	20		
	b	23		
	h	45		
	h¹	22		
thread	M	M 8		
weight/pc	kg	0,03		



max. load capacity per piece in kg		80		
Code		85150		
EAN-Nr.		4001432851901		
	øD	32		
	b	30		
	h	76		
	h¹	45		
thread	M	M 16		
weight/pc	kg	0,18		



Guide Rollers

Plastic guide rollers
for screw mounting

Material:
Roller made of polyamide, axle and nuts made of galvanized steel or inox

Features:
plain bearing or ball bearing



Steel guide rollers
for screw mounting

Material:
galvanized steel or inox

Features:
with one ball bearing, water resistant



Steel guide rollers
for welding

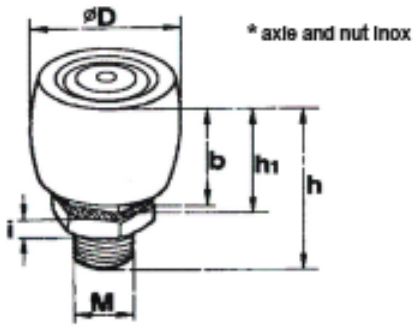
Material:
galvanized steel

Features:
with one ball bearing, water resistant

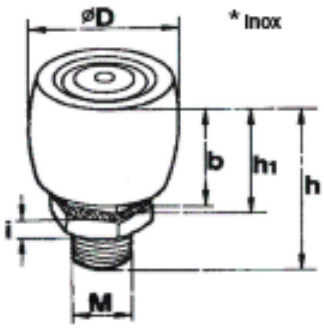


Guide Rollers

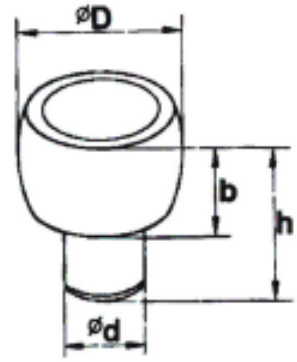
without track					
max. load capacity per piece in kg		150	400		
Code		62044	62089*		
EAN-Nr.					
	⌀D	48	75		
	b	40,5	50		
	h	79,5	96		
	h¹	51,5	-		
	i	10	10		
thread	M	M 20	M 20		
weight/pc	kg	0,31	0,31		



max. load capacity per piece in kg		200	200	750	2000
Code		62045	62038*	62046	62097
EAN-Nr.					
	⌀D	48	48	100	115
	b	30	30	40	60
	h	65	65	90	130
	h¹	35	35	50	62
	i	8	8	12	21
thread	M	M 16	M 16	M 24	M 42
weight/pc	kg	0,45	0,45	2,47	7,5



max. load capacity per piece in kg		200	750	2000	
Code		62048	62049	62098	
EAN-Nr.					
	⌀D	48	100	115	
	b	30	40	60	
	⌀d	25	40	60	
	h	60	90	120	
weight/pc	kg	0,47	2,76	7,88	



Bent tracks

Bogen 90°
Material: Stahl, sendz. verzinkt
Normradien: Art. 82200 R=500 mm, Art. 82202-82206 R=600 mm,
Art. 82208 R= 800 mm



Bogen 45°
Material: Stahl, sendz. verzinkt
Normradien: Art. 82230 R=500 mm, Art. 82231-82233 R=600 mm,
Art. 82234 R= 800 mm



Bogenabschnitt 20° Material: Stahl, sendz. verzinkt
Normradien: Art. 82201 R=500 mm, Art. 82203-82207 R=600 mm,
Art. 82209 R= 800 mm



Oberbogen 20° Material: Stahl, sendz. verzinkt
Normradien: Art. 82210 R=500 mm, Art. 82212-82216 R=600 mm,
Art. 82218 R= 800 mm



Unterbogen Material: Stahl, sendz. verzinkt
Normradien: Art. 82211 R=500 mm, Art. 82213-82217 R=600 mm,
Art. 82219 R= 800 mm



Track door stop

Track door stop

Material:
galvanized steel, rubber buffer

with end cap for fixation inside the track



Track door stop

Material:
galvanized steel, rubber buffer

for fixation inside the track





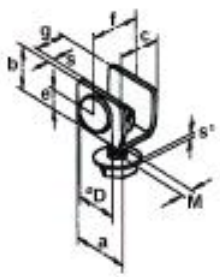
Bent tracks

Laufschienen			82100	82102	82104	82106	82108	82118
	Art.-Nr.	R=500 mm	82200					
		R=600 mm		82202	82204	82206		auf Anfrage
		R=800 mm					82208	
	EAN-Nr.	R=500 mm	4001425822206					
		R=600 mm		4001425822220	8400142522044	4001425822068		
		R=800 mm					4001425822082	auf Anfrage
	Art.-Nr.	R=500 mm	82230					
		R=600 mm		82231	82232	82233		
		R=800 mm					82234	
	EAN-Nr.	R=500 mm	4001425822303					
		R=600 mm		4001425822310	4001425822327	4001425822334		
		R=800 mm					4001425822341	
	Art.-Nr.		82201	82203	82205	82207	82209	
	EAN-Nr.		4001425822013	4001425822037	4001425822051	4001425822075	4001425822099	
	Art.-Nr.		82210	82212	82214	82216	82218	
	EAN-Nr.		4001425822105	4001425822129	4001425822143	4001425822167	4001425822181	
	Art.-Nr.		82211	82213	82215	82217	82219	
	EAN-Nr.		4001425822112	4001425822136	4001425822150	4001425822174	4001425822198	

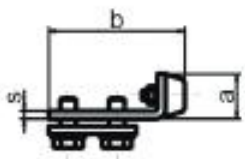
Track door stop



Track		82100	82102	82104	82106	82108	82118
code		85114	85115	85116	85117		
EAN-Nr.							
	a	25,5	33	39	55		
	b	24	27,5	34	50		
	c	19	24	28	36,5		
	e	12	17	22,5	30		
	f	31	36	40	47,5		
	g	15	18	20	25		
	s	2	3	4	5		
	s¹	1	2	2,5	2,5		
	⌀D	14,5	20	20	20		
thread	M	M 8	M 10	M 12	M 16		
weight	kg	0,04	0,1	0,15	0,38		



code		85101	85104	85105	85106
EAN-Nr.					
special stopper			85109		
EAN-Nr.					
	a	22	30	46	60
	b	61	69	98	82
	s	4	5	8	8
weight	kg	0,12	0,21	0,64	0,74



Self-closing runner 500mm

Self-closing runner 500mm

length 500 mm

of steel, galvanized

steel roles with ball

bearing, delivery in pairs



Self-closing runner 600mm

length 600 mm

of steel, galvanized

steel roles with ball

bearing, delivery in pairs



Self-closing runner 800mm

length 800 mm

of steel, galvanized

steel roles with ball

bearing, delivery in pairs



Self-closing runner 1000mm

length 1000 mm

of steel, galvanized

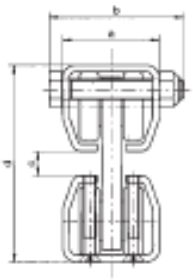
steel roles with ball

bearing, delivery in pairs

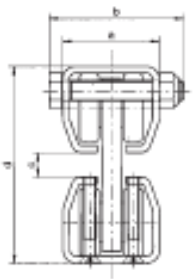


Self-closing runner 500mm

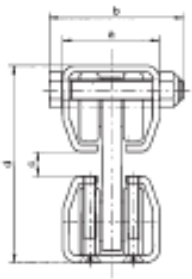
Rails



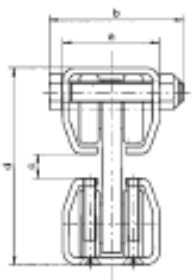
			82100	82102	82104	82106	82108	82110	
Art.-Nr.	galvanized	500 mm	84531	84470	84473	84476	84479		
EAN-Nr.			4001425845319	4001425844701	4001425844732	4001425844763	4001425844794		
Art.-Nr.	galvanized	500 mm		84471	84474	84477	84480		
EAN-Nr.				4001425844718	4001425844749	4001425844771	4001425844803		
Art.-Nr.	blank	500 mm		84472	84475	84478	84481		
EAN-Nr.				4001425844725	4001425844756	4001425844787	4001425844817		
load capacity kg			80	200	400	750	1200		
measures in mm	a		30	40	48	65	80		
	b		36	55	60	90	110		
	c		10	11	19	25	37		
	d		68	80	106	143	186		



Art.-Nr.	galvanized	600 mm		84482	84485	84488	84496		
EAN-Nr.				4001425844824	4001425844855	4001425844886	4001425844961		
Art.-Nr.	galvanized	600 mm		84483	84486	84489	84497		
EAN-Nr.				4001425844831	4001425844862	4001425844893	4001425844978		
Art.-Nr.	blank	600 mm		84484	84487	84495	84498		
EAN-Nr.				4001425844848	4001425844879	4001425844954	4001425844985		
load capacity kg				200	400	700	1000		
measures in mm	a			40	48	65	80		
	b			55	60	90	110		
	c			11	19	25	37		
	d			80	106	143	186		



Art.-Nr.	galvanized	800 mm		84499	84502	84505	84508		
EAN-Nr.				4001425844992	4001425845029	4001425845052	4001425845081		
Art.-Nr.	galvanized	800 mm		84500	84503	84506	84509		
EAN-Nr.				4001425845005	4001425845036	4001425845067	4001425845098		
Art.-Nr.	blank	800 mm		84501	84504	84507	84510		
EAN-Nr.				4001425845012	4001425845043	4001425845074	4001425845104		
load capacity kg				180	350	600	800		
measures in mm	a			40	48	65	80		
	b			55	60	90	110		
	c			11	19	25	37		
	d			80	106	143	186		



Art.-Nr.	galvanized	1.000 mm		84511	84514	84517	84528		
EAN-Nr.				4001425845111	4001425845142	4001425845173	4001425845281		
Art.-Nr.	galvanized	1.000 mm		84512	84515	84518	84529		
EAN-Nr.				4001425845128	4001425845159	4001425845181	4001425845296		
Art.-Nr.	blank	1.000 mm		84513	84516	84519	84530		
EAN-Nr.				4001425845135	4001425845166	4001425845197	4001425845302		
load capacity kg				150	300	500	700		
measures in mm	a			40	48	65	80		
	b			55	60	90	110		
	c			11	19	25	37		
	d			80	106	143	186		

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Transport roller hanger

Rails

galvanizsed steel

6 m length



Transport roller hanger, two roles

basement of plastic with bore and plastic roles with friction bearing



Transport roller hanger, four roles

basement of plastic with bore and plastic roles with friction bearing or ball bearing



Transport roller hanger, two roles

basement of steel, galvanized with bore, steel roles, galvanized with ball bearing
long design, suitable for light curtains, nets etc.



Transport roller hanger, two roles

basement of steel, ungalvanized, steel roles, galvanized with ball bearing

to weld on



Transport roller hanger, four roles

basement of steel, galvanized with thread; steel roles, galvanized with ball bearing



Transport roller hanger, two roles

basement of steel, galvanized with bore, steel roles,
galvanized with ball bearing





Transport roller hanger, two roles

basement of steel, galvanized with bore, steel roles,
galvanized with ball bearing



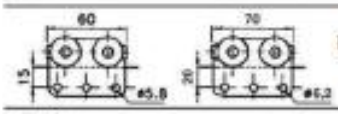
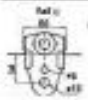
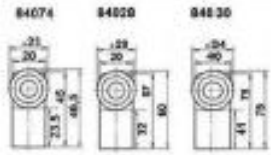
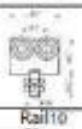
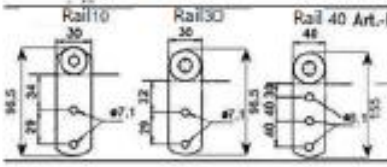
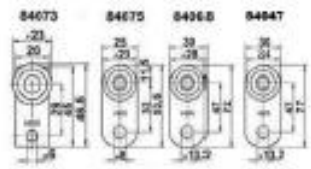
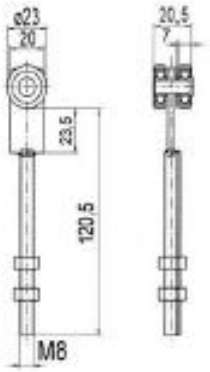
Transport roller hanger, two roles

with steel roles, galvanized with ball bearing

with screw thread M8



Transport roller hanger

Rails			82100	82102	82104	82106	82108	82118
	a x b in mm		28 x 30	35 x 40	43,5 x 48,5	60 x 65	75 x 80	110 x 90
	length in mm		6000	6000	6000	6000	6000	6000
	Art.-Nr.		82100	82102	82104	82106	82108	82118
	EAN-Nr.		4001425821009	4001425821023	4001425821047	4001425821061	4001425821085	4001425821184
	Art.-Nr. plain bearing	5 kg	85056					
	ball bearing	8 kg	84011	84010				
	EAN-Nr.	5 kg	4001425850569					
		8 kg	4001425840116	4001425840109				
	Art.-Nr. ball bearing	10 kg	84012					
		15 kg	84013	84015				
	EAN-Nr.	10 kg	4001425840123					
		15 kg	4001425840130	4001425840154				
 * wheel in steel ball bearing	Art.-Nr.	50 kg			84092 *			
	EAN-Nr.	50 kg			4001425840925			
	Art.-Nr.	30 kg	84074					
		50 kg		84028				
		100 kg			84030			
	EAN-Nr.	30 kg	4001425840041					
		50 kg		4001425840294				
		100 kg			4001425840307			
	Art.-Nr.	45 kg	84078					
	EAN-Nr.	45 kg	4001425840789					
	Art.-Nr.	10 kg	84016					
		20 kg		84053				
		50 kg			84055			
	EAN-Nr.	10 kg	4001425840161					
		20 kg		4001425840536				
		50 kg			4001425840550			
		10 kg	84075					
	Art.-Nr.	10 kg	84073					
		50 kg			84047			
	Art.-Nr.	20 kg		84068				
	EAN-Nr.	10 kg	4001425840758					
		10 kg	4001425840734					
		50 kg			4001425840475			
		20 kg		4001425840680				
	Art.-Nr.	40 kg	84048					
	EAN-Nr.	40 kg	4001425840482					

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Rope pulleys

- polyamide
- cast iron
- steel

6

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Wire rope blocks / Safety tackle blocks	6.28 - 6.30

Rope pulleys made of polyamide No. 901



All dimensions in mm

Outside-Ø	15	20	25	30	40/1	40/2
Groove base Ø	9	12	17	18	27	32
Groove radius	3	3	3,5	4	4,5	4
Groove depth	3	4	4	6	6	4
Rim width	9	10	12	14	13	12
Bore for axle	4	4	4	6	7	6
Hub length	9	10	12	14	13	15
Hub Ø	-	-	-	12	15	15
Rope Ø max.	6	6	7	8	8	8
Loading capacity in kg	15	16	18	20	23	35
Weight in kg approx.	0,002	0,003	0,005	0,006	0,009	0,007

Outside-Ø	48	50/1	50/2	53	58	60/1
Groove base Ø	40	32	40	25	38	38
Groove radius	4	6	2	7,5	7	10
Groove depth	4	9	5	14	10	11
Rim width	12	16	10	24	19	30
Bore for axle	8	7	15	10	8	12
Hub length	15	16	11	25	20	18
Hub Ø	17	16	25	25	18	-
Rope Ø max.	8	11	4	14	13	19
Loading capacity in kg	42	28	30	60	30	90
Weight in kg approx.	0,011	0,019	0,017	0,029	0,029	0,044

Outside-Ø	60/2	60/3	65/1	65/2	67	73
Groove base Ø	52	38	43	57	49	65
Groove radius	4,5	10	8	4	3	4
Groove depth	4	11	11	4	9	4
Rim width	20	30	21	12	12	13
Bore for axle	8	10	9	8	10	10
Hub length	27	32	22	15	13,5	17
Hub Ø	20	28	21	17	19	20
Rope Ø max.	9	19	15	8	6	8
Loading capacity in kg	50	90	32	50	50	55
Weight in kg approx.	0,040	0,050	0,040	0,020	0,020	0,040

Rope pulleys
made of polyamide

Rope pulleys made of polyamide No. 901



All dimensions in mm

Outside-Ø	75	76	78	80	100/1	100/2
Groove base Ø	51	66	70	62	84	76
Groove radius	8,5	5	4	6	2	8
Groove depth	12	5	4	9	8	12
Rim width	24	16	12	21	12	25
Bore for axle	10	11	10	12	10	15
Hub length	24	17	14	25	17	27
Hub Ø	22	20	17	30	30	38
Rope Ø max.	16	10	8	12	3	16
Loading capacity in kg	35	90	60	140	85	210
Weight in kg approx.	0,070	0,050	0,040	0,080	0,080	0,130

Outside-Ø	100/3	100/4	120/1	120/2	120/4	126
Groove base Ø	68	90	88	114	90	102
Groove radius	14	5	9	2,5	6	7,5
Groove depth	16	5	16	3	15	12
Rim width	42	16	27	25	22	35
Bore for axle	20	14	15	20	20	30
Hub length	27	28	33	30	28	42
Hub Ø	-	30	40	45	50	70
Rope Ø max.	27	10	17	5	12	14
Loading capacity in kg	270	100	300	100	240	500
Weight in kg approx.	0,205	0,100	0,190	0,240	0,230	0,420

Outside-Ø	130	150/1	150/2	152	174	205
Groove base Ø	110	110	136	132	150	171
Groove radius	3,5	12,5	8	3	18	5
Groove depth	10	20	7	10	12	17
Rim width	17	34	32	28	45	29
Bore for axle	15	20	25	18	15	20
Hub length	30	42	42	30	45	39
Hub Ø	30	46	60	45	55	60
Rope Ø max.	6	24	15	6	34	10
Loading capacity in kg	150	410	450	220	250	300
Weight in kg approx.	0,200	0,340	0,400	0,410	0,490	0,560

Rope pulleys
made of polyamide

Rope pulleys made of polyamide No. 903
with integrated precision ball bearing



All dimensions in mm

Outside-Ø	40	50	65/1	65/2	71	78/1
Groove base Ø	30	38	53	55	62	56
Groove radius	2,5	2	2,5	4	2,2	4
Groove depth	5	6	6	5	4,5	11
Rim width	13	13	13	12	12,5	15
Bore for axle	8	10	10	10	10	10
Hub length	13	13	13	12	12,5	15
Rope Ø max.	5	4	5	8	4	8
Type of bearing	608ZZ	6000ZZ	6000ZZ	6000ZZ	6000ZZ	6000ZZ
Loading capacity in kg	50	50	81	140	100	138
Weight in kg approx.	0,02	0,03	0,04	0,05	0,06	0,06

Outside-Ø	78/2	80/1	80/2	98	134
Groove base Ø	66	68	50	80	116
Groove radius	6	2	4	3	2,6
Groove depth	6	6	15	9	9
Rim width	19	12	21	20	15
Bore for axle	15	10	15	10	12
Hub length	19	12	21	20	15
Rope Ø max.	11	4	8	6	5
Type of bearing	6202ZZ	6000ZZ	6202ZZ	2x 6000ZZ	6201ZZ
Loading capacity in kg	245	85	225	150	145
Weight in kg approx.	0,09	0,06	0,10	0,12	0,17

Galvanized rope blocks
with pulleys No. 901 made of polyamide, case zinc die-cased

No. 411 Galvanized bock rope pulleys, 1 sheave, with a fixed becket



All dimensions in mm.

Outside-Ø	15	20	25	30	40	50
Groove base Ø	9	12	17	18	26	32
Groove radius	3	3	3,5	4	4,5	6
Groove depth	3	4	4	6	7	9
Clear becket dimensions	10 x 14	11 x 15	12 x 17	13 x 21	14 x 25	16 x 25
Total length	50	60	70	80	93	113
Rope Ø max.	5	6	7	8	9	12
Weight in kg approx.	0,02	0,04	0,05	0,08	0,13	0,19

No. 413 Galvanized bock rope pulleys, 1 sheave, with a swivel eye



All dimensions in mm.

Outside-Ø	15	20	25	30	40	50
Groove base Ø	9	12	17	18	26	32
Groove radius	3	3	3,5	4	4,5	6
Groove depth	3	4	4	6	7	9
Clear becket dimensions	13 x 13	16 x 16	16 x 19	18 x 19	28 x 28	28 x 28
Total length	56	69	73	85	108	125
Rope Ø max.	5	6	7	8	9	12
Weight in kg approx.	0,03	0,05	0,06	0,10	0,15	0,21

No. 414 Galvanized bock rope pulleys, 2 sheave, with a fixed becket



All dimensions in mm.

Outside-Ø	15	20	25	30	40	50
Groove base Ø	9	12	17	18	26	32
Groove radius	3	3	3,5	4	4,5	6
Groove depth	3	4	4	6	7	9
Clear becket dimensions	10 x 14	11 x 15	12 x 17	13 x 21	16 x 25	16 x 25
Total length	50	60	70	80	105	117
Rope Ø max.	5	6	7	8	9	12
Weight in kg approx.	0,04	0,06	0,09	0,13	0,27	0,41

Wire rope pulleys No. 900

made of black polyamide PA 6G with integrated ball bearings, gavanized screws and nuts.



All dimensions in mm.

Outside-Ø	50	60	70	80	100	120
Groove base Ø	37	46	56	65	83	100
Groove radius	1,5	1,6	1,6	2,2	2,2	2,7
Groove depth	6,5	7	7	7,5	8,5	10
Rim width	13	13	16	18	18	18
Bore for axle	6	6	8	8	10	12
Hub length	19	19	26	26	30	30
Rope Ø max.	3	3	3	4	4	5
Type of bearing	6001 ZZ	6001 ZZ	6002 ZZ	6002 ZZ	6003 ZZ	6004 ZZ
Screw dimensions	M6 x 35	M6 x 35	M8 x 45	M8 x 45	M10 x 55	M12 x 60
Loading capacity in kg	100	100	200	200	300	400
Weight in kg approx.	0,07	0,09	0,14	0,16	0,26	0,40

Outside-Ø	150	180	210	240	300
Groove base Ø	130	160	185	206	265
Groove radius	3,5	4,2	4,8	5,3	6,5
Groove depth	10	10	12,5	17	17,5
Rim width	22	22	26	28	30
Bore for axle	14	14	16	16	16
Hub length	34	34	38	38	38
Rope Ø max.	6,5	8	9	10	12
Type of bearing	6004 ZZ	6004 ZZ	6005 ZZ	6005 ZZ	6005 ZZ
Screw dimensions	M14 x 65	M14 x 65	M16 x 70	M16 x 70	M16 x 70
Loading capacity in kg	500	500	800	800	1000
Weight in kg approx.	0,63	0,81	1,20	1,70	2,40

Spare pulleys

No. 16 d Wire rope pulleys made of cast iron

Groove not machined, hub bored, fitting our manilla rope blocks. Also wih red bronze bush (design "R") or roller bearing (design "W").



All dimensions in mm.

Outside-Ø	60	75	90	100	120	130	150	175	200	230
Groove base Ø	48	61	72	80	98	104	120	141	162	184
Groove radius	3	3,5	4,5	5	5,5	6,5	7,5	8,5	9,5	11,5
Groove depth	6	7	9	10	11	13	15	17	19	23
Rim width	15	15	18	20	28	29	32	39	48	57
Bore for axle	11	12	14	14	19	22	25	27	30	35
Hub length	16	16	20	24	30	32	35	43	52	61
Hub Ø	32	33	36	40	46	52	54	60	63	71
Rope Ø max.	6	7	8	9	10	12	14	16	18	22
Loading capacity in kg	75	100	150	250	500	500	1000	1500	2000	3000
Weight in kg approx.	0,18	0,26	0,40	0,57	0,95	1,25	1,60	2,50	4,10	5,80

No. 23 Wire rope pulleys made of cast iron

groove machined, hub bored, fitting gin blocks No. 22 and wire rope guide pulleys No. 829. If required also with red bronze bush (design "R") or roller bearing (design "W").



All dimensions in mm.

Outside-Ø	115	155	220	260	310
Groove base Ø	89	129	184	222	250
Groove radius	5,5	5,5	8,5	9,5	14
Groove depth	13	13	18	19	30
Rim width	25	27	32	40	52
Bore for axle	14	19	22	25	35
Hub length	26	28	35	43	56
Hub Ø	36	48	54	65	85
Rope Ø max.	10	10	16	18	26
Loading capacity in kg	500	1000	2000	3000	5000
Weight in kg approx.	0,90	1,40	3,30	5,20	10,00

Wire rope pulleys
made of cast iron

No. 26 Wire rope pulleys made of cast iron
with oil pocket, solid base and red bronze bush or self-lubricating bush.



All dimensions in mm.

Outside-Ø	200	250	300
Groove base Ø	168	214	260
Groove radius	8,5	11	12
Groove depth	16	18	20
Rim width	30	37	42
Bore for axle	22	32	40
Hub length	34	42	46
Hub Ø	55	85	100
Rope Ø max.	16	22	24
Loading capacity in kg	2000	4000	6300
Weight in kg approx.	2,40	6,00	8,00

No. 27 Heavy wire rope pulleys made of cast iron
groove machined, hub bored, with solid base. If required with red bronze bush (design"R").



All dimensions in mm.

Outside-Ø	110	135	165	190	220	245	270	300	325	350	400
Groove base Ø	92	115	139	160	184	207	230	254	279	300	348
Groove radius	6	6	7	8	10	12	12,5	12,5	12,5	13	14
Groove depth	9	10	13	15	18	19	20	23	23	25	26
Rim width	21	22	24	28	32	37	38	39	39	43	48
Bore for axle	18	20	24	26	28	32	34	40	48	50	60
Hub length	24	24	29	31	36	40	42	42	46	46	50
Hub Ø	50	57	65	72	82	94	100	100	110	120	140
Rope Ø max.	11	11	13	15	19	22	23	23	23	24	26
Loading capacity in kg	1000	1200	1400	1600	1800	1200	2200	2400	2600	2800	3200
Weight in kg approx.	0,80	1,30	2,00	2,90	4,20	6,00	6,80	7,50	9,70	12,00	17,60

Wire rope pulleys
with plain bearing

Please specify in order:
GG/R = PA or cast iron with plain bearing
GG/W = PA or cast iron with roller bearing
ST/R = steel wih plain bearing
ST/W = steel with roller bearing
ST/K = steel with ball bearing

Wire rope pulleys with plain bearing No. 37

cast iron or steel, ani-rust coating, fitting our wire rope blocks. If required also with roller bearing or steel with precision ball bearing. Pulleys with a diameter of 100 - 150 mm made of material PA 6G instead of cast iron, self-lubricating.



All dimensions in mm.

Outside-Ø	100	125	150/1	150/2	175
Groove base Ø	80	105	125	125	145
Groove radius	6	6,5	7,5	7,5	9
Groove depth	10	11	12	12	15
Rim width	21	22	26	26	37
Bore for "R" and "W"	19	22	30	35	40
Bore for "K"	20	25	30	35	40
Hub lenght	23	24	29	29	40
Hub Ø	40	48	63	63	70
Rope Ø max.	11	12	13	13	17
Type of bearing	6004 Z	6005 Z	6006 Z	6007 Z	6008 Z
Loading capacty in kg	500	1000	2000	2000	3000
Weight in kg about	0,15	0,90	1,80	1,80	3,2

Outside-Ø	200	250	310/1	310/2	350
Groove base Ø	170	210	260	260	300
Groove radius	9	12	14	14	15
Groove depth	15	20	25	25	25
Rim width	37	42	50	50	50
Bore for "R" and "W"	40	55	60	65	70
Bore for "K"	40	55	60	65	70
Hub lenght	40	48	56	56	56
Hub Ø	70	85	100	100	110
Rope Ø max.	17	23	26	26	28
Type of bearing	6008 Z	6011 Z	6012 Z	6013 Z	6014 Z
Loading capacty in kg	3000	5000	8000	8000	10000
Weight in kg about	3,70	6,00	8,00	8,00	12,5

Outside-Ø	400	480	490	600
Groove base Ø	340	400	400	500
Groove radius	16	16	18	20
Groove depth	30	35	45	50
Rim width	60	65	65	85
Bore for "R" and "W"	80	85	100	125
Bore for "K"	80	85	100	130
Hub lenght	68	68	80	94
Hub Ø	135	135	155	180
Rope Ø max.	30	30	34	38
Type of bearing	6216 Z	6217 Z	6220 Z	5026 PP
Loading capacty in kg	12500	16000	20000	32000
Weight in kg about	26,00	30,00	32,00	40,00

Wire rope pulleys
made of cast iron

No. 167 Wire rope pulleys made of cast iron
groove not machined, hub bored, without bearing bush.



All dimensions in mm.

Outside-Ø	140	250/1
Groove base Ø	100	185
Groove radius	3	6
Groove depth	20	32
Rim width	28	42
Bore for axle	12	22
Hub length	35	50
Hub Ø	35	35
Rope Ø max.	6	12
Loading capacity in kg	250	250
Weight in kg approx.	1,10	6,30

No. 167 Wire rope pulleys made of cast iron
groove machined, fitting wire rope guide pulleys No. 191 and No. 192. If required some sizes also with ball bearing.
Outside diameter of 60 - 325 mm: self-lubricating bearing with grease chamber.
Outside diameter of 375 - 470 mm: bronze bearing wih lubrication pockets.



All dimensions in mm.

Outside-Ø	60	90	120	150	190
Groove base Ø	48	72	100	125	160
Groove radius	1,5	2	2,5	3	4
Groove depth	6	9	10	12	15
Rim width	13	15	18	22	27
Bore for axle	8	14	14	22	32
Hub length	24	32	35	40	42
Hub Ø	22	32	35	46	62
Rope Ø max.	3	4	5	6	8
Loading capacity in kg	200	300	500	1000	1500
Weight in kg approx.	0,30	0,52	0,85	1,45	2,60

Outside-Ø	235	280	325	375	470
Groove base Ø	200	240	280	320	400
Groove radius	5	6	7	8	10
Groove depth	17	20	22	27	35
Rim width	32	36	41	48	58
Bore for axle	40	50	60	70	70
Hub length	50	62	70	85	90
Hub Ø	78	92	108	120	140
Rope Ø max.	10	12	14	16	20
Loading capacity in kg	2000	3000	4000	6400	10000

Rope sheaves
for wire ropes

Rope sheaves for wire ropes No. 615

former DIN 82236, cast iron or steel, with solid base and self-lubricating bush, Form A fitting span blocks No. 603 former DIN 82223 and No. 605 former DIN 82222, Form B fitting cargo blocks No. 611 former DIN 82226 and No. 614 former DIN 82227. Groove base diameter = 14x rope diameter. All dimensions in mm.

Please specify in order:
A/GG = cast iron pulley for grease lubrication through bolt
A/ST = steel pulley for grease lubrication through bolt
B/GG = cast iron pulley for oil lubrication through hub or self-lubricating bush
B/ST = steel pulley for oil lubrication through groove base or self-lubricating bush
C7GG = cast iron pulley for oil lubrication through groove base or self-lubricating bush
C/ST = steel pulley for oil lubrication through groove base or self-lubricating bush



Nominal size **Outside Ø** Groove base Ø	**1** **195** 170	**2** **260** 224	**3** **320** 280	**4** **380** 335	**5** **430** 375	**6** **460** 400	**8** **515** 450
Groove radius	7	9	11	13	14	15	17
Groove depth	12	18	20	22	27	30	32
Rim width	25	31	39	45	51	57	64
Bore for axle	22	32	40	45	50	55	65
Hub length	27	34	42	48	54	60	67
Hub Ø	55	70	85	90	100	110	120
Rope Ømax.	12	16	20	24	26	28	32
Loading capacit in kg	2000	4000	6300	8000	10000	12500	16000
weight in kg about	3,00	5,00	9,00	13,00	21,00	25,00	35,00

Please specify in order:
GG = cast iron
ST = steel

Rope sheaves for wire ropes No. 604

former DIN 82235, with solid base and red bronze bush, fitting span blocks No. 601 former DIN 82221 and snatch blocks for wire rope No. 617 former DIN 82220.
Groove base Ø = 9x Rope-Ø



All dimensions in mm.

Nominal size	1	2	3	4	5	6	8	10	12
Outside-Ø	135	180	220	260	290	330	365	415	455
Groove base Ø	112	150	180	216	236	270	300	340	375
Groove radius	8	10	12	13	15	17	19	21	23
Groove deph	11	15	20	22	27	30	32	37	40
Rim width	25	31	39	45	51	57	64	71	79
Bore for axle	22	32	40	45	50	55	65	70	80
Hub length	27	34	42	48	54	60	67	75	83
Hub Ø	42	56	70	80	85	96	105	120	125
Rope Ø max.	14	18	22	24	28	32	36	40	44
Loading capacity in kg	2000	4000	6300	8000	10000	12500	16000	20000	25000
Weight in kg about	2,00	4,00	8,00	10,00	12,00	16,00	20,00	28,00	35,00

Please specify in order:
GG = cast iron
ST = steel

Rope sheaves for wire ropes No. 615

with solid base and red bronze bush. Form A fitting span blocks No. 603 former DIN 82223 and No. 605 former DIN 82222. Form B fitting cargo blocks No. 611 former DIN 82226. Groove base Ø = 14x rope Ø.



All dimensions in mm.

Nominal size	1	2	3	4	5	6	8
Outside-Ø	195	260	320	380	290	430	515
Groove base Ø	170	224	180	335	236	375	450
Groove radius	7	9	11	13	14	15	17
Groove deph	12	18	20	22	27	30	32
Rim width	25	31	39	45	51	57	64
Bore for axle	22	32	40	45	50	55	65
Hub length	27	34	42	48	54	60	67
Hub Ø	55	70	85	90	100	110	120
Rope Ø max.	12	16	20	24	26	28	32
Loading capacity in kg	2000	4000	6300	8000	10000	12500	16000
Weight in kg about	3,00	5,00	9,00	13,00	21,00	25,00	35,00

Ball bearing pulley
made of steel

Ball bearing pulleys made of steel No. 1209
hardened, with bicycle type ball bearing.



All dimensions in mm.

Outside-Ø	30	40	50	60	80
Groove base Ø	24	33	43	53	70
Groove radius	3	3,5	3,5	3,5	5
Groove depth	3	3,5	3,5	3,5	5
Rim width	10	11	11	11	13
Bore	7,1	8,1	8,1	8,1	10,2
Hub length	12	12	12	12	16
Rope Ø max.	6	7	7	7	10
Loading capacity in kg	65	85	85	85	130
Weight in kg about	0,04	0,08	0,13	0,21	0,42

Pulleys No. 180

Case made of steel plate. With rope pulleys No. 181 made of steel with maintenance-free ball bearings, groove machined.



All dimensions in mm.

Pulley outside-Ø	85	125	180	240	300	360
Groove base Ø	60	90	135	185	230	280
Groove radius	3,2	4,8	7	9,5	12,5	15
Groove depth	12	17	22	27	35	40
Rim width	21	30	38	50	60	70
Width of base plate	86	127	162	216	252	294
Length of base plate	80	110	170	210	270	320
Size of base plate	5	6	10	15	15	20
Ø of screw-down hole	9	13	17	21	25	32
Distance between holes in axial direction	66	97	127	166	192	234
Distance between holes in longitudinal direction	60	80	130	160	210	260
Overall height	90	128	185	247	307	370
Overall height up to centre of axle	60	71	95	125	155	185
Rope Ø max.	6	9	13	18	23	27
Loading capacity in kg	500	1000	2000	4000	6400	10000
Weight in kg about	1,40	3,70	10,20	23,60	44,00	75,00

Spare pulleys

fitting pulleys No. 180.

No. 181 Rope pulleys made of steel

groove machined, with sealed ball bearings, fitting pulleys No. 180.



All dimensions in mm.

Outside-Ø	85	125	180	240	300	360
Groove base Ø	60	90	135	185	230	280
Groove radius	3,2	4,8	7	9,5	12,5	15
Groove deph	12	17	22	27	35	40
Rim width	21	30	38	50	60	70
Bore for axle	12	20	25	35	45	60
Hub length	17,5	30	32	44	52	64
Hub Ø	40	65	75	110	130	170
Rope Ø max.	6	9	13	18	23	27
Type of ball bearing	6001 RS	6204 RS	6205 RS	6307 RS	6309 RS	6312 RS
Loading capacity in kg	500	1000	2000	4000	6400	10000
Weight in kg about	0,70	1,90	5,40	12,80	24,00	40,00

Pulleys No. 161

Please specify in order:
A = with longitudinal plate
B = with transverse plate

Case made of steel, coated. With rope pulleys No. 28 made of cast iron, hub bored.





All dimensions in mm.

Pulley outside Ø Groove base Ø	80 67	100 83	130 106
Groove width	9	11	13
Groove depth	6,5	8,5	11
Rim width	13	16	19
Width of base plate	40	40	45
Length of base plate	130	142	190
Size of base plate	6	6	6
Ø of screw-down hole	10	10	10
Hole spacing	96	108	156
Overall height	94	115	149
Rope Ø max.	8	10	12
Loading capacity in kg	125	130	150
Weight in kg about	0,57	0,73	1,40

Spare pulleys
fitting pulleys No. 161.

No. 28 Light rope pulleys made of cast iron
with narrow, deep groove. Groove machined, hub bored, with straigh spokes, fitting pulleys No. 161.



All dimensions in mm.

Outside-Ø Groove base Ø	80 67	100 83	130 124
Groove radius	4,5	5,5	7
Groove deph	6,5	8,5	13
Rim width	12	16	21
Bore for axle	8	10	14
Hub length	17	19	25
Hub Ø	20	22	34
Rope Ø max.	7	10	13
Loading capacity in kg	80	130	200
Weight in kg about	0,14	0,30	0,74

Hinged wire rope guide pulleys

No. 191 Hinged wire rope guide pulleys, single sheave

base plate and side plates made of steel. With rope pulleys No. 163 made of cast iron with self-lubricating bearing and grease chamber.



All dimensions in mm.

Pulley outside Ø	120	150	190	235	280	325
Groove base Ø	100	125	160	200	240	280
Groove width	5	6	8	10	12	14
Groove depth	10	12	15	17	20	22
Rim width	18	22	27	32	36	41
Width of base plate	120	170	170	200	220	270
Height of base plate	150	230	240	300	350	380
Size of base plate	6	8	10	12	14	16
Ø of screw-down hole	11,5	11,5	14	18	18	22
Hole spacing width	100	140	140	160	180	220
Hole spacing height	130	200	210	260	310	330
Overall height	112	142	165	199	239	277
Rope Ø max.	4 - 5	5 - 6	6 - 8	8 - 10	10 - 12	12 - 14
Loading capacity in kg	500	1000	1500	2000	3000	4000
Weight in kg about	4,00	6,20	12,00	19,00	26,20	47,00

No. 192 Hinged wire rope guide pulleys, two sheaves

base plate and side plates made of steel. With rope pulleys No. 163 made of cast iron with self-lubricating bearing and grease chamber.



All dimensions in mm.

Pulley outside Ø	120	150	190	235	280	325
Groove base Ø	100	125	160	200	240	280
Groove width	5	6	8	10	12	14
Groove depth	10	12	15	17	20	22
Rim width	18	22	27	32	36	41
Width of base plate	120	170	170	200	220	270
Height of base plate	150	230	240	300	350	380
Size of base plate	6	8	10	12	14	16
Ø of screw-down hole	11,5	11,5	14	18	18	22
Number of screw holes	4	4	6	6	6	6
Hole spacing width	100	140	140	160	180	220
Hole spacing height	130	200	210	260	310	330
Overall height	112	142	165	199	239	277
Space between axles	65	85	90	110	120	150
Rope Ø max.	4 - 5	5 - 6	6 - 8	8 - 10	10 - 12	12 - 14
Loading capacity in kg	500	1000	1500	2000	3000	4000
Weight in kg about	4,00	6,20	12,00	19,00	26,20	47,00

Pulleys
with roller bearing

No. 154 Pulleys with roller bearing
Case galvanized steel, rope pulley made of cast iron.



All dimensions in mm.

Pulley outside Ø	40	50	65
Groove base Ø	32	40	55
Groove width	8	8	8
Groove depth	4	5	5
Rim width	10,5	12	12
Case width	49	49	49
Overall lenght	30	40	50
Ø of screw-down hole	4,5	5	5
Distance in axial direction	36	36	36
Distance in longitudinal direction	19	20	38
Case height	49	62	79
Rope Ø max.	6	7	7
Loading capacity in kg	10	15	18
Weight in kg about	0,12	0,18	0,27

No. 155 Pulleys with roller bearing
Case galvanized steel, rope pulley made of cast iron.



All dimensions in mm.

Pulley outside Ø	40	50	65
Groove base Ø	32	40	55
Groove width	8	8	8
Groove depth	4	5	5
Rim width	10,5	12	12
Case width	30	30	50
Case depth	19	19	20
Ø of screw-down hole	4	4	4
Hole spacing width	18	18	40
Hole spacing height	88	88	110
Overall length	105	105	132
Rope Ø max.	6	7	7
Loading capacity in kg	10	15	18
Weight in kg about	0,16	0,18	0,35

Pulleys
with plain bearing





No. 156 Pulleys with plain bearing

Case galvanized steel, rope pulley made of cast iron. Size 30 mm only with brass pulley.

All dimensions in mm.

Pulley outside Ø	30	40	50	60
Groove base Ø	22	32	42	50
Groove width	6	6	6	8
Groove depth	4	4	4	5
Rim width	10	11,5	12	12
Case width	36,5	40	52	60
Case depth	16	16	17,5	18,5
Ø of screw-down hole	4,5	5,1	5,1	5,1
Hole spacing	62	72	83	90
Overall length	78	91	102	115
Rope Ø max.	5	5	5	7
Loading capacity in kg	10	10	15	18
Weight in kg about	0,10	0,13	0,20	0,26

No. 157 Pulleys with plain bearing

Pulley made of cast iron, case made of galvanized steel. Size 30 mm only with brass pulley

Please specify in order:
A = with longitudial plate
B = with transverse plate



All dimensions in mm.

Pulley outside Ø	30	40	50	60
Groove base Ø	22	32	42	50
Groove width	6	6	6	8
Groove depth	4	4	4	5
Rim width	10	11,5	12	12
Axial length	23	24	52	60
Dimensions of base plate	65 x 27	65 x 27	65 x 27	65 x 27
Ø of screw-down hole	4,5	4,5	4,5	4,5
Hole spacing	42	42	42	42
Overall length	56	56	78	78
Rope Ø max.	5	5	5	7
Loading capacity in kg	10	10	15	18
Weight in kg about	0,10	0,12	0,17	0,19

Pulleys

Pulleys No. 153

Please specify in order:
A = pulley made of cast iron, body, axle and wood screw galvanized steel
B = Pulley and body made of brass, wood screw made of steel



All dimensions in mm.

Pulley outside Ø	20	25	30	40	50	60	70	80	100
Groove base Ø	14	19	22	32	42	50	60	68	88
Groove width	4	5	6	6	6	8	8	8,5	8,5
Groove depth	3	3	4	4	4	5	5	6	6
Rim width	8	10	10	11,5	12	12	13	16	14
Axial length	20	20	20	21	27	27	27	30	30
Screw Ø	7,1	7,1	7,1	7,1	7,1	7,1	7,1	7,1	8
Length of screw	45	45	45	45	45	45	60	60	70
Length of thread	27	27	27	27	27	27	40	40	40
Overall length	89	79	81,5	96	113	118	138	158	178
Rope Ø max.	5	5	5	5	5	5	5	5	5
Loading capacity in kg	10	10	15	18	22	22	22	22	30
Weight in kg about	0,04	0,06	0,07	0,10	0,16	0,19	0,26	0,34	0,41

No. 158 a Pulleys with wood screw

Pulley made of cast iron, case galvanized steel, axle made of brass. If required size 60 mm also with polyamide pulley



All dimensions in mm.

Pulley outside Ø Groove base Ø	45 33	60 46	80 66
Groove width	9	10	10
Groove depth	6	7	7
Rim width	13	16	17,5
Axial length	28	32	32
Overall length	109	139	158
Screw Ø	7,1	7,1	7,1
Length of screw	45	60	60
Length of thread	27	40	40
Rope Ø max.	8	9	10
Loading capacity in kg	18	22	22
Weight in kg about	0,15	0,24	0,34

No. 158 b Pulleys with becket

Pulley made of cast iron, case galvanized steel, axle made of brass. If required size 60 mm also with polyamide pulley



All dimensions in mm.

Pulley outside Ø Groove base Ø	45 33	60 46	80 66
Groove width	9	10	10
Groove depth	6	7	7
Rim width	14	16	17,5
Axial length	28	32	32
Overall length	109	122	142
Becket Ø	12	12	12
Becket outside Ø	28	28	28
Material Ø of becket	8	8	8
Rope Ø max.	8	9	10
Loading capacity in kg	18	22	22
Weight in kg about	0,14	0,24	0,34

No. 158 d Pulleys with threaded screw and screw nut

Pulley made of cast iron, case galvanized steel, axle made of brass. If required size 60 mm also with polyamide pulley.



All dimensions in mm.

Pulley outside Ø	45	60	80
Groove base Ø	33	46	66
Groove width	9	10	10
Groove depth	6	7	7
Rim width	14	16	17,5
Axial length	26	27	33
Overall length	85	98	118
Length of screw	27	27	27
Length of thread	21	21	21
Thread strength	M 8	M 8	M 8
Rope Ø max.	8	9	10
Loading capacity in kg	18	22	22
Weight in kg about	0,13	0,22	0,31

No. 158 e Pulleys with wood screw and link

Pulley made of cast iron, case galvanized steel, axle made of brass. If required size 60 mm also with polyamide pulley.



All dimensions in mm.

Pulley outside Ø	60	80
Groove base Ø	46	66
Groove width	10	10
Groove depth	7	7
Rim width	16	17,5
Axial length	32	32
Overall length	162	182
Length of thread	40	40
Screw-Ø	8	8
Length of screw	69	69
Rope Ø max.	9	10
Loading capacity in kg	22	22
Weight in kg about	0,28	0,38

Pulleys with swivel hook No. 159

Pulley made of cast iron, body made of steel, hook made of malleable cast iron, body and hook galvanized. Size 25 and 30 mm only with brass pulley.



All dimensions in mm.

Pulley outside Ø	40	50	60	80	100	120
Groove base Ø	30	36	44	60	78	98
Groove width	9	10	11	13	16	16
Groove depth	5	7	8	10	11	11
Rim width	14	15,5	18,5	20	24	26
Axial length	26	26	30	33	48	53
Overall length	80	96	106	132	162	199
Hook length	29,5	35,5	35,5	42	45	62
Opening length	8	10	10	11	14	17
Rope Ø max.	8	9	10	11	14	14
Loading capacity in kg	10	22	22	22	40	55
Weight in kg about	0,04	0,12	0,18	0,41	0,58	1,00

Pulleys with wood screw No. 160

Pulley made of cast iron, body and wood screw galvanized steel.



All dimensions in mm.

Pulley outside Ø	40	50	60	70	80	100	120
Groove base Ø	30	36	44	50	60	78	98
Groove width	9	10	11	13	13	16	16
Groove depth	5	7	8	10	10	11	11
Rim width	14	15,5	18,5	20	20	24	26,5
Axial length	26	25	30	33	33	48	51
Overall length	95	105	130	145	150	187	223
Ø of screw	7,1	7,1	7,1	7,1	7,1	8	8
Hook length	45	45	60	60	60	70	70
Opening length	27	27	40	40	40	40	40
Rope Ø max.	8	9	10	12	12	15	15
Loading capacity in kg	18	22	22	22	22	40	55
Weight in kg about	0,08	0,14	0,18	0,26	0,37	0,63	1,08

Gin blocks for manila rope

No. 18 Gin blocks for manila rope

with steel case and lifting hook with safty catch, grayish-blue.
With rope pulleys No. 19 made of cast iron, hub bored, groove not machined.



All dimensions in mm.

Pulley outside Ø Groove base Ø	120 82	140 98	160 116	190 144	220 174	250 202	300 244
Axial length	75	75	75	90	90	90	90
Overall length	230	245	272	320	350	380	430
Total width	170	190	210	250	280	320	350
Hook opening length	25	25	25	25	25	25	25
Rope Ø max.	22	25	25	28	28	29	30
Loading capacity in kg	150	150	200	200	250	250	300
Weight in kg about	1,45	1,75	2,05	3,50	4,40	4,30	5,90

Heavy gin blocks for wire rope No. 22

with steel case and lifting hook former DIN 688 with safety catch, grayish-blue.
With rope pulleys No. 23 made of cast iron, hub bored, groove machined.
If required also with swivel oval eye (order No. 226) or roller bearing (design "W").



All dimensions in mm.

Pulley outside Ø Groove base Ø	115 89	155 129	220 184	260 222	310 250
Axial length	55	62	73	80	100
Overall length	300	350	460	520	640
Total width	150	192	260	280	400
Hook opening length	30	37	40	40	55
Rope Ø max.	10	10	16	18	26
Loading capacity in kg	500	1000	2000	3000	5000
Weight in kg about	2,50	3,50	7,50	11,00	24,00

Spare pulleys
fitting gin blocks No. 22.

No. 23 Wire rope pulleys made of cast iron

groove machined, hub bored, fitting gin blocks No.22 abd wire rope guide pulleys No. 829.
If required also with red bronze bush (design "R") or roller bearing (design "W").



All dimensions in mm.

Outside Ø Groove base Ø	115 89	155 129	220 184	260 222	310 250
Groove radius	5,5	5,5	8,5	9,5	14
Groove deph	13	13	18	19	30
Rim width	24	27	32	40	52
Bore for axle	14	19	22	25	35
Hub length	26	28	35	43	56
Hub Ø	36	48	54	65	85
Rope Ø max.	10	10	16	18	26
Loading capacity in kg	500	1000	2000	3000	5000
Weight in kg about	0,90	1,40	3,30	5,20	10,00

Manila rope blocks

Please specify in order:
lt = coated
vz = galvanized


Nr. 11


Nr. 12


Nr. 13


Nr. 14


Nr. 15


Nr. 1152

Manila rope blocks No. 11 - 1152

with lifting hook No. 511 former DIN 688 with safety catch and becket. With manila rope pulleys No.16 h made of cast iron; if required also with wire rope pulleys No. 16 d and roller bearing.

All dimensions in mm.

Pulley outside Ø		60	75	90	100	120	130	150	175	200	230
Groove base Ø		50	65	78	84	102	110	128	149	172	194
for manila rope Ø up to		10	10	13	16	19	22	26	32	38	44
for wire rope Ø up to		6	7	8	9	10	12	14	16	18	22
Case width		78	85	112	112	130	150	165	197	220	255
No. 11 with 1 sheave	adm. load at hook kg	75	100	150	250	500	500	1000	1500	2000	3000
	hook opening width	12	12	20	19	24	24	32	33	37	40
	axial length	35	41	47	50	58	63	72	80	90	105
	overall length with hook	220	250	295	320	380	405	465	510	585	670
	weight in kg about	0,50	1,00	1,50	2,00	3,50	4,00	5,50	8,50	12,50	19,00
No. 12 with 2 sheaves	adm. load at hook kg	100	150	250	500	750	1000	1500	2000	3000	5000
	hook opening width	12	20	19	24	24	32	33	37	40	46
	axial length	56	62	71	75	90	100	112	130	150	175
	overall length with hook	250	280	345	385	450	490	540	590	690	800
	weight in kg about	1,00	1,50	2,50	3,00	5,00	7,00	9,50	14,50	21,50	29,50
No. 13 with 3 sheaves	adm. load at hook kg	150	250	500	750	1000	1500	2000	3000	5000	6000
	hook opening width	20	19	24	32	32	33	37	40	46	48
	axial length	78	84	94	106	130	139	153	185	209	246
	overall length with hook	255	300	385	415	465	510	540	645	730	735
	weight in kg about	1,50	2,00	3,50	4,50	7,00	9,50	13,50	20,00	30,50	42,00
No. 14 with 4 sheaves	adm. load at hook kg	–	–	–	1000	1500	2000	3000	5000	6000	7500
	hook opening width	–	–	–	32	33	37	40	46	48	48
	axial length	–	–	–	138	159	174	195	235	276	315
	overall length with hook	–	–	–	425	480	505	560	575	740	855
	weight in kg about	–	–	–	5,50	9,00	12,50	18,00	27,00	37,50	56,00
No. 15 Snatch block with 1 sheave	adm. load at hook kg	–	100	150	250	500	500	1000	1500	2000	3000
	hook opening width	–	20	20	19	24	24	32	33	37	40
	axial length	–	41	47	50	58	63	72	80	90	105
	overall length with hook	–	250	295	315	390	405	455	495	580	685
	weight in kg about	–	1,00	1,50	2,00	3,50	4,00	6,00	8,50	13,00	19,50
No. 16 Snatch block with 2 sheaves	adm. load at hook kg	–	–	–	500	750	1000	1500	2000	3000	5000
	hook opening width	–	–	–	24	32	32	33	37	40	46
	axial length	–	–	–	75	90	100	112	130	150	175
	overall length with hook	–	–	–	380	430	430	545	560	600	760
	weight in kg about	–	–	–	3,50	4,80	7,50	10,50	15,00	22,50	29,50

Manila rope blocks

Please specify by order:
lt = coated
vz = galvanized



Nr. 11 ö | Nr. 12 ö | Nr. 13 ö | Nr. 14 ö | Nr. 15 ö | Nr. 1152 ö

Manila rope blocks No. 11 ö - 1152 ö

with swivel oval eyes No. 534 acc. to DIN 82006 and becket. With manila rope pulleys No. 16 h made of cast iron; if required also with wire rope pulleys No. 16 d and roller bearing.

All dimensions in mm.

Pulley outside Ø		60	75	90	100	120	130	150	175	200	230
Groove base Ø		50	65	78	84	102	110	128	149	172	194
for manila rope Ø up to		10	10	13	16	19	22	26	32	38	44
for wire rope Ø up to		6	7	8	9	10	12	14	16	18	22
Case width		78	85	112	112	130	150	165	197	220	255
No. 11 ö with 1 sheave	adm. load at oval eye kg	75	100	150	250	500	500	1000	1500	2000	3000
	clear oval eye dimens	19 x 35	19 x 35	19 x 35	28 x 48	29 x 50	29 x 50	34 x 60	26 x 58	26 x 58	32 x 72
	axial length	35	41	47	50	58	63	72	80	90	105
	overall length with o. e.	200	230	270	300	350	370	425	480	550	615
	weight in kg about	0,50	1,00	1,50	1,50	3,00	4,00	5,00	7,50	11,50	16,00
No. 12 ö with 2 sheaves	adm. load at oval eye kg	100	150	250	500	750	1000	1500	2000	3000	5000
	clear oval eye dimens	19 x 35	19 x 35	28 x 48	29 x 50	34 x 60	34 x 60	26 x 58	26 x 58	32 x 72	40 x 94
	axial length	56	62	71	75	90	100	112	130	150	175
	overall length with o. e.	230	255	330	345	395	450	495	545	635	730
	weight in kg about	1,00	1,50	2,50	3,00	4,50	6,50	8,50	13,00	19,50	28,00
No. 13 ö with 3 sheaves	adm. load at oval eye kg	150	250	500	750	1000	1500	2000	3000	5000	6000
	clear oval eye dimens	19 x 35	28 x 48	29 x 50	34 x 60	34 x 60	26 x 58	26 x 58	32 x 72	40 x 94	45 x 108
	axial length	78	84	94	106	130	139	153	185	209	246
	overall length with o. e.	225	280	335	375	420	465	520	570	660	770
	weight in kg about	1,50	2,00	3,00	4,00	6,50	8,50	12,50	18,00	27,00	40,00
No. 14 ö with 4 sheaves	adm. load at oval eye kg	–	–	–	1000	1500	2000	3000	5000	6000	7500
	clear oval eye dimens	–	–	–	34 x 60	26 x 58	26 x 58	32 x 72	40 x 94	45 x 108	49 x 115
	axial length	–	–	–	138	159	174	195	235	276	315
	overall length with o. e.	–	–	–	370	425	460	530	590	710	795
	weight in kg about	–	–	–	5,30	9,00	10,50	16,50	25,00	37,00	50,00
No. 15 ö Snatch block with 1 sheave	adm. load at oval eye kg	–	100	150	250	500	500	1000	1500	2000	3000
	clear oval eye dimens	–	19 x 35	19 x 35	28 x 48	29 x 50	29 x 50	34 x 60	26 x 58	26 x 58	32 x 72
	axial length	–	41	47	50	58	63	72	80	90	105
	overall length with o. e.	–	230	270	300	350	370	425	480	550	615
	weight in kg about	–	1,00	1,50	1,50	3,00	3,50	5,50	8,00	11,50	16,50
No. 16 ö Snatch block with 2 sheaves	adm. load at oval eye kg	–	–	–	500	750	1000	1500	2000	3000	5000
	clear oval eye dimens	–	–	–	29 x 50	34 x 60	34 x 60	26 x 58	26 x 58	32 x 72	40 x 94
	axial length	–	–	–	75	90	100	112	130	150	175
	overall length with o. e.	–	–	–	345	395	450	495	545	635	730
	weight in kg about	–	–	–	3,20	4,50	6,50	9,50	13,50	21,00	25,00

Load table for manila rope blocks and manila rope tackle blocks

Pull downwards.

Pulley outside Ø			mm	60	75	90	100	120	130	150	175	200	230
Block with 1 sheave		rope pull	kg	40	50	75	125	200	250	500	750	1000	1500
		adm. load	kg	40	50	75	125	200	250	500	750	1000	1500
Tackle block	1 shv. above	rope pull	kg	25	35	50	85	150	175	350	525	700	1000
	1 shv. below	adm. load	kg	50	65	100	165	250	325	650	975	1300	2000
Tackle block	2 shvs. above	rope pull	kg	30	40	55	90	150	185	370	550	735	1100
	1 shv. below	adm. load	kg	75	100	150	250	400	500	1000	1500	2000	3000
Tackle block	2 shvs. above	rope pull	kg	25	35	55	110	165	220	325	435	650	1100
	2 shvs. below	adm. load	kg	80	125	200	400	600	800	1200	1600	2400	3900
Tackle block	3 shvs. above	rope pull	kg	25	35	60	120	200	230	350	465	700	1150
	2 shvs. below	adm. load	kg	100	150	250	500	750	1000	1500	2000	3000	5000
Tackle block	3 shvs. above	rope pull	kg	25	40	85	125	165	250	330	500	800	1000
	3 shvs below	adm. load	kg	125	210	425	625	850	1250	1700	2500	4200	5000
Tackle block	4 shvs. above	rope pull	kg	–	–	–	130	220	300	340	515	850	1030
	3 shvs. below	adm. load	kg	–	–	–	750	1000	1500	2000	3000	5000	6000
Tackle block	4 shvs. above	rope pull	kg	–	–	–	135	200	270	400	665	800	1000
	4 shvs. below	adm. load	kg	–	–	–	850	1300	1800	2600	4300	5200	6500

Wire rope blocks

Please specify in order:
GG/R = with pulley(s) made of cast iron with plain bearing
GG/W = with pulley(s) made of cast iron with roller bearing
ST/R = with steel pulley(s) with plain bearing
ST/W = with steel pulley(s) with roller bearing
ST/K = with steel pulley(s) with ball bearing


Nr. 31


Nr. 32


Nr. 33


Nr. 34


Nr. 36


Nr. 362

Wire rope blocks No. 31 - 362

with lifting hook acc. to DIN 15401 with safety catch. For further hook dimensions please refer to shank hooks No 535 b. With wire rope pulleys No. 37 with plain bearing.

All dimensions in mm.

Pulley outside Ø		100	125	150	175	200	250	310	350	400	480
Groove base Ø		80	105	125	145	170	210	260	300	340	410
for wire rope Ø up to		7	9	11	12	15	18	23	26	30	32
Case width		130	150	165	210	210	265	325	365	420	510
No. 31 with 1 sheave	adm. load at hook kg	500	1000	2000	3000	3000	5000	8000	10000	12500	16000
	hook opening width	25	30	33	41	41	45	52	59	67	69
	axial length	55	55	65	82	82	90	110	115	130	160
	overall length with hook	385	430	500	640	640	740	890	1020	1135	1300
	weight in kg about	3,50	4,50	7,50	15,00	15,50	25,00	45,00	58,00	102,00	138,00
No. 32 with 2 sheaves	adm. load at hook kg	1000	1600	3000	5000	5000	8000	12500	16000	20000	25000
	hook opening width	30	33	41	45	45	52	67	69	76	84
	axial length	81	86	113	130	130	150	180	195	225	250
	overall length with hook	410	440	525	680	680	785	940	1080	1220	1380
	weight in kg about	5,00	7,00	12,00	23,00	24,00	40,50	75,00	110,00	189,00	230,00
No. 33 with 3 sheaves	adm. load at hook kg	1600	2000	5000	8000	8000	12500	20000	25000	32000	40000
	hook opening width	33	33	45	52	52	67	76	84	97	110
	axial length	106	115	135	177	177	210	255	260	310	320
	overall length with hook	420	465	595	760	760	930	1020	1230	1310	1480
	weight in kg about	7,00	9,50	21,00	28,00	29,50	70,50	110,00	173,00	293,00	367,00
No. 34 with 4 sheaves	adm. load at hook kg	2000	3000	5000	8000	10000	16000	25000	32000	40000	50000
	hook opening width	33	41	45	52	59	69	84	97	110	132
	axial length	145	150	180	255	255	280	340	350	410	450
	overall length with hook	405	480	590	690	720	920	1020	1100	1360	1550
	weight in kg about	8,00	13,50	24,50	45,00	50,50	90,00	183,00	219,00	402,00	490,00
No. 16 Snatch block with 1 sheave	adm. load at hook kg	500	1000	2000	3000	3000	5000	8000	10000	12500	16000
	hook opening width	25	30	33	41	41	45	52	59	67	69
	axial length	55	61	73	90	90	105	120	125	160	190
	overall length with hook	350	390	435	580	580	700	810	850	1000	1150
	weight in kg about	3,50	4,50	7,50	15,00	15,50	25,00	41,00	55,00	120,00	138,00
No. 362 Snatch block with 2 sheaves	adm. load at hook kg	1000	1600	3000	5000	5000	8000	12500	16000	20000	25000
	hook opening width	30	33	41	45	45	52	67	69	76	84
	axial length	84	90	114	145	145	170	200	210	255	280
	overall length with hook	480	510	610	730	765	900	1140	1150	1370	1550
	weight in kg about	6,00	7,50	14,00	23,00	27,50	46,00	75,00	81,00	185,00	225,00

Wire rope blocks

Please specify in order:
GG/R = with pulley(s) made of cast iron with plain bearing
GG/W = with pulley(s) made of cast iron with roller bearing
ST/R = with steel pulley(s) with plain bearing
ST/W = with steel pulley(s) with roller bearing
ST/K = with steel pulley(s) with ball bearing


Nr. 41


Nr. 42


Nr. 43


Nr. 44


Nr. 46


Nr. 462

Wire rope blocks No. 41 - 462

with swivel oval eyes acc. to DIN 82006. For further oval eye dimensions please refer to oval eye No. 534. With wire rope pulleys No. 37 with plain bearing.

All dimensions in mm.

Pulley outside Ø		100	125	150	175	200	250	310	350	400	480
Groove base Ø		80	105	125	145	170	210	260	300	340	410
for wire rope Ø up to		7	9	11	12	15	18	23	26	30	32
Case width		130	150	165	210	210	265	325	365	420	510
No. 11 ö	adm. load at oval eye kg	500	1000	2000	3000	3000	5000	8000	10000	12500	16000
with	clear oval eye dimens	29 x 50	34 x 60	26 x 58	32 x 72	32 x 72	40 x 94	49 x 115	54 x 125	60 x 144	66 x 163
1 sheave	axial length	55	55	65	82	82	90	110	115	130	160
	overall length with o. e.	345	370	415	520	550	690	880	950	1030	1180
	weight in kg about	3,00	3,50	5,50	11,00	12,50	21,00	42,00	50,00	93,00	123.00
No. 12 ö	adm. load at oval eye kg	1000	1600	3000	5000	5000	8000	12500	16000	20000	25000
with	clear oval eye dimens	34 x 60	26 x 58	32 x 72	40 x 94	40 x 94	49 x 115	60 x 144	66 x 163	72 x 173	80 x 192
2 sheaves	axial length	81	86	113	130	130	150	180	195	225	250
	overall length with o. e.	360	375	450	570	590	725	920	1040	1080	1230
	weight in kg about	5,00	6,00	9,50	15,00	19,00	36,50	73,00	95,00	167,00	178,00
No. 13 ö	adm. load at oval eye kg	1600	2000	5000	8000	8000	12500	20000	25000	32000	40000
with	clear oval eye dimens	26 x 58	26 x 58	40 x 94	49 x 115	49 x 115	60 x 144	72 x 173	80 x 192	90 x 216	100 x 240
3 sheaves	axial length	106	115	135	177	177	210	255	260	310	320
	overall length with o. e.	360	380	525	660	690	770	980	1090	1110	1260
	weight in kg about	5,50	8,50	16,00	20,00	23,50	58,50	105,00	126,00	235,00	248,00
No. 14 ö	adm. load at oval eye kg	2000	3000	5000	8000	10000	16000	25000	32000	40000	50000
with	clear oval eye dimens	26 x 58	32 x 72	40 x 94	49 x 115	54 x 125	66 x 163	80 x 192	90 x 216	100 x 240	110 x 264
4 sheaves	axial length	145	150	180	255	255	280	340	350	410	450
	overall length with o. e.	365	390	525	580	610	820	930	1000	1140	1300
	weight in kg about	7,50	12,00	20,00	38,00	44,00	78,00	136,00	157,00	312,00	327,00
No. 15 ö	adm. load at oval eye kg	500	1000	2000	3000	3000	5000	8000	10000	12500	16000
Snatch	clear oval eye dimens	29 x 50	34 x 60	26 x 58	32 x 72	32 x 72	40 x 94	49 x 115	54 x 125	60 x 144	66 x 163
block	axial length	55	61	73	90	90	105	120	125	160	190
with	overall length with o. e.	310	345	375	475	505	615	750	780	900	1030
1 sheave	weight in kg about	3,00	4,00	6,00	11,00	12,00	20,50	36,00	47,00	113,00	128,00
No. 16 ö	adm. load at oval eye kg	1000	1600	3000	5000	5000	8000	12500	16000	20000	25000
Snatch	clear oval eye dimens	34 x 60	26 x 58	32 x 72	40 x 94	40 x 94	49 x 115	60 x 144	66 x 163	72 x 173	80 x 192
block	axial length	84	90	114	145	145	170	200	210	255	280
with	overall length with o. e.	425	450	535	640	685	845	1030	1060	1230	1400
2 sheaves	weight in kg about	5,50	6,50	11,50	20,00	23,50	29,00	65,00	68,00	165,00	175,00

Load table for wire rope blocks and wire rope tackle blocks

Pull downwards.

Pulley outside Ø			mm	100	125	150	175	200	250	310	350	400	480
Block with 1 sheave		rope pull	kg	260	520	1040	1560	1560	2600	3900	5200	6500	7800
		adm. load	kg	250	500	1000	1500	1500	2500	3750	5000	6250	7500
Tackle block	1 shv. above	rope pull	kg	177	355	710	1060	1060	1770	2650	3540	4150	5200
	1 shv. below	adm. load	kg	323	645	1290	1940	1940	3230	4850	6460	8100	9700
Tackle block	2 shvs. above	rope pull	kg	262	380	760	1140	1140	1900	2850	3800	4760	5700
	1 shv. below	adm. load	kg	500	1000	2000	3000	3000	5000	7500	10000	12500	15000
Tackle block	2 shvs. above	rope pull	kg	230	345	690	1150	1150	1700	2875	3450	4600	5750
	2 shvs. below	adm. load	kg	770	1155	2310	3850	3850	5800	9625	11550	15400	19250
Tackle block	3 shvs. above	rope pull	kg	250	370	750	1240	1240	1850	3100	3720	4950	6200
	2 shvs. below	adm. load	kg	1000	1500	3000	5000	5000	7500	12500	15000	20000	25000
Tackle block	3 shvs. above	rope pull	kg	270	355	880	1330	1330	2200	3540	4410	5650	7100
	3 shvs below	adm. load	kg	1230	1650	4120	6170	6170	10300	16460	20590	26350	32900
Tackle block	4 shvs. above	rope pull	kg	290	385	820	1200	1200	2400	3840	4800	6140	6450
	3 shvs. below	adm. load	kg	1500	2000	4180	6300	6300	12500	20000	25000	32000	33550
Tackle block	4 shvs. above	rope pull	kg	300	450	750	1100	1100	2200	3850	4800	6000	6000
	4 shvs. below	adm. load	kg	1700	2550	4250	6400	6400	12800	21150	27200	34000	44000

Pull upwards.

Pulley outside Ø			mm	100	125	150	175	200	250	310	350	400	480
Block with 1 sheave		rope pull	kg	260	520	1040	1560	1560	2600	3900	5200	6500	7800
		adm. load	kg	500	1000	2000	3000	3000	5000	7500	10000	12500	15000
Tackle block	1 shv. above	rope pull	kg	183	366	730	1100	1100	1830	2740	3660	4570	5150
	1 shv. below	adm. load	kg	500	1000	2000	3000	3000	5000	7500	10000	12500	15000
Tackle block	2 shvs. above	rope pull	kg	200	400	800	1200	1200	2000	3000	4000	5000	6000
	1 shv. below	adm. load	kg	700	1400	2800	4200	4200	7000	10500	14000	17500	21000
Tackle block	2 shvs. above	rope pull	kg	238	356	713	1190	1190	1780	2970	3560	3750	5940
	2 shvs. below	adm. load	kg	1000	1500	3000	5000	5000	7500	12500	15000	20000	25000
Tackle block	3 shvs. above	rope pull	kg	260	390	780	1300	1300	1950	3250	3900	5000	6500
	2 shvs. below	adm. load	kg	1260	1890	3780	6300	6300	9450	15750	18900	25000	31500
Tackle block	3 shvs. above	rope pull	kg	276	368	920	1380	1380	2300	3680	4600	5900	7350
	3 shvs below	adm. load	kg	1500	2000	5000	7500	7500	12500	20000	25000	32000	40000
Tackle block	4 shvs. above	rope pull	kg	300	400	840	1250	1250	2500	4000	5000	6400	6740
	3 shvs. below	adm. load	kg	1800	2400	5000	7500	7500	15000	24000	30000	38400	40000
Tackle block	4 shvs. above	rope pull	kg	311	466	777	1160	1160	2330	3880	4970	6220	6220
	4 shvs. below	adm. load	kg	2000	3000	5000	7500	7500	15000	25000	32000	40000	50000

Safety tackle blocks with fastening device No. 409

with safety factor 4. Double gripping safety hooks, all parts made of steel, bright galvanized pulleys and fastening device made of high-quality polyamide, very low own weight, excellent capacity and safety, very smooth operation, suitable for all kinds of application. With25 m plastics rope of 6 mm diameter, twist-free, hoisting height about 3 m.

All dimensions in mm.

Pulley outside Ø	40
Groove base Ø	34
Axial length	62
Lenght of tackle block min.	260
Width of side sheet	70
Hook opening width	15
height hook base	18
Loading capacity in kg	400
Weight in kg about	1,30

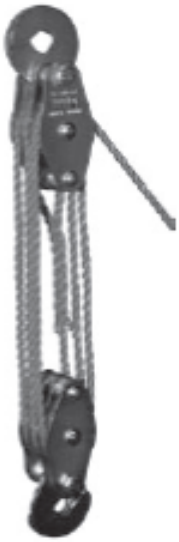


To fasten the rope: Pull the lever of fastening device with the rope downwards (in vertical direktion), then release the rope. The load will be kept immediately.
To release the rope: Pull the load slightly, pul the rope in outward direction, the rope will then be released.



Safety tackle blocks No. 410

with safety factor 4. Double gripping safety hooks, all parts made of steel, bright galvanized, pulleys made of high-quality polyamide, very low own weight, excellent capacity and safety, very smooth operation, suitable for all kinds of application. With 20 m braided polypropylene ropewith a diameter of 6 mm, twist-free, hoisting height about 3 m.



All dimensions in mm.

Pulley outside Ø	40
Groove base Ø	34
Axial length	48
Lenght of tackle block min.	260
Width of side sheet	55
Hook opening width	15
Loading capacity in kg	300
Weight in kg about	1,10

Tackle blocks

Tackle blocks (upper and lower block) No. 420

with forged swivel lifting hook with safety catch, galvanized, with three pulleys.
Delivery without rope.

All dimensions in mm.

Pulley outside Ø	30	40	50	60	70	80	100
Groove base Ø	25	33	43	53	62	71	88
Axial length	41	42	50	50	67	67	86
Lenght of tackle block min.	320	310	380	380	500	500	760
Width of side sheet	42	42	50	50	67	67	86
Hook opening width	16	12	15	15	18	18	28
Rope Ø max.	6	6	8	10	12	12	16
Loading capacity in kg	150	150	200	250	300	350	500
Weight in kg about	0,68	0,85	1,50	1,65	3,20	3,30	8,50

Please specify in order:
ER = with steel or cast iron pulleys
(40 - 100 mm Ø)
MR = with brass pulleys
(30 - 100 mm Ø)
PR = with polyamide pulleys
(40 - 60 mm Ø)





Guide pulleys

- steel
- polyamide

7

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Trolley wheels (steel)	7.6 - 7.7
Ball bearing pulleys	7.8
Flanged polyamide wheels	7.9

Pulleys with axle

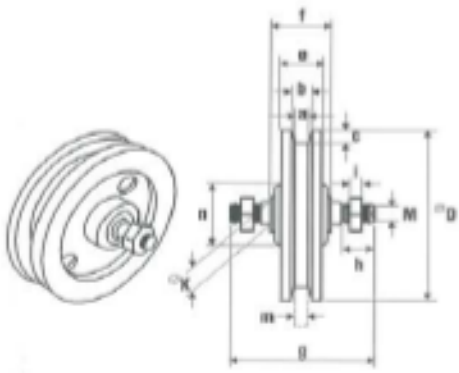
No. 1400 Pulleys with axle

for electrically operated, bottom-pulley sliding doors, galvanized steel, precision ball bearing, axle made of bright-drawn steel with lubrication nipple, outside diameter 160 mm fitting sliding door pulleys No. 630.



All dimensions in mm.

D	100	120	140	160
K	15	15	20	20
a	14	14	14	14
b	17	17	17	17
c	10	10	10	10
e	28	30	30	32
f	32	35	35	40
g	80	85	90	95
h	16	16	17	17
l	8	8	9	9
m	13	13	13	13
Size of thread M	M 14	M 14	M 14	M 14
Loading capacity in kg	200	270	400	500
Weight in kg about	1,42	2,28	3,24	4,59



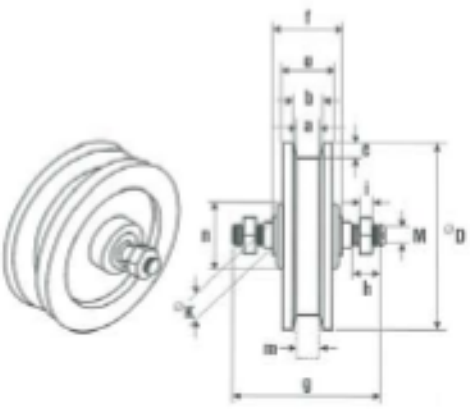
No. 1410 Pulleys with axle

for electrically operated, bottom-pulley sliding doors, galvanized steel, with two precision ball bearings, axle made of bright-drawn steel with lubrication nipple.



All dimensions in mm.

D	120	160	180	200
K	20	20	25	25
a	27	27	27	34
b	29	29	29	36
c	10	15	15	15
e	40	42	45	52
f	44	46	50	57
g	100	108	110	120
h	17	17	20	20
l	9	9	10	10
m	13	13	13	13
Size of thread M	M 20	M 20	M 24	M 24
Loading capacity in kg	500	650	750	1000
Weight in kg about	2,83	5,15	7,41	10,53



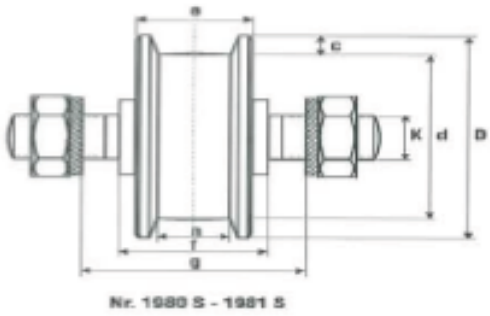
Pulleys with axle No. 1980 S - 1986 S

for highly stressed heavy doors and electrically operated doors. Pulley made of steel with two dustproof ball bearings, no regreasing due to the special grease applied, blue primed, incl. axle with screws, weathering resistant. No. 1985 S and No. 1986 S fitting light rail DIN 5901.

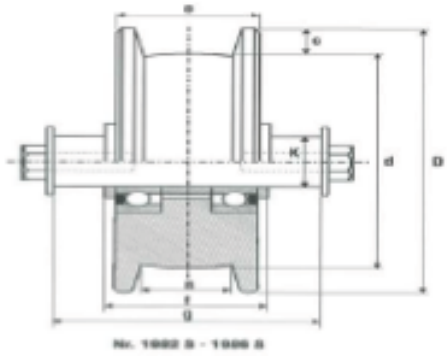


All dimensions in mm.

Article No.	1980 S	1981 S	1982 S	1983 S	1984 S	1985 S	1986 S
D	45	55	75	100	125	160	200
K	10	12	15	20	25	30	35
c	5	5	6	8	12	15	18
d	35	45	63	84	100	130	164
e	19	19	28	35	40	50	60
f	21	24	33	40	46	58	70
g	32	39	53	59	69	87	108
n	13,2	12,3	15,3	20,3	25,3	32	38
Diameter of spacer ring	-	20	22	30	36	40	45
Rail width max.	40 x 12	50 x 12	60 x 15	60 x 20	60 x 25	S 10	S 14
Loading capacity in kg	160	250	375	500	750	1000	1500
Weight in kg about	0,20	0,30	0,80	1,60	3,50	6,50	11,50



Nr. 1980 S - 1981 S



Nr. 1982 S - 1986 S

Pulleys made of polyamide No. 902

groove edged, maintenance-free plain bearing.

All dimensions in mm.

Outside diameter Groove base diameter	**61** 45	**112** 90		
Groove width	10 x 16	45 x 48		
Groove depth	8	11		
Rim width	22	58		
Bore	10	20		
Hub length	23	60		
Hub diameter	20	40		
Rail width max.	9	40		
Loading capacity in kg	70	640		
Weight in kg approx.	0,04	0,27		

No. 1041 Pulleys with axle

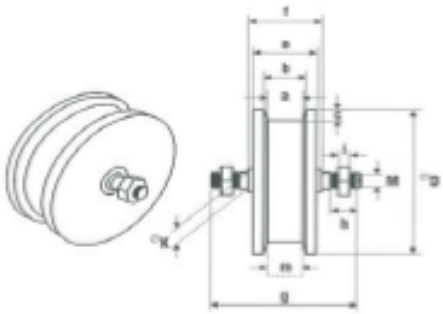
for manually operated bottom-pulley sliding doors. Made of cast iron, with two precision ball bearings, axle made of bright-drawn steel with lubrication nipple.





All dimensions in mm.

D	160
K	20
a	23
b	25
c	15
e	45
f	52
g	108
h	17
l	9
m	22
n	69
Size of thread M	M 20
Loading capacity in kg	450
Weight in kg about	3,89



Trolley wheels No. 1203

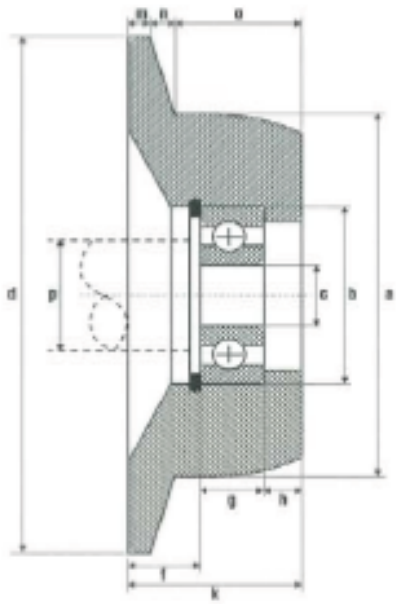
with maintenance-free ball bearing and machined treads wich facilitate the usage on all standard profiles with inclined or parallel flanges, fitting geared trolleys No. 703 707.
From loading capacity 4000 kg on trolly wheels with two ball bearings.



All dimensions in mm.

Loading capacity in kg	260	380	630	825	1000	1600	4000
Nominal diameter	50	65	65	85	120	120	150
a	50	65	65	83	118	118	150
b	32	32	42	47	52	62	75
c	12	12	20	25	20	30	45
d	60	90	90	115	150	150	185
f	10	13	9	11	14	13	13
g	10	10	12	12	15	16	32
h	8	8	9	11	9	9	9
k	28	31	30	34	38	38	54
m	6	5	3	4	5	5	6
n	2	4	4	5	5	5	6
o	20	22	23	25	28	28	42
p	17	17	25	30	25	40	55
Ball bearing-type	6201-2RS	6201-2RS	6004-2RS	6005-2RS	6205-2RS	6206-2RS	6009-2RS
Material	GG 25	GG 25	GGG 50	GGG 50	GGG 50	GGG 50	GGG 50
Weight in kg about	0,30	0,68	0,51	1,13	1,85	2,70	5,43

Loading capacity in kg	4800	6000	8000
Nominal diameter	200	250	300
a	198	248	298
b	75	90	100
c	50	50	55
d	240	290	340
f	22	15	15,5
g	32	50	50
h	9	8	12,5
k	63	73	78
m	9,5	9,5	9,5
n	6,5	6,5	6,5
o	47	54	60
p	55	65	70
Ball bearing-type	6009-2RS	6210-2RS	6211-2RS
Material	GGG 50	GGG 50	GGG 50
Weight in kg about	9,81	16,05	23,80



Please specify in order:
A = with plain bearing
B = with sealed ball bearings

Trolley wheels No. 1204

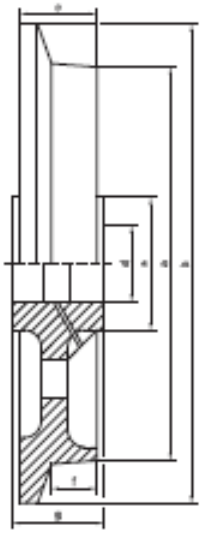
made of cast iron, pulley tread and rim turned on a lathe, coated. Tread with 3° incline to axle, from size 150 mm on with lubrication nipple.



All dimensions in mm.

Wheel diameter without wheel flange Wheel diameter with wheel flange	50 62	75 100	100 125	125 145	150 175
Wheel width with wheel flange	32	40	46	46	46
Tread width without wheel flange	26	30	36	36	36
Hub length symmetric	32	47	52	52	52
Hub diameter	50	62	62	62	62
Bore in case of plain bearing	15	20	20	20	20
Bore in case of ball bearing	-	20	20	20	20
Type of ball bearing	-	6204 ZZ	6204 ZZ	6204 ZZ	6204 ZZ
Loading capacity in kg	400	800	1000	1000	1000
Weight in kg about	0,40	1,50	2,10	3,00	3,20

Wheel diameter without wheel flange Wheel diameter with wheel flange	180 210	200 230	201 230	250 300	251 300
Wheel width with wheel flange	48	57	80	65	65
Tread width without wheel flange	36	40	62	50	50
Hub length symmetric	52	60	90	70	70
Hub diameter	65	87	110	90	110
Bore in case of plain bearing	30	30	-	40	-
Bore in case of ball bearing	20	25	40	30	40
Type of ball bearing	6204 ZZ	6205 ZZ	6208 ZZ	6206 ZZ	6208 ZZ
Loading capacity in kg	1200	1500	3000	2000	3000
Weight in kg about	4,50	7,50	13,00	12,50	16,00



Ball bearing pulleys
made of steel

Ball bearing pulleys made of steel
Iardened, with straight tread, bicycle type ball bearing



Code:	87054	87055	87056
All dimensions in mm.			
Outside diameter	**30**	**40**	**50**
Rim width	11	11	11
Hub length	12	12	12
Bore	7,10	8,10	8,10
Loading capacity in kg	70	95	95
Weight in kg about	0,05	0,14	0,16

Ball bearing pulleys made of steel
Iardened, with crowned tread, bicycle type ball bearing



Code:	72909*	87065	87066
All dimensions in mm.			
Outside diameter	**30**	**40**	**50**
Rim width	11	11	11
Hub length	12	12	12
Bore	7,10	8,10	8,10
Tread radius	9	9	9
Loading capacity in kg	70	95	95
Weight in kg about	0,05	0,14	0,16

*made of polyamide material

Flanged polyamide wheels

colour: nature or black

Versions:
- flanged wheels in polyamide 6 with plain bearing or ball bearing
- temperature resistant -25°C to +90°C





	mm	mm	mm	mm	mm	mm	dyn. kg
SKRNY030KU10	30	50	20	15	20	10	35
SKRNY035KU17	35	50	32	25	34	17	80
SKRNY040KU15	40	55	18	12	18	15	40
SKRNY050KU17	50	70	28	20	30	17	100
SKRNY050KU15	50	65	28	24	30	15	100
SKRNY062KU17	62	80	26	19	29	17	100
SKRNY087KU17	87	108	32	25	32	17	200
SKRNY100KU20	100	120	45	32	45	20	280
SKRNY107KU20	107	138	34	26	35	20	300
SKRNY120KU35	120	150	42	30	45	35	380

Special constructions

We can make flanged polyamide wheels fitting for your construction.



BJERRING – Tykhøjetvej 20 – Hal 5 – 7323 Give – Tlf. +45 77345206 - mail: salg@bjerring-sales.dk bjerring-sales.dk – sunswim.dk – bjerring-shop.dk – bjerring-furniture.dk

- **Accessories for ropes and wires**
- **galvanized or black**

8

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Rope clamp / Shackles	8.16 - 8.19
Press clip / Turn buckles / Shroud tensioners	8.20 - 8.22
Hooks / Safety pin / Eye screw and nut	8.23 - 8.25
Fitting for cargo / Legend	8.26 - 8.27
in black: Snap hooks / Buckles / Ratchet	8.28 - 8.29
in black: Quick links / Rings / Links / Shackles / Thimble / Wire tender / Turn buckles	8.30 - 8.31
in black: Chain hoist / Beam clamp / Chain / Shortening hook	8.32 - 8.33
in black: Rope glider / Rope glider with Doughty clamp	8.34 - 8.35
Security Clamp	8.36 - 8.37

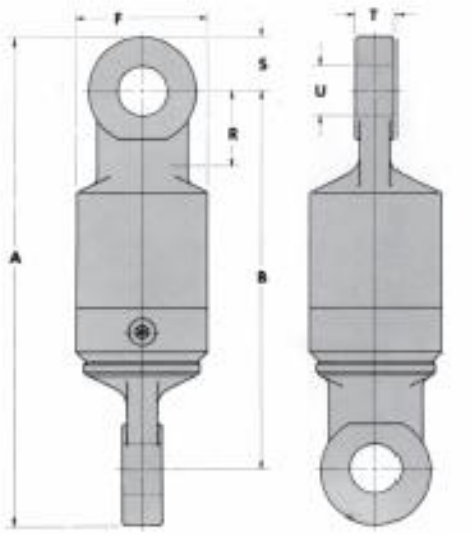
Swivels

No. 516 a Swivel

with integral tapered roller bearing and grease fitting, painted red, with two eyes.
All dimensions in mm.



Load capacity in kg	3000	4000	7000	12000	19000	25000	30000
A	204,0	305,6	302,3	388,4	403,9	449,6	513,3
B	143,5	240,5	237,2	296,8	302,3	328,9	373,6
F	66,8	82,5	82,5	101,6	112,8	133,3	165,1
R	31,8	39,4	39,4	61,5	62,7	70,9	66,0
S	31,8	34,0	34,0	51,6	51,6	61,2	70,6
T	23,1	26,2	26,2	32,5	32,5	42,2	41,4
U	26,2	33,3	33,3	45,2	45,2	53,3	58,7
weight in kg approx.	2,70	6,30	6,20	12,00	14,30	22,80	38,50



Swivels

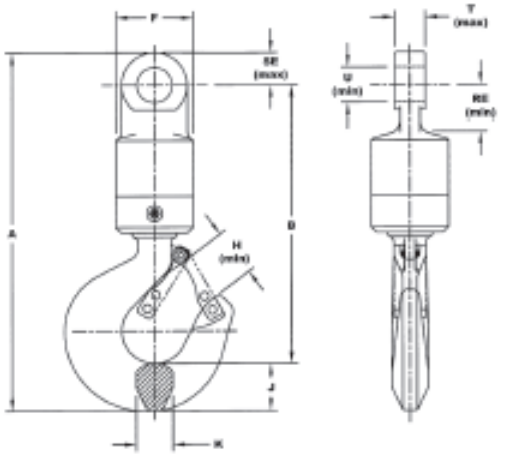
No. 516 b Swivel

with integral tapered roller bearing and grease fitting, painted red, one end with eye and other end with rotating load hook with hook safety latch.
All dimensions in mm.



Load capacity in kg	3000	5000	7000	9000	12000
A	341,9	350,3	376,4	471,4	479,8
B	272,5	280,9	298,7	356,4	364,7
F	82,5	82,5	82,5	101,6	112,8
H	28,4	28,4	35,3	48,5	48,5
J	37,6	37,6	46,0	64,3	64,3
K	28,4	28,4	35,0	49,0	49,0
RE	39,5	39,4	39,4	56,9	61,8
SE	34,0	34,0	34,0	51,6	51,6
T	26,2	26,2	26,2	32,5	32,5
U	33,3	33,0	33,3	45,2	45,2
weight in kg approx.	6,80	6,80	7,30	15,40	17,70

Load capacity in kg	15000	20000	25000	30000
A	479,8	579,9	629,4	673,9
B	364,7	443,2	480,1	515,1
F	112,8	133,4	133,3	165,1
H	48,5	71,1	83,3	83,3
J	64,3	76,2	88,9	88,9
K	49,0	60,5	76,2	76,2
RE	61,8	70,6	70,6	70,9
SE	51,6	63,6	63,6	73,2
T	32,5	63,6	42,2	41,4
U	45,2	53,3	53,3	58,9
weight in kg approx.	17,70	31,30	41,00	53,00



Do not use swivels in conjunction with wrecking balls. Swivel with 6-time safety factor.

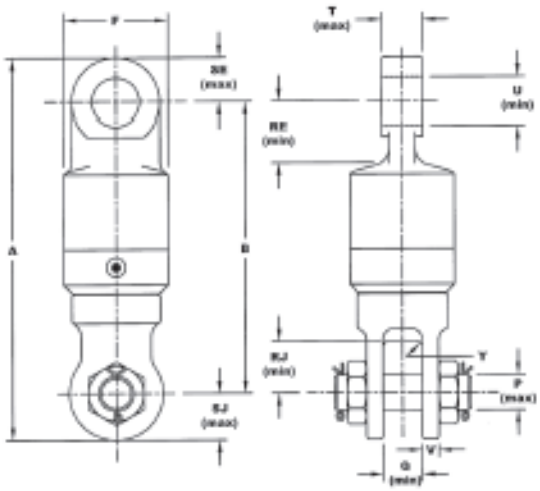
Swivels

No. 516 c Swivel

with integral tapered roller bearing and grease fitting, painted red, one end with eye and other end with rotating swivel clevis with bolt, nut and split pin.
All dimensions in mm.



Load capacity in kg	3000	4000	7000	12000	19000
A	210,0	310,6	310,6	396,5	416,3
B	149,9	243,6	243,6	294,9	314,7
F	66,8	82,5	82,5	101,6	112,8
P	25,4	31,7	31,7	44,4	44,4
Q	24,6	36,6	36,6	42,9	49,2
RE	31,8	41,4	41,4	64,3	62,0
RJ	34,3	52,6	52,6	68,3	74,7
SE	31,0	32,5	32,5	51,6	51,6
SJ	31,0	36,6	36,6	52,3	52,3
T	23,1	26,2	26,2	32,5	32,5
U	26,2	33,3	33,3	45,2	45,2
V	12,7	14,2	14,2	19,0	19,0
Y	2,3	6,3	6,3	6,3	6,3
Weight in kg approx.	3,30	8,20	8,20	15,90	19,10



Do not use swivels in conjunction with wrecking balls. Swivel with 6-time safety factor.

Grips

No. 422 - 426 Eccentric grips

hardened and grooved steel jaws, galvanized.



All dimensions in mm.

Article No. Gripping-Ø	422 1 - 4	423 1 - 6	424 1 - 8	426 1 - 12	428 6 - 18
Eye-Ø	19	24	23	25	26
Max. load capacity	250	400	600	900	1000
Weight in kg approx.	0,24	0,38	0,60	0,96	1,85

No. 428 Heavy rope clips

with steel jaws and guide pin, bridges made of steel, galvanized.



All dimensions in mm.

Gripping-Ø	10 - 25
Eye-Ø	27
max. load capacity	1500
weight in kg approx.	2,55

No. 441 Rope clips

with long, hardened jaws made of high-quality quenched and tempered steel, bright galvanized, for copper and steel wires or ropes.



Backenprofil



All dimensions in mm.

Rope Cross section in mm² / Rope-Ø	1 - 16 / 1 - 5	6 - 35 / 3 - 9	16 - 70 / 4 - 12	50 - 150 / 8 - 18	95 - 400 / 10 - 28	240 - 800 / 20 - 40
Clear becket dimensions	19 x 19	21 x 21	27 x 27	38 x 25	40 x 30	40 x 30
Max. load capacity	500	1000	1700	3000	3500	4000
Weight in kg approx.	0,25	0,85	1,20	1,85	3,80	6,20

No. 441 a Rope clips

with long, hardened jaws made of high-quality quenched and tempered steel, bright galvanized, for aluminium and steel cored aluminium wires or ropes.



Backenprofil



All dimensions in mm.

Rope Cross section in mm² / Rope-Ø	25 - 35 / 6,4 - 8,6	50 - 70 / 8,8 - 12	95 - 120 / 12,1 - 16	150 - 185 / 16,5 - 19,8	240 - 300 / 20 - 24,5
Clear becket dimensions	21 x 21	27 x 27	38 x 29	38 x 29	38 x 29
max. load capacity	1000	1700	3000	3500	4000
weight in kg approx.	0,85	1,10	1,80	3,50	3,50

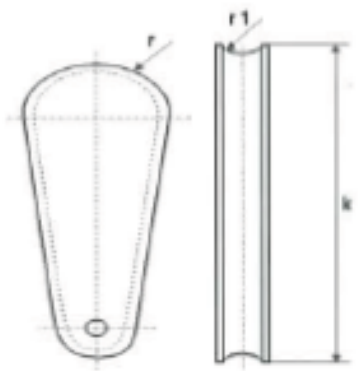
Galvanized rope sockets for lifts No. 524

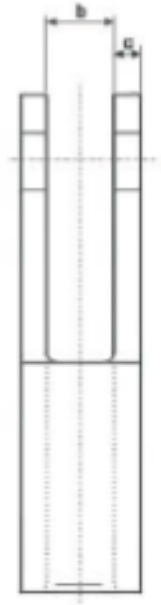
acc. to DIN 15315 with wedge and bolt. Not suitable for ropes with a stength of more than 1770N/mm² in each wire.
Case material 4 - 20 mm: St 37 - 2 acc. to DIN 17100 and 21 - 40 mm: GS 26 CrMo 4V.
Wedge material 4 - 20 mm: GG 20 acc. to DIN 1691 and 21 -40 mm: GTW 40 acc. to DIN 1692.
Sizes 26 - 30 up to 36 - 40 bore reforced.
All dimensions in mm.

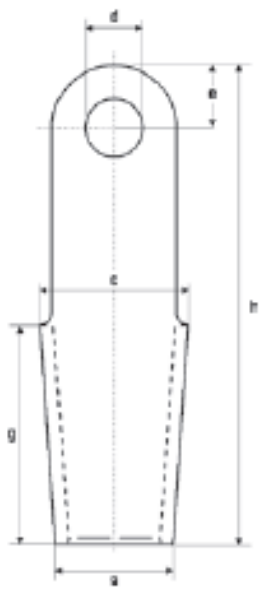


Rope-Ø	4 - 6	6 - 8	9 - 11	12 - 14	16 - 17	18 - 20	21 - 25
a	19	28	38	48	60	72	82
b	12	14	17	22	25	27	32
c	33	45	60	78	92	106	106
d	10	12	16	18	22	25	42,5
e	14	20	26	32	36	40	44
f	3	4	6	8	10	12	29
g	55	75	95	115	130	150	115
h	110	150	190	230	260	300	460
k	68	92	117	141	162	186	182
r	9,5	12,5	16	19	23	26	30
r1	2,5	4	5,5	7	8,5	10	13
Weight in kg	0,20	0,57	1,05	1,89	3,25	5,25	6,45

Rope-Ø	28 - 30	31 - 35	36 - 40
a	96	134	148
b	38	44	50
c	127	174	189
d	52	55	60
e	55	60	70
f	14	27	29
g	130	150	175
h	335	390	460
k	180	203	227
r	30	34	35
r1	15	18	21
Weight in kg	9,25	23,00	32,70







Hot-dip galvanized wedge socket No. 537

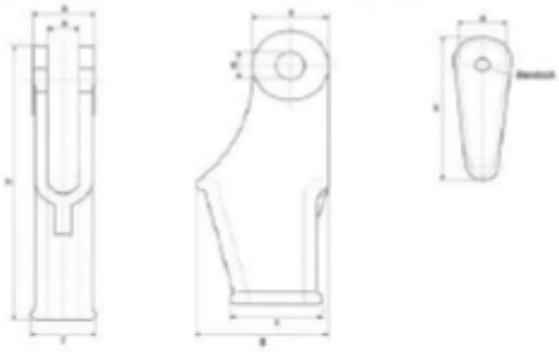
acc. to DIN 43148, with wedge and bolt
Case and wedge sizes 0 - 6: malleable cast iron,
Case and wedge sizes 7 - 10: cast iron,
bolt made of steel, split-pin made of copper, sizes 0 - 1 and 8 - 10 acc. to DIN 43148.



All dimensions in mm.

Rope-Ø	2 - 3	4 - 5	6 - 7	8	9 - 12	10 - 12	12 - 14
a	8	12	14	14	14	17	17
b	15	23	26	26	26	31	31
c	16,5	27,5	39	39	39	47	47
d	7,5	12	14	14	14	17	17
e	16	31	35	35	35	37	37
f	13	23	30	30	30	32	32
g	27	37	61,5	61,5	61,5	66	66
h	66	108	150	150	150	163	163
k	37	67	85	81	76	81	76
m	12,5	16	30	24	20	24	20
Identifying holes	0	0	3	2	1	2	1
Max. load capacity	60	250	500	500	500	1000	1000
Weight in kg approx.	0,07	0,33	0,80	0,80	0,82	1,13	1,13

Rope-Ø	12 - 16	16 - 17	18	19 - 20	21	22 - 25	26 - 30
a	20	24	24	29	30	30	37
b	40	52	52	63	66	66	91
c	65	89	89	97	124	124	135
d	20	25	25	25	33,5	33,5	48,5
e	54	76	76	77	90	90	112
f	44	54	54	67	69	69	82
g	99	138	138	138	175	175	199
h	220	275	275	276	370	370	486
k	112	148	136	161	218	190	212
m	36	56	49	52	90	78	88
Identifying holes	0	0	0	0	0	0	0
Max. load capacity	2500	5500	5500	8000	10000	10000	12000
Weight in kg approx.	2,25	4,85	5,88	7,80	11,98	11,80	27,40

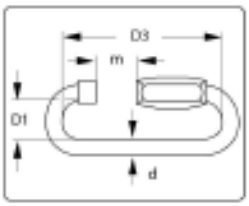


Quick link







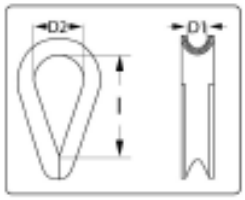


code	ident no	material	sur-face	D1 (mm)	D3 (mm)	d (mm)	m (mm)	BS (daN)	SWL (daN)	packaging unit (St.)	weight (g)
508-04	913209	NO	vz	11	31	4	5	900	180	200	12
508-05	909330	NO	vz	13	39	5	7	1400	280	100	20
508-06	901946	NO	vz	14	45	6	8	2000	400	50	36
508-07	905674	NO	vz	16	50	7	9	2750	550	50	52
508-08	903732	NO	vz	17	57	8	11	3500	700	100	79
508-10	911380	NO	vz	20	68	10	12	5500	1100	50	130
508-12	909324	NO	vz	23	81	12	16	7500	1500	25	231
508-14	933773	NO	vz	27	93	14	18	11000	2200	10	358
508-16	933783	NO	vz	30	108	16	20	14500	2900	10	558
508-A-04	905097	NO	vz	11	45	4	12	800	160	100	15
508-A-05	907289	NO	vz	13	52	5	14	1250	250	100	24
508-A-06	911127	NO	vz	15	57	6	14	1750	350	50	40
508-A-08	903225	NO	vz	18	72	8	18	3250	650	25	89
508-A-10	903226	NO	vz	20	85	10	21	5000	1000	25	153
508-A-12	933570	NO	vz	24	99	12	24	6250	1250	25	260
509-04	904247	NO	vz	26	32	4	6	500	100	100	13
509-06	902804	NO	vz	32	42	6	9	1250	250	100	39
509-07	904248	NO	vz	35	48	7	9	2000	400	100	56
509-08	903754	NO	vz	36	56	8	10	2750	550	50	84
509-10	915374	NO	vz	43	65	10	13	4500	900	50	152
509-12	901922	NO	vz	50	80	12	15	5500	1100	25	254
509-14	901923	NO	vz	54	87	14	17	9000	1800	25	397
509-16	901925	NO	vz	55	100	16	19	11000	2200	25	590

Grommet



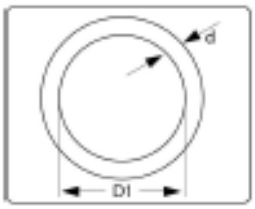




code	ident no	material	sur-face	DIN	rope-Ø (mm)	D1 (mm)	D2 (mm)	l (mm)	packaging unit (St.)	weight (g)
840-03	902745	NO	vz	DIN 6899 B	2,5	3	12	19	500	6
840-04	900349	NO	vz	DIN 6899 B	3,5	4	13	22	250	7
840-05	901726	NO	vz	DIN 6899 B	4	5	13	24,5	200	10
840-06	911489	NO	vz	DIN 6899 B	5	6	15	25	100	15
840-08	907480	NO	vz	DIN 6899 B	7	8	19	33	100	25
840-10	911136	NO	vz	DIN 6899 B	9	10	24	40	50	40
840-12	903530	NO	vz	DIN 6899 B	11	12	28	49	25	70
840-14	910038	NO	vz	DIN 6899 B	13	14	31	52	25	88
840-16	901302	NO	vz	DIN 6899 B	15	16	34	59	20	135
840-18	908894	NO	vz	DIN 6899 B	16	18	40	65	10	228
840-20	903838	NO	vz	DIN 6899 B	18	21	44	75	10	248
840-22	900955	NO	vz	DIN 6899 B	20	22	48	84	10	360
840-24	901641	NO	vz	DIN 6899 B	22	24	51	99	5	572
840-26	915201	NO	vz	DIN 6899 B	24	26	61	99	5	570
840-28	914669	NO	vz	DIN 6899 B	26	28	65	100	5	1100
844-I-02	924715	A2	po	DIN 6899 B	2	2	7	10	200	2
844-I-03	924716	A2	po	DIN 6899 B	2,5	3	9	18	100	3
844-I-04	924717	A2	po	DIN 6899 B	3,5	4	11	19,5	100	4
844-I-05	924718	A2	po	DIN 6899 B	4	6	13	25	100	5
844-I-06	924719	A2	po	DIN 6899 B	5	7	14	29	50	6
844-I-08	924720	A2	po	DIN 6899 B	7	8	18	34	50	10
844-I-10	924721	A2	po	DIN 6899 B	9	11	25	42	50	32
844-I-12	924722	A2	po	DIN 6899 B	11	13,5	28	50	25	39
844-I-14	924723	A2	po	DIN 6899 B	13	16	32	52	20	74
844-I-16	924724	A2	po	DIN 6899 B	16	16	38	64	10	86
844-I-20	924725	A4	po	DIN 6899 B	20	20	44	82	10	116

Ring





code	ident no	material	sur-face	D1 (mm)	d (mm)	packaging unit (St.)	weight (g)
258-20-3	917843	NO	vz	20	3	250	5
258-25-3,2	917840	NO	vz	25	3,2	250	7
258-30-03	917845	NO	vz	30	3	100	9
258-30-04	917841	NO	vz	30	4	100	10
258-35-07	917842	NO	vz	35	7	100	42
258-36-05	933939	NO	vz	36	5	50	9
258-40-05	933919	NO	vz	40	5	100	22
258-40-06	917844	NO	vz	40	6	100	33
258-40-08	933920	NO	vz	40	8	50	62
258-40-09	933921	NO	vz	40	9	50	79
258-40-10	933922	NO	vz	40	10	25	96
258-45-09	933931	NO	vz	45	9	50	88
258-50-05	933923	NO	vz	50	5	100	28
258-50-08	933924	NO	vz	50	8	50	64
258-50-09	933925	NO	vz	50	9	25	93
258-50-10	933589	NO	vz	50	10	25	118
258-50-12	933926	NO	vz	50	12	25	174
258-60-06	933927	NO	vz	60	6	100	50
258-60-08	933928	NO	vz	60	8	50	103
258-60-09	933929	NO	vz	60	9	25	111
258-60-10	933930	NO	vz	60	10	20	141
258-60-12	933590	NO	vz	60	12	25	207

Snap hook

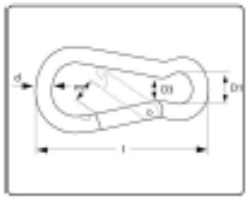










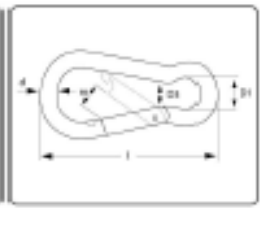


code	ident no	material	sur-face	D1 (mm)	D3 (mm)	d (mm)	m (mm)	l (mm)	SWL (daN)	packaging unit (St.)	weight (g)
245-IS-080-08	930001	316 / 1.4401	po	12	10	8	9	80	185	20	70
245-IS-100-10	930002	316 / 1.4401	po	15	13	10	13	100	260	10	126
245-IS-120-11	930003	316 / 1.4401	po	17	15	11	18	120	360	5	187
2450-IS-080-08	930010	316 / 1.4401	po	9	-	8	9	80	185	20	71
2450-IS-100-10	930011	316 / 1.4401	po	14	-	10	13	100	260	10	130
2450-IS-120-11	930012	316 / 1.4401	po	14	-	11	18	120	360	5	188
2450-IR-Lock-100-10	931647	316 / 1.4401	po	12	-	10	14	100	260	10	136
246-I-060-06	930004	316 / 1.4401	po	8	-	6	8	60	105	25	28
246-I-080-08	930009	316 / 1.4401	po	9	-	8	12	80	185	50	62
247-I-060-06	930005	316 / 1.4401	po	9	6	8	10	60	105	25	25
247-I-080-08	930006	316 / 1.4401	po	12	8	8	15	80	185	20	71
247-I-100-10	930007	316 / 1.4401	po	15	10	11	17	100	260	10	137
247-I-120-11	930008	316 / 1.4401	po	18	11	13	25	120	360	5	192

Snap hook


245

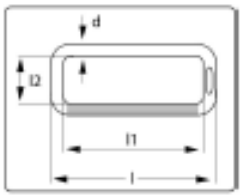

245 (DIN 5299 C)



code	ident no	material	sur-face	d (mm)	D1 (mm)	D3 (mm)	m (mm)	l (mm)	SWL (daN)	BS (daN)	packaging unit (St.)	weight (g)
245-040-04	909400	NO	vz	4	6	4	6	40	60	-	200	8
245-050-05 DIN 5299 C	901626	NO	vz	5	8	6	7	50	120	-	200	16
245-060-06 DIN 5299 C	905971	NO	vz	6	9	7	8	60	120	-	100	27
245-070-07 DIN 5299 C	911554	NO	vz	7	10	8	9	70	180	-	50	43
245-080-08 DIN 5299 C	907137	NO	vz	8	12	9	10	80	230	-	50	64
245-090-09 DIN 5299 C	911627	NO	vz	9	13	10	12	90	250	-	25	94
245-100-10 DIN 5299 C	907208	NO	vz	10	15	12	13	100	350	-	25	118
245-120-11 DIN 5299 C	905986	NO	vz	11	18	15	16	120	450	-	20	200
245-140-12 DIN 5299 C	910070	NO	vz	12	20	17	21	140	510	-	10	246
245-160-13 DIN 5299 C	910834	NO	vz	13	21	19	30	160	600	-	10	333
245-180-14 DIN 5299 C	922496	NO	vz	14	22	18	27	180	650	-	5	461
245-200-15	933798	NO	vz	15	27	20	40	200	500	-	5	606

Safety buckle / Safety «D» ring



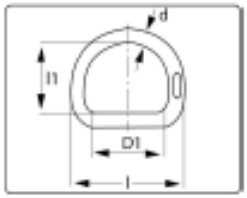


code	ident no	material	sur-face	d (mm)	l1 (mm)	l2 (mm)	l (mm)	SL (daN)	packaging unit (St.)	weight (g)
305-86	931813	LM	bl	9	86	35	104	800	100	46









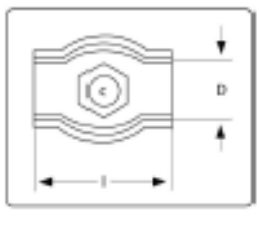
code	ident no	material	sur-face	d (mm)	D1 (mm)	l (mm)	l1 (mm)	SL (daN)	packaging unit (St.)	weight (g)
255-LM-45-12	931810	LM	vz	45	79	12	50	1500	100	71
255-ST-16x2,6	914368	NO	vn	2,6	16	22	12	-	50	2,4
255-ST-20x3,0	914370	NO	vn	3	20	27	15	-	250	3,8
255-ST-25-4,5	914363	NO	vn	4,5	25	34	21	-	250	12
255-I	926620	A4	bl	47	62	7	40	1100	50	52

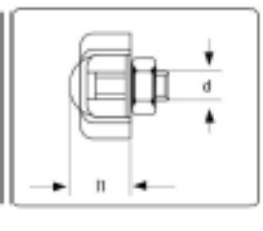
Rope clamp









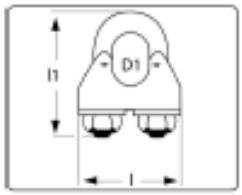


code	ident no	material	sur-face	Seil-Ø (mm)	d (mm)	D (mm)	l1 (mm)	l (mm)	packaging unit (St.)	weight (g)
511-02	917834	NO	vz	2	M 4	5	7	15	200	3
511-03	917835	NO	vz	3	M 4	7	8	17	200	3
511-04	917836	NO	vz	4	M 5	9	9	22	200	10
511-05	917837	NO	vz	5	M 5	11	10	24	100	12
511-06	917838	NO	vz	6	M 6	13	11	30	50	22
511-08	933821	NO	vz	8	M 8	17	15	36	50	50
512-02	933823	NO	vz	2	M 4	5	7	30	100	10
512-03	905253	NO	vz	3	M 4	7	8	40	100	15
512-04	901422	NO	vz	4	M 5	9	9	40	100	22
512-05	912533	NO	vz	5	M 5	11	10	50	50	30
512-06	903161	NO	vz	6	M 6	13	10	60	25	48
512-08	933824	NO	vz	8	M 8	17	16	76	25	90
514-02	927933	NO	vz	2	M 5	10	10	28	100	17
514-03	927934	NO	vz	3	M 5	11	11	28	100	17
514-04	927935	NO	vz	4	M 6	15	15	32	100	37
514-05	933819	NO	vz	5	M 6	16	16	33	100	40
514-06	933820	NO	vz	6	M 6	20	15	35	50	49

Rope clamp





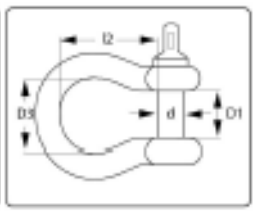


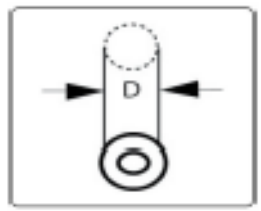
code	ident no	material	sur-face	DIN	Seil-Ø (mm)	d (mm)	D1 (mm)	l1 (mm)	l (mm)	packaging unit (St.)	weight (g)
1142-05	927924	TG	vz	DIN EN 13411-5	5	M5	6	25	25	200	21
1142-06	927925	TG	vz	DIN EN 13411-5	6	M6	7	32	30	100	35
1142-08	928653	TG	vz	DIN EN 13411-5	8	M8	9	40	39	50	80
1142-10	927927	TG	vz	DIN EN 13411-5	10	M8	11	46	40	25	100
1142-12	927928	TG	vz	DIN EN 13411-5	12	M10	13	54	50	10	160
1142-13	927922	TG	vz	DIN EN 13411-5	13	M12	14	64	54	10	240
1142-16	927929	TG	vz	DIN EN 13411-5	16	M14	17	78	65	10	410
1142-19	927930	TG	vz	DIN EN 13411-5	19	M14	20	83	69	10	476
1142-22	927931	TG	vz	DIN EN 13411-5	22	M16	23	93	75	5	680
1142-26	930382	TG	vz	DIN EN 13411-5	26	M20	27	116	84	5	1104
510-03	901503	TG	vz	DIN 741	3	M4	4	19	18	300	9
510-05	903824	TG	vz	DIN 741	5	M5	6	23	22	250	11
510-06	913631	TG	vz	DIN 741	6	M5	7	28	23	200	17
510-08	914196	TG	vz	DIN 741	8	M6	9	34	29	100	30
510-10	907363	TG	vz	DIN 741	10	M8	11	42	33	50	58
510-11	904147	TG	vz	DIN 741	11	M8	12	44	34	50	58
510-13	908483	TG	vz	DIN 741	13	M10	14	52	40	25	108
510-14	913320	TG	vz	DIN 741	14	M10	15	54	42	25	127
510-16	914307	TG	vz	DIN 741	16	M12	16	62	48	20	185
510-19	904346	TG	vz	DIN 741	19	M12	20	71	54	10	243
510-22	910126	TG	vz	DIN 741	22	M14	23	82	61	10	341
510-26	914862	TG	vz	DIN 741	25	M14	26	90	63	10	415
510-30	917027	TG	vz	DIN 741	28	M16	31	107	73	5	620
510-34	906281	TG	vz	DIN 741	34	M16	35	117	78	5	720
510-40	917028	TG	vz	DIN 741	40	M16	41	142	89	1	970

Shackle (straight)







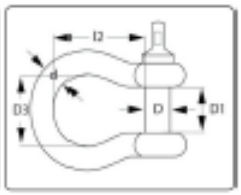


code	ident no	material	sur-face	d (mm)	D (mm)	D1 (mm)	l2 (mm)	SWL (daN)	packaging unit (St.)	weight (g)
82101-A-0,10	906783	NO	vz	5	5	7,5	14	100	200	13
82101-A-0,16	905516	NO	vz	6	6	8	18	160	200	23
82101-A-0,25	912630	NO	vz	8	8	10	23	250	50	52
82101-A-0,40	913075	NO	vz	10	10	13	29	400	25	108
82101-A-0,63	903547	NO	vz	12	12	16	38	630	25	176
82101-A-1,00	914077	NO	vz	15	13	23	48	1000	10	288
82101-A-1,60	911101	NO	vz	20	18	26	60	1600	5	714
82101-A-2,00	904813	NO	vz	22	20	29	67	2000	5	980
82101-A-2,50	915073	NO	vz	24	23	32	73	2500	5	1318
82101-A-3,15	911565	NO	vz	24	26	37	88	3150	5	1630
82101-A-4,00	910661	NO	vz	29	28	41	88	4000	5	2306
82101-A-5,00	908160	NO	vz	35	33	45	108	5000	5	3920
82101-A-6,30	907779	NO	vz	38	35	53	117	6300	1	5216
82101-A-8,00	933868	NO	vz	40	37	64	131	8000	1	6750
82101-A-10,00	933869	NO	vz	45	40	65	145	10000	1	7400
82101-C-0,40	933873	NO	vz	10	10	13	31	400	25	110
82101-C-0,63	933874	NO	vz	12	12	17	37	630	25	215
82101-C-1,60	933876	NO	vz	19	16	26	58	1600	5	698
82101-C-2,00	933877	NO	vz	21	20	30	68	2000	1	1100
82101-C-2,50	933878	NO	vz	25	22	33	74	2500	1	1540
82101-C-4,00	933880	NO	vz	30	27	42	91	4000	1	2400
82101-C-5,00	933881	NO	vz	35	32	45	116	5000	1	4530
82101-C-6,30	933882	NO	vz	39	34	53	119	6300	1	5216
82101-C-8,00	933883	NO	vz	41	38	60	139	8000	1	6750

Shackle (straight)







code	ident no	material	sur-face	d (mm)	D (mm)	D1 (mm)	l2 (mm)	SWL (daN)	packaging unit (St.)	weight (g)
50000-00,33	933701	HS	fe	6	5	9	21	330	25	24
50000-00,50	933702	HS	fe	8	7	12	22	500	25	42
50000-00,75	933703	HS	fe	9	8	13	25	750	25	69
50000-01,00	933704	HS	fe	11	9	16	32	1000	1	108
50000-01,50	933705	HS	fe	13	10	19	37	1500	1	160
50000-02,00	933706	HS	fe	16	13	21	42	2000	1	290
50000-03,25	933707	HS	fe	18	16	27	52	3250	1	540
50000-04,75	933708	HS	fe	22	19	31	62	4750	1	856
50000-06,50	933709	HS	fe	25	23	36	73	6500	1	1388
50000-08,50	933710	HS	fe	28	25	43	81	8500	1	2000
50000-09,50	933711	HS	fe	32	30	46	89	9500	1	2920
50000-12,00	933712	HS	fe	35	33	51	97	12000	1	4100
50000-13,50	933713	HS	fe	37	35	57	117	13500	1	5479
50000-17,00	933714	HS	fe	42	37	60	120	17000	1	6940
50000-35,00	933716	HS	fe	57	50	83	163	35000	1	17300
50000-S-0,50	933759	HS	fe	8	7	12	22	500	25	49
50000-S-0,75	933760	HS	fe	9	8	13	25	750	25	82
50000-S-1,00	933761	HS	fe	11	10	16	32	1000	1	149
50000-S-1,50	933762	HS	fe	12	12	19	37	1500	1	214
50000-S-02,00	933717	HS	fe	16	13,5	21	41	2000	1	316
50000-S-03,25	933718	HS	fe	19	16	26	51	3250	1	607
50000-S-04,75	933719	HS	fe	22	20	31	59	4750	1	1034
50000-S-06,50	933720	HS	fe	25	23	35	71	6500	1	1522
50000-S-08,50	933721	HS	fe	28	25,5	43	81	8500	1	2140
50000-S-09,50	933722	HS	fe	29	32	45	84	9500	1	3100
50000-S-12,00	933723	HS	fe	35	33	52	99	12000	1	4420
50000-S-13,50	933724	HS	fe	37	36	57	119	13500	1	5980
50000-S-17,00	933725	HS	fe	42	38	60	117	17000	1	7780
50000-S-25,00	933726	HS	fe	50	45	74	143	25000	1	12500
50000-S-35,00	933727	HS	fe	57	50	83	166	35000	1	19160

Press clip



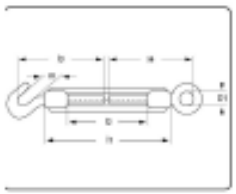
code	ident no	material	DIN	no	D1 (mm)	D2 (mm)	d (mm)	l (mm)	packaging unit (St.)	weight (g)
3093-01,0	933991	LM	DIN 3093	1	1,5	2	1	5	1000	0,1
3093-01,5	933992	LM	DIN 3093	1,5	2	3,5	1	6	1000	0,2
3093-02,0	933993	LM	DIN 3093	2	2,5	5	1	7	1000	0,3
3093-02,5	933994	LM	DIN 3093	2,5	3	5,5	1	9	1000	0,5
3093-03,0	933995	LM	DIN 3093	3	3,5	7	1	11	1000	0,8
3093-03,5	933996	LM	DIN 3093	3,5	4	7,5	1,5	13	500	1,3
3093-04,0	933997	LM	DIN 3093	4	4,5	9	1,5	14	500	1,8
3093-04,5	933998	LM	DIN 3093	4,5	4,5	10	2	16	500	2,6
3093-05,0	933999	LM	DIN 3093	5	5,5	11	2	18	500	3,6
3093-06,0	934000	LM	DIN 3093	6	6,5	13	2,5	21	500	5,9
3093-07,0	934002	LM	DIN 3093	7	8	15,5	3	25	100	9,5
3093-08,0	934003	LM	DIN 3093	8	9	17,5	3	28	100	13,7
3093-09,0	934004	LM	DIN 3093	9	10	20	3,5	32	100	19,8
3093-10,0	934005	LM	DIN 3093	10	11	22	4	35	100	26,4
3093-12,0	934007	LM	DIN 3093	12	13	26	5	42	50	48,8
3093-13,0	934008	LM	DIN 3093	13	14	28	5,5	46	50	60
3093-14,0	934009	LM	DIN 3093	14	15	30,5	6	49	50	75
3093-16,0	934010	LM	DIN 3093	16	17	35	7	56	50	111
3093-18,0	934011	LM	DIN 3093	18	19,5	39	7,5	63	50	159
3093-20,0	934012	LM	DIN 3093	20	21,5	43,4	8	70	50	217
3093-22,0	934013	LM	DIN 3093	22	24	47	9,5	77	25	292
3093-24,0	934014	LM	DIN 3093	24	26	53	10	84	25	376

Turn buckle


1480-A


1480-B


1480-C



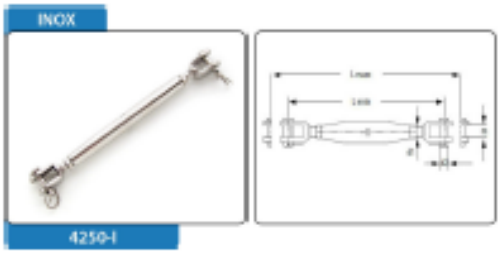
code	ident no	material	sur-face	D1 (mm)	m (mm)	l1 (mm)	l2 (mm)	l3 (mm)	l4 (mm)	packaging unit (St.)	weight (g)
1480-M06-110 A	912288	NO	vz	9	9	110	82	72	72	25	90
1480-M08-110 A	914391	NO	vz	11	10	110	80	78	78	25	135
1480-M10-125 A	903001	NO	vz	12	13	125	85	88	88	10	255
1480-M12-125 A	911277	NO	vz	17	15	125	81	113	113	10	430
1480-M14-140 A	912395	NO	vz	18	17	140	89	115	115	10	580
1480-M16-170 A	911331	NO	vz	22	18	170	118	123	123	10	905
1480-M20-200 A	912467	NO	vz	26	20	200	132	151	151	10	1650
1480-M22-220 A	917857	NO	vz	30	21	220	147	170	170	10	1970
1480-M24-255 A	913331	NO	vz	28	25	255	175	195	195	1	2780
1480-M30-255 A	933855	NO	vz	30	32	250	172	240	240	1	4770
1480-M36-295 A	934642	NO	vz	38	43	295	190	280	280	1	8250
1480-M06-110 B	919324	NO	vz	10	-	110	80	78	78	25	92
1480-M08-110 B	917851	NO	vz	10	-	110	80	78	78	25	144
1480-M10-125 B	905044	NO	vz	14	-	125	90	88	88	10	240
1480-M12-125 B	915484	NO	vz	17	-	125	83	100	100	10	383
1480-M14-140 B	908603	NO	vz	18	-	140	93	110	110	10	509
1480-M16-170 B	900045	NO	vz	22	-	170	118	140	140	10	898
1480-M20-200 B	908652	NO	vz	25	-	200	136	165	165	10	1510
1480-M22-220 B	917858	NO	vz	29	-	220	147	169	169	10	1890
1480-M24-255 B	917859	NO	vz	32	-	255	175	187	187	1	2620
1480-M30-255 B	933856	NO	vz	30	-	255	170	200	200	1	4160
1480-M06-110 C	919325	NO	vz	-	8	110	80	74	74	25	85
1480-M08-110 C	905352	NO	vz	-	9	110	80	81	81	25	155
1480-M10-125 C	917852	NO	vz	-	13	125	89	93	93	10	261
1480-M12-125 C	919323	NO	vz	-	15	125	83	99	99	10	406
1480-M14-140 C	917854	NO	vz	-	17	140	89	114	114	10	623
1480-M16-170 C	909746	NO	vz	-	18	170	116	138	138	10	926
1480-M20-200 C	917856	NO	vz	-	20	200	136	160	160	10	1520
1480-M22-220 C	926599	NO	vz	-	23	220	147	190	190	10	2090
1480-M24-255 C	917860	NO	vz	-	27	255	179	235	235	1	3470
1480-M30-255 C	933857	NO	vz	-	33	255	165	250	250	1	5370

Turn buckles



code	ident no	material	sur-face	D1 (mm)	m (mm)	l1 (mm)	l2 (mm)	l3 (mm)	l4 (mm)	packaging unit (St.)	weight (g)
1485-I-05 A	907736	A4	po	8	10	70	55	53	53	25	44
1485-I-06 A	910539	A4	po	11	10	90	68	70	70	25	80
1485-I-08 A	909627	A4	po	12	10	119	93	82	82	10	143
1485-I-10 A	906215	A4	po	17	10	150	122	101	101	5	256
1485-I-12 A	904372	A4	po	19	15	200	167	145	145	1	528
1485-I-16 A	906628	A4	po	22	16	245	200	170	170	1	1080
1485-I-05 B	932306	A4	po	8	-	70	54	52	52	25	43
1485-I-06 B	930072	A4	po	10	-	90	75	76	76	25	84
1485-I-08 B	930073	A4	po	14	-	120	93	87	87	10	145
1485-I-10 B	930074	A4	po	15	-	150	117	103	103	10	334
1485-I-12 B	930075	A4	po	17	-	200	170	135	135	1	400
1485-I-16 B	930076	A4	po	22	-	247	215	165	165	10	1020
1485-I-05 C	933623	A4	po	-	7	74	57	52	52	25	520
1485-I-06 C	933624	A4	po	-	10	90	68	71	71	25	72
1485-I-08 C	933625	A4	po	-	10	120	95	80	80	10	142
1485-I-10 C	933626	A4	po	-	11	150	120	123	123	10	238
1485-I-12 C	933627	A4	po	-	15	200	170	145	145	1	502
1485-I-16 C	933628	A4	po	-	19	250	205	175	175	1	1095

Shroud tensioners



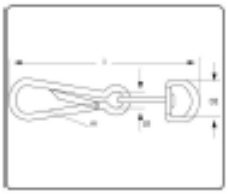
code	ident no	material	sur-face	d1 (mm)	d2 (mm)	m (mm)	L min (mm)	L max (mm)	BS (daN)	packaging unit (St.)	weight (g)
4250-I-05	914337	A4	po	M5	5	7	127	180	700	10	51
4250-I-06	907744	A4	po	M6	5	7,5	140	200	900	1	90
4250-I-08	909628	A4	po	M8	8	11	166	250	1500	1	170
4250-I-10	913298	A4	po	M10	8	11,5	190	280	3000	1	260
4250-I-12	902167	A4	po	M12	12	10	222	350	4500	1	525

Hooks


4293-1/2


4293


115-D

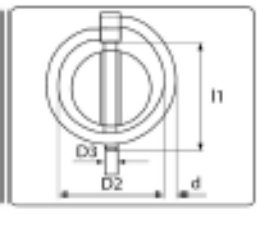


code	ident no	material	sur-face	DIN	D1 (mm)	D2 (mm)	m (mm)	l (mm)	packaging unit (St.)	weight (g)
4293-1/2-040	901332	NO	vn	DIN 5287-A	7	-	5	38	500	3
4293-1/2-050	901333	NO	vn	DIN 5287-A	9	-	7	50	500	4
4293-1/2-060	903461	NO	vn	DIN 5287-A	9	-	7	60	200	9
4292-1/2-060	917736	NO	vz	DIN 5287-A	11	-	8	60	250	8
4293-1/2-080	901129	NO	vn	DIN 5287-A	11	-	11	80	100	18
4293-1/2-100	900976	NO	vn	DIN 5287-A	13	-	14	100	50	63
4293-1/2-I-040	901924	316 / 1.4571	po	DIN 5287-A	6	-	6	40	200	2
4293-1/2-I-050	901929	316 / 1.4571	po	DIN 5287-A	9	-	7	50	200	14
4293-1/2-I-060	901926	316 / 1.4571	po	DIN 5287-A	10	-	7	60	200	14
4293-1/2-I-080	901927	316 / 1.4571	po	DIN 5287-A	11	-	12	80	100	21
4293-1/2-I-100	901928	316 / 1.4571	po	DIN 5287-A	13	-	15	100	50	44
4293-025	933674	NO	vn	DIN 5287-B	5	11	4	50	500	3
4293-030	902054	NO	vn	DIN 5287-B	7	11	4	53	500	4
4293-040	901818	NO	vn	DIN 5287-B	7	12	7	70	500	5
4293-050	901792	NO	vn	DIN 5287-B	8	13	7	80	250	10
4293-060	901786	NO	vn	DIN 5287-B	9	17	8	98	200	14
4293-070	901723	NO	vn	DIN 5287-B	11	21	10	115	200	24
4293-080	901686	NO	vn	DIN 5287-B	12	22	12	127	50	31
4293-090	934734	NO	vn	DIN 5287-B	12	21	10	137	100	36
4293-100	901629	NO	vn	DIN 5287-B	12	25	13	157	25	55
4293-120	901630	NO	vn	DIN 5287-B	15	24	16	170	25	77
115-D-16	931930	NO	ge	-	-	16	13	73	50	33

Safety pin

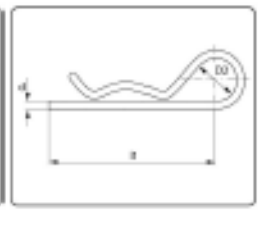


60000





61000





61500

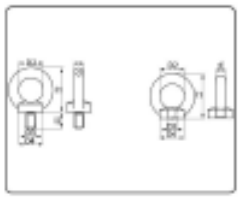
code	ident no	material	sur-face	D3 (mm)	D2 (mm)	d (mm)	l1 (mm)	packaging unit (St.)	weight (g)
60000-04,5	932689	NO	vz	4,5	40	3	42	100	14
60000-06	932690	NO	vz	6	40	3	42	100	20
60000-08	932692	NO	vz	8	40	3	42	100	28
60000-09	932693	NO	vz	9	40	3	42	100	33
60000-10	932694	NO	vz	10	43	3	42	50	43
60000-11	932695	NO	vz	11	43	3	42	50	47
61000-02	932696	NO	vz	-	10	2	42	200	3
61000-03	932697	NO	vz	-	16	3	60	200	9
61000-04	932698	NO	vz	-	20	4	73	100	17
61000-05	932699	NO	vz	-	24	5	82	100	33
61000-06	932700	NO	vz	-	30	6	100	50	60
61000-07	932701	NO	vz	-	25	7	93	50	84
61000-08	932702	NO	vz	-	38	8	126	50	115
61500-02	932703	NO	vz	-	10	2	50	100	4
61500-03	932704	NO	vz	-	16	3	65	100	12
61500-04	932705	NO	vz	-	23	4	75	100	30
61500-05	932706	NO	vz	-	26	5	92	50	90
61500-06	932707	NO	vz	-	30	6	115	50	90
61500-08	933811	NO	ge	-	29	8	134	25	180

Eye screw and nut









code	ident no	mate-rial	DIN	D2 (mm)	D3 (mm)	D4 (mm)	d (mm)	l1 (mm)	l2 (mm)	SWL (daN)	packaging unit (St.)	weight (g)
580-06	NO	vz	DIN 580	16	M6	16	6	29	12	70	50	26
580-08	NO	vz	DIN 580	20	M8	20	9	37	13	140	50	62
580-10	NO	vz	DIN 580	25	M10	25	10	45	17	230	25	106
580-12	NO	vz	DIN 580	30	M12	30	13	53	20	340	10	170
580-14	NO	vz	DIN 580	35	M14	35	14	58	24	490	10	230
580-16	NO	vz	DIN 580	35	M16	35	14	62	25	700	10	290
580-20	NO	vz	DIN 580	40	M20	40	16	71	30	1200	10	448
580-22	NO	vz	DIN 580	37	M22	40	16	73	30	1500	5	448
580-24	NO	vz	DIN 580	50	M24	50	20	90	36	1800	5	890
582-06	NO	vz	DIN 582	20	M6	20	9	37	-0	90	50	30
582-08	NO	vz	DIN 582	20	M8	20	9	37	-0	140	50	48
582-10	NO	vz	DIN 582	25	M10	25	10	45	-0	230	25	93
582-12	NO	vz	DIN 582	30	M12	30	13	53	-0	340	10	150
582-14	NO	vz	DIN 582	35	M14	35	14	62	-0	500	10	190
582-16	NO	vz	DIN 582	34	M16	35	13	64	-0	700	10	225
582-20	NO	vz	DIN 582	40	M20	40	16	71	-0	1200	10	330
582-22	NO	vz	DIN 582	45	M22	45	18	82	-0	1500	5	490
582-24	NO	vz	DIN 582	50	M24	50	20	90	-0	1800	5	710
166-45	TG	vn	-	-	-	-	5	13	7	47	100	23
166-60	TG	vn	-	-	-	-	5	18	11	58	50	45
166-70	TG	vn	-	-	-	-	6	19	14	69	50	50

Fitting for cargo















code	ident no	material	sur-face	webbing (mm)	thickness (mm)	length (mm)	BS (daN)	SWL (daN)	packaging unit (St.)	weight (g)
5733-50	933818	HS	ge	50	6	68	5000	2500	250	108
5733-R-50	930048	HS	ge	50	12	70	5000	2500	50	178
5751-50	932657	HS	ge	50	-	78	1500	750	250	91
5783-36	905963	NO	vz	36	10	145	2200	1100	10	406
5784-45	905088	NO	vz	25	5	60	1800	900	100	45
5782	905086	HS	ge	20	-	62	2720	1360	100	95
5786	905087	HS	ge	50	8	62	2300	1150	100	145

Legend

Surface

vn = nickle plated
vz = zinc plated
sc = black
ge = yellow galv.
po = polished
bl = bright
fe = hot dip galv.
gr = green
el = anodized
pv = PVC coating
fb = color blue
fr = color red
fg = color green
fl = color yellow
fs = color silver
fv = color violet
fz = color black
sb = blasted

Material

Body

ZD = Zinc die cast
HS = High tensile steel
LS = Alloy Steel
SS = Drop forged steel
TG = Malleable cast iron
MS = solid brass
KS = plastic

spring

NS = stainless steel
NO = normal steel
LM = light metal alloy
GG = grey cast iron
A4 = AISI 316
A2 = AISI 304

Strength

BS = breaking strength
SWL = charges admissibles
SL = static load

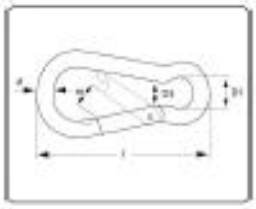
Key hook black



240R



2922R



code	ident no	material	sur-face	d (mm)	D1 (mm)	D3 (mm)	m (mm)	l (mm)	PU	weight (g)
240R-60-06	950179	LM	el. black	5,4	10	7,5	14	60	50	11
2922R-80-08	950079	LM	el. black	7,6	18		19	79	50	22

Snap Hook black



100-bl



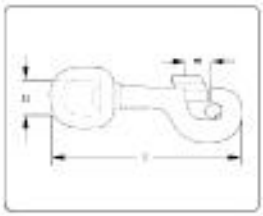
149-22 bl



50-S-6-bl



50-bl

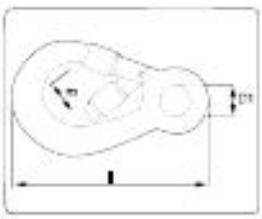


code	ident no	material	sur-face	D (mm)	m (mm)	l (mm)	PU	weight (g)
100-bl	950010	ZD	black galv.	22	9	60	25	44
50-16-bl	924048	ZD	galv. black	17	10	80	50	32
50-S-6-bl	931215	ZD	galv. black	19	10	75	50	36
149-22 Bl.	931204	ZD	black	22	6	43	200	4,4

Safety hook black

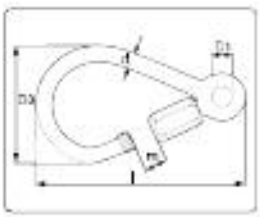


5750-B-CE





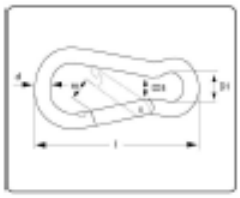
227-S



code	ident no	material	sur-face	D1 (mm)	m (mm)	l (mm)	SL (daN)	PU	weight (g)	d (mm)	D3 (mm)	BS (daN)
5750-B-CE	931391	LM	sc	21	18	140	2200	50	135	-	-	-
227-S	931206	NO	sc	11	14	106,5	x	25	96	8	60	1200

Snap hook standard black

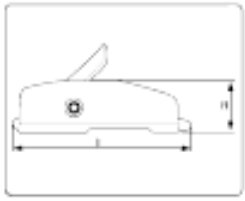




code	ident no	material	sur-face	d (mm)	D1 (mm)	D3 (mm)	m (mm)	l (mm)	SWL (daN)	PU	weight (g)
245-B-040-04	909401	NO	black galv.	4	6	4,6	6	41	60	200	8
245-B-050-05	909402	NO	black galv.	5	8	6	7	50	70	200	16
245-I-B-050-05	920739	316 / 1.4571	black galv.	5	8	6	7	50	95	50	16
245-B-060-06	909403	NO	black galv.	6	9	7	8	60	90	100	27
245-B-080-08	909404	NO	black galv.	8	12	9	10	80	140	50	64
2118-38	932097	NO	black	6	38	x	8	74	150	25	45
2118-40	932098	NO	black	4,5	40	x	6,5	62	100	25	30

Cam buckle black





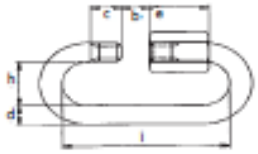
code	ident no	material	sur-face	webbing (mm)	bandwidth (mm)	l1 (mm)	l (mm)	BS (daN)	SWL (daN)	PU	weight (g)
5702-B-25	930384	ZD	fz	25	1.2-1.7	12	44	250	125	500	36

Ratchet black



code	ident no	material	sur-face	webbing (mm)	h (mm)	l (mm)	BS (daN)	SWL (daN)	PU	weight (g)
234-B-25	929935	HS	black	25	35	115	800	400	100	207

Quick link DIN 56927 Form B

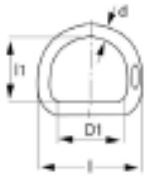


Manufactured according to BGV C-1 with a safety factor of 10.
It has a large opening, is painted black and stamped with the DIN standard, manufacturer´s name and the carrying capacity



code	WLL BGV-C1 (kg)	d (mm)	c (mm)	e (mm)	i (mm)	h (mm)	b (mm)	PU	weight / 100 pcs. (kg)
KSV-B-03.50	50	3,5	3	17,5	40	10	10	100	1,04
KSV-B-05.00	140	5	4	23,4	52,5	13,1	13,2	100	2,36
KSV-B-06.00	200	6	4,5	27	62	15	14,2	50	3,88
KSV-B-08.00	350	8	5,5	32,1	73,4	18	16,6	50	8,8
KSV-B-10.00	550	10	7	36	85,5	20,5	20,5	25	17,2
KSV-B-12.00	750	12	8,5	43	100	23,5	23,5	25	27,5

Safety D-ring black





code	ident no	material	sur-face	d (mm)	D1 (mm)	l (mm)	l1 (mm)	PU	weight (g)
255-B-32-4	950056	NO	bl	4	34	42	23	500	10

Masterlink, Black painted, EN 1677-4



code	1-leg (mm)	WLL 0° (t)	2-legs (mm)	0°-45° (t)	thick-ness (mm)	inside (mm)	weight (kg)
AR-13-8-B	6/7	1,12	6	1,60	13	90x50	0,34
AR-16-8-B	8	2,00	7	2,12	16	110x60	0,53
AR-18-8-B	10	3,15	8	2,80	18	130x70	0,92

Abrasion-resistant black shackles

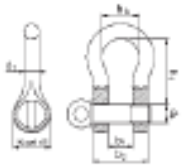
Shackle high tensile steel, drop forged, with screw collar pin
U.S. Federal Specification RR-C-271 according to EN 13889, CE stamped, safety factor 6



SH1-B



SH2-B



code	WLL (t)	b1 (mm)	b2 (mm)	b3 (mm)	d1 (mm)	d3 (mm)	d4 (mm)	h1 (mm)	kg/ pc.	PU
SH1-B-00.33	0,33	9,5	21	16	5	12,5	6	22	0,02	25
SH1-B-00.50	0,5	12	25	19	6	17	8	28	0,05	25
SH1-B-00.75	0,75	13	29	21	8	21	10	31	0,08	25
SH1-B-01.00	1	16	36	26	10	26	12	36	0,14	25
SH1-B-01.50	1,5	18	40	29	11	28	14	42	0,22	25
SH1-B-02.00	2	21	47	33	13	30	16	48	0,33	25
SH1-B-03.25	3,25	27	59	43	16	42	20	60	0,65	20
SH1-B-04.75	4,75	32	70	51	19	48	22	71	0,97	10
SH1-B-06.50	6,5	36	80	58	22	57	27	84	1,46	5

also available with safety pin (SH2-B)

Thimble, DIN 6899, Type BF, black, plastified

code	nominal size (mm)	groove width (mm)	width inside (mm)	length inside (mm)	spine thickness (mm)	weight / 100 pcs. (kg)	PU
30200301	2,5	3	12	19	1,2	0,5	100
30200401	3,5	4	13	21	1,2	0,8	100
30200501	4	5	14	23	1,7	1	100
30200601	5	6	16	25	2,2	1,6	100
30200701	6	7	18	28	2,2	1,9	100
30200804	7	8	20	32	2,7	3	100
30201002	9	10	20	38	2,9	4,7	100



Powder Coated Black Wire Tender

code	ident no	material	colour	rope-Ø	no	l (mm)	PU	weight (g)
1389-B	925626	NO	black	6,6	Tool 10	120	50	165



Turn buckles DIN 1480, black with hook and eye

code	thread size (mm)	length tender (mm)	ends	weight / 100 pcs. (kg)	PU
602006	M6	110	Hook/Eye	10,5	100
602008	M8	110	Hook/Eye	14,5	100
602010	M10	125	Hook/Eye	28	100
602012	M12	125	Hook/Eye	42	100





Blackline Chain hoist, 500 kg

Lifting capacity 500 kg. Device with rugged steel enclosure, varnished black, rotary equipment and load hook. Lifting and lowering by activation of hand chain.
Load chain 6 mm DIN 5684 Grade 80 zinc coated. Hand chain 5 mm similar to DIN 763 long chain links zinc coated.

code	chain length load chain (m)	chain length hand chain (m)
TFZ-005-B-03.00-03.00	3	3
TFZ-005-B-04.00-04.00	4	4
TFZ-005-B-05.00-05.00	5	5
TFZ-005-B-06.00-06.00	6	6
TFZ-005-B-07.00-07.00	7	7
TFZ-005-B-08.00-08.00	8	8
TFZ-005-B-09.00-09.00	9	9
TFZ-005-B-10.00-10.00	10	10
TFZ-005-B-11.00-11.00	11	11
TFZ-005-B-12.00-12.00	12	12
TFZ-005-B-13.00-13.00	13	13
TFZ-005-B-14.00-14.00	14	14
TFZ-005-B-15.00-15.00	15	15

Blackline Chain hoist, 1000 kg

Lifting capacity 1.000 kg. Device with rugged steel enclosure, varnished black, rotary equipment and load hook. Lifting and lowering by activation of hand chain.
Load chain 6 mm DIN 5684 Grade 80 zinc coated. Hand chain 5 mm similar to DIN 763 long chain links zinc coated.

code	chain length load chain (m)	chain length hand chain (m)
TFZ-010-B-03.00-03.00	3	3
TFZ-010-B-04.00-04.00	4	4
TFZ-010-B-05.00-05.00	5	5
TFZ-010-B-06.00-06.00	6	6
TFZ-010-B-07.00-07.00	7	7
TFZ-010-B-08.00-08.00	8	8
TFZ-010-B-09.00-09.00	9	9
TFZ-010-B-10.00-10.00	10	10
TFZ-010-B-11.00-11.00	11	11
TFZ-010-B-12.00-12.00	12	12
TFZ-010-B-13.00-13.00	13	13
TFZ-010-B-14.00-14.00	14	14
TFZ-010-B-15.00-15.00	15	15

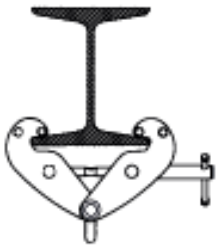
Other chain lengths can be tailored on request.

Black beam clamp with forged pivoting eyelet

As fit-up aid and attachment point for hoisting gear.
Adjustable to desired flange width via threaded spindle.
Safeguarding against accidental opening on request.
Safety factor 4



code	lifting capacity (kg)	flange width (mm)	fange height (mm)	max. opening (mm)	weight (kg)
STK-010-B	1.000	75-220	20	284	4
STK-020-B	2.000	75-220	20	284	5
STK-030-B	3.000	80-320	38	365	9
STK-050-B	5.000	90-320	38	365	11



code	stop collar
STK-010-020-ADS	Für STK-010-B und STK-020-B
STK-030-050-ADS	Für STK-030-B und STK-050-B

Steel chain according to EN 818-2, Black painted



code	Ø (mm)	WLL (t)	partition (mm)	weight (kg)
K-5687-06.0-8-SW	6	1,12	6x18x22,2	0,8
K-5687-08.0-8-SW	8	2	8x24x29,6	1,4
K-5687-10.0-8-SW	10	3,15	10x30x37	2,2

Shortening claw with locking pin

painted red, with bolt and locking pin



code	Ø (mm)	WLL (t)	weight (kg)
VKS-06-8	6	1,12	0,3
VKS-08-8	8	2,00	0,5
VKS-10-8	10	3,15	1,0

Safety Rope Gliders

ALL LOAD CAPACITIES STATED ARE STATIC









RopeFix® 40S
Rope ø4,0mm
WLL: 60kg
(according to BGI 810-3)
Min. breaking force: 8.000 N

Rope construction:
6x7+1FE
6x19+1FE
1770 N/mm²

M10A x 12mm
Item-No: 010-570-4040-1001
Connecting thread:
M10 x 12mm External thread
Length: 57mm
Diameter: 20mm
Weight: approx. 100 Gramm

Ring
Item-No: 010-570-4040-1002
Diameter: 20mm
Length: 90mm
Ring inside diameter: 25mm
Ring outside diameter: 45 mm
Weight: approx. 190 Gramm

Fork head and folding spring bolt
Item-No: 010-570-4040-1003
Diameter: 20mm
Length: 97mm
Fork size: 10mm
Fork width: 20mm
Spring loaded bolt: 10mm
Weight: approx. 190 Gramm
Color surface fork head: silver

Fork head and folding spring bolts
Item-No: 010-570-4040-1004
as above, but:
Color surface fork head: black

M10I + SSA
Item-No: 010-570-4040-1005
Connecting thread:
M10 x 10mm Internal thread
Length: 70mm
Diameter: 20mm
Weight: approx. 180 Gramm
(SSA = side rope exit)

RopeFix® 50S
Rope ø5,0mm
WLL: 90kg
(according to BGI 810-3)
Min. breaking force: 12.500 N

Rope construction:
6x7+1FE
6x19+1FE
6x37+1FE
1770 N/mm²

M12A x 14mm
Item-No: 010-570-5050-1001
Connecting thread:
M12 x 14mm External thread
Length: 62 mm
Diameter: 25mm
Weight: approx. 160 Gramm

M12A x 20mm
Item-No: 010-570-5050-1002
Connecting thread:
M12 x 20mm External thread
Length: 68mm
Diameter: 25mm
Weight: approx. 160 Gramm

Ring
Item-No: 010-570-5050-1003
Diameter: 25mm
Length: 101mm
Ring inside diameter: 30mm
Ring outside diameter: 54mm
Weight: approx. 320 Gramm

Fork head and folding spring bolt
Item-No: 010-570-5050-1004
Diameter: 25mm
Length: 110mm
Fork size: 12mm
Fork width: 24mm
Spring loaded bolt: 12mm
Weight: approx. 300 Gramm
Color surface fork head: silver

Fork head and folding spring bolt
Item-No: 010-570-5050-1005
as above, but:
Color surface fork head: black

M12I + SSA
Item-No: 010-570-5050-1006
Connecting thread:
M12 x 12 mm Internal thread
Length: 78mm
Diameter: 25mm
Weight: approx. 250 Gramm
(SSA = side rope exit)

RopeFix® 80S
Rope ø6,0mm
WLL: 135kg
(according to BGI 810-3)
Min. breaking force: 20.000 N

Rope ø 8,0mm
WLL: 240kg
(according to BGI 810-3)
Min. breaking force: 35.000 N

Rope construction:
6x19+1FE
6x37+1FE
1770 N/mm²

M20A x 17mm
Item-No: 010-570-8080-1001
Connecting thread:
M20 x 17mm External thread
Length: 90mm
Diameter: 40mm
Weight: approx. 600 Gramm

M20A x 30mm
Item-No: 010-570-8080-1002
Connecting thread:
M20 x 30mm External thread
Length: 103mm
Diameter: 40mm
Weight: approx. 620 Gramm

Ring
Item-No: 010-570-8080-1003
Diameter: 40mm
Length: 144mm
Ring inside diameter: 40mm
Ring outside diameter: 72mm
Weight: approx. 950 Gramm

Fork head and folding spring bolt
Item-No: 010-570-8080-1004
Diameter: 40mm
Length: 178mm
Fork size: 20mm
Fork width: 40mm
Spring loaded bolt: 20mm
Weight: approx. 1.300 Gramm
Color surface fork head: silver

Fork head and folding spring bolt
Item-No: 010-570-8080-1005
as above, but:
Color surface fork head: black

M20I + SSA
Item-No: 010-570-8080-1006
Connecting thread:
M20 x 15mm Internal thread
Length: 135mm
Diameter: 40mm
Weight: approx. 930 Gramm
(SSA = side rope exit)

M12I + SSA
Item-No: 010-570-8080-1007
as above, but:
Connecting thread:
M12 x 15mm Internal thread
(SSA = side rope exit)

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ALL LOAD CAPACITIES STATED ARE STATIC



Workloads for general lifting equipment according to TÜV certification number: Z1A 15 09 70668 006

Travers clip + SSA
Item-No: 010-570-4040-1006
Diameter: 20mm
(SSA = side rope exit)
for tube Ø 48-51 mm

RopeFix® 40S
rope ø4,0mm
Workload (TÜV): 150kg

Travers clip + SSA
Item-No: 010-570-5050-1007
Diameter: 25mm
(SSA = side rope exit)
for tube Ø 48-51 mm

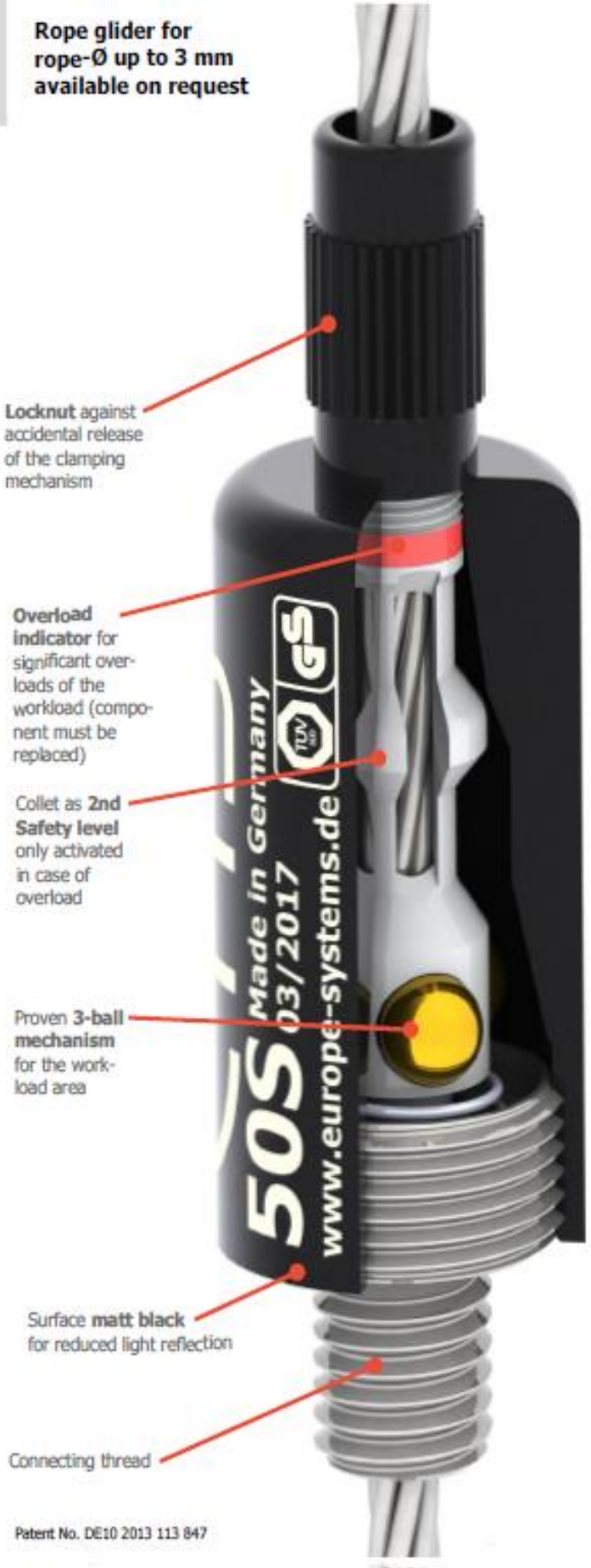
RopeFix® 50S
rope ø5,0mm
Workload (TÜV): 250kg

Travers clip + SSA
Item-No: 010-570-8080-1008
Diameter: 40mm
(SSA = side rope exit)
for tube Ø 48-51 mm

RopeFix® 80S
rope ø6,0mm
Workload (TÜV): 370kg

rope ø8,0mm
Workload (TÜV): 600kg

Rope glider for rope-Ø up to 3 mm available on request

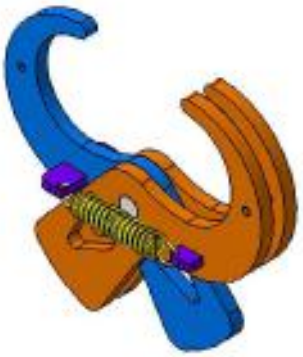


Patent No. DE10 2013 113 847

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Security - Clamp

for installation on traverses, tubes etc.







Security:

- the more weight is hanging on it the more tightens the security clamp
- WLL 340 kg, with security factor 6 (breaking force more than 2 t)
- as soon as the shackle is attached, the opening of the security clamp is impossible
- only little space for installation necessary, no sharp edges, low risk of catching
- tested by the German TÜV, test report available upon request (in German)

Ergonomics:

- installation without any tools possible
- due to perfected design the installation on traverses, tubes etc. is possible
- ergonomic handle, allows:
  - to close the clamp while opened
    (remains in opened position due to tensioned double spring)
  - simple shifting on the tube by slightly pressing the clamp together
- black electro-zinc coating

Security - Clamp

for installation on traverses, tubes etc.



shackle available separately

TÜV-Test
(also in the end of the catalogue)

Scope of application:
- optimised product for tube diameter 48,3 mm and 50 mm, further sizes available on request
- Suspension of aluminium constructions, speakers, headlights etc.

Exclusive SPECTAT:
- patented product
- product made in France
- invention and production by SPECTAT, distribution by Räder-Busch

Code: Security-Clamp Ø50

SPECTAT

Räder - Busch® GmbH

- **Ropes / Wires**
- **Roundslings**
- **Winches**

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9

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Black wire ropes	9.3 - 9.4
Roundslings / Edge protectors	9.5 - 9.6
Electric and manual winches	9.7 - 9.24

Fiber ropes Lengths on demand

Hemp rope twisted, DIN EN 1261 Form B (DIN 83325)







also plaited

- 4-strands

code	rope-Ø mm	min. breaking force daN	weight kg/m
HA06/4	6	285	0,027
HA08/4	8	450	0,047
HA10/4	10	700	0,074
HA12/4	12	1.080	0,111
HA14/4	14	1.375	0,141
HA16/4	16	1.825	0,185
HA18/4	18	2.250	0,23
HA20/4	20	2.780	0,285
HA22/4	22	3.240	0,345
HA24/4	24	3.980	0,41
HA26/4	26	4.600	0,485
HA28/4	28	5.410	0,56
HA30/4	30	6.180	0,64
HA32/4	32	7.090	0,735
HA36/4	36	8.560	0,93
HA40/4	40	9.980	1,15
HA44/4	44	11.800	1,38
HA48/4	48	14.100	1,66
HA52/4	52	16.700	1,92
HA56/4	56	19.100	2,24

Polyester twisted, DIN 83331 / EN 697 Form A





- 3-strands, stretch-resistant
- doesn't become hard
- UV- and acid-resistant

code	rope-Ø mm	min. breaking force daN	payload kg	weight kg/100m
PS1.0008	8	1000	100	4,8
PS1.0010	10	1560	150	7,6
PS1.0012	12	2220	220	11
PS1.0014	14	3120	310	14,8
PS1.0016	16	3980	400	19,5
PS1.0018	18	4980	500	24,5
PS1.0020	20	6200	620	30,3

Polyester plaited, DIN EN 83307 Form E



- very good quality, very high resistance
- low-twist, smooth, doesn't become hard
- UV- and acid-resistant

code	rope-Ø mm	min. breaking force daN	payload kg	weight kg/100m
PS2.0004	4	255	25	1,1
PS2.0006	6	564	60	2,4
PS2.0008	8	980	100	4,3
PS2.0010	10	1510	150	6,8
PS2.0012	12	2120	210	9,8
PS2.0014	14	2800	280	13,3

Fiber ropes Lengths on demand

fiber ropes are also available with hooks, loops or thimbles

Polyamide twisted, DIN 83330 / EN 696

- 3-strands
- highest resistance, elastic, white
- rot-proof



code	rope-Ø mm	min. breaking force daN	payload kg	weight kg/100m
PA2.0008	8	1320	155	4
PA2.0010	10	2040	140	6,2
PA2.0012	12	2940	300	8,9
PA2.0014	14	4020	450	12,2
PA2.0016	16	5200	600	15,8
PA2.0018	18	6570	700	20
PA2.0020	20	8140	900	24,5

Polyamide plaited, DIN 88307 Form E

- plaits depend on rope-diameter, 8-times, 12-times, 16-times or 24-times
- highest resistance, smooth, elastic
- rot-proof



code	rope-Ø mm	min. breaking force daN	payload kg	weight kg/100m
PA1.0001	1	30	3	0,2
PA1.0002	2	95	9	0,22
PA1.0003	3	160	15	0,36
PA1.0004	4	270	26	0,75
PA1.0005	5	400	40	1,4
PA1.0006	6	610	60	2
PA1.0008	8	1090	100	3,3
PA1.0010	10	1670	165	5,6
PA1.0012	12	2400	240	8,1

Polypropylene twisted, DIN EN 699 Form A

- 3-strands
- floating
- orange



code	rope-Ø mm	min. breaking force daN	payload kg	weight kg/100m
PP.0008	8	940	90	3
PP.0010	10	1400	140	4,5
PP.0012	12	2000	200	6,5
PP.0014	14	2740	275	9
PP.0016	16	3430	340	11,5
PP.0018	18	4370	440	14,8
PP.0020	20	5270	520	18
PP.0024	24	7450	750	26

Black wire rope Lengths on request





Black wire rope, 6x7 with steel core inside

rope-Ø (mm)	weight/m (kg)	Code	min. breaking force (kN) 1770N/mm²	Code	min. breaking force (kN) 1960N/mm²
1,5	0,0089	310153	1,42	310155	1,57
2	0,0157	310203	2,54	310205	2,82
2,5	0,0246	310253	3,96	310255	4,39
3	0,0354	310303	5,71	310305	6,32
4	0,0629	310403	10,2	310405	11,3
5	0,0983	310503	15,9	310505	17,6





Black wire rope, 6x19 with steel core inside

rope-Ø (mm)	weight/m (kg)	Code	min. breaking force (kN) 1770N/mm²	Code	min. breaking force (kN) 1960N/mm²
3	0,0342	320303	5,29	320305	5,86
4	0,0609	320403	9,4	320405	10,4
5	0,0952	320503	14,7	320505	16,3
6	0,138	320603	21,2	320605	23,5
8	0,243	320803	37,6	320805	41,6





Black wire rope, 17x7 with steel core inside

rope-Ø (mm)	weight/m (kg)	Code	min. breaking force (kN) 1770N/mm²	Code	min. breaking force (kN) 1960N/mm²
4	0,0643	420403	9,29	420405	10,3
5	0,1	420503	14,5	420505	16,1
6	0,145	420603	20,9	420605	23,1
7	0,197	420703	28,5	420705	31,5
8	0,257	420803	37,2	420805	41,1

inox ropes and ropes for winches are available on request

BJERRING – Tykhøjetvej 20 – Hal 5 – 7323 Give – Tlf. +45 77345206 - mail: salg@bjerring-sales.dk bjerring-sales.dk – sunswim.dk – bjerring-shop.dk – bjerring-furniture.dk

Stopping rope and accessory parts Lengths on request

Stopping ropes according to BGI 810-3

Stopping ropes according to BGI 810-3 and galvanized according to DIN EN 12385-4 in style 6x19+FC, 1960 N/mm², with two thimbles B DIN 6899, special thimbles on demand (e.g. 50x80 mm)



Code	rope-Ø (mm)	Load 1 strand (kg)	Load (kg) 2 strands Angle 0° - 45°	Load (kg) 2 strands Angle 45° - 60°
040301	3	40	55	40
040401	4	70	100	70
040501	5	110	155	110
040601	6	175	245	175
140801	8	310	435	310
141001	10	485	680	485
141201	12	700	975	700
141401	14	950	1335	950

Crimping tool

for mechanical pressing of aluminium clamps

Code	for rope-Ø	Length
SF.35.9200.8.JSF	2-5 mm	650 mm





Wire rope cutter

for cutting wire ropes

Code	Version	for wire rope-Ø	for wire rope-Ø	Length (mm)
SF.97.49.07	C7	5	7	190
SF.97.49.09	C9	7	9	325
SF.97.49.12	C12	8	12	500
SF.97.49.16	C16	14	16	630





Yale Entertainment Systems



Yale round slings in black

PES single ply protection sleeve RSE similar EN 1492-2 (colour black)

code	EAN-Code 4025092*	WLL (kg)	length (m)
33101007	358071	1000	0,50
33101012	357982	1000	1,00
33101017	358019	1000	1,50
33101022	357999	1000	2,00
33101027	358088	1000	2,50
33101032	348095	1000	3,00
33101042	358330	1000	4,00
33102007	358101	2000	0,50
33102012	347029	2000	1,00
33102017	357036	2000	1,50
33102022	357043	2000	2,00
33102027	358118	2000	2,50
33102032	357050	2000	3,00
33102042	358361	2000	4,00





Yale round slings in black

single ply protection sleeve round sling RSE-SRS with steel core and control label

code	EAN-Code 4025092*	WLL (kg)	length (m)
33601005	626392	1000	0,50
33601010	626408	1000	1,00
33601015	626415	1000	1,50
33601020	626606	1000	2,00
33601030	626620	1000	3,00
33602005	358392	2000	0,50
33602010	358408	2000	1,00
33602015	358415	2000	1,50
33602020	358422	2000	2,00
33602030	358668	2000	3,00
33603005	626644	3000	0,50
33603010	626651	3000	1,00
33603015	626668	3000	1,50
33603020	626675	3000	2,00
33603030	626699	3000	3,00
33603040	626705	3000	4,00
33604005	626279	4000	0,50
33604010	626286	4000	1,00
33604015	626293	4000	1,50
33604020	626309	4000	2,00



Yale Entertainment Systems

Yale lashing straps black - one-piece

according to EN 12195-2

code	EAN-Code 4025092*	LC (daN)	length (m)
34100232	358125	250	3,00
34100242	358132	250	4,00
34100262	358149	250	6,00
34101017	358187	1000	1,50
34101062	358194	1000	6,00
34101082	358200	1000	8,00
34102027	358217	2000	2,50
34102082	358224	2000	8,00
34102012	358231	2000	10,00

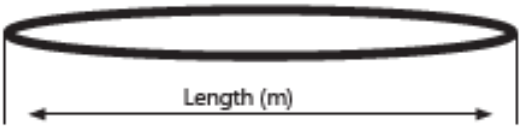


Yale lashing straps black - two-piece

according to EN 12195-2, claw hook

code	EAN-Code 4025092*	LC (daN)	length (m)
34700232	358156	250	3,00
34700242	358163	250	4,00
34700262	358170	250	6,00
34701017	358248	1000	1,50
34701062	358255	1000	6,00
34701082	358262	1000	8,00
34702027	358309	2000	2,50
34702082	358286	2000	8,00
34702012	358323	2000	10,00





Yale lifting straps black - one-piece

width 25 mm, according to EN 1492-2 PES, with loop, security factor 7

code	EAN-Code 4025092*	WLL (kg)	length (m)
31600503	358439	500	0,35
31600505	358446	500	0,50
31600510	358453	500	1,00
31600515	358460	500	1,50



Edge protector transparent

for round slings, chains and ropes

code	inside size (mm)	length (mm)	for round sling up to
LRW 030-080	30	80	2 t
LRW 050-125	50	125	5 t



Electric wire rope winches

Wire rope winches

Electric wire rope winch BETA SL

The electric wire rope winches BETA SL are available in proven technology and feature standard equipment with a contactor control system (incl. gear-type limit switch). Enclosed worm gear pairs or spur gears with high-quality brake motors ensure long and reliable operation.



BETA SLD

Equipment and design

- Maintenance-free worm gear pairs and/or low-maintenance spur gear with milled and ground gear wheels – with oil bath lubrication
- Exceptionally quiet running due to helical gearing
- Electrically released spring-operated disc brake
- Duty ratio S3 - 40 %
- Powerful three-phase motor for multi-range voltage 380-420 V / 50 Hz or 440-460 V / 60 Hz
- Motor protection IP 55
- Grooved wire rope drum
- Large wire rope capacity
- **Your benefit – delivered in just one week**



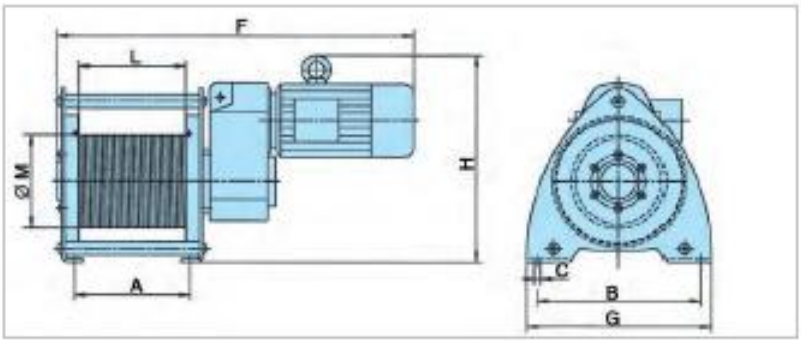
BETA SL2

Electric wire rope winches

Wire rope winches

Electric wire rope winch BETA SL

Dimensions



Art.No.	Size	Capacity 1st layer kg	Rope speed m/min	FEM	Norm	V	Power kW	Rope Ø* mm	Rope capacity 1st layer m	Rope capacity top layer m	A mm	B mm	C Ø* mm	F mm	G mm	H mm	L mm	M Ø* mm
	Type code																	
40063758	SL0	250	2,5	1 Bm	D8	400V	0,25	4	7	46,7	185	170	12	389	432	241	180	64
31140006	SL0	250	4,7	1 Bm	D8	400V	0,37	4	7	46,7	185	170	12	389	432	241	180	64
40062946	SL1	500	6,8	1 Am	D8	400V	0,75	6	6,7	48,9	215	300	13,5	740	340	340	200	86
40062989	SL1	630	6,8	1 Bm	D8	400V	0,75	6	6,7	48,9	215	300	13,5	750	340	345	200	86
40062990	SL2	980	6,0	1 Am	D8	400V	1,1	9	11	77,5	270	400	18	920	465	475	250	175
40062993	SL2	1250	6,0	1 Am	D8	400V	1,1	9	11	77,5	270	400	18	930	465	480	250	175
40062996	SL3	2000	6,8	1 Bm	D8	400V	2,2	12	10	74,5	320	510	22	1070	570	614	300	175

*recommended rope: DIN 3089 FE-ark-1960 sZ-spa

Options


Slack rope switch


Control pendant


Pressure roller


Frequency converter*

Size	Capacity	Control	Mechanical
SL0	250 kg	Control pendant	./.
SL1	500 / 630 kg	Control pendant or frequency converter	Single version pressure roller or slack ropeswitch, alternative pressure roller and slack rope switch
SL2	980 / 1250 kg	Control pendant or frequency converter	Single version pressure roller or slack rope switch, alternative pressure roller and slack rope switch
SL3	2000 kg	Control pendant or frequency converter	Single version pressure roller or slack rope switch, alternative pressure roller and slack rope switch

Delivery time for versions control pendant, pressure roller or slack rope switch approx. 10 days
*Delivery time for version frequency converter approx. 25 days

Electric wire rope winches

Wire rope winches

Electric wire rope winch BETA EL

The robust and elegant electric wire rope winches BETA EL are used for lifting, lowering and pulling all types of loads in all applications. The proven technology and the high quality standard of the electric wire rope winch BETA EL guarantee trouble-free, reliable and durable operation. All the models are modular in design and, thanks to their various options, permit a high degree of versatility when it comes to configuring a customised solution. The use of high-quality components and gear motors offers you reliability and longevity.

Equipment and design

- Maintenance-free worm gear pairs with milled and ground gearwheels – with oil bath lubrication
- Exceptionally quiet running due to helical gearing
- Electrically released spring-operated disc brake
- Duty ratio S3 - 40 %
- Contactor control system 42 V
- Powerful three-phase motor for multi-range voltage 380-420 V / 50 Hz or 440-460 V / 60 Hz
- Motor protection IP 55
- Grooved wire rope drum
- Large wire rope capacity
- 2 rope fasteners
- Variable rope direction
- Modular design – versatile configuration
- Electronic overload protection from 1000 kg lifting capacity
- Complies with accident prevention regulations BGV D 8



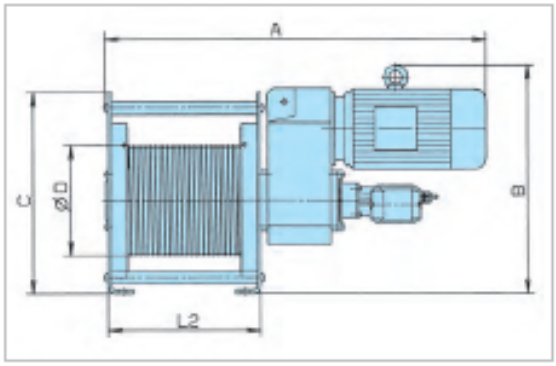
Additional equipment and options

- External operation via cable / radio control
- Gear-type limit switch, adjustable
- Slack rope switch
- Rope clamping rollers
- Special wire rope drums for multi-rope operation
- Drum extensions
- Special preservation
- Other operating voltages
- Other systems of motor protection
- Absolute and incremental encoders
- Control with frequency converter for continuously variable speeds

Electric wire rope winches

Wire rope winches

Electric wire rope winch BETA EL



Size	Capacity 1st Layer	Rope speed 1st Layer	FEM	Norm	Power	Rec. Rope nom. strength	Rec. Rope Ø*	Rope capacity		Weight	Dimensions in mm				
								1st Layer	Total						
	kg	m/min			kW	N/mm²	mm	m	m	kg	A	B	C	D-Ø	L2
Type code															
EL1	320	5,6	2m	D8	0,37	1960	5	16,2	77,8	62,5	710	333	325	175	264
EL1	320	13,8	2m	D8	0,75	1960	5	16,2	77,8	63,9	725	343	325	175	264
EL1	320	30,7	2m	D8	1,5	1960	5	16,2	77,8	69	826	319	325	175	264
EL1	500	3,7	1Am	D8	0,37	1960	6	8,5	58,5	63	705	319	325	108	264
EL1	500	8,5	1Am	D8	0,75	1960	6	8,4	58,5	63,9	725	343	325	108	264
EL1	500	19,1	1Am	D8	1,5	1960	6	8,4	58,5	69	826	319	325	108	264
EL1	630	3,0	1Bm	D8	0,37	1960	6	6,8	48,9	63	702	319	325	86	264
EL1	630	6,8	1Bm	D8	0,75	1960	6	6,8	48,6	63	731	319	325	86	264
EL1	630	15,2	1Bm	D8	1,5	1960	6	6,8	48,6	69	826	319	325	86	264
EL2	800	4,8	2m	D8	0,75	1960	8	17,1	85,5	100,9	852	490	444	242	338
EL2	800	10,3	2m	D8	1,1	1960	8	17,1	85,5	104	907	490	444	242	338
EL2	800	20,5	2m	D8	3	1960	8	17,1	85,5	113,5	940	490	444	242	338
EL2	980	3,4	1Am	D8	0,75	1960	9	11,0	77,4	101	840	490	444	175	338
EL2	980	7,5	1Am	D8	1,1	1960	9	11,0	77,4	104	907	490	444	175	338
EL2	980	14,9	1Am	D8	3	1960	9	11,0	77,4	114	986	490	444	175	338
EL2	1250	2,7	1Bm	D8	0,75	1960	9	8,7	64	101	840	490	444	138	338
EL2	1250	5,9	1Bm	D8	1,1	1960	9	8,7	64	104	895	490	444	138	338
EL2	1250	11,8	1Bm	D8	3	1960	9	8,7	64	114	895	490	444	138	338
EL3	1250	5,2	2m	D8	1,1	1770	12	16,3	61,3	164,5	1014	614	547	295	406
EL3	1250	11,0	2m	D8	2,2	1770	12	16,3	61,3	174	1065	614	547	295	406
EL3	1250	15,5	2m	D8	3	1770	12	16,3	61,3	177	1088	600	547	295	406
EL3	1600	3,9	1Am	D8	1,1	1960	12	12,1	87,7	165	997	600	547	218	406
EL3	1600	8,1	1Am	D8	2,2	1960	12	12,1	87,7	174	1065	614	547	218	406
EL3	1600	12,5	1Am	D8	3	1960	12	12,1	87,7	173	1037	614	547	218	406
EL3	2000	3,1	1Bm	D8	1,1	1960	12	9,8	73,8	165	997	600	547	175	406
EL3	2000	9,3	1Bm	D8	3	1960	12	9,8	73,8	177	1088	600	547	175	406
EL3.5	2500	5,4	2m	D8	2,2	1770	14	13,8	53,9	221	1100	673	547	295	406
EL3.5	2500	10,6	2m	D8	4	1770	14	13,8	53,9	234	1120	673	547	295	406
EL3.5	3200	4,5	1Am	D8	2,5	2160	14	11,4	64,5	221	1091	684	547	242	406
EL3.5	3200	9,1	1Am	D8	5	2160	14	11,4	64,5	233,6	1147	684	547	242	406
EL4	3200	7,0	2m	D8	4	1770	18	15,6	62	435	1253	817	687	364	480
EL4	4000	6,2	1Am	D8	4	1960	18	12,7	98,3	434,6	1265	826	687	295	480
EL4	5000	4,7	1Bm	D8	4	2160	16	12,0	92	435	1253	817	687	242	480
EL5	5000	4,2	2m	D8	3	1960	20	20,3	79,2	1047,4	1549	1046	844	451	568
EL5	6300	3,4	1Am	D8	3	2160	20	16,4	93,4	1047,4	1549	1046	844	364	568
EL5	7500	5,7	1Bm	D8	5,5	2160	20	13,4	104,8	1019,4	1549	1046	844	295	568

*recommended steel rope: DIN 3069 SE-znk-1960, non-rotating

Electric wire rope winches

Wire rope winches

Electric wire rope winch BETA EL (BGV C1)

Whether shopping malls, sports halls or churches, the BETA EL (BGV C1) provides the solution for positioning decorations safely and reliably.

What is more, besides our tried-and-trusted DELTA theatre winch, the BETA BGV C1 is also used for various applications in theatres.

Equipment and design

- Tensile loads from 180 to 3200 kg
- Additional equipment same as for wire rope winch BETA EL

We are always pleased to configure customised solutions upon request!





Image source: Stadthalle Garstedten

Electric wire rope winches

Wire rope winches

Electric wire rope winch BETA EX

These models can be used in all applications involving a danger of igniting an explosive atmosphere (mixture of air, gases, vapours and/or dust/air mixtures).

Thanks to a special modular system, it is possible to configure the right winch to suit each specific application.

Equipment and design

- Load 320 to 7,500 kg
- High-grade surface coating
- Electrically released spring-operated disc brake
- Three-phase drives for multi-range voltage 400V-50Hz, insulation class F, duty ratio 40 % ED
- Electronic overload protection from 1,000 kg lifting capacity as standard
- Maintenance-free, spur gear with oil bath lubrication
- Variable rope direction thanks to two wire rope fasteners (left and right)
- Adjustable gear-type limit switch for restricting the wire rope travel in both directions



Additional equipment and options

- Electric control with flameproof enclosure Ex II 2 GD de IIB T4 T 135 °C
- Electric control non ATEX-compliant (mounted outside ATEX area)
- Special wire rope drums
- Rope clamping roller
- Special voltages
- Special wire ropes with copper-plated lifting hooks
- Guide rollers, roller blocks
- ATEX-compliant Ex II 2 GD IIB T4 135 °C IP 65



Manual wire rope winches

Manual wire rope winches

Overview manual wire rope winches

The key criteria for rapid product selection

Selection criteria per series:
Max. possible load
Mounting _____ consoles/wall fastening
Coating (indoor/outdoor mounting) _____ aluminium, galvanised, stainless steel, painted



Console-mounted wire rope winch SW K-LB galvanized



Console-mounted wire rope winch SW K-LB stainless steel



Wall-mounted wire rope winch ALPHA



Wall-mounted wire rope winch SW-W



Console-mounted aluminum wire rope winch SW K GAMMA



Compact aluminum wire rope winch SW KAL with free-wheeling



Wall-mounted wire rope winch SW-W-SGO with worm gear



Manual wire rope winch OMEGA



Console-mounted wire rope winch LAMBDA BGV C1

Model	Norm	Mounting	Gearbox	Coating	Tensile loads 1st rope position across entire series								
					250	500	750	1000	1500	2000	3000	4000	5000
LB galvanized	BGV D8	Console	Spur gear	galvanized					1200				
LB stainless steel	BGV D8	Console	Spur gear	stainless steel				900					
SWW ALPHA	BGV D8	Wall	Spur gear	galvanized				1000					
SWW	BGV D8	Wall	Spur gear	Alu (-125kg) painted			750						
SWK GAMMA	BGV D8	Console	Spur gear	Aluminum				800					
SW-KAL	BGV D8	Console	Worm gear	Aluminum					1120				
SWW-SGO	BGV D8	Wall	Spur gear	painted									5000
OMEGA BGV D8	BGV D8	Console	Spur gear	painted					1000				
OMEGA ATEX	BGV D8	Console	Spur gear	painted					1000				
OMEGA OFFSHORE	BGV D8	Console	Spur gear	painted				800					
SWK LAMBDA	BGV C1	Console	Spur gear	painted		300							

Manual wire rope winches

Manual wire rope winches

Console-mounted wire rope winch SW-K LB

Loading capacity 150 – 1200 kg, galvanized
Loading capacity 250 – 900 kg, stainless steel

The rope winch SW K-LB, originally developed as a vehicle winch, is today used to lift and pull the most diverse loads.



galvanized
650-900 kg

Equipment and design galvanized

- Loading capacity 150 - 1.200 kg
- Robust steel-sheet housing with low weight
- Smooth-running spur gear for high efficiency and comfortable operation
- The attached load pressure brake keeps the load safe in any position
- All parts galvanised, rope drum additionally coated for an increased corrosion protection (KTL)
- Simple and fast console attachment

Optional

- Automatic unwinding for a fast manual pulling of the unstressed rope

Equipment and design stainless steel

- Loading capacity 250 - 900 kg
- All parts in high-class stainless steel version
- Robust steel-sheet housing with low weight
- Smooth-running spur gear for high efficiency and comfortable operation
- The attached load pressure brake keeps the load safe in any position
- Rope drum is additionally coated with corrosion protection
- Simple and fast console attachment



stainless steel
900 kg

Technical Data

Model	Art.-No. galvanized design	Art.-No. free wheeling device	Art.-No. stainless steel version	Capacity 1st layer kg	Capacity top layer kg	Rope Ø* mm	Useable rope 1st layer m	Useable rope top layer m	Lift per crank rotation mm	Req. crank effort daN	Weight w/o rope kg
LB 150 VZ	30239016	-	-	150	75	4*	0,8	11	125	17	4,2
LB 350 VZ	30239015	-	-	350	170	4*	1,8	20	125	25	4,8
LB 650 VZ	40239004	-	-	650	290	6*	1	20	55	22	7,3
LB 900 VZ/ARA	40239006	40239007	-	900	400	7*	0,8	14	58	24	10
LB 1200 VZ/ARA	40239008	40239009	-	1200	430	7**	1	26	45	24	12,1
LB 250 VA	-	-	30239017	250	125	4*	1,8	19,5	125	20	4,8
LB 650 VA	-	-	40239012	650	290	6*	1	20	55	22	7,8
LB 900 VA	-	-	30239013	900	320	7*	1	26	45	24	12,1

*recommended rope: DIN 3060 FE-znk 1770 sZ-spa
**recommended rope: DIN 3069 SE-znk 2160 sZ-spa

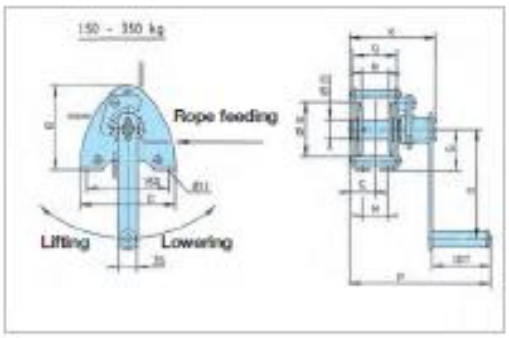
Manual wire rope winches

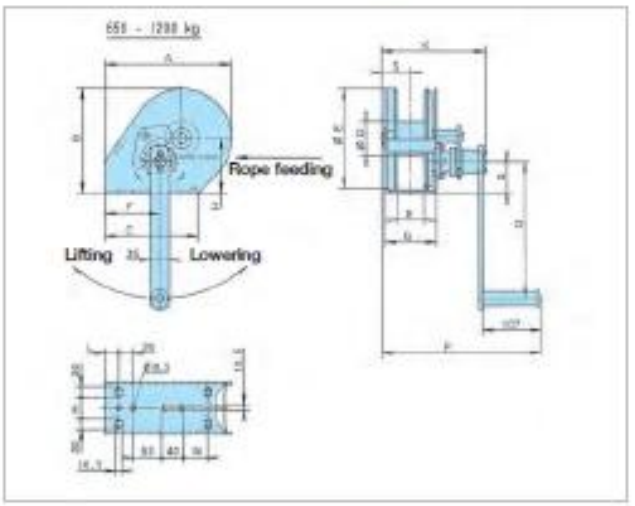
Manual wire rope winches

Console-mounted wire rope winch SW-K LB

Loading capacity 150 – 1200 kg, galvanized
Loading capacity 250 – 900 kg, stainless steel







Dimensions

Model	LB 150 VZ	LB 350 VZ	LB 650 VZ	LB 900 VZ LB 900 ARA	LB 1200 VZ LB 1200 ARA	LB 250 VA	LB 650 VA	LB 900 VA
Art.-No. galvanized design	30239016	30239015	40239004	40239006	40239008	-	-	-
Art.-No. free wheeling device	-	-	-	40239007	40239009	-	-	-
Art.-No. stainless steel version	-	-	-	-	-	30239017	40239012	30239013
A, mm	-	-	232	273	273	-	232	273
B, mm	155	155	192	192	266	155	192	266
C, mm	175	175	210	210	240	175	210	240
Ø D, mm	36	36	63,5	63,5	63,5	36	63,5	63,5
Ø E, mm	100	100	183	183	255	100	183	255
F, mm	-	-	100	100	78	-	100	78
G, mm	75	75	58	58	75	75	58	75
H, mm	-	-	100	100	138	-	100	138
K, mm	159	189	192	192/226*	192/226*	191,5	190	190
L, mm	-	-	25	25	35	-	25	35
M, mm	45	75	38	38	30	75	38	30
N, mm	-	-	-	-	53	-	-	53
O, mm	200	320	250	320	320	320	250	250
P, mm	280	290	293	293/303*	293/303*	292,5	291	291
Q, mm	81	111	95	95	95	111	95	95
R, mm	50	80	50	50	50	80	50	50
S, mm	48	63	55	55	55	65,5	55	55

*Free wheeling device

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Manual wire rope winches

Wall-mounted wire rope winch SW-W ALPHA

Loading capacity 300 – 1.000 kg

The versatile wall rope winch SW-W ALPHA for lifting loads.



Equipment and design

- Loading capacity 300 – 1.000 kg
- Robust steel-sheet housing with low weight and flat design
- Smooth-running spur gear for high efficiency and comfortable operation
- Rope release possible in all directions
- All parts galvanized, rope drum is additionally coated with corrosion protection
- The attached crank handle with load pressure brake ensures a safe hold of the load in every position
- Simple and fast attachment to walls

Technical Data

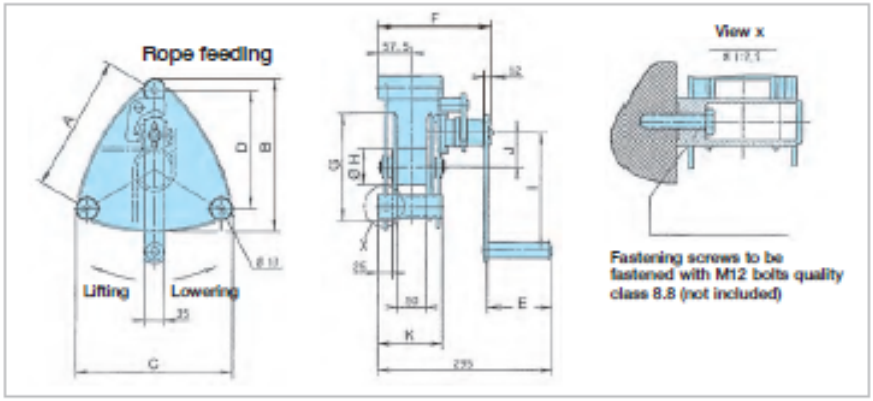
Model	Art.-No.	Capacity 1st layer kg	Capacity top layer kg	Drum length mm	Rope Ø* mm	Useable rope 1st layer m	Useable rope top layer m	Lift per crank rotation mm	Req. crank daN	Weight w/o rope kg
ALPHA 300	30272006	300	130	50	5	1,3	28	57	13	10
ALPHA 500	30272005	500	230	50	6	1	20	55	17	10
ALPHA 750	30272002	750	270	50	7	1	28	45	17	16
ALPHA 1000	30272001	1000	360	50	7	1	28	45	18	16

*recommended rope: DIN3060 FE-zink 1770sZ-spa

Dimensions

Model	ALPHA 300	ALPHA 500	ALPHA 750	ALPHA 1000
Art.-No.	30272006	30272005	30272002	30272001
A, mm	234	234	306	306
B, mm	282	282	337	337
C, mm	274	274	357	357
D, mm	203	203	285	285
E, mm	107	107	107	107
F, mm	194	194	194	194
G, mm	183	183	255	255
Ø H, mm	63	63	63,5	63,5
I, mm	200	250	250	320
J, mm	58,6	58,6	92,5	92,5
K, mm	109,5	109,5	107	107

*Free wheeling device



Manual wire rope winches

Manual wire rope winches

Wall-mounted wire rope winch SW-W

Loading capacity 80 – 750 kg

The wall rope winches SW-W are designated for a fixed mounting in buildings. The steel wire rope is led to the desired suspension point of the load by means of deflector rolls.



Equipment and design

- Loading capacity 80 - 750 kg
- Robust aluminium housing for SW-W 80 and 125 kg
- Approved steel-sheet version for rope winches 300 to 750 kg
- Smooth-running spur gear for high efficiency and comfortable operation
- Direct drive for loading capacities of up to 125 kg
- The silent safety spring brake keeps the load safe in any position
- Detachable crank handle for wall rope winch 80 and 125 kg
- Folding crank for version 300 to 750 kg
- Simple and fast attachment to walls

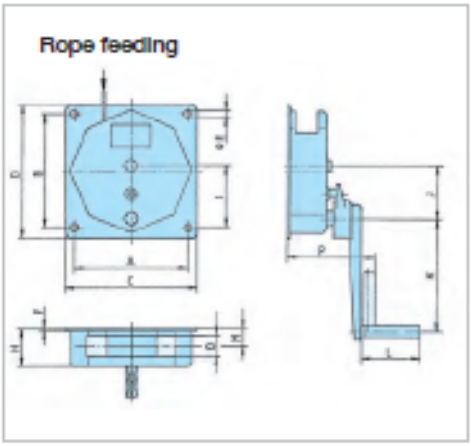
Technical data

Model	Art.-No.	Capacity 1st layer kg	Capacity top layer kg	Drum length mm	Rope Ø* mm	Useable rope 1st layer m	Useable rope top layer m	Lift per crank rotation mm	Req. crank daN	Weight w/o rope kg
SW-W 80	40271017	80	45	51	3*	2,4	30	170	12	3
SW-W 125	40271008	125	65	40	4*	2	12	138	13	3
SW-W 300	30271001	300	220	108	5**	2,1	15	68	15	10
SW-W 500	30271136	500	350	108	6**	2,4	15	35	13	11
SW-W 750	30271019	750	550	108	7**	2	10	35	20	11

*recommended rope: DIN 3055 FE-zink 1770 sZ-spa
**recommended rope: DIN 3060 FE-zink 1770 sZ-spa

Dimensions

Model Art.-No.	SW-W 80 40271017	SW-W 125 40271008	SW-W 300 30271001	SW-W 500 30271136	SW-W 750 30271019
A, mm	110	110	250	250	250
B, mm	110	110	250	250	250
C, mm	130	130	290	290	290
D, mm	130	130	290	290	290
Ø E, mm	9	9	14,5	14,5	14,5
F, mm	15	15	2	2	2
H, mm	121	121	85	85	85
I, mm	55	55	138	138	138
J, mm	-	-	117	117	117
K, mm	250	250	250	250	250
L, mm	130	130	130	130	130
M, mm	68	68	39	39	39
O, mm	60	60	50	50	50
P, mm	275	275	192	192	192



Manual wire rope winches

Console-mounted aluminum wire rope winch SW-K GAMMA

Loading capacity 200 - 800 kg

Thanks to its robust design, the aluminium console-mounted wire rope winch SW-K GAMMA is suitable for operation outside.



Equipment and design

- Loading capacity 200 - 800 kg
- Compact aluminium housing and closed chain drive
- As of a loading capacity of 500 kg with fast gear for small loads and for a faster winding and unwinding of the unstressed rope
- Smooth-running spur gear for high efficiency and comfortable operation
- Low-friction wave slide bearings for a better rope release and a longer life expectancy of the winch
- Wide rope drum for larger rope capacity and two rope attachments
- Simple and fast attachment
- With integrated safety spring brake system and detachable crank handle
- Winch may be operated from both sides

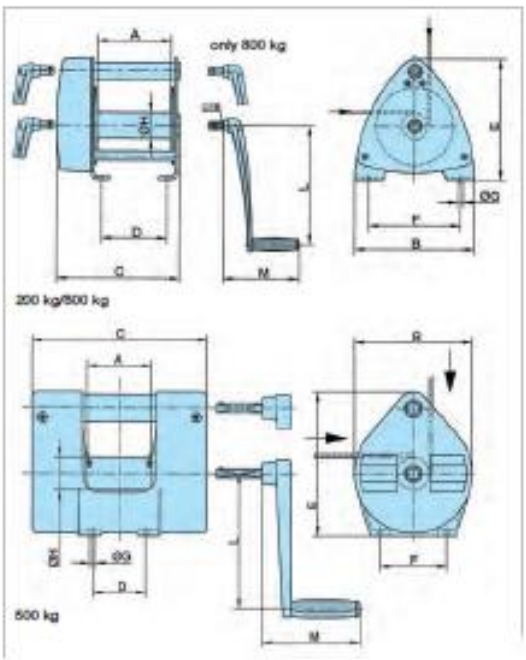
Technical data

Model	Art.-No.	Capacity 1st layer kg	Capacity top layer kg	Rope Ø* mm	Useable rope 1st layer m	Useable rope top layer m	Lift per crank rotation mm	Req. crank effort daN	Ratio	Weight w/o rope kg
GAMMA 200	40270004	200	110	4	3,6	40	195	19	-	6
GAMMA 500	40270001	500	200	6	4,2	50	60/400**	12	6,57:1	14
GAMMA 800	40270006	800	350	7	5,3	78	36/280**	18	7,57:1	16

*recommended rope: DIN 3060 FE-zmk 1770 sZ-spa
**load/high speed

Dimensions

Model Art.-No.	GAMMA 200 40270004	GAMMA 500 40270001	GAMMA 800 40270006
A, mm	120	120	200
B, mm	160	220	326
C, mm	192	330	336
D, mm	152	100	180
E, mm	165	267	327
F, mm	135	125	250
Ø G, mm	9,5	11	14
Ø H, mm	50	60	70
L, mm	320	250	320
M, mm	207	165	207



Manual wire rope winches

Manual wire rope winches

Compact aluminum wire rope winch SW-KAL with free-wheeling

Loading capacity 750 – 1.120 kg

Aluminum compact winch SW KAL with free-wheel drum is used for the installation on vehicles and trailers as well as for the lifting and lowering of loads.



Equipment and design

- Loading capacity 750 - 1.120 kg
- Self-locking worm gear
- Free-wheel drum to directly release the wire rope from the drum
- Closed drive for the protection of internal parts, even for rougher applications
- Low-friction bearings for a longer life expectancy of the winch
- Simple and fast attachment

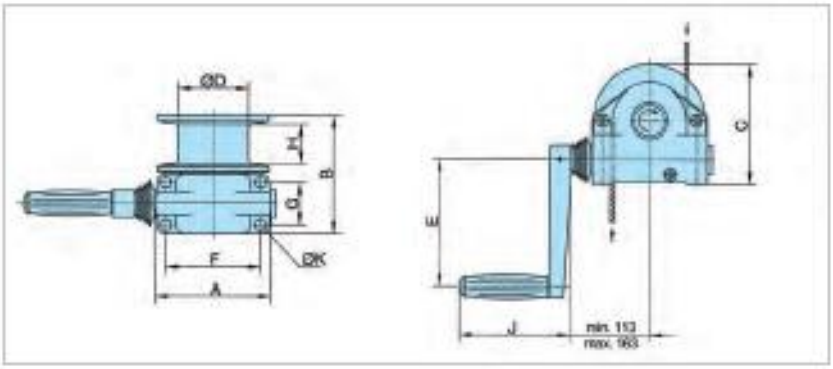
Technical data

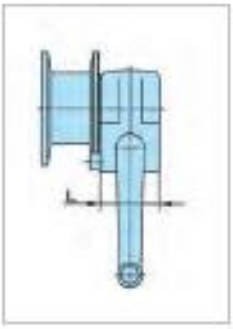
Model	Art.-No.	Capacity 1st layer kg	Capacity top layer kg	Drum Ø mm	Rope Ø* mm	Useable rope length 1st layer m	Useable rope length max m	Lift per crank rotation mm	Lift per crank rotation top layer mm	Req. crank effort daN	Weight w/o rope kg
KAL 750	30207004	750	600	100	6	1,3	10	15	17	20	7
KAL 1120	30208000	1120	600	63	7	0,5	10	11	16	22	7

*recommended rope: DIN 3060 SE-zink 1770 sZ-spa

Dimensions

Model Art.-No.	KAL 750 30207004	KAL 1120 30208000
A, mm	165	165
B, mm	168	168
C, mm	170	170
Ø D, mm	100	63
E, mm	180	180
F, mm	135	135
G, mm	60	60
H, mm	58	50
J, mm	160	160
Ø K, mm	13	13
L, mm	85	85





Manual wire rope winches

Wall-mounted wire rope winch SW-W-SGO with worm gear

Loading capacity 250 – 5.000 kg

Rope winch SW-W-SGO with worm gear realized as wall winch, serves the lifting and lowering of different load classes. The additional load pressure brake ensures a safe hold of the lifted load.



Equipment and design

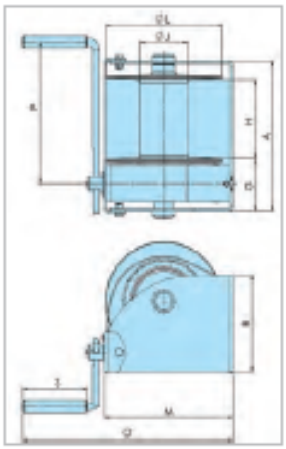
- Loading capacity 250 - 5.000 kg
- Compact winch housing and rope drum made of robust steel sheet
- Worm gear with additional load pressure brake for a safe hold of the load in every position
- Axles mounted on roller bearing for a better rope release and a longer life expectancy of the winch
- Low gear and fast gear as of 2.000 kg loading capacity for a fast lifting of small loads
- Variable crank handle with adjustable crank arm for winches up to a loading capacity of 1.500 kg
- Simple and fast attachment

Technical data

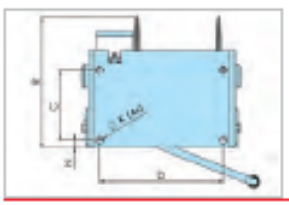
Model	Art.-No.	Capacity 1st layer kg	Capacity top layer kg	Rope Ø* mm	Useable rope length 1st layer m	Useable rope length top layer m	Lift per crank rotation mm	Req. crank effort daN	Weight w/o rope kg
SGO 250	40251003	250	100	5	2,3	44	29	6	13
SGO 500	40252026	500	238	6	3,7	54	30	11	16
SGO 1000	40253006	1000	500	9	4,5	46	21	10,6	26
SGO 1500	40253000	1500	850	10	4,5	38	18	16	28
SGO 2000	30254002	2000	1100	13	4	37	8/16**	9/18**	60
SGO 3000	30255009	3000	2000	16	5	34,5	7/14**	12/24**	78
SGO 5000	30256013	5000	3300	20	4,5	33,8	8/16**	25,2/50,4**	105

*recommended rope: DIN 3060 FE-zrnk 1770 sZ-spa **load/high speed

Dimensions



Model	SGO 250	SGO 500	SGO 1000	SGO 1500	SGO 2000	SGO 3000	SGO 5000
Art.-No.	40251003	40252026	40253006	40253000	30254002	30255009	30256013
A, mm	236	289	302	302	410	436	436
B, mm	145	160	195	250	310	365	425
C, mm	100	115	141	178	196	251	316
D, mm	192	223	254	254	360	386	386
G, mm	106	107	110	111	137	137	137
H, mm	102	131	160	160	176	204	200
Ø J, mm	48	70	102	102	133	165	219
Ø K, mm	14	14	17	17	25	25	25
Ø L, mm	160	190	240	240	312	376	437
M, mm	191	221	286	278	383	443	495
N, mm	15	15	15	15	45	47	60
O, mm	354	384	429	441	-	-	-
P, mm	280	325	350	350	380	380	380
R, mm	171	192	264	306	420	527	604
S, mm	130	130	130	130	220	220	220



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Manual wire rope winches

Manual wire rope winches

Manual wire rope winch OMEGA

Loading capacity 800 – 1.000 kg

Also in special areas such as ATEX or offshore provides the hand wire rope winch OMEGA by their closed helical gear and the oil-immersed brakes, a high degree of operational reliability.

In addition to the manual operation, OMEGA BGV D8 and OMEGA Offshore are also designated for operation by an external motor drive.

Our OMEGA ATEX has successfully been subject to numerous hazard and ignition source analysis through the Pfaff-silberblau engineers in collaboration with the TÜV. It is thus approved for the category 2 (= zone 1/21) and category 3 (= zone 2/22).

Suitable for motor drive!



Equipment and design OMEGA BGV D8

- Load capacity 1.000 kg
- Detachable crank handle
- Manual drive or external motor drive
- Enclosed drive

Equipment and design OMEGA ATEX

- Load capacity 1.000 kg
- Detachable crank handle
- Protected against impermissible temperature rise and sparking
- Potential equalisation offers protection against electrostatic charging
- Application in areas EX II 2 DG ck 195°C (II T3)

Equipment and design OMEGA Offshore

- Load capacity 800 kg
- Components running through oil bath provide for safe functioning
- High-quality coating for an improved corrosion protection
- Manual drive or external motor drive
- Variable drum lengths and drum diameters for different cases of operation

Manual wire rope winches

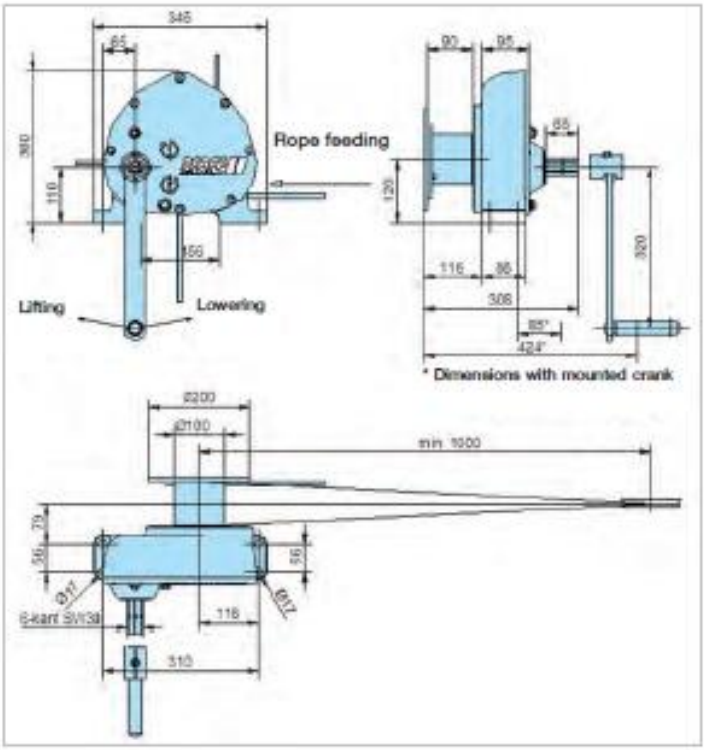
Manual wire rope winches

Manual wire rope winch OMEGA
Loading capacity 800 – 1.000 kg

Technical data

Model	Art.-No.	Capacity 1st layer kg	Capacity 4th layer kg	Rope Ø* mm	Rope reception 1st layer m	Rope reception 4th layer m	Lift per crank turn 1st layer mm	Lift per crank turn 4th layer mm	Req. crank force (full load) daN	Driving torque Mta Nm	Max. load cycles per hour full load	Input speed Mta 1/min	Duty cycle	Weight w/o rope max. kg
OMEGA BGV D8	192010587	1.000	692	8*	1,6	13,1	29	42	17	54	-	100	S3-50%	ca. 38
OMEGA ATEX	192010588	1.000	692	8*	1,6	13,1	29	42	17	3	3	-	-	ca. 38
OMEGA Offshore	192010589	800	800	10**	1,2	4,3	30	35	17	54	-	100	S3-50%	ca. 38

*recommended rope: DIN 3069 SE 1960 N/mm2
**recommended rope: DIN 3069 SE 1770 N/mm2



Manual wire rope winches

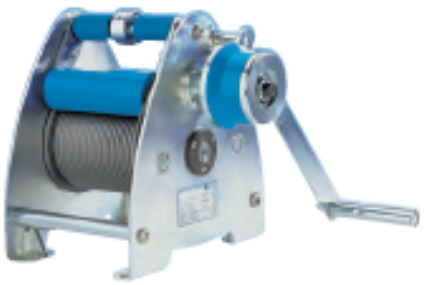
Manual wire rope winches

Console-mounted wire rope winch SW-K LAMBDA BGV C1

Loading capacity 300 kg

The compact rope winch SW-K LAMBDA (BGV C1) for operation in the performance areas of stages, studios, theatres etc.

Equipment and design



- Loading capacity 300 kg
- Modern design with galvanised side parts for an easy handling
- Grooved drum for the single-layer winding of the steel rope
- Long lifespan of the rope due to a 18-fold drum diameter
- With spring-loaded rope pressure roll against the coming-off of the unstressed rope at the drum
- Gear construction for double nominal load
- Smooth-running spur gear for high efficiency and comfortable operation
- The attached safety crank with two independent spring breaks for a safe hold of the load in every position
- Complies to the latest accident prevention regulations BGV C1 (DIN 56925) as well as to the type and GS examination performed by the Technical Committee for hoisting devices

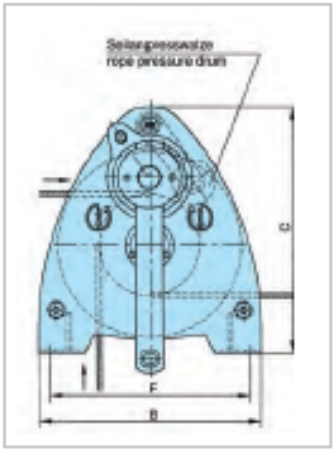
Optional

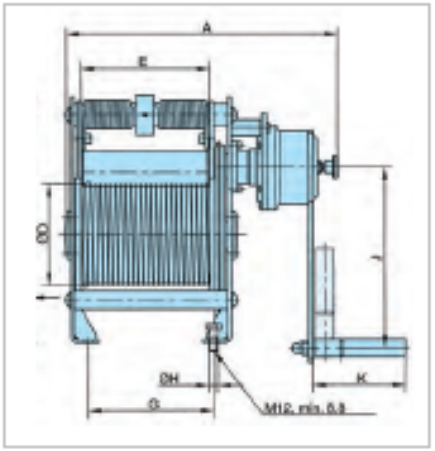
- Drum extension for a greater rope capacity
- Special grooving (several ropes)

Technical data

Art.-No.	Capacity kg	Rope Ø* mm	Useable rope length max. 1st layer m	Lift per crank rotation mm	Req. crank effort daN	Ratio	Weight w/o rope kg
30272015	300	6	10	50	18	8,83:1	30
30272017	300	6	15	50	18	8,83:1	36

*recommended steel rope: 6 DIN 3069 SE-znk 1960 sZ-spa
(calc. breaking stress min. 30,4 kN)





Dimensions

Art.-No.	30272015	30272017
A, mm	379	469
B, mm	310	310
C, mm	340	340
Ø D, mm	139,4	139,4
E, mm	180	270
F, mm	280	280
G, mm	175	265
Ø H, mm	13	13
J, mm	250	250
K, mm	130	130

Aluminium wall winches No. 817

for light loads, with closed body and detachable crank, lifting is stopped by letting go of the crank and the load is lowered by turning the crank in the reverse direction.





All dimensions in mm.

Rope pull on 1. layer of rope in kg	45	100
Depth including crank	170	180
Body depth	65	80
Body width	83	94
Body height	100	150
Overall lengh of back plate	142	200
Width of back plate	103,5	103,5
Hole spacing, width	83	83,5
Hole spacing, height	122	180
Screw hole Ø	8	10
Lift per turn of crank for 1. layer of rope	100	90
Drum Ø	28,7	26
Internal drum width	19	23,5
Rope entry width	20	20
Length of crank	155	155
Required pressure on crank in kg	9	10
Wire rope Ø	3	3
Length of first layer of rope*	0,99	0,90
Total rope length*	5,2	7,15
Weight in kg about	0,95	1,96

*Dimensions in m.

- Scenery Hinges
- Case Hinges
- Angles
- Connectors

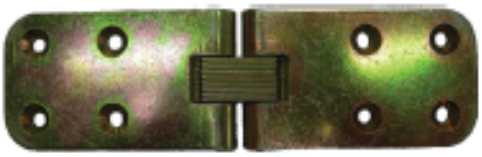
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Adjustable angels / Universal space connectors	10.63 - 10.64

Special Hinges

Hammered Flap Hinge



- hammered
- blocks at 180°
- liquid passivated
- Measure: 150x45 mm
- Height: 5 mm

Code: Klappenscharnier RB

Hinge „Mannheim“



- hammered
- 60 x 90 x 3 mm
- one side bent 90°
- pin 90°
- steel
- axial play 2 mm

Code: Scharnier „Mannheim“

Hinge „Berlin“



- reinforced hinge
- mesure 130 x 80 x 3 mm
- 90° pin with 10 mm hole for fixation
- blank steel
- axial play 10 mm

Code: Scharnier „Berlin“



safety pin
for fixation

Special Hinges

Ceiling Ring
tested by the German TÜV

- blank steel with clip
- ring inside: 45 x 9 mm
- clip: 70 x 20 mm

Code: Plafondring



Ceiling Ring „DOR"
with clip

Use only in pairs!

- Clip: 65 x 40 mm
- Ring inside: 50 x 42 x 7 mm
- Stamp: „RB"

Code: Plafondring DOR



Special Hinges

Ceiling Ring
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- Clip: 65 x 40 mm
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- Stamp: „RB“

Code: Plafondring DOR



"Hakenband"



possible types:

pin left or right

short (54 mm) or long (69 mm)

Code: Hakenband



"Hakenband lose"

The loose pin allowes you to configurate your "Hakenband" individually to your desires. Length and side of the pin can be choosen freely and allow you to create your own specific "Hakenband".

Set contains:
2 plates with ear
1 pin, lenth 120 mm, diameter 12 mm
material: blank steel

Code: Hakenband lose

Scenery hinges

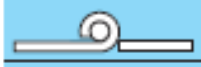
Item number	GTIN 4003984	measurements mm A	B	thick-ness	approx. kg p. pack.-unit	screws pcs.	Ø mm	pack. as... pcs.
Scenery hinges DIN 56923, hammered, with 2 mm axial play, with lift-off ring pin Ø 6 mm								
000056070ZR	130158	70	55	3,0	2,35	6	4,5	20
steel blanc								
* with axial play 1 mm								
000056070RI	130035	70	55	3,0	5,76	6	4,5	50
000057050RI	130089	50	50	2,5	3,70	6	4,5	50
000057060RI	130066	60	60	3,0	5,71	6	4,5	50
000058457RI	130073	45	70	3,0	4,86	8	4,5	50
000058510RI*	130080	50	100	3,0	7,36	6	4,5	50
000058609RI	130097	60	90	3,0	7,67	8	4,5	50
000058612RI	130103	60	120	3,0	9,40	8	4,5	50
000058812RI	130127	80	120	3,0	4,93	10	4,5	20
Scenery hinges DIN 56923, hammered, with 10 mm axial play, with lift-off ring pin Ø 6 mm								
000056170RI	130042	70	55	3,0	5,68	6	4,5	50
000057160RI	102490	60	60	3,0	5,58	6	4,5	50
000058619RI	130110	60	90	3,0	7,62	8	4,5	50
Scenery hinges hammered, with 2 mm axial play, with lift-off ring pin Ø 6 mm								
000058045RI	130134	45	70	1,75	3,97	6	4,0	50
000059060RI	130141	60	95	2,0	6,51	8	4,5	50
Square hinges rolled, with swaged joint, without axial play, with lift-off ring pin Ø 5 mm								
000614060ZR	050548	63	63	1,8	1,99	6	4,0	24
000614075ZR	050531	75	75	1,9	1,60	6	4,0	12
000614090ZR	050524	89	89	2,1	2,45	6	4,5	12

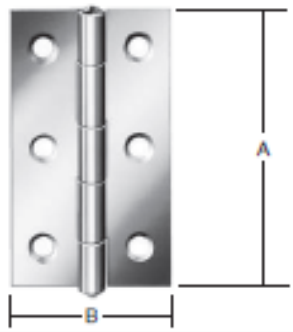
000614060ZR pin-Ø = 5 x 80 mm
000614075ZR pin-Ø = 6 x 100 mm
000614090ZR pin-Ø = 7 x 120 mm

DIN-hinges

Narrow hinges DIN 7954 A

rolled, with riveted brass pin



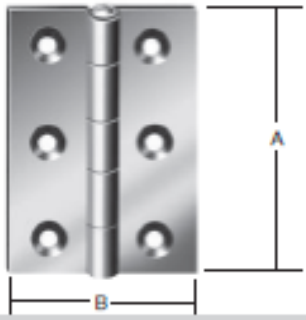


Item number	GTIN 4003994	version	measurements mm A	B	thickness	approx. kg p. pack.-unit	screws pcs.	Ø mm	pack. as... pcs.
000501025Z	010603		25	20	0,8	0,27	4	2,5	50
000501030Z	010627		30	22	0,9	0,37	4	2,5	50
000501040Z	010641		40	26	0,9	0,59	4	2,5	50
000501050Z	010665		50	31	1,2	0,39	6	3,0	20
000501060Z	010689		60	34	1,4	0,63	6	3,0	20
000501070Z	010696		70	38	1,4	0,87	6	3,0	20
000501080Z	010719		80	41	1,5	1,15	6	3,5	20
000501090Z	010726		90	46	1,5	1,43	8	3,5	20
000501100Z	010733		100	52	1,6	1,94	8	4,0	20
090850000	410014	Z	25	20	0,8	0,21	4	2,5	5
090851000	410021	Z	40	26	0,9	0,31	4	2,5	5
090852000	410038	Z	50	31	1,2	0,33	6	3,0	5

Semi-wide hinges DIN 7954 B,

rolled, with riveted brass pin



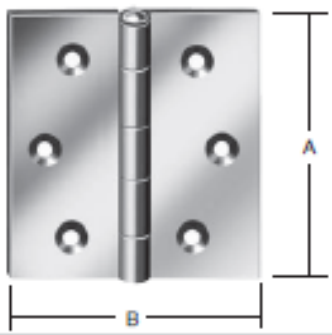


000502025Z	010757		25	22	0,8	0,27	4	2,5	50
000502030Z	010771		30	26	0,9	0,42	4	2,5	50
000502040Z	010801		40	32	0,9	0,66	4	2,5	50
000502050Z	010832		50	39	1,2	0,50	6	3,0	20
000502060Z	010863		60	46	1,4	0,81	6	3,0	20
000502070Z	010887		70	51	1,4	1,05	6	3,5	20
000502080Z	010894		80	58	1,5	1,42	6	3,5	20
000502090Z	010900		90	63	1,5	1,92	6	3,5	20
000502100Z	010917		100	72	1,6	2,39	8	4,0	20

Square hinges DIN 7954 C

rolled, with riveted brass pin



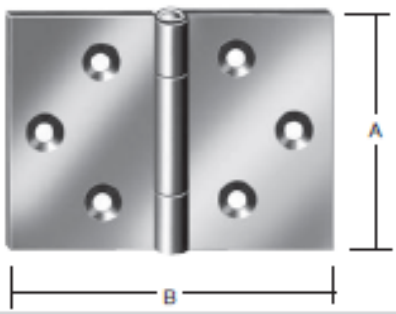


000503025Z	010924		25	25	0,8	0,30	4	2,5	50
000503030Z	010931		30	30	0,9	0,46	4	2,5	50
000503040Z	010955		40	40	0,9	0,77	4	2,5	50
000503050Z	010979		50	50	1,2	0,60	6	3,0	20
000503060Z	010993		60	60	1,4	0,96	6	3,0	20
000503070Z	011006		70	70	1,4	1,35	6	3,5	20
000503080Z	011013		80	80	1,5	1,87	6	3,5	20
000503090Z	011020		90	90	1,5	2,50	8	4,0	20
000503100Z	011037		100	100	1,6	3,17	8	4,0	20
092055000	410304	Z	25	25	0,8	0,17	4	2,5	5
092056000	410311	Z	30	30	0,9	0,20	4	2,5	5
092057000	410328	Z	40	40	1,0	0,26	4	2,5	5
092058000	410335	Z	50	50	1,2	0,40	6	3,0	5

Wide hinges DIN 7954 D

rolled, with riveted brass pin



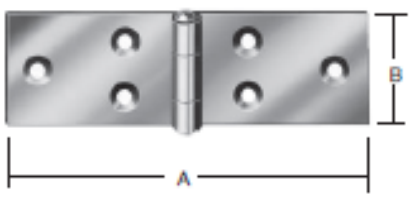


000504025Z	011044		25	38	0,8	0,40	6	2,5	50
000504030Z	011051		30	45	0,9	0,65	6	2,5	50
000504040Z	011068		40	60	1,2	0,61	6	3,0	20
000504050Z	011075		50	75	1,2	0,87	8	3,5	20
000504060Z	011082		60	90	1,4	1,44	8	3,5	20
000504070Z	011099		70	105	1,5	2,18	8	4,0	20
000504080Z	011105		80	120	1,8	3,14	8	4,0	20
000504090Z	011112		90	133	1,8	2,21	8	4,5	10
000504100Z	011129		100	145	2,0	2,64	8	4,5	10
092050000	410267	Z	30	45	0,9	0,24	6	2,5	5
092051000	410274	Z	40	60	1,2	0,40	6	3,0	5

Wide flap hinges DIN 7957

rolled, with riveted brass pin

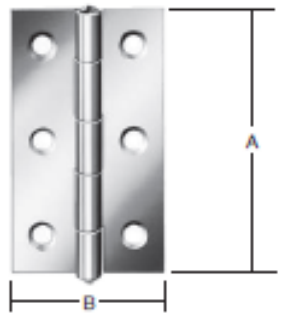




000505050Z	011136		50	23	0,9	0,23	6	2,5	20
000505060Z	011143		60	25	0,9	0,30	6	2,5	20
000505080Z	011150		80	28	1,2	0,54	6	3,0	20
000505100Z	011167		100	32	1,3	0,82	6	3,0	20
000505120Z	011174		120	33	1,4	1,02	8	3,5	20
000505140Z	011181		140	34	1,6	1,36	8	3,5	20
000505160Z	011198		160	37	1,7	1,85	8	3,5	20
000505180Z	011204		180	40	1,7	1,10	8	4,0	10
000505200Z	011211		200	44	2,0	3,05	8	4,0	20
000505250Z	011228		250	44	2,0	3,64	10	4,5	20
092078000	410397	Z	50	23	0,9	0,22	6	2,5	5
092079000	410403	Z	60	25	0,9	0,25	6	2,5	5
092080000	410410	Z	80	28	1,2	0,37	6	3,0	5

DIN-hinges for the industry

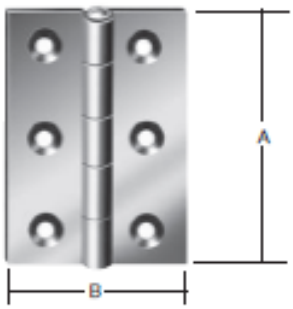
Item number	GTIN 4003984	measurements mm A	B	thick-ness	approx. kg p. pack.-unit	screws pcs.	Ø mm	pack. as... pcs.
000401025ZL	010016	25	20	0,8	4,75	4	2,5	1000
000401030ZL	010030	30	22	0,9	6,80	4	2,5	1000
000401040ZL	010054	40	26	0,9	10,86	4	2,5	1000
000401050ZL	010078	50	31	1,2	9,56	6	3,0	500
000401060ZL	010092	60	34	1,4	15,16	6	3,0	500
000401080ZL	010115	80	41	1,5	10,98	6	3,5	200



Narrow hinges DIN 7654 A
rolled, with riveted iron pin, loose



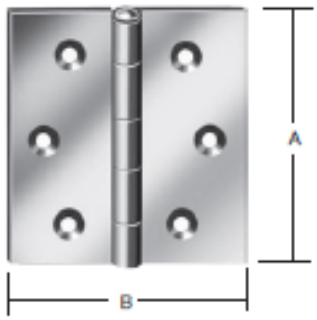
000402030ZL	010146	30	26	0,9	7,50	4	2,5	1000
000402040ZL	010153	40	32	0,9	12,41	4	2,5	1000
000402050ZL	010177	50	39	1,2	11,73	6	3,0	500
000402060ZL	010191	60	46	1,4	9,38	6	3,0	250
000402080ZL	010214	80	58	1,5	6,97	6	3,5	100



Semi-wide hinges DIN 7654 B
rolled, with riveted iron pin, loose



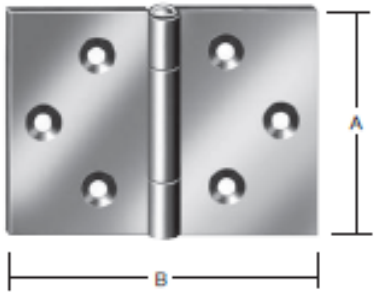
000403025ZL	010221	25	25	0,8	5,36	4	2,5	1000
000403030ZL	010245	30	30	0,9	8,47	4	2,5	1000
000403040ZL	010269	40	40	0,9	14,67	4	2,5	1000
000403050ZL	010283	50	50	1,2	14,24	6	3,0	500
000403060ZL	010306	60	60	1,4	9,16	6	3,0	200
000403070ZL	010320	70	70	1,4	6,68	6	3,5	100
000403080ZL	010344	80	80	1,5	8,96	6	3,5	100
000403100ZL	010368	100	100	1,6	15,21	8	4,0	100



Square hinges DIN 7654 C
rolled, with riveted iron pin, loose



000404040ZL	010405	40	60	1,2	14,43	6	3,0	500
000404050ZL	010429	50	75	1,2	8,37	8	3,5	200
000404060ZL	010443	60	90	1,4	7,01	8	3,5	100



Wide hinges DIN 7654 D
rolled, with riveted iron pin, loose

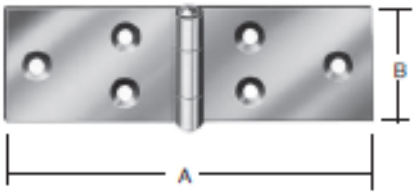


DIN-hinges

Wide flap hinges DIN 7957

rolled, with riveted iron pin, loose



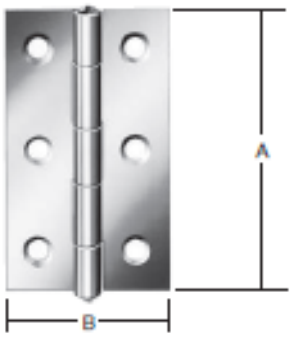


Item number	GTIN 4003064	version	measurements mm A	B	thick-ness	approx. kg p. pack.-unit	screws pcs.	⌀ mm	pack. as... pcs.
000405050ZL	010474		50	23	0,9	10,21	6	2,5	1000
000405060ZL	010498		60	25	0,9	13,33	6	2,5	1000
000405080ZL	010511		80	28	1,2	13,28	6	3,0	500
000405100ZL	010535		100	32	1,3	9,70	6	3,0	250
000405120ZL	010542		120	33	1,4	4,95	8	3,5	100
000405140ZL	010566		140	34	1,6	6,65	8	3,5	100
000405160ZL	010580		160	37	1,7	8,80	8	3,5	100

Narrow hinges DIN 7954 A

rolled, plastic-coated, with riveted brass pin



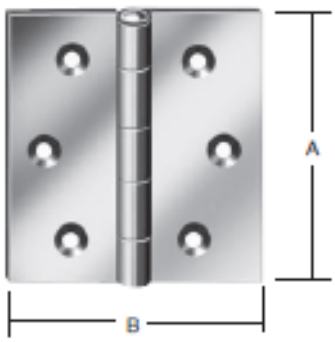


000501060B	040044		60	34	1,4	0,34	6	3,0	10
000501080W	040211		80	41	1,5	0,61	6	3,5	10

Square hinges DIN 7954 C

rolled, plastic-coated, with riveted brass pin



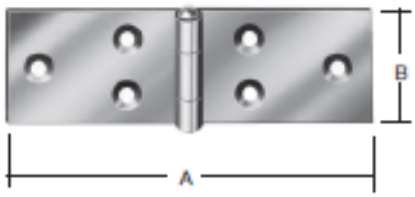


000503060B	040105		60	60	1,4	0,99	6	3,0	20
000503060W	040228		60	60	1,4	0,49	6	3,0	10
000503070W	040235		70	70	1,4	0,70	6	3,5	10

Wide flap hinges DIN 7957

rolled, plastic-coated, with riveted brass pin

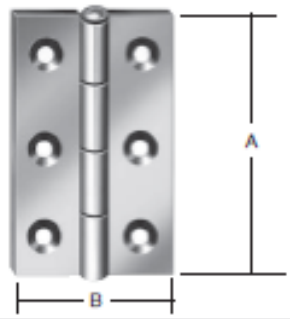


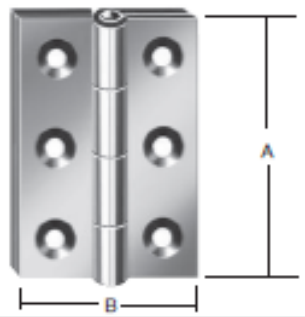


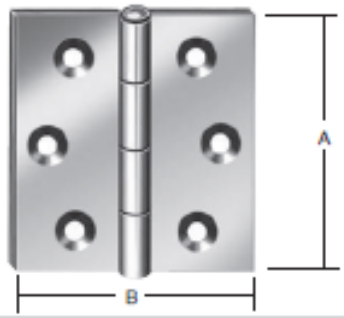
000505140W	040259		140	34	1,6	1,40	8	3,5	20

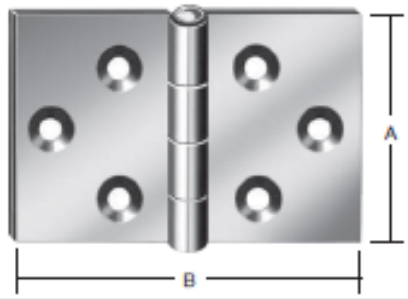
DIN-hinges

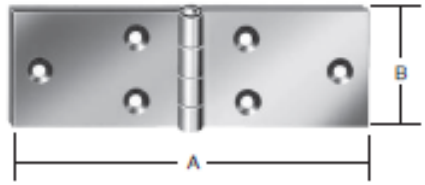
Item number	GTIN 4003984	measurements mm A	B	thick-ness	approx. kg p. pack.-unit	screws pcs.	Ø mm	pack. as... pcs.
Narrow hinges DIN 7955 A with riveted iron pin								
0007010080Z	060073	80	41	1,8	1,18	6	3,5	20
Semi-wide hinges DIN 7955 B hammered, with riveted iron pin								
0007020080Z	060165	80	58	1,8	1,62	6	3,5	20
0007021000Z	060172	100	72	2,0	2,60	8	4,0	20
Square Hinges DIN 7955 C with riveted iron pin								
0007030400Z	060226	40	40	1,5	1,05	4	2,5	50
0007030500Z	060240	50	50	1,5	2,42	6	3,0	50
with riveted brass pin								
0007030600Z	060264	60	60	1,8	1,18	6	3,5	20
0007030800Z	060295	80	80	2,0	2,42	6	3,5	20
0007031000Z	060325	100	100	2,3	4,38	8	4,0	20
Square Hinges wide-flap DIN 7955 D with riveted brass pin								
0007040500Z	060363	50	75	2,0	3,07	8	3,5	50
0007040600Z	060387	60	90	2,0	1,92	8	4,0	20
0007040800Z	060417	80	120	2,4	4,10	8	4,0	20
with riveted iron pin								
0007041000Z	060424	100	150	3,0	7,66	8	5,0	20
iron blank								
0007040600	060370	60	90	2,0	1,88	8	4,0	20
Wide flap hinges DIN 7958 with riveted iron pin								
0007050600Z	060431	60	25	1,3	0,87	6	3,0	50
0007051000Z	060462	100	32	1,6	1,07	6	3,5	20
0007051200Z	060479	120	33	1,8	1,20	6	3,5	20
0007051800Z	060509	180	40	2,4	3,62	8	4,0	20











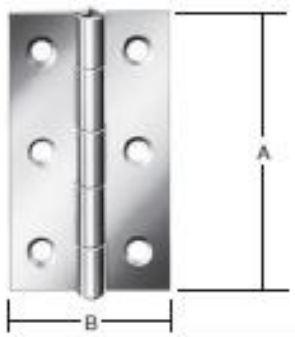
Stainless steel-hinges

Rolled narrow hinges

Hinges with riveted pin

Item number	GTIN 4003984	Version	measurements mm A	B	thickness	approx. kg p. pack.-unit	screws pcs.	Ø mm	pack. SB... pcs.
010501030	020107		30	22	0,8	0,32	4		50
010501040	020114		40	26	0,9	0,56	4	2,5	50
010501050	020121		50	31	1,0	0,37	6	3,0	20
010501060	020145		60	34	1,2	0,28	6	3,0	10
010501080	020152		80	41	1,5	0,58	6	3,5	10
010501100	020169		100	52	1,5	0,92	8	4,0	10
092028000	510332		40	26	0,9	0,22	4	2,5	5
092029000	510349		50	31	1,0	0,33	6	3,0	5
092030000	510356		60	34	1,2	0,38	6	3,0	5

Rostfrei — Material-No. 1.4301



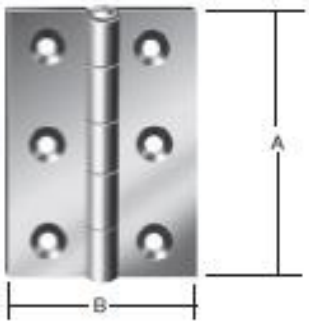
SB — Pcs./Card 2 2 2

Semi-wide hinges

with riveted iron pin

Item number	GTIN 4003984	Version	measurements mm A	B	thickness	approx. kg p. pack.-unit	screws pcs.	Ø mm	pack. SB... pcs.
010502040	020176		40	32	0,9	0,62	4	2,5	50
010502050	020183		50	39	1,0	0,44	6	3,0	20
010502060	020190		60	46	1,2	0,69	6	3,0	20
010502080	020213		80	58	1,5	1,44	6	3,5	20
010502100	020220		100	72	1,5	2,24	8	4,5	20

Rostfrei — Material-No. 1.4301

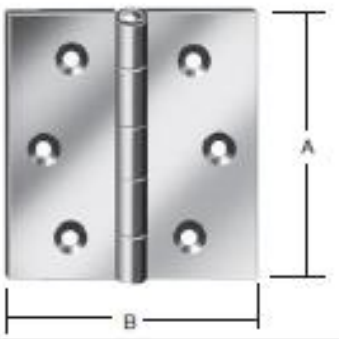


Square hinges

with riveted iron pin

Item number	GTIN 4003984	Version	measurements mm A	B	thickness	approx. kg p. pack.-unit	screws pcs.	Ø mm	pack. SB... pcs.
010503030	020237		30	30	0,8	0,42	4	2,5	50
010503040	020244		40	40	0,9	0,76	4	2,5	50
010503050	020268		50	50	1,0	0,52	6	3,0	20
010503060	020275		60	60	1,25	0,44	6	3,0	10
010503070	020282		70	70	1,25	0,62	6	3,5	10
010503080	020299		80	80	1,5	0,96	6	3,5	10
010503100	020305		100	100	1,5	1,46	8	4,0	10
092033000	510387		40	40	0,9	0,25	4	2,5	5

Rostfrei — Material-No. 1.4301



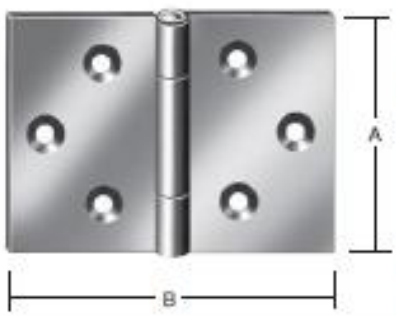
SB — Pcs./Card 2

Wide flap hinges

with riveted iron pin

Item number	GTIN 4003984	Version	measurements mm A	B	thickness	approx. kg p. pack.-unit	screws pcs.	Ø mm	pack. SB... pcs.
010504030	020312		30	45	1,0	0,72	6	3,0	50
010504040	020329		40	60	0,9	0,46	6	3,0	20
010504050	020336		50	75	1,2	0,43	8	3,5	10
010504060	020343		60	90	1,2	0,64	8	3,5	10
010504080	020367		80	120	1,5	1,43	8	4,0	10

Rostfrei — Werkstoff-Nr. 1.4301

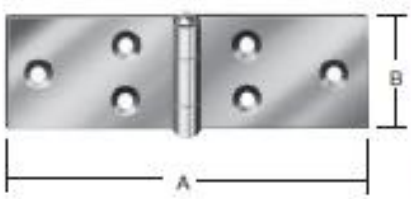


Wide flap hinges

with riveted iron pin

Item number	GTIN 4003984	Version	measurements mm A	B	thickness	approx. kg p. pack.-unit	screws pcs.	Ø mm	pack. SB... pcs.
010505080	020374		80	28	1,0	0,26	6	3,0	10
010505100	020381		100	32	1,2	0,40	6	3,0	10
010505120	020404		120	33	1,2	0,46	8	3,5	10
010505140	020411		140	34	1,5	0,64	8	3,5	10
010505160	020428		160	37	1,5	0,83	8	3,5	10

Rostfrei — Werkstoff-Nr. 1.4301

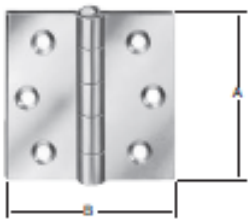


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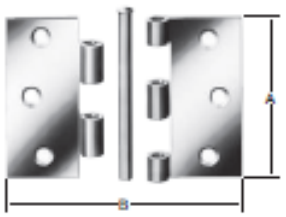
Strong stainless steel-hinges

Rost frei

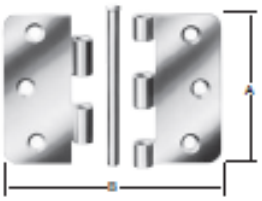
Item number	Version	GTIN 4003994	Measurements mm A	B	Thickness	Approx kg p. pack unit	Screws pcs.	Ø mm	Pack as... pcs.
010613060	Rost frei Material-No. 1.4301	020602	63	63	1,5	1,54	6	4,0	24
010614060	Rost frei Material-No. 1.4301	020435	63	63	1,5	1,54	6	4,0	24
010614075		020442	75	75	1,8	1,38	6	4,0	12
010614090		020459	90	90	1,7	1,98	6	4,5	12
010617075	Rost frei Material-No. 1.4301	020572	75	75	1,8	2,73	6	4,0	24
010870075	Rost frei Material-No. 1.4301	020497	75	75	2,5	0,36	6	4,0	2
010870090		020503	90	85	2,5	0,46	6	4,5	2
010871090	Rost frei Material-No. 1.4301	020527	90	90	2,5	0,45	6	4,0	2
010872090		020541	90	90	2,5	0,44	6	4,0	2



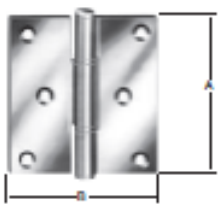
Strong flap square hinges
rolled, strong, with swaged joint, with riveted stainless steel pin



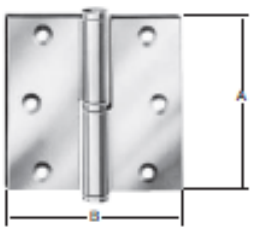
Strong flap square hinges
rolled, strong, with swaged joint, with loose stainless steel pin



Strong flap square hinges
rolled, with swaged joint, with loose stainless steel pin



Rolled hinges
rolled, with swaged joint, with stainless steel cylinder pin



Rolled hinges
rolled, with swaged joint, of lift-off design, with stainless steel cylinder pin

010871 = left
010872 = right

Flap hinges/ Strong flap hinges

Narrow flap hinges

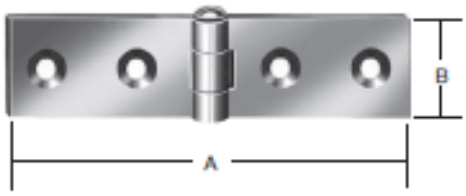
rolled, with riveted iron pin



galvanized

Pcs./Card 2



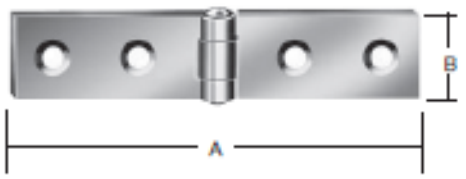


Item number	GTIN 4003984	Measurements mm A	B	Thick-ness	Approx kg p. pack unit	Screws pcs.	Ø mm	Pack as... pcs.
000506100Z	011242	100	20	1,5	1,43	4	3,5	50
000506120Z	011266	120	20	1,5	1,72	4	3,5	50
000506815Z	011280	80	15	1,5	0,88	4	3,0	50
000506820Z	011303	80	20	1,5	1,20	4	3,5	50
000506820ZL	011310	80	20	1,5	11,42	4	3,5	500
092087000	410489	100	20	1,5	0,39	4	3,5	5

Narrow flap hinges

hammered, with riveted iron pin



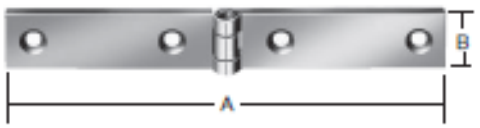


000706120Z	060547	120	20	2,4	2,48	4	4,0	50

Narrow Strong flap hinges

hammered, strong with riveted brass pin



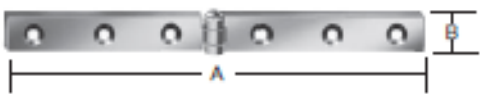


000047000Z	070508	140	20	3,4	0,78	4	4,0	10

Hammered extra strong flap hinges

hammered, extra strong, with riveted iron pin

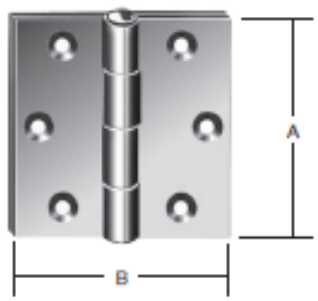




000007200Z	070225	200	20	5,0	3,02	6	5,0	20

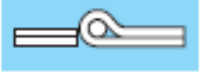
Strap hinges

Item number	GTIN 4003994	Measurements mm A	B	Thickness	Approx kg p. pack unit	Screws Pcs.	Ø mm	Pack as... pcs.
000003040Z	070034	40	40	2,4	0,73	4	3,5	20
000003050Z	070041	50	50	2,4	1,05	6	4,0	20
000003060Z	070065	60	60	2,8	1,76	6	4,5	20
000003080Z	070096	80	80	3,0	3,37	6	5,0	20
000003100Z	070102	100	100	3,2	2,78	6	6,0	10

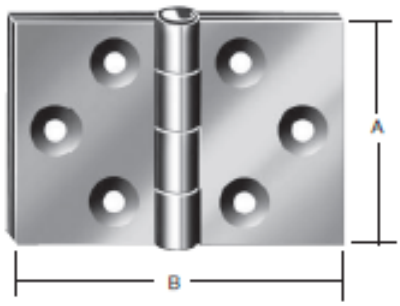


Hammered strong strap square hinges

hammered, strong, with riveted brass pin



000004060Z	070140	60	90	2,8	2,51	8	4,5	20
000004080Z	070164	80	120	3,4	5,30	8	5,0	20

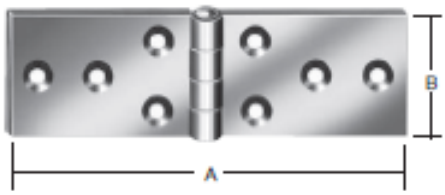


Hammered strong wide flap hinges

hammered, strong, with riveted brass pin

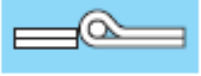


000005140Z	070195	140	32	3,0	2,16	8	4,5	20

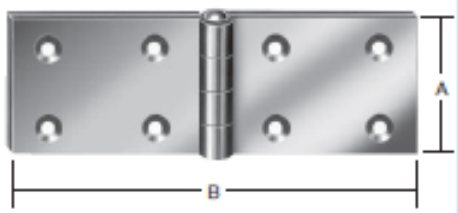


Hammered strong flap hinges

hammered, strong, with riveted brass pin



000010408Z	070249	40	80	2,4	1,28	6	4,5	20
000010510Z	070270	50	100	3,0	2,40	6	5,0	20
000010512Z	070287	50	120	3,0	2,91	6	5,0	20
000010514Z	070294	50	140	3,4	1,92	8	5,0	10
000010620Z	070355	60	200	4,0	3,96	8	5,0	10



Hammered extra strong flap hinges

hammered, extra strong, with riveted brass pin



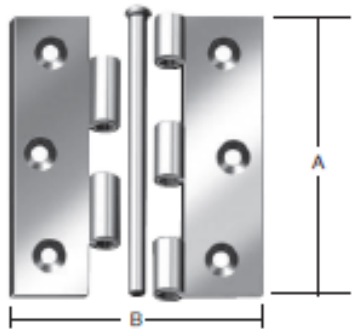
Strong hinges

Item number	GTIN 4003984	Measurements mm A	B	Thick-ness	Approx kg p. pack unit	Screws Pcs.	Ø mm	Pack as... pcs.
Rolled strong narrow hinges rolled, strong, with swaged joint, with riveted iron pin								
000611050Z	050197	50	38	1,5	0,79	4	3,5	24
000611060Z	050203	63	42	1,5	1,07	6	3,5	24
000611075Z	050210	75	50	1,6	1,32	6	3,5	24
000611100Z	050227	100	73	2,0	1,86	8	4,5	12
Rolled strong square hinges rolled, strong, with swaged joint, with riveted iron pin								
000613050Z	050289	50	50	1,5	1,10	4	4,0	24
000613060Z	050296	63	63	1,8	0,95	6	4,0	12
000613075Z	050302	75	75	1,9	1,52	6	4,0	12
with riveted brass pin								
000613100Z	050319	100	100	2,2	2,81	8	5,0	12
with riveted stainless steel pin								
010613060 Material-No. 1.4301	020602	63	63	1,5	1,54	6	4,0	24
Rolled strong wide hinges rolled, strong, with swaged joint, with riveted brass pin								
000030080Z	050111	80	40	1,5	0,98	6	4,0	20
000030100Z	050135	100	45	1,9	1,52	6	4,5	20
000030130Z	050142	130	55	2,0	2,72	8	4,5	20
Rolled extra strong wide hinges rolled, extra strong, with riveted brass pin								
000048130Z	050180	130	50	4,0	2,75	8	5,0	10
000048180Z	050555	180	50	4,0	1,78	10	5,0	5

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Strong hinges

Item number	GTIN 4003964	Measurements mm A	B	Thick-ness	Approx kg p. pack unit	Screws Pcs.	Ø mm	Pack as... pcs.
000612040Z	050234	38	37	1,4	0,50	4	3,0	24
000612050Z	050241	50	38	1,5	0,79	4	3,5	24
000612060Z	050258	63	42	1,5	1,07	6	3,5	24
000612075Z	050265	75	50	1,6	1,58	6	3,5	24
000612100Z	050272	100	73	2,0	1,89	8	4,5	12



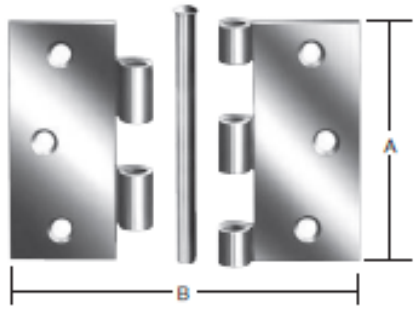
Rolled strong semi wide hinges

rolled, with swaged joint, with loose brass pin



000614075V	050364	75	75	1,9	2,96	6	4,0	24
000614050Z	050326	50	50	1,5	1,12	4	4,0	24
000614060Z	050340	63	63	1,8	0,96	6	4,0	12
000614075Z	050371	75	75	1,9	1,48	6	4,0	12
000614090Z	050401	89	89	2,1	2,29	6	4,5	12
000614100Z	050425	100	100	2,2	2,85	8	5,0	12
000614756Z	050432	75	62	1,9	2,52	6	4,0	24
010614060	020435	63	63	1,5	1,54	6	4,0	24
010614075	020442	75	75	1,8	1,38	6	4,0	12
010614090	020459	90	90	1,7	1,98	6	4,5	12

Rost frei
Material-No. 1.4301



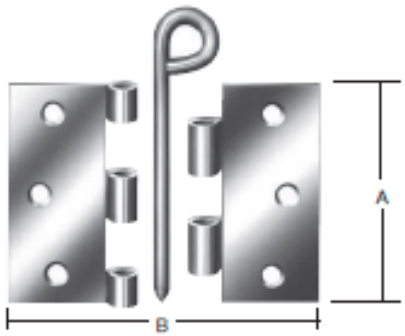
Rolled strong square hinges

rolled, strong, with swaged joint, with loose brass button pin

with loose stainless steel-headpin



000614060ZR	050548	63	63	1,8	1,99	6	4,0	24
000614075ZR	050531	75	75	1,9	1,60	6	4,0	12
000614090ZR	050524	89	89	2,1	2,45	6	4,5	12



Rolled square hinges

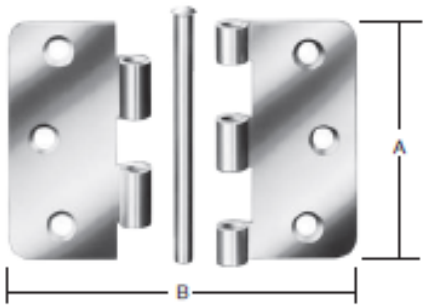
rolled, with swaged joint, without axial play, with lift-off ring pin Ø 5 mm

000614060ZR
pin-Ø = 5 x 80 mm
000614075ZR
pin-Ø = 6 x 100 mm
000614090ZR
pin-Ø = 7 x 120 mm



010617075	020572	75	75	1,8	2,73	6	4,0	24

Rost frei
Material-No. 1.4301



Rolled strong square hinges

rolled, with swaged joint, with loose stainless steel pin



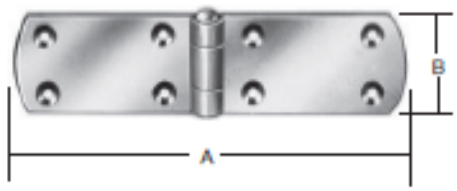
Case hinges

Rolled strong french case hinges

rolled, strong, with riveted brass pin, with countersunk screw holes

with riveted steel pin

with stainless steel pin



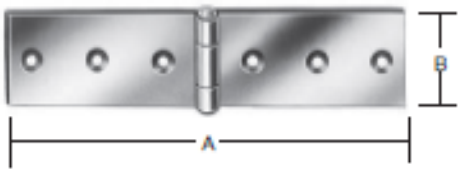
Item number	GTIN 4003984	Measurements mm A	B	Thick-ness	Approx kg p. pack unit	Screws Pcs.	Ø mm	Pack as.. pcs.
000028120Z	080125	120	30	2,0	1,31	6	4,0	20
000028140Z	080132	140	35	2,0	2,29	8	4,0	20
000028160Z	080156	160	35	2,0	1,99	8	4,0	20
000028180Z	080163	180	35	2,0	2,24	8	4,0	20
000028200Z	080187	200	35	2,0	1,22	8	4,0	10
000028250Z	080194	250	38	2,5	2,08	10	5,0	10
000028300Z	080217	300	38	2,5	2,46	10	5,0	10
000028400Z	080231	400	40	3,0	4,00	10	5,0	10
000028500Z	080248	500	40	3,0	4,46	10	5,0	10
010028160	020619	160	35	2,0	0,99	8	4,0	10
010028200	020626	200	35	2,0	1,23	8	4,0	10

Material-No. 1.4301

Rolled strong case hinges

rolled, strong, with riveted iron pin, with countersunk screw holes

Steel blank unbored



000217170Z	080583	170	40	2,5	3,04	6	4,5	20
000217200Z	080699	200	40	3,0	4,23	6	5,0	20
000217170U	080576	170	40	2,5	0,15	–	–	1
000217200U	080606	200	40	3,0	0,21	–	–	1

Rolled strong case hinges

rolled, strong, with riveted high-grade steel pin

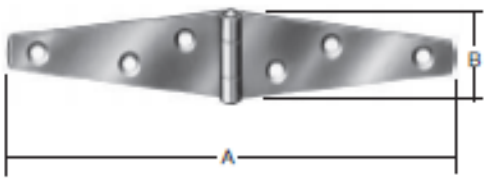


010096200	180092	200	35	2,0	0,64	4	5,0	5

Material-No. 1.4301

Rolled case hinges

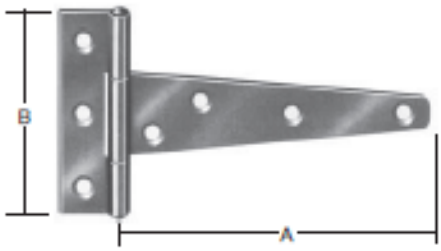
rolled, with riveted iron pin, with countersunk screw holes



000044100Z	080316	192	29	1,5	1,11	6	3,0	20
000044125Z	080798	242	33	1,5	1,56	6	3,5	20
000044150Z	080323	292	33	1,5	1,80	8	3,5	20
000044200Z	080781	390	44	2,0	2,06	8	4,0	10

Rolled T- case hinges

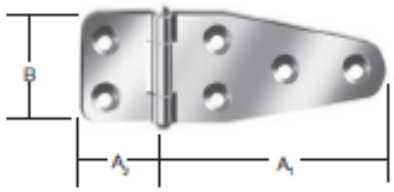
rolled, with riveted iron pin, with countersunk screw holes



000042100Z	080262	97	60	1,5	0,55	6	3,0	10
000042125Z	080279	121	68	1,5	0,67	6	3,5	10
000042150Z	080286	146	68	1,5	0,83	7	3,5	10
000042200Z	080293	195	88	2,0	1,89	7	4,0	10
000042250Z	080774	245	100	2,0	2,34	8	4,0	10

Stainless steel hinges

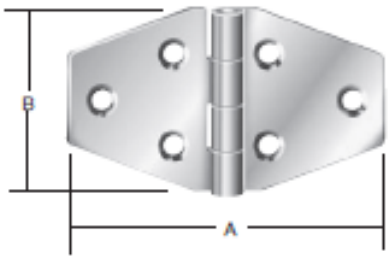
Item number	GTIN 4003964	Measurements mm A A_1 A_2	B	Thick-ness	approx kg p. pack unit	Screws Pcs.	Ø mm	Pack as... pcs.
010043080 Material-No. 1.4301	180054	80 30	37	1,5	0,95	6	4,0	20
010046070 Material-No. 1.4301	180542	70	40	1,5	0,72	6	3,0	20
010046160 Material-No. 1.4301	180061	160	37	1,5	1,24	8	4,0	20



Stainless steel hinges

rolled with riveted high-grade steel pin with countersunk screw holes

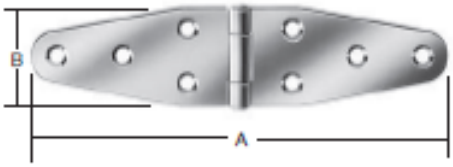




Stainless steel hinges

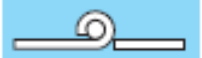
rolled with riveted high-grade steel pin with countersunk screw holes





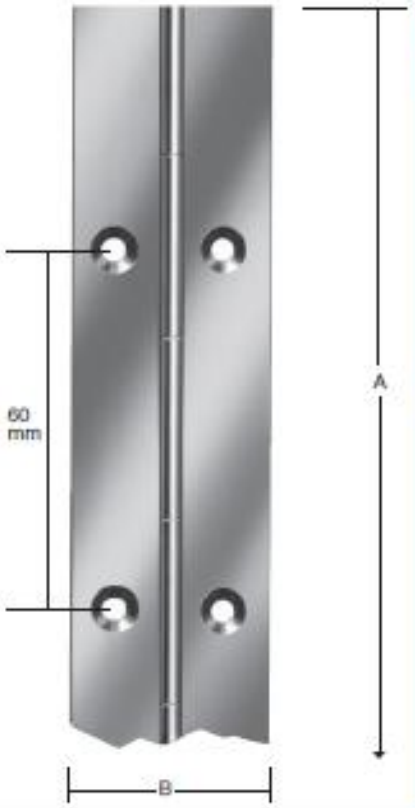
Stainless steel hinges

rolled with riveted high-grade steel pin with countersunk screw holes



Piano hinges

Item number	GTIN 4003964	Version	Measurements mm A	B	Thick-ness	Ø Stift	Approx kg p. pack unit	Screws Pcs.	Ø mm	Pack as... Pcs.
000450032N	110044	N	3500	32	0,7	1,7	10,60	–	2,5	10
010450032	020015		3500	32	0,7	1,7	10,60	–	2,5	10
010450040	020039		3500	40	0,7	1,7	12,20	–	2,5	10
Rost frei Material-No. 1.4301										



Rolled piano hinges

rolled, similar to DIN 7956



Item number	GTIN 4003964	Version	Measurements mm A	B	Thick-ness	Ø Stift	Approx kg p. pack unit	Screws Pcs.	Ø mm	Pack as... Pcs.
010450032U	020022		3500	32	0,7	1,7	10,80	–	–	10
010450321U	020046		3500	30,5	1,0	1,7	14,00	–	–	10
Rost frei Material-No. 1.4301										
000460003	110105		3500	32	1,5	3,0	21,60	–	–	10
000460004	110112		3500	40	1,5	3,0	24,60	–	–	10
000460040	110136		3500	40	2,0	3,75	34,00	–	–	10
000460050	110150		3500	50	2,0	6,0	46,80	–	–	10
000460060	110167		3500	60	2,0	6,0	52,20	–	–	10
010460003	020053		3500	32	1,5	3,0	11,80	–	–	5
010460004	020060		3500	40	1,5	3,0	14,20	–	–	5
010460005	020077		3500	50	1,5	3,0	16,20	–	–	5
010460050	020084		3500	50	2,0	6,0	24,20	–	–	5
010460060	020091		3500	60	2,0	6,0	28,40	–	–	5
Rost frei Material-No. 1.4301										



Rolled unbored piano hinges

blank, rolled

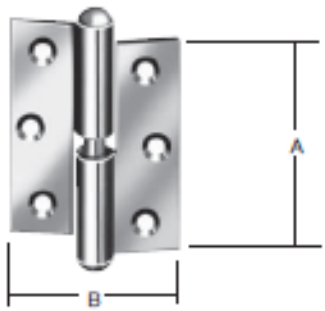


Box-/furniture hinges

Item number	GTIN 4003994	Version	Measurements mm A, A1, A2	B1	Stär-ke	Approx kg p. pack unit	Screws Pcs.	Screws Ø mm	Pack as... pcs.
Rolled box hinges self-service packed, rolled, with nail holes. Pcs./Cards 6									
090859000	550055	V	15	10	0,5	0,15	Nails 24	0,9	5
Rolled box hinges self-service packed, rolled, with screw holes. Pcs./ Cards 4 4 4									
090858000	550253	V	20	12	0,5	0,16	16	2,0	5
090861000	550079	V	30	16	0,7	0,22	16	2,0	5
090862000	550260	V	40	25	0,7	0,29	16	2,5	5
Rolled box hinges rolled, with swaged joint, with plastic spacer rings									
000623000V	120234	V	58	23 38	1,4	1,00	4	3,5	20
Brass screens box hinges 3-piece									
020694525P	120364		50	25	1,25	0,98	6	3,5	20
020694630P	120371		60	30	1,25	1,59	6	3,5	20

Furniture-/Door hinges

Item number	GTIN 4003984	Version	Measurements mm A	B	Thick-ness-	Approx kg p. pack unit	Screws Pcs.	Ø mm	Pack. as... Pcs.
000620050N	120173		50	40	1,5	0,83	6	3,0	20
000620051N	120197		50	40	1,5	0,83	6	3,0	20
000620050NL	120180		50	40	1,5	9,65	6	3,0	250
000620051NL	120203		50	40	1,5	9,65	6	3,0	250
000620050V	120395		50	40	1,5	0,83	6	3,0	20
000620051V	120401		50	40	1,5	0,83	6	3,0	20
010620050	020466		50	40	1,5	0,80	6	3,0	20
010620051	020473		50	40	1,5	0,80	6	3,0	20
Road Feet Material-No. 1.4301									
092096000	550154	N	50	40	1,5	0,50	6	3,0	5
092097000	550161	N	50	40	1,5	0,50	6	3,0	5



Rolled norm hinges

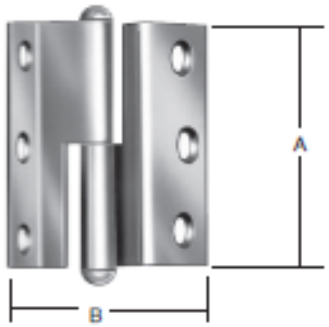
rolled, of lift-off design, straight, with swaged joint

050 = left
051 = right



SB Pcs./Cards
2
2

000621050N	120210		50	35	1,5	0,92	6	3,0	20
000621051N	120227		50	35	1,5	0,92	6	3,0	20
000621050V	120418		50	35	1,5	0,92	6	3,0	20
000621051V	120425		50	35	1,5	0,92	6	3,0	20



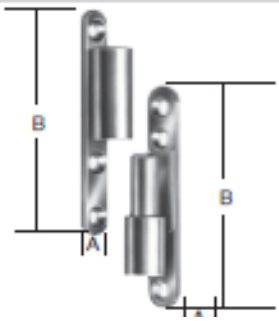
Rolled norm hinges

rolled, of lift-off design, straight, with swaged joint

050 = left
051 = right



092460000	420280	Z	14	83	2,5	1,12	6	5,0	5



Repair hinge

self-service packed, for windows and doors

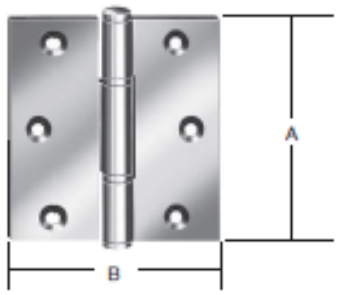
SB Pcs./ Cards
2

Door hinges

Rolled stainless steel hinges

rolled, with swaged joint, with stainless steel cylinder pin





Item number	GTIN 4003984	Version	Measurements mm A	B	Thickness	Approx kg p. pack unit	Screws Pcs.	Ø mm	Pack as unit*
010870075	020497		75	75	2,5	0,36	6	4,0	2
010870090	020503		90	85	2,5	0,46	6	4,5	2

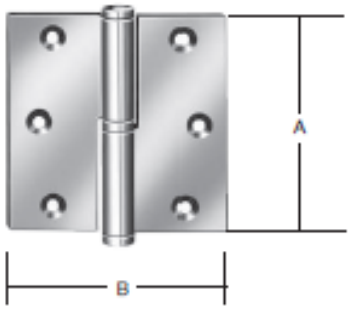
Rust free
Material-No. 1.4301

Rolled lift-off stainless steel hinges

rolled, with swaged joint, or lift-off design, with stainless steel cylinder pin

010871 = left
010872 = right





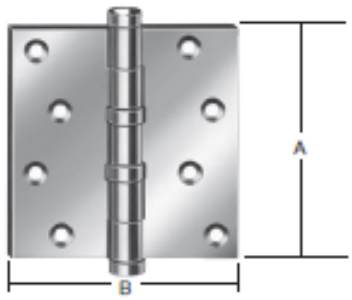
010871090	020527		90	90	2,5	0,45	6	4,0	2
010872090	020541		90	90	2,5	0,44	6	4,0	2

Rust free
Material-No. 1.4301

Rolled heavy hinges

rolled, heavy, with swaged joint, with lift-off iron pin





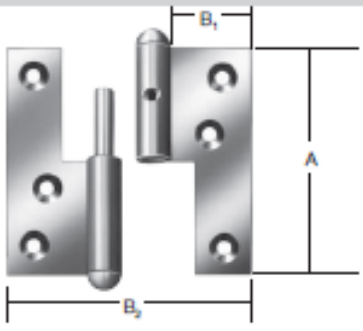
000855006NM	090209		102	76	2,9	0,56	8	5,0	2
000855008NM	090254		102	102	2,9	0,68	8	5,0	2

Door hinges

with swaged joint, with fixed pin

080 = left
081 = right

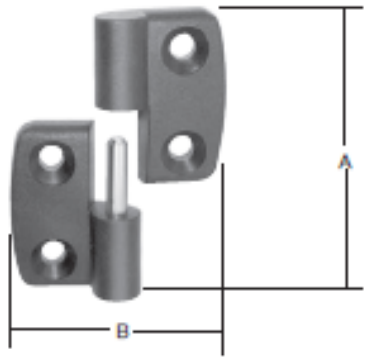




				B_1/B_2					
000861080Z	090391		80	28/72	2,5	1,54	6	4,0	10
000861081Z	090407		80	28/72	2,5	1,54	6	4,0	10

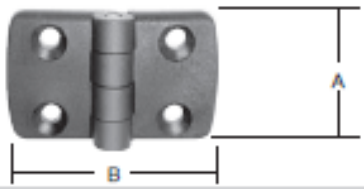
Plastic- / Specialhinges

Item number	GTIN 4003984	Version	Measurements mm A	B	Thick-ness	Approx kg p. pack unit	Screws Pcs.	Ø mm	Pack as... Pcs.
000440060PS	120456		48	58	8,3	0,38	4	5,0	10
000440061PS	120463		48	58	8,3	0,38	4	5,0	10



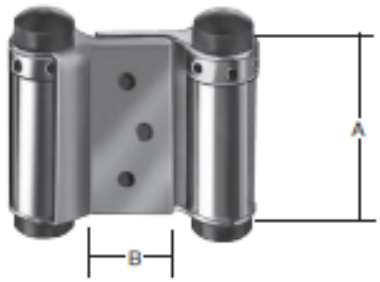
Polyamid lift-off hinges
with stainless steel pin
060 = left
061 = right

000445040PS	120494		30	39	5,0	0,10	4	3,0	10
000445060PS	120500		48	58	8,3	0,40	4	5,0	10
000445100PS	120524		48	96	8,2	0,55	4	5,0	10



Polyamid-hinges
with Stainless steelpin

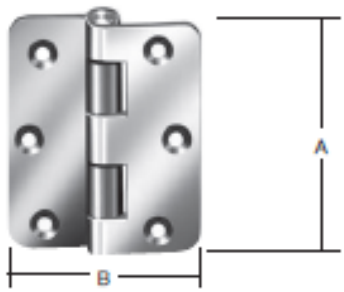
000850050Z	090575		50	32	1,7	0,54	6	4,0	2



Swingdoor hinges
with spiral spring for door tickness up to 29 mm (incl. accessories) max. 8kg each

Pcs./ Cards
2

000632000ZR	050456		75	65	2,5	2,75	6	4,5	20

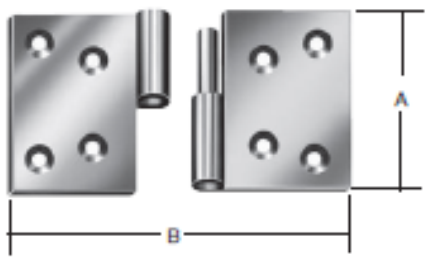


Rolled window hinges
rolled, with rounded corners, with riveted brass pin

Offset B



000029608Z	050036		60	80	2	2,00	8	5,0	20
000029609Z	050043		60	80	2	2,00	8	5,0	20
000029710Z	050050		70	100	2	1,48	8	5,0	10
000029711Z	050067		70	100	2	1,47	8	5,0	10
000029812Z	050098		80	120	2	3,86	8	5,0	20
000029813Z	050104		80	120	2	3,86	8	5,0	20

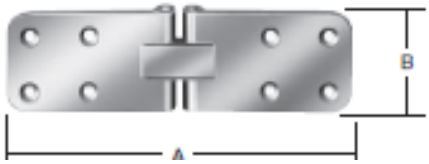


Rolled lift-off hinges

608, 710, 812
= left
609, 711, 813
= right



000013000Z	120388		150	45	5	3,08	8	5,0	10



Hammered hinges

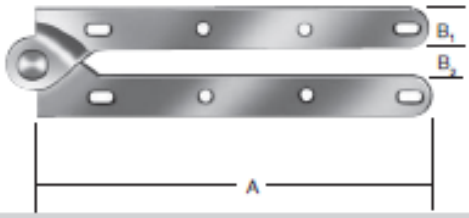
hammered, locking at 180°

Ladder fittings

Schoolboard hinges

blue galvanized

001 = left
011 = right

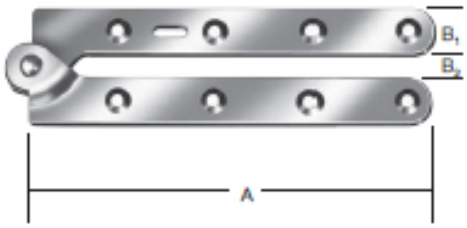


Item number	GTIN 4003984	Measurements mm A	B	Thickness	Approx kg p. pack unit	Screws Pcs.	Ø mm	Pack as unit*
000019001Z	120029	150	16 10	4	8,33	4 rd. 4 ov.	4,0 4,0	50
000019011Z	120067	150	16 10	4	8,32	4 rd. 4 ov.	4,0 4,0	50

Schoolboard hinges

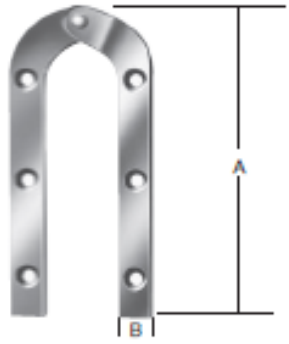
blue galvanized

006 = left
016 = right



000019006Z	120432	205	18 12	5	15,20	8	5,0	50
000019016Z	120449	205	18 12	5	15,19	8	5,0	50

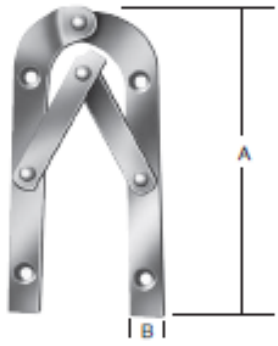
Curved hinges



000032200Z	120111	200	21	4	2,86	6	5,0	10

Curved hinges

with snib



000033250Z	120142	250	21	4	4,02	6	5,0	10

Weld-on hinges / Undrilled hinges

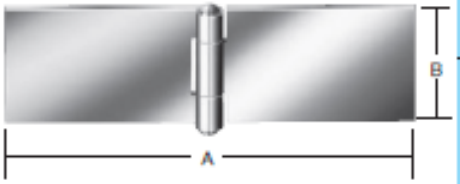
Item number	GTIN 4003984	Measurements mm A	B	Thickness	Approx kg p. pack unit	Screws Pcs.	Ø mm	Pack as... Pcs.
Rolled narrow undrilled hinges DIN 7654 A, rolled, with riveted iron pin								
000401040U	010047	40	26	0,9	0,01	–	–	1
000401050U	010061	50	31	1,2	0,02	–	–	1
000401060U	010085	60	34	1,4	0,03	–	–	1
000401080U	010108	80	41	1,5	0,06	–	–	1
with riveted stainless steel pin								
010501050U	020138	50	31	1,0	0,40	–	–	20
Rost frei Material-No. 1.4301								
Rolled semi-wide undrilled hinges DIN 7654 B, rolled, with riveted iron pin								
000402060U	010184	60	46	1,4	0,04	–	–	1
000402080U	010207	80	58	1,5	0,07	–	–	1
with riveted stainless steel pin								
010502060U	020206	60	46	1,2	0,70	–	–	20
Rost frei Material-No. 1.4301								
Rolled undrilled square hinges DIN 7654 C, rolled, with riveted iron pin								
000403040U	010252	40	40	0,9	0,02	–	–	1
000403050U	010276	50	50	1,2	0,03	–	–	1
000403060U	010290	60	60	1,4	0,05	–	–	1
000403100U	010351	100	100	1,6	0,16	–	–	1
with riveted stainless steel pin								
010503040U	020251	40	40	0,9	0,78	–	–	50
Rost frei Material-No. 1.4301								
Rolled undrilled wide hinges DIN 7654 D, rolled, with riveted iron pin								
000404060U	010436	60	90	1,4	0,07	–	–	1
with riveted stainless steel pin								
010504060U	020350	60	90	1,25	1,30	–	–	20
Rost frei Material-No. 1.4301								

Weld-on hinges / Undrilled hinges

Item number	GTIN 4003984	Measurements mm A	B	Thick-ness	Approx kg p. pack unit	Screws Pcs..	Ø mm	Pack as... Pcs.
000405080U	010504	80	28	1,2	0,03	–	–	1
000405100U	010528	100	32	1,3	0,04	–	–	1
000405140U	010559	140	34	1,6	0,05	–	–	1
010505100U Material-No. 1.4301	020398	100	32	1,2	0,77	–	–	20
000506100U	011235	100	20	1,5	0,03	–	–	1
000217170U	080576	170	40	2,5	0,15	–	–	1
000217200U	080606	200	40	3,0	0,21	–	–	1

Rolled wide undrilledd hinges

DIN 7957, rolled, with riveted iron pin

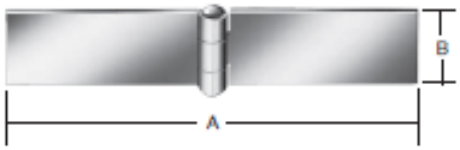


with riveted stainless steel pin



Rolled narrow undrilled hinges

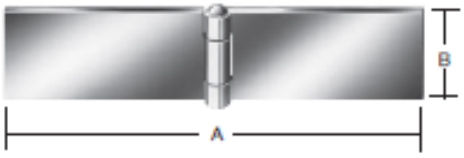
rolled, with riveted iron pin





Rolled strong undrilled hinges

rolled, strong, with riveted iron pin





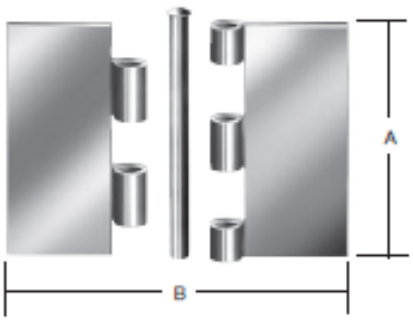
Weld-on hinges / Undrilled hinges

Item number	GTIN 4003984	Measurement mm A	B	Thickness	Approx kg p. pack unit	Screws Pcs.	Ø mm	Pack as.... pcs.
Rolled undrilled square hinges rolled, with swaged joint, strong, with riveted stainless steel pin with riveted stainless steel pin								
010613075U Rost frei Material-No. 1.4301	011372	75	75	1,8	2,76	–	–	24
Rolled undrilled square steel-window hinges								
000653080VE	140126	80	80	3,0	4,60	–	–	20
000653080VM	140133	80	80	3,0	4,32	–	–	20
Rolled undrilled steel-window hinges DIN 18286 B								
000650060EK	140041	60	55	2,5	2,09	–	–	20
000650060MK	140058	60	55	2,5	2,11	–	–	20
000650060VM	140065	60	55	2,5	2,22	–	–	20
000650095MK	140089	95	65	3,0	4,64	–	–	20

Weld-on hinges / Undrilled hinges

Item number	GTIN 4003984	Measurements mm A	B	Thick-ness	Approx pack unit	Screws Pcs.	Ø mm	Pack as... Pcs.
000614075U	011396	75	75	1,9	0,12	–	–	1
010614060U	020589	63	63	1,5	1,63	–	–	24
010614075U	020596	75	75	1,8	2,82	–	–	24
010870090U	020510	90	85	2,5	2,15	–	–	10
011001080	020565	80	16	Ø 13,6	0,54	–	–	6

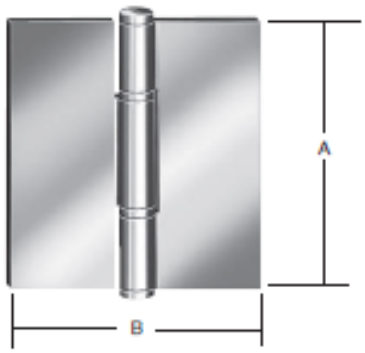
Rost frei
Material-No. 1.4301



Rolled undrilled square hinges
rolled, with swaged joint, with loose brass pin

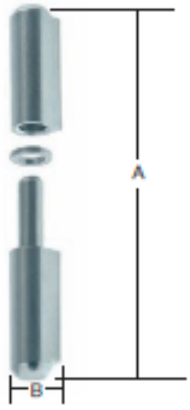
with looe stainless steel pin





Rolled undrilled stainless steel hinges
rolled, with swaged joint, with stainless steel cylinder pin





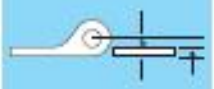
Profile stainless steel weld-on hinges
polished surface

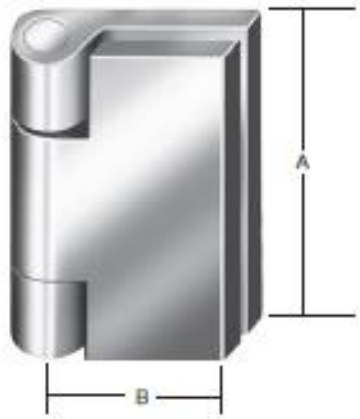


Weld-on hinges / Undrilled hinges

Profile Rivet-joint hinges

DIN 31211

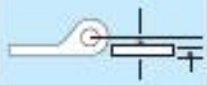


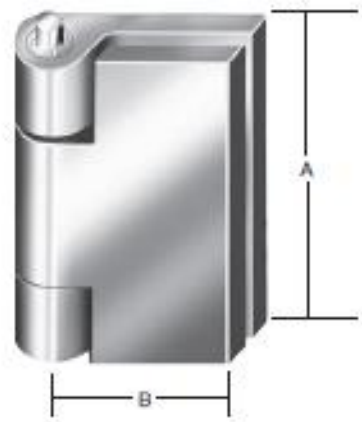


Item number	GTIN 4003964	Measurements mm A	B	Thick-ness	Approx pack unit	Screws Stck.	Ø mm	Pack as... Pcs.
				s/h				
000014001NG	150187	40	20	3/4	0,05	–	–	10
000014005NG	150194	40	40	3/4	0,88	–	–	10
000014007NG	150217	60	30	5/8	1,74	–	–	10

Profile bar-joint hinges

DIN 31211





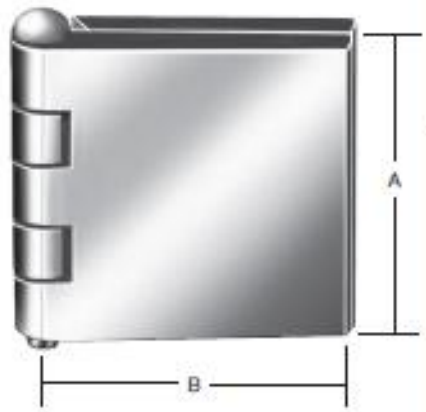
				s/h				
000014049BG	150231	80	40	7/8	4,18	–	–	10

Profile car door hinges

Pin-Ø 4 mm

Pin-Ø 6 mm

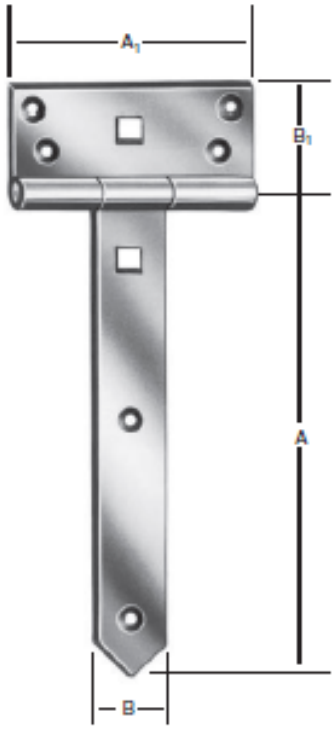
Pin-Ø 8 mm

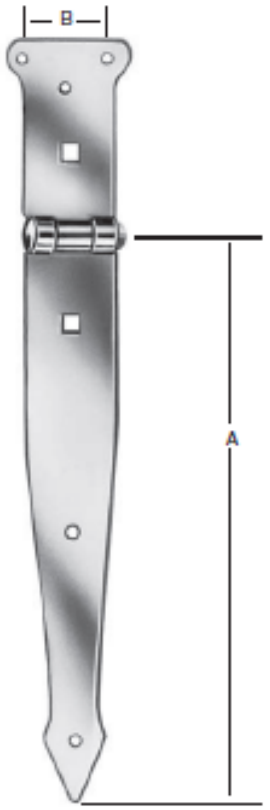


000012001	150019	30	40	3,0	0,66	–	–	10
000012004	150040	40	40	3,0	0,90	–	–	10
000012005	150057	50	40	3,0	1,08	–	–	10
000012003	150033	30	60	5,0	1,62	–	–	10
000012006	150064	40	30	5,0	1,18	–	–	10
000012007	150071	40	60	5,0	2,16	–	–	10
000012008	150088	40	80	5,0	2,85	–	–	10
000012009	150095	40	100	5,0	3,37	–	–	10
000012010	150101	50	60	5,0	2,66	–	–	10
000012011	150118	50	80	5,0	3,46	–	–	10
000012013	150132	60	60	5,0	3,17	–	–	10
000012014	150149	60	80	5,0	4,16	–	–	10
000012016	150156	60	80	6,0	4,93	–	–	10
000012017	150163	60	100	6,0	5,99	–	–	10
000012022	150170	80	80	6,0	6,50	–	–	10

Hangers

Item numbers	Version	GTIN 4003984	Measurements mm A	B	Thick-ness	Approx pack unit	Screws Pcs.	Ø mm	Pack sa... Pcs.
Light cross hangers									
000124200K		321570	200 90	33 50	2,2	1,64	2 □ 6 rd.	8,0 5,0	6
000124200Z		320504	200 90	33 50	2,2	2,41	2 □ 6 rd.	8,0 5,0	10
000124250K		321587	250 90	33 50	2,2	1,79	2 □ 6 rd.	8,0 5,0	6
000124250Z		320511	250 90	33 50	2,2	2,67	2 □ 6 rd.	8,0 5,0	10
000124300Z		320528	300 90	33 50	2,2	3,05	2 □ 7 rd.	8,0 5,0	10
000124400Z		320535	400 90	33 50	2,5	4,19	2 □ 7 rd.	8,0 5,0	10
010124200		180566	200 90	33 50	3,0	0,32	2 □ 6 rd.	8,0 5,0	1
010124300		180573	300 90	33 50	3,0	0,38	2 □ 7 rd.	8,0 5,0	1
Heavy cross hangers									
000126300Z		320542	300 105	38 70	3,5	6,13	2 □ 6 rd.	8,0 5,0	10
000126400K		321594	400 105	38 70	3,5	4,40	2 □ 7 rd.	8,0 5,0	6
000126400Z		320559	400 105	38 70	3,5	7,32	2 □ 7 rd.	8,0 5,0	10
000126500K		321600	500 105	38 70	3,75	5,13	2 □ 8 rd.	8,0 5,0	6
000126500Z		320566	500 105	38 70	3,75	8,56	2 □ 8 rd.	8,0 5,0	10
000126600Z		320887	600 105	38 70	3,75	9,61	2 □ 9 rd.	8,0 5,0	10
Light shutter hinges									
000062200K		321464	200	35	2,5	1,08	1 □ 5 rd.	6,0 5,0	6
000062200Z		320016	200	35	2,5	1,79	1 □ 5 rd.	6,0 5,0	10
000062250K		321471	250	35	2,5	1,32	1 □ 5 rd.	6,0 5,0	6
000062250Z		320023	250	35	2,5	2,20	1 □ 5 rd.	6,0 5,0	10
000062300K		321488	300	35	2,5	1,55	1 □ 5 rd.	8,0 5,0	6
000062300Z		320030	300	35	2,5	2,45	1 □ 5 rd.	8,0 5,0	10
000062400Z		320047	400	45	3,0	5,00	1 □ 6 rd.	8,0 5,0	10
Heavy shutter hinges									
000064300Z		320054	300	45	4,0	2,11	2 □ 6 rd.	8,0 5,0	4
000064400Z		320061	400	45	4,0	2,67	2 □ 6 rd.	8,0 5,0	4
000064500Z		320078	500	55	4,0	3,91	2 □ 6 rd.	8,0 6,0	4





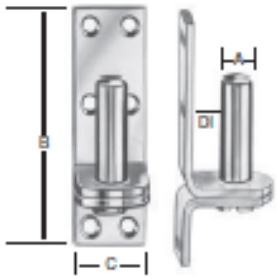
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Pulley block

„DI" Pulley block on plate

mandril Ø DI
10 mm -> 9,3 mm
13 mm -> 11 mm
16 mm -> 10 mm
20 mm -> 18,2 mm

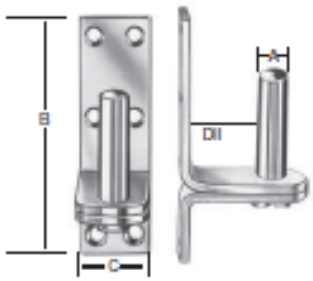
Pcs./Box 2



Item number	Version	GTIN 4003994	Measurements mm A	B	C	Approx. kg p. pack unit	Screws Pcs.	Ø mm	Pack as.... Pcs.
000073010K		321556	10	85	33	1,20	6	3,5	10
000073010Z		320290	10	85	33	1,15	6	3,5	10
000073013K		321563	13	99	39	2,78	6	5,0	10
000073013Z		320306	13	99	39	2,76	6	5,0	10
000073013ZF		321303	13	103	35	2,13	4	5,0	10
000073016Z		320313	16	118	40	3,04	6	5,0	10
000073016ZF		321310	16	126	40	3,49	4	6,0	10
000073020Z		320634	20	164	60	3,90	6	6,5	4
010073013		180504	13	100	30	0,19	4	5,0	1
010073016		180511	16	120	40	0,32	6	6,0	1
075073000		321457	10	85	33	1,46	6	4,0	5

„DII"-Pulley block on plate

mandril Ø DII
10 mm -> 26 mm
13 mm -> 23 mm
16 mm -> 23 mm
20 mm -> 30 mm

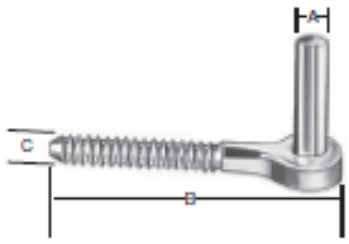


000074010Z		320320	10	85	33	1,33	6	3,5	10
000074013Z		320337	13	104	39	3,10	6	5,0	10
000074013ZF		321327	13	98	35	2,75	4	6,0	10
000074016Z		320344	16	104	40	3,38	6	5,0	10
000074016ZF		321334	16	120	40	3,82	4	6,0	10
000074020Z		320351	20	164	60	4,10	6	6,0	4

„J"-Pulley block

with threaded rosette to screw through

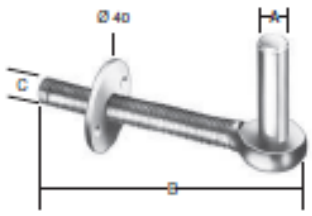
Pcs./Box 2



000072001Z		321426	10	80	12	0,73	–	–	10
000072010Z		320276	10	110	12	0,90	–	–	10
000072013Z		320283	13	110	12	1,51	–	–	10
000072113Z		320580	13	160	12	3,75	–	–	20
000072116Z		320702	16	160	12	5,10	–	–	20
010072013		180498	13	140	12	0,18	–	–	1
075072000		321440	10	80	12	0,85	–	–	5

Pulley block

with threaded rosette to screw through

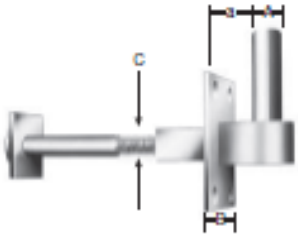


000071010Z		320252	10	115	10	2,52	–	–	20
000071013Z		320269	13	115	12	4,42	–	–	20

„N"-Pulley block

with plate to screw through

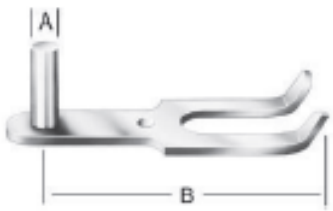
a = 16 mm bei mandril-Ø 16 mm a = 27 mm bei mandril-Ø 20 mm



000071116Z		320665	16	64	M12	4,42	–	–	10
000071120Z		320672	20	80	M16	8,03	–	–	10

Pulley block

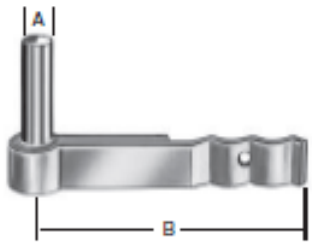
Item number	Version	GTIN 4003984	Measurements mm A	B	for mandrill	Thickness	Approx kg p. pack unit	Screws Pcs.	Ø mm	Pack as... Pcs.
000070016Z		320245	16	145		6,0	7,98	–	–	20
000070116Z		320641	16	230		6,0	1,03	–	–	2
000069013Z		320214	13	115		5,0	4,78	–	–	20
000069016Z		320221	16	155		5,0	7,63	–	–	20
000069013U		320696	13	55		10,0	4,73	–	–	20
000069016U		320689	16	65		12,0	6,55	–	–	20
000066100U		320719	100	40	13	5,0	4,28	–	–	20
000067100U		320795	100	45	16	6,0	6,38	–	–	20



„G"-Pulley block
to brick in 1/2 stone



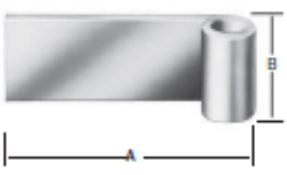
„G"-Pulley block
to brick in the whole stone



„F"-Pulley block
to plaster in



Pulley block
to weld on



Weld-on hinges
for mandril Ø 13 mm 13 – 16 mm

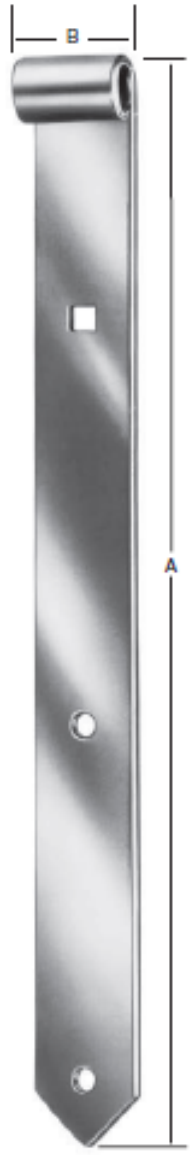
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Shutter with arrestor

Item number	Version	GTIN 4003984	Measurements mm A	B	Ø Thread	Approx kg p. pack unit	Screws Pcs.	Ø mm	Pack. 88.... pcs.
Shutter-arrestor to screw in, thread 10x55									
000099005Z		320436	120	25	10x55	1,74	–	–	10
000099015Z		320467	165	25	10x55	4,02	–	–	20
Shutter-arrestor to screw in, with stop, thread 10x55									
000099030Z		320931	120	35	10x55	3,74	–	–	20
Shutter-arrestor to screw on									
000099010Z		320450	25	35	–	0,82	4	5,5	5
Safety shock loading throws with grip-trough									
000098000Z		320412	120	27	Stärke 3,0	1,82	4	4,0	10

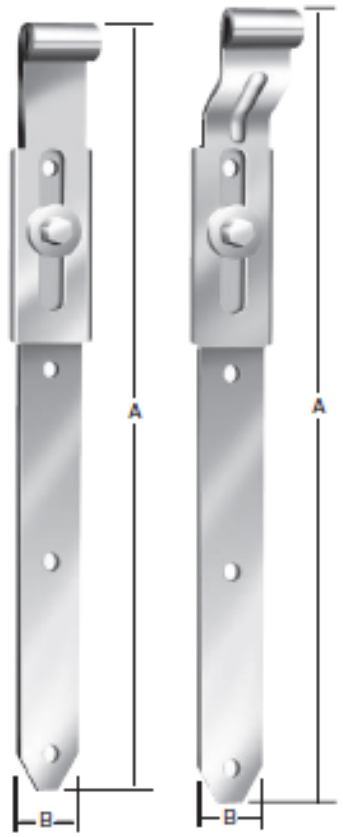
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Item number	Version	GTIN 4003984	Measurements mm A	B	for mandril ø	thick-ness	Approx kg p. pack	unit	Screws Pcs.	Ømm	Pack as... Pcs.
Shutter hinges, light for mandril Ø 10 mm											
000065300K		321495	300	30	10	3,5	1,95		1 □ 2 rd.	9,0 6,0	6
000065300Z		320085	300	30	10	3,5	3,25		1 □ 2 rd.	9,0 6,0	10
000065400K		321501	400	30	10	3,5	2,49		1 □ 3 rd.	9,0 6,0	6
000065400Z		320092	400	30	10	3,5	4,10		1 □ 3 rd.	9,0 6,0	10
000065500Z		320733	500	30	10	3,5	5,12		1 □ 2 rd.	9,0 6,0	10
Shutter hinges, light heavyweight for mandril Ø 13 mm											
000066300K		321518	300	37	13	5,0	3,49		1 □ 2 rd.	9,0 6,0	6
000066300Z		320108	300	37	13	5,0	5,28		1 □ 2 rd.	9,0 6,0	10
000066300ZF		321204	300	40	13	5,0	5,64		1 □ 2 rd.	9,0 6,0	10
000066400K		321525	400	37	13	5,0	3,89		1 □ 3 rd.	9,0 6,0	6
000066400Z		320115	400	37	13	5,0	6,87		1 □ 3 rd.	9,0 6,0	10
000066400ZF		321211	400	40	13	5,0	6,48		1 □ 2 rd.	9,0 6,0	10
000066500K		321532	500	37	13	5,0	5,53		1 □ 4 rd.	9,0 6,0	6
000066500Z		320122	500	37	13	5,0	9,01		1 □ 4 rd.	9,0 6,0	10
000066500ZF		321228	500	40	13	5,0	8,51		1 □ 3 rd.	9,0 6,0	10
000066600K		321549	600	37	13	5,0	5,88		1 □ 4 rd.	9,0 6,0	6
000066600Z		320139	600	37	13	5,0	9,76		1 □ 4 rd.	9,0 6,0	10
000066600ZF		321235	600	40	13	5,0	10,49		1 □ 3 rd.	9,0 6,0	10
000066700Z		320740	700	37	13	5,0	11,52		1 □ 4 rd.	9,0 6,0	10
000066800Z		320757	800	37	13	5,0	13,73		1 □ 4 rd.	9,0 6,0	10
010066400		510547	400	40	13	4,0	0,54		1 □ 3 rd.	9,0 6,0	1
010066500		510554	500	40	13	4,0	0,65		1 □ 4 rd.	9,0 6,0	1
010066600		510578	600	40	13	4,0	0,80		1 □ 5 rd.	9,0 6,0	1
Shutter hinges, heavy-weight for mandril Ø 16 mm											
000067000Z		320146	1000	44	16	5,0	7,40		1 □ 5 rd.	9,0 8,0	4
000067500Z		320771	500	44	16	5,0	10,32		1 □ 2 rd.	9,0 8,0	10
000067600Z		320153	600	44	16	5,0	11,79		1 □ 4 rd.	9,0 8,0	10
000067600ZF		321266	600	44	16	5,0	11,79		1 □ 3 rd.	11,0 8,0	5
000067700Z		320627	700	44	16	5,0	12,48		1 □ 4 rd.	9,0 8,0	10
000067700ZF		321273	700	44	16	5,0	7,26		1 □ 4 rd.	11,0 8,0	5
000067800Z		320160	800	44	16	5,0	14,82		1 □ 5 rd.	9,0 8,0	10
000067800ZF		321280	800	44	16	5,0	9,12		1 □ 4 rd.	11,0 8,0	5
010067600		510585	600	45	16	5,0	1,14		1 □ 3 rd.	9,0 8,0	1
010067800		510561	800	45	16	5,0	1,43		1 □ 5 rd.	9,0 8,0	1
Shutter hinges, extra heavy-weight for mandril Ø 20 mm											
000068000Z		320177	1000	60	20	8,0	7,98		6	8,0	2
000068120Z		320184	1200	60	20	8,0	9,36		6	8,0	2
000068800Z		320191	800	60	20	8,0	13,43		6	8,0	4



Adjustable shutter hinges and pulley blocks

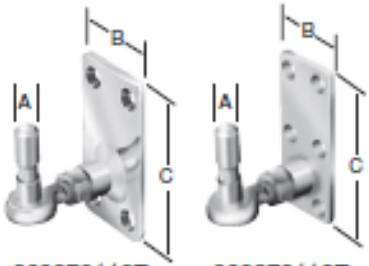
Item number	Version	GTIN 4003984	Measurement mm A	B	for mandrel	Thick-ness	Approx kg p. pack unit	Screws Pcs.	Ø mm	Pack. as... pcs.
000066501Z		321129	500	40	13	5,0	4,05	6/8	4,0	4
000066701Z		321150	700	40	13	5,0	5,28	6/8	5,0	4
000067801Z		321181	800	50	16	6,0	9,05	6/8	6,0	4
000066502Z		321136	500	40	13	5,0	4,20	6/8	4,0	4
000066702Z		321143	700	40	13	5,0	5,34	6/8	5,0	4
000067802Z		321198	800	50	16	6,0	9,28	6/8	6,0	4



Adjustable shutter hinges
straight, adjustment range up to 40 mm max.

bent at right angles, adjustment range up to 40 mm max.

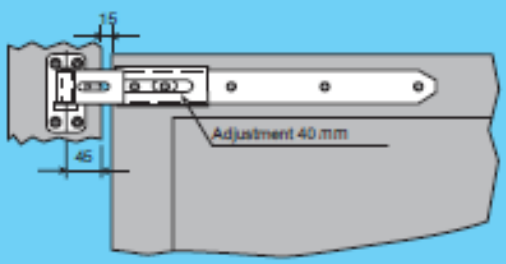
Item number	GTIN 4003984	Measurements mm A	B	C	Thick-ness	Approx je VE	Screws Pcs.	Ø mm	Pack. as... Pcs.
000073113Z	321105	13	50	100	5,0	1,48	4	6,0	4
000073116Z	321112	16	50	120	6,0	2,33	6	6,0	4



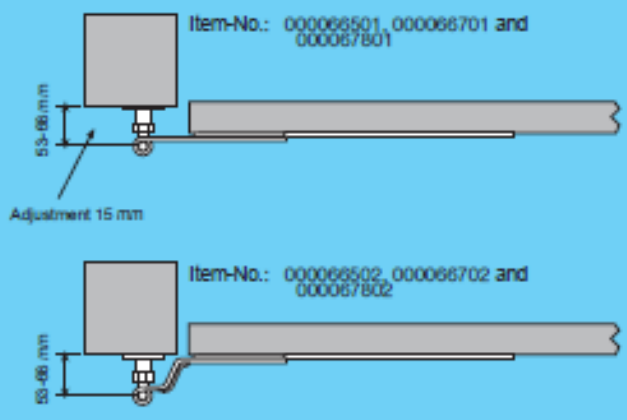
000073113Z 000073116Z

Adjustable pulley bock

Application variants for adjustable shutter hinges in conjunction with adjustable pulley block.



More application variants: Adjustable shutter hinges in connection with stare pulley blocks or adjustable pulley blocks in connection with stare shutter hinges.



Wicker fence hinges



Universal Wicker fence hinges

The fast and safest connection

Wicker fence hinges
L-shaped for mandrill Ø 10 mm



Item number	GTIN 4003984	Measurements mm A	B	Stärke	for mandrill Ø mm	Approx kg p. pack unit	Screws Pcs.	Ø mm	Pack. as... Pcs.
000065001Z	321402	30	38	3,0	10	1,43	3	4,0	20
075001000 SB-Packaging	380461	30	38	3,0	10	0,89	3	4,0	5 Boxes à 2 Pcs. with Screws

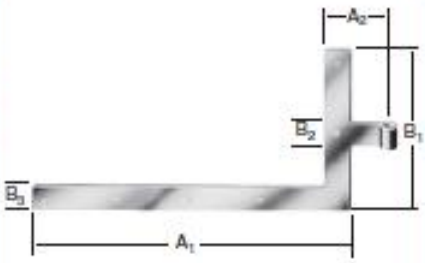
Wicker fence hinges
U-shaped for mandrill Ø 10 mm



Item number	GTIN 4003984	Measurements mm A	B	Stärke	for mandrill Ø mm	Approx kg p. pack unit	Screws Pcs.	Ø mm	Pack. as... Pcs.
000065045Z	321419	45	38	2,0	10	0,84	4	4,0	10
075045000 SB-Packaging	380478	45	38	2,0	10	0,96	4	4,0	5 Boxes à 2 Pcs. with Screws

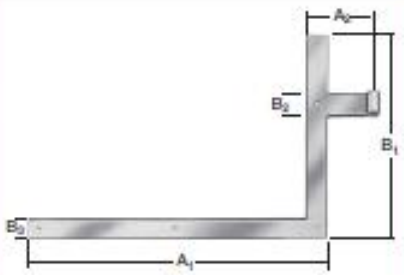
Street door hook-and-ride-bands

Street door hook-and-ride-bands
for mandrill Ø 16 mm, packed in pairs



Item number	Version	GTIN 4003984	Measurements mm A	B	Thickness	ca. kg je VE	Screws Pcs.	Ø mm	Pack. as... pcs.
000116350Z		320832	350 105	400 45 40	5,0 6,0 5,0	2,68	1 □ 5 rd.	8,0 6,0	2
000116600Z		320498	600 105	400 45 45	5,0 6,0 6,0	3,41	1 □ 7 rd.	8,0 6,0	2
000116800Z		320849	800 105	400 45 40	5,0 6,0 5,0	3,95	1 □ 8 rd.	8,0 6,0	2

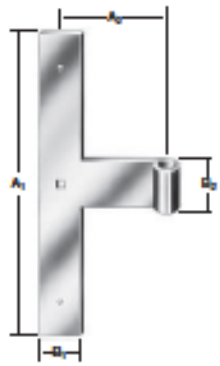
Garagedoor bands
for mandrill Ø 20 mm, packed in pairs zu



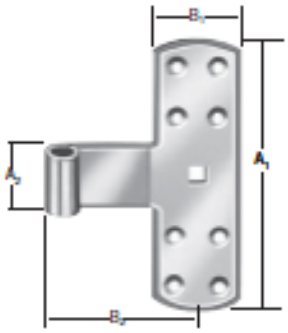
Item number	Version	GTIN 4003984	Measurements mm A	B	Thickness	ca. kg je VE	Screws Pcs.	Ø mm	Pack. as... pcs.
000119000Z		320870	1000 120	400 60 60	8,0 8,0 8,0	11,08	1 rd. 7 rd.	10,0 8,0	2
000119800Z		320863	800 120	400 60 60	8,0 8,0 8,0	9,78	1 rd. 6 rd.	10,0 8,0	2

Shutter bands

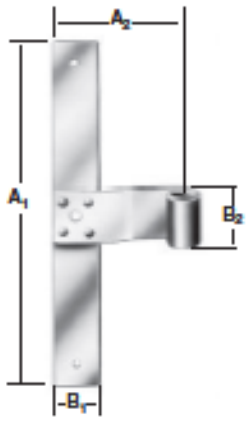
Item number	Version	GTIN 4003964	Measurements mm A	B	Thick-ness	Approx pack unit	Screws Pcs.	Ø mm	Pack. as... pcs.
000112300Z		320825	300 105	40 45	5,0 6,0	3,60	1 □ 2 rd.	8,0 6,0	5
000113160Z		320474	160 35	50 75	2,0 4,0	2,87	8 rd. 1 □	5,0 8,0	10
000114200Z		320801	200 75	30 35	3,0 4,0	1,41	1 rd. 2 rd.	8,0 5,0	5
00115250Z		320481	200 75	250 35 30	3,0 4,0 3,0	4,36	5 rd. 1 □	5,0 8,0	10
00115350Z		320818	350 75	250 35 30	3,0 4,0 3,0	5,58	5 rd. 1 □	5,0 8,0	10



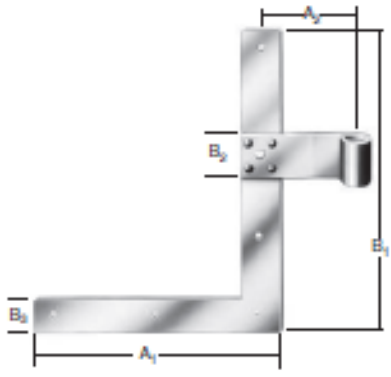
Street door strap hinges
for mandril-Ø 16 mm



Street door strap hinges
for mandril-Ø 13 mm



Street door strap hinges
for mandril-Ø 13 mm



Shutter strap hinges
for mandril-Ø 13 mm

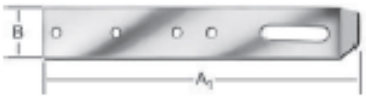
packed in pairs

Stall accusations/ padlock latches

Item number	Version	GTIN 4003984	Measurements mm A	B	Stär-ke	Approx kg p. unit pack	Screws Pcs.	Ø mm	Pack. as... pcs.
000093160Z		320399	160	30	3,0	0,99	2 1	4,5 8,0	10
000093250Z		320405	250	32	4,0	2,18	3 1	5,0 7,0	10

Stable door padlock latches
without eyelet plate

No. 000075035Z



000094300Z		320924	250 50	35	3,0	2,16	2 rd. 1 □	5,0 7,0	10

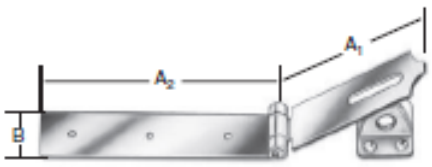
Padlock latches
without eyelet plate

No. 000075035Z



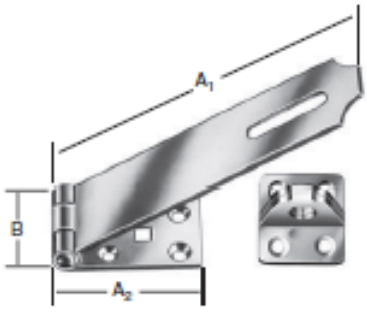
000092250Z		080460	100 150	35	2,5	2,28	3	4,5	10
000092300Z		080477	100 200	35	3,0	2,43	3	4,5	10
010092200		180085	100 100	35	2,0	0,81	2	4,5	5

Padlock latches
with eyelet plate (Ø 11 mm)



000021140Z		080033	85 30	35	2,5	1,35	8 rd. 1 □	4,5 6,0	10
000021160Z		080064	105 55	35	2,5	1,71	8 rd. 1 □	4,5 6,0	10
000021180Z		080071	125 55	35	2,5	1,88	8 rd. 1 □	4,5 6,0	10
010021145		180580	100 45	35	2,0	0,66	8 rd. 1 □	4,5 6,0	5

Security padlock latches
with eyelet plates (Ø 11 mm)



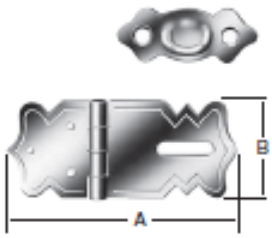
Padlock latches

Item number	Version	GTIN 4003984	Measurements mm A	B	Thick-ness	Approx kg p. pack unit	Screws Pcs.	Ø mm	Pack. ss... Pcs.
Rolled extra strong secutiry padlock latches extra strong, with eyelet plates (Ø 20 mm) mit riveted brass pin									
000025200Z		080729	140 60	50	3,0	1,75	4 rd. 1 □	6,0 8,0	5
Security padlock latches with eyelet plate (Ø 11 mm)									
010090080		180078	80 30	37	1,5	0,41	2 4	4,0 3,5	5
SB Pcs./Card 1									
091977000		510240	80 30	37	1,5	0,52	2 4	4,0 3,5	5
Wire padlock latches Wire padlock latches									
000080080Z		080408	80	22	1,3	0,25	5	2,5	10
000080100Z		080415	100	30	1,3	0,49	5	3,0	10
000081120Z		080439	120	34	1,5	0,63	5	3,0	10
000081140Z		080446	140	38	1,5	0,82	5	3,0	10

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Padlock latches

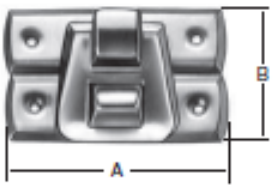
Item number	Version	GTIN 4003964	Measurements mm A	B	Thick-ness	Approx kg p. pack unit	Screws Pcs.	Ø mm	Pack. as... Pcs.
090841000	V	550222	47	20	0,5	0,16	–	–	5
090837000	V	550048	30	19	–	0,17	–	–	5
090835000	V	550031	25	15	–	0,14	–	–	5



Casket padlock latches
self-service packed, with eyelet plate

Pcs./Card
1

SB

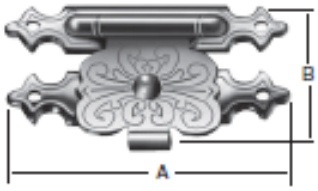


Casket locks
self-service packed

brass-coated

Pcs./Card
2

SB



Casket locks
self-service packed

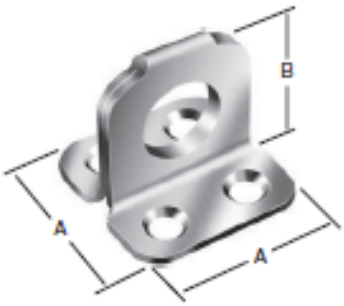
brass-coated

Pcs./Card
2

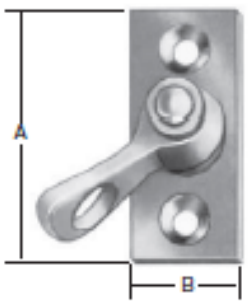
SB

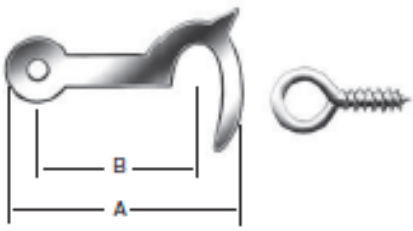
Eyelet plates/sash

Item number	Version	GTIN 4003984	Measurements mm A	B	Thick-ness	Approx kg p. pack unit	Screws Pcs.	Ø mm	Pack. as... Pcs.
Eyelet plates suitable for padlock latches and stable door padlock latches									
000075035Z		080361	35	35 Ösen-Ø 11,5	2,0	0,80	4	3,5	25
000075075Z		080378	45	45 Ösen-Ø 20	2,5	0,38	4	6,0	5
010075035		180351	35	35 Ösen-Ø 11	2,0	0,62	4	3,5	20
Eyelet plates suitable for wire padlock latches									
000076040Z		080385	40	28	1,25	0,41	2	3,0	25
000076045Z		080392	45	31	1,25	0,62	2	3,0	25
Casement fastener on plate galvanized									
000243020Z		160223	45	20	2,5	0,84	2	4,0	20
Hooks with eyelets self-service packed SB Pcs./Card 4									
090839000	V	460446	30	16	–	0,29	1	2,0	10



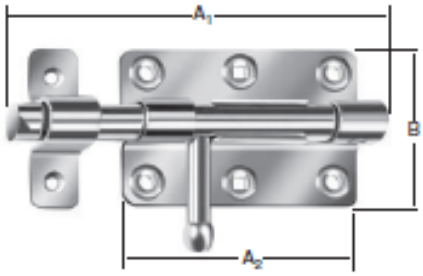






Bolts and loops

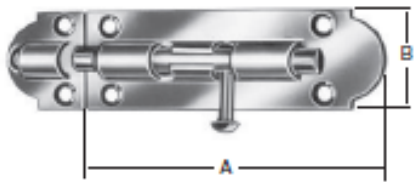
Item number	Version	GTIN 4003984	Measurements mm A	B	Thick-ness	Approx kg p. pack unit	Screws Pcs.	Ø mm	Pack as... Pcs
000214140Z		602228	150 100	66	1,75	2,26	4 rd. 2 □	4,5	6



Bar locking bolts
with lug

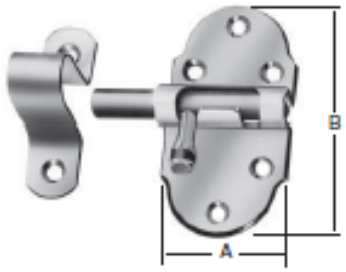
Bolt Ø 15 mm

000226080Z		601948	80	30	1,2	0,56	7	3,5	10
000226100Z		600583	100	30	1,2	0,88	7	4,0	10
000226130Z		600590	130	30	1,2	1,39	9	4,5	10



Grendel bolts
with combined lug

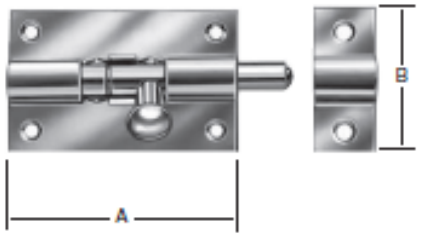
000101040Z		600439	40	75	1,5	0,77	6	3,5	10
000101047Z		600477	45	85	1,5	1,10	6	3,5	10



Spring grendel bolts
with lug, with brass knob

Bolts Ø 10 mm

091948000		510158	55	35	1,25	0,41	6	3,0	5



Grendel bolts
self-service packed, straight, with lug

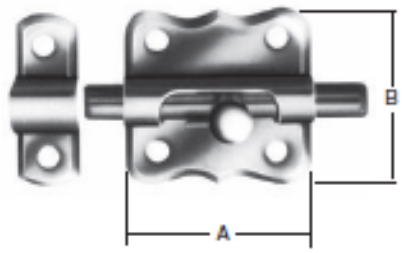
SB

Pcs./Card
1

Bolts and loops

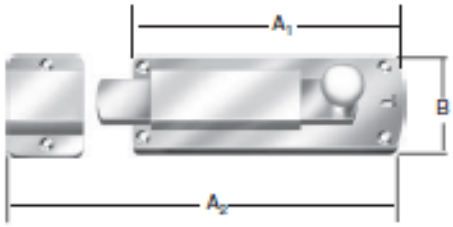
Grendel bolts
with lug, without spring

Bolts Ø 9 mm



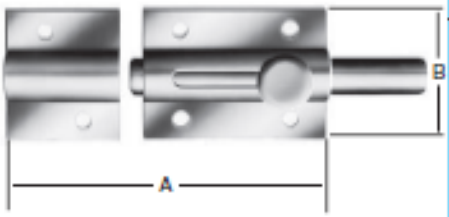
Item number	Version	GTIN 4003994	Measurements mm A	B	Thick-ness	ca. kg /o VE	Screws Pcs.	Ø mm	Pack. as... pcs.
000225035Z		600552	35	35	0,7	0,62	6	3,0	20
000225040Z		600569	40	40	1,0	0,93	6	3,5	20
000225047Z		600576	47	47	1,0	1,65	6	3,5	20

Deco bolt with knob
with lug



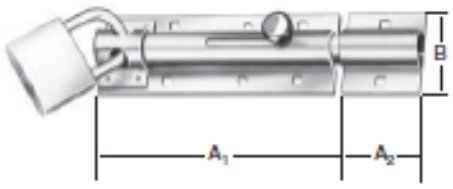
010222080		180535	80 100	22	1,0	0,54	4	2,5	10

Bar bolts with knob
with lug, bolt-Ø 10 mm



000227080BR		600606	80	36	1/2	1,09	6	3,5	10
000227080Z		600613	80	36	1/2	1,09	6	3,5	10
000227120Z		600637	120	36	1/2	1,58	8	3,5	10
010227080		600699	80	36	1/2	0,25	6	3,5	2

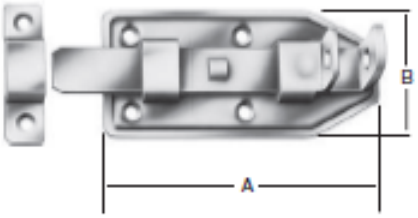
Bar door locking bolts
with lug
Bolt Ø 12 mm



000104130W		600095	130 40	43,5	2,2	1,74	2 rd. 6 □	4,5 5,0	5
000104130Z		600507	130 40	43,5	2,2	1,69	2 rd. 6 □	4,5 5,0	5
010104130		600682	130 40	43,5	2,2	0,75	2 rd. 6 □	4,5 5,0	2

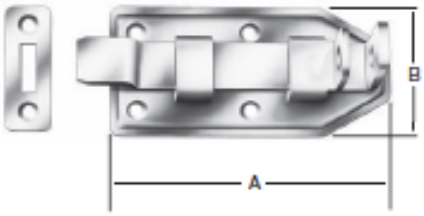
Bolts and loops

Door locking bolts
straight, with lug



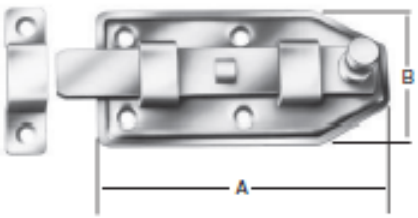
Item number	Version	GTIN 4003984	Measurements mm A	B	Thick-ness	Approx kg p. pack unit	Screws Pcs.	Ø mm	Pack. ss... pcs.
000105100Z		600101	100	50	1,75	1,96	4	4,0	10
000105120Z		600118	120	56	2,0	2,90	5	4,0	10
000105140Z		600125	140	56	2,0	3,24	5	4,0	10
000105160Z		600132	160	65	2,5	3,02	5	5,0	5
000105180Z		600149	180	65	2,5	2,79	5	5,0	5
010105120		180436	120	56	1,5	1,14	5	4,0	5
010105140		180474	140	56	1,5	1,31	5	4,0	5

Door locking bolts
bent at right angles, with striker plate



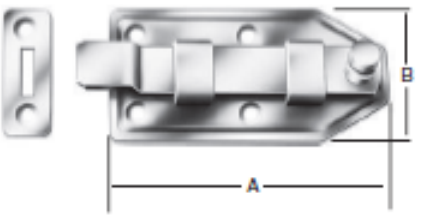
000106100Z		600156	100	50	1,75	0,96	4	4,0	5
000106120Z		600163	120	56	2,0	1,39	5	4,0	5
000106140Z		600170	140	56	2,0	3,09	5	4,0	10
000106160Z		600187	160	65	2,5	2,78	5	5,0	5
000106180Z		600521	180	65	2,5	3,03	5	5,0	5

Door bolts with knob
straight, with lug



000107100Z		600194	100	50	1,75	1,85	4	4,0	10
000107120Z		600200	120	56	2,0	2,73	4	4,0	10
000107140Z		600217	140	56	2,0	3,04	5	4,0	10
000107160Z		600224	160	65	2,5	2,68	5	5,0	5
000107180Z		601658	180	65	2,5	2,91	5	5,0	5

Door bolts with knob
bent at right angles, with striker plate



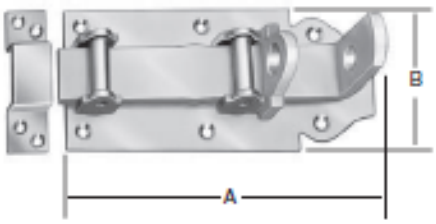
000107101Z		601634	100	50	1,75	1,80	4	4,0	10
000107121Z		601603	120	56	2,0	2,66	4	4,0	10
000107141Z		601573	140	56	2,0	2,96	5	4,0	10

Bolts and loops

Item number	Version	GTIN 4003994	Measurements mm A	B	Thick-ness	Approx kg p. pack unit	Screws Pcs.	Ø mm	Pack. as... pcs.
000110160Z		601849	160	70	2,5	3,37	6	4,5	5
000110180Z		600255	180	80	2,5	4,58	6	4,5	5

Door bolts with knob

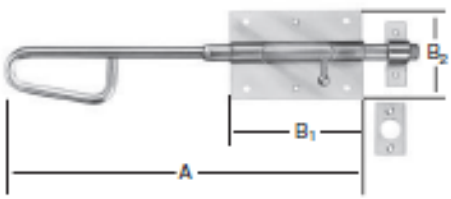
Rolling shutter locking bolts



000111400Z		600279	400	100 65	2	2,80	4 rd. 2	4,5 4,5	5
000111500Z		600545	500	100 65	2	2,90	4 rd. 2	4,5 4,5	5
000111600Z		600712	600	100 65	2	3,12	4 rd. 2	4,5 4,5	5

Espagnolette bolts

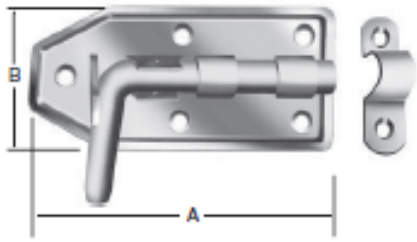
mit Schlaufe und Schließblech
Bolts Ø 16 mm



Bolts and loops

Bar bolts

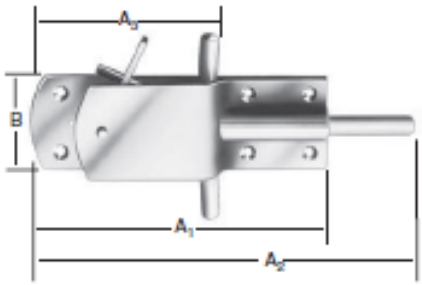
with lug
Bolt Ø 16 mm



Item number	Version	GTIN 4003984	Measurements mm A	B	Thick-ness	Approx kg p. pack unit	Screws Pcs.	Ø mm	Pack. as... pcs.
000109160ZF		600248	160	65	2,5	0,62	5	4,5	1
000109180ZF		600538	180	65	2,5	3,41	5	4,5	5

Stable door security locks

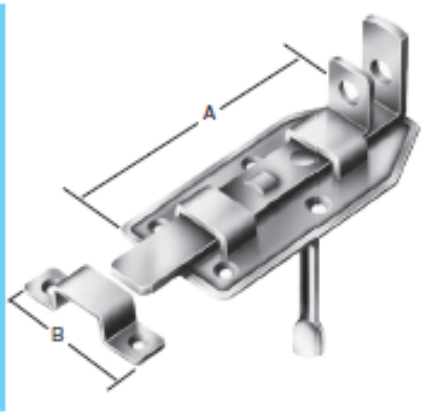
with hidden pawl
Bolts Ø 15 mm



Item number	Version	GTIN 4003984	Measurements mm A	B	Thick-ness	Approx kg p. pack unit	Screws Pcs.	Ø mm	Pack. as... pcs.
000108200Z		601863	200 215 130	70	4,5	3,79	6	6,0	5
000108200ZF		600231	200 265 130	65	4,5	3,86	6	6,0	5

Stable door locking bolts

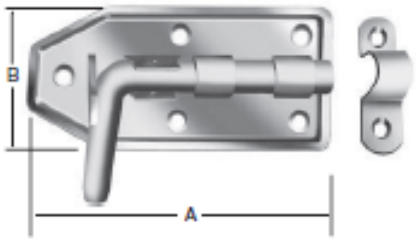
with lug, with loose pin, 100 mm long



Item number	Version	GTIN 4003984	Measurements mm A	B	Thick-ness	Approx kg p. pack unit	Screws Pcs.	Ø mm	Pack. as... pcs.
000105001Z		600644	160	65	2	3,26	6	4,0	5
000105002Z		600651	180	65	2	2,62	6	5,0	5

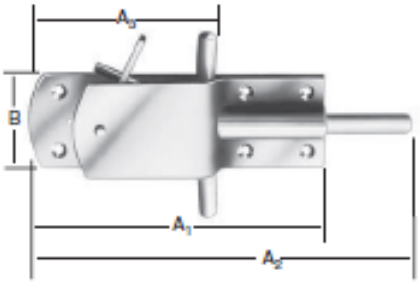
Bolts and loops

Bar bolts
with lug
Bolt Ø 16 mm



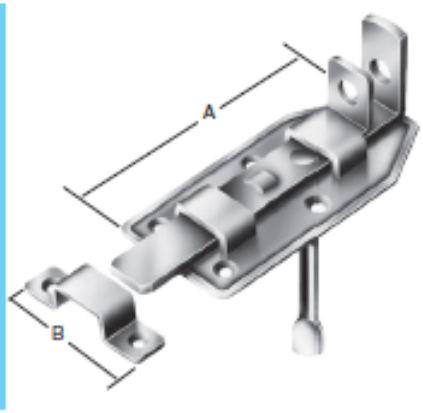
Item number	Version	GTIN 4003984	Measurements mm A	B	Thick-ness	Approx kg p. pack unit	Screws Pcs.	Ø mm	Pack. as... pcs.
000109160ZF		600248	160	65	2,5	0,62	5	4,5	1
000109180ZF		600538	180	65	2,5	3,41	5	4,5	5

Stable door security locks
with hidden pawl
Bolts Ø 15 mm



Item number	Version	GTIN 4003984	Measurements mm A	B	Thick-ness	Approx kg p. pack unit	Screws Pcs.	Ø mm	Pack. as... pcs.
000108200Z		601863	200 215 130	70	4,5	3,79	6	6,0	5
000108200ZF		600231	200 265 130	65	4,5	3,86	6	6,0	5

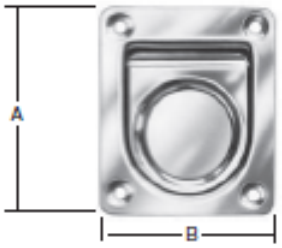
Stable door locking bolts
with lug, with loose pin, 100 mm long



Item number	Version	GTIN 4003984	Measurements mm A	B	Thick-ness	Approx kg p. pack unit	Screws Pcs.	Ø mm	Pack. as... pcs.
000105001Z		600644	160	65	2	3,26	6	4,0	5
000105002Z		600651	180	65	2	2,62	6	5,0	5

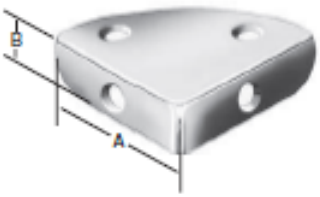
Chest handles/chestcorners

Item number	Version	GTIN 4003994	Measurements mm A	B	Thick-ness	Approx kg p. pack unit	Screws Pcs.	Ø mm	Pack. as... pcs.
Countersunk handles									
011330065		180290	65	55	1,0	0,28	4	3,0	5
Handles									
000193110Z		170345	110	13,5	4,0	0,52	2	4,5	10
000193160W		170277	160	20	4,0	1,20	4	4,5	10
000193160Z		170284	160	20	4,0	1,21	4	4,5	10
000193200Z		170338	200	20	4,0	1,52	4	4,5	10
010193160		180313	160	20	4,0	0,65	4	4,5	5
010193200		180320	200	20	4,0	1,50	4	4,5	10
Chest corners (protective corners), DIN 7459, high profile									
000240028Z		160179	28	–	0,8	0,25	3	2,5	25
000240036Z		160193	36	–	0,9	0,55	3	3,0	25
000240045Z		160209	45	–	1,0	0,46	3	3,0	10
000240056Z		160216	56	–	1,25	1,74	3	4,0	25
010240036		180238	36	–	0,7	0,37	3	3,0	20
Chest corners (protective corners), DIN 7459, flat profile									
000241036Z		160421	36	10	0,8	0,32	4	3,0	25





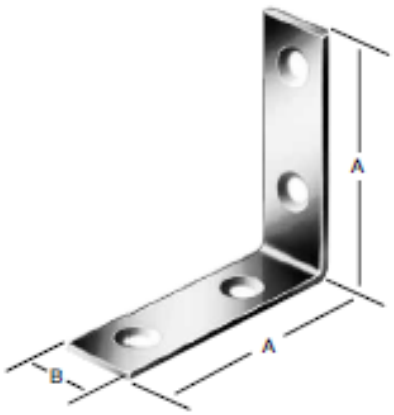




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Angles

Chair angles
countersunk from inside



SB Pcs./Card
4
4
4
4

Item number	Version	GTIN 4003994	Measurements mm A	B	Thick-ness	Approx kg p. pack unit	Screws Pcs.	Ø mm	Pack. as... pcs.
000180025Z		200233	25	15	2,0	1,06	4	3,5	100
000180030Z		200257	30	15	2,0	1,32	4	3,5	100
000180040Z		200271	40	15	2,0	1,70	4	3,5	100
000180050Z		200295	50	15	2,0	2,18	4	3,5	100
000180060Z		200318	60	18	2,0	3,19	4	3,5	100
000180080Z		200332	80	18	2,0	2,13	4	4,0	50
000180100Z		200356	100	20	2,0	2,90	6	4,0	50
000180120Z		200370	120	20	2,0	3,71	6	4,0	50
000180025ZL		200240	25	15	2,0	10,14	4	3,5	1000
000180040ZL		200288	40	15	2,0	8,57	4	3,5	500
000180050ZL		200301	50	15	2,0	10,70	4	3,5	500
000180025ZP		201827	25	15	2,0	1,27	VE 10 à 12 Stck.		
000180030ZP		201834	30	15	2,0	1,53	VE 10 à 12 Stck.		
000180040ZP		201841	40	15	2,0	1,94	VE 10 à 12 Stck.		
000180050ZP		201858	50	15	2,0	2,63	VE 10 à 12 Stck.		
000180060ZP		201865	60	18	2,0	2,56	VE 10 à 8 Stck.		
000180080ZP		201889	80	18	2,0	3,50	VE 10 à 8 Stck.		
ZP=									
000180025ZG		202008	25	15	2,0	0,52	VE 1 à 50 Stck.		
000180040ZG		202015	40	15	2,0	0,80	VE 1 à 50 Stck.		
000180050ZG		202022	50	15	2,0	1,06	VE 1 à 50 Stck.		
000180060ZG		202039	60	18	2,0	1,52	VE 1 à 50 Stck.		
ZG=									
000180025B		190138	25	15	2,0	0,52	4	3,5	50
000180040B		190152	40	15	2,0	0,82	4	3,5	50
000180050B		190176	50	15	2,0	1,12	4	3,5	50
000180060B		190190	60	18	2,0	1,62	4	3,5	50
000180080B		190213	80	18	2,0	2,16	4	4,0	50
000180025W		190145	25	15	2,0	1,06	4	3,5	100
000180040W		190169	40	15	2,0	1,67	4	3,5	100
000180050W		190183	50	15	2,0	1,13	4	3,5	50
000180060W		190206	60	18	2,0	1,61	4	3,5	50
000180080W		190220	80	18	2,0	2,20	4	4,0	50
010180025	Material No. 1.4301	180115	25	15	2,0	0,51	4	3,0	50
010180040		180122	40	15	2,0	0,86	4	3,0	50
010180050		180139	50	15	2,0	1,14	4	3,5	50
010180060		180146	60	18	2,0	1,62	4	3,5	50
010180080		180153	80	18	2,0	2,20	4	3,5	50
010180100		180160	100	20	2,0	3,10	6	3,5	50
091910000	Material No. 1.4301	510059	25	15	2,0	0,30	4	3,0	5
091912000		510066	40	15	2,0	0,45	4	3,0	5
091913000		510073	50	15	2,0	0,58	4	3,5	5
091914000		510080	60	18	2,0	0,78	4	3,5	5

Strong chair angels
strong, countersunk from inside

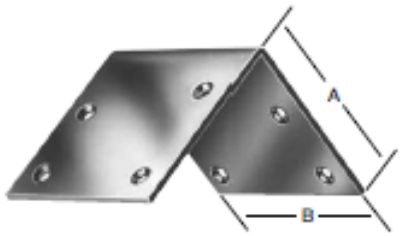


Item number	Version	GTIN 4003994	Measurements mm A	B	Thick-ness	Approx kg p. pack unit	Screws Pcs.	Ø mm	Pack. as... pcs.
000181100Z		200394	100	20	2,5	1,55	6	4,0	20
000181125Z		200400	125	22	2,5	2,20	6	4,0	20
000181150Z		200417	150	25	3,0	3,31	6	4,0	20
000181100B		190237	100	20	2,5	1,56	6	4,0	20
000181100ZP		201902	100	20	2,5	5,95	Unit 10 à 8 Pcs.		

Angles

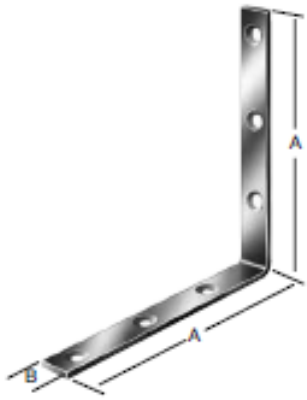
Wide angels
Wide angles

Item number	Version	GTIN 4003984	Measurement mm A	B	Thick-ness	Approx kg p. pack unit	Screws Pcs.	Ø mm	Pack. as... pcs.
000177030Z		200141	30	30	2,0	1,38	4	3,5	50
000177040Z		200158	40	40	2,0	2,36	4	3,5	50
000177050Z		201933	50	50	2,0	3,88	6	3,5	50
000177060Z		200165	60	60	2,0	2,19	8	3,5	20
000177030B		190039	30	30	2,0	0,58	4	3,5	20
000177040B		190053	40	40	2,0	0,98	4	3,5	20
000177060B		190077	60	60	2,0	2,21	8	3,5	20
000177030W		190046	30	30	2,0	1,43	4	3,5	50
000177040W		190060	40	40	2,0	2,43	4	3,5	50
000177060W		190794	60	60	2,0	2,23	8	3,5	20
000177030ZP		201957	30	30	2,0	2,00	6 à 12 Pcs.		
000177040ZP		201964	40	40	2,0	2,28	4 à 12 Pcs.		
ZP=									
010177030	Material No. 1.4301	180641	30	30	2,0	0,57	4	3,5	20
010177040		180603	40	40	2,0	0,94	4	3,5	20



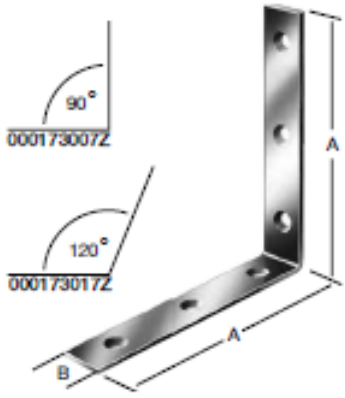
Strong angles
countersunk from inside

Item number	Version	GTIN 4003984	Measurement mm A	B	Thick-ness	Approx kg p. pack unit	Screws Pcs.	Ø mm	Pack. as... pcs.
000182040Z		201193	40	20	3,0	0,36	4	4,5	10
000182060Z		201209	60	20	3,0	0,55	4	4,5	10
000182080Z		200424	80	20	5,0	1,11	4	5,0	10
000182100Z		200431	100	20	5,0	1,40	4	5,0	10
000182120Z		200448	120	20	5,0	1,73	4	6,0	10
000182140Z		200455	140	20	5,0	2,01	4	6,0	10
000182160Z		200462	160	20	5,0	2,16	6	6,0	10
000182180Z		200479	180	20	5,0	2,48	6	6,0	10
000182100W		190268	100	20	5,0	1,42	4	5,0	10
000182120W		192282	120	20	5,0	1,69	4	6,0	10
000182040ZP		201988	40	20	3,0	1,61	6 à 8 Pcs.		
000182060ZP		201995	60	20	3,0	2,43	6 à 8 Pcs.		
ZP=									



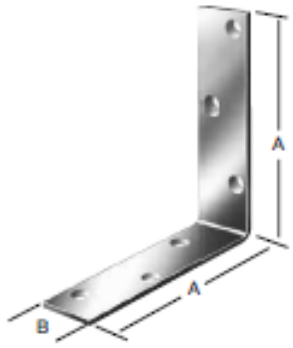
Strong angles
90°, countersunk from inside

Item number	Version	GTIN 4003984	Measurement mm A	B	Thick-ness	Approx kg p. pack unit	Screws Pcs.	Ø mm	Pack. as... pcs.
000173007Z		201773	150	25	5,0	5,15	6	6,0	20
000173017Z		201742	150	25	5,0	5,18	6	6,0	20



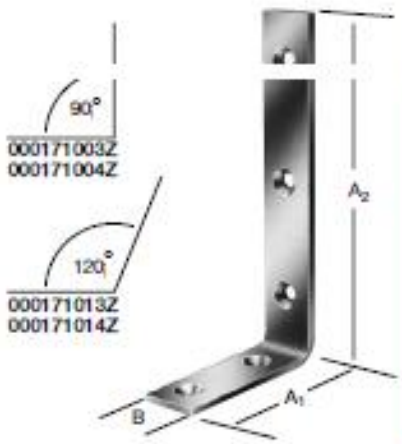
Strong beam angles
countersunk from inside

Item number	Version	GTIN 4003984	Measurement mm A	B	Thick-ness	Approx kg p. pack unit	Screws Pcs.	Ø mm	Pack. as... pcs.
000173100Z		201162	100	40	5,0	2,92	4	6,0	10
000173150Z		201179	150	40	5,0	4,18	6	6,0	10
000173200Z		201186	200	40	5,0	5,74	8	6,0	10



Angles

Strong angles
90°, unequal sided, countersunk from inside



Item number	Version	GTIN 4003994	Measurements mm A1 A2	B1 B2	Thickness	Approx kg p. pack unit	Screws Pcs.	Screws Ø mm	Pack. as... pcs.
000171003Z		201759	80 150	25	5,0	3,98	5	6,0	20
000171004Z		201766	110 150	25	5,0	4,52	5	6,0	20
000171013Z		201728	80 150	25	5,0	4,14	5	6,0	20
000171014Z		201735	110 150	25	5,0	4,54	5	6,0	20

Strong angles
unequal sided, countersunk from inside



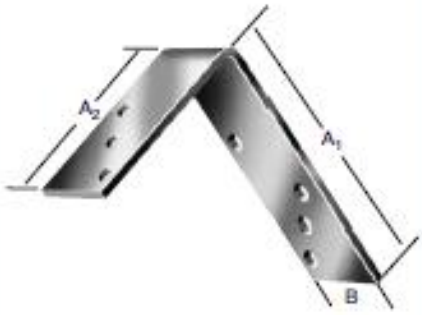
000171100Z		201131	100 50	40	5,0	2,11	4	6,0	10
000171150Z		201148	150 75	40	5,0	3,23	5	6,0	10
000171200Z		201155	200 100	40	5,0	4,16	7	6,0	10

Wide angles
unequal sided, countersunk from inside



000172075Z		200080	75	40 25	2,0	1,43	5	4,5	20
000172115Z		200097	115	60 40	2,5	4,31	8	4,5	20

Strong beam angles
unequal sided, countersunk from inside



000179080Z		201216	80 40	30	2,0	1,09	5	4,0	20
000179100Z		200189	100 75	30	3,0	1,24	5	4,0	10
000179120Z		200202	120 80	35	4,0	2,04	9	5,0	10
000179180Z		200219	180 120	40	5,0	4,19	7	6,0	10
000179240Z		200226	240 160	50	5,0	7,38	10	6,0	10
000179080B		190749	80 40	30	2,0	1,11	5	4,0	20
000179100B		190091	100 75	30	3,0	1,18	5	4,0	10
000179120B		190107	120 80	35	4,0	2,04	9	5,0	10
000179180B		190114	180 120	40	5,0	4,32	7	6,0	10
000179080W		190756	80 40	30	2,0	1,12	5	4,0	20
000179100W		190763	100 75	30	3,0	1,17	5	4,0	10
000179120W		190770	120 80	35	4,0	2,05	9	5,0	10
000179180W		190787	180 120	40	5,0	4,29	7	6,0	10
000179100ZP		201971	100 75	30	3,0	5,59	6 à 8 Stck.		
010179080	Material No. 1.4301	180689	80 40	30	2,0	0,58	5	4,0	10
010179100		180672	100 75	30	3,0	1,20	5	4,0	10

Angles

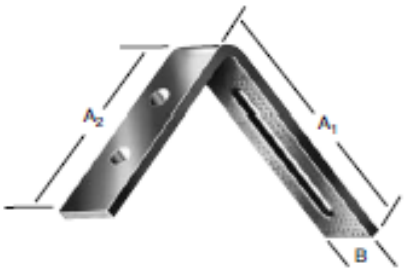
Curtain angles

Item number	Version	GTIN 4003984	measurements mm A_1 A_2	B_1 B_2	Thick-ness	Approx kg p. pack unit	Screws Pcs.	Screws Ø mm	Pack. as... pcs.
000160095Z		200011	95 55	13,5	3,5	1,05	3 rd. 1 ov.	4,0 5,0	20
000160120Z		200035	120 55	17	3,5	1,53	4 rd. 1 ov.	4,0 6,0	20
000160180Z		200042	180 55	17	3,5	2,14	4 rd. 1 ov.	4,0 6,0	20
000160095W		190695	95 55	13,5	3,5	1,04	3 rd. 1 ov.	4,0 5,0	20
000160120W		190701	120 55	17	3,5	1,53	4 rd. 1 ov.	4,0 6,0	20
000160180W		190718	180 55	17	3,5	2,13	4 rd. 1 ov.	4,0 6,0	20



Adjustable angles

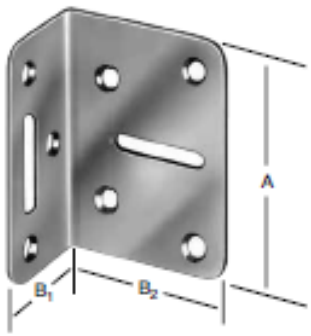
Item number	Version	GTIN 4003984	measurements mm A_1 A_2	B_1 B_2	Thick-ness	Approx kg p. pack unit	Screws Pcs.	Screws Ø mm	Pack. as... pcs.
000178080Z		200172	80 65	20	4,0	1,48	2 rd. 1 ov.	6,0 6,0	20
000178080B		190084	80 65	20	4,0	1,48	2 rd. 1 ov.	6,0 6,0	20
000178080W		190732	80 65	20	4,0	1,48	2 rd. 1 ov.	6,0 6,0	20



Adjustable angles

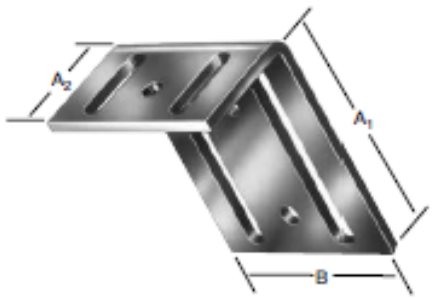
countersunk from inside

Item number	Version	GTIN 4003984	measurements mm A_1 A_2	B_1 B_2	Thick-ness	Approx kg p. pack unit	Screws Pcs.	Screws Ø mm	Pack. as... pcs.
000175070Z		200127	70	35 50	2,0	1,75	7 rd. 2 ov.	4,5 4,5	20
000175070W		190435	70	35 50	2,0	1,76	7 rd. 2 ov.	4,5 4,5	20
071200000RF	Material No. 1.4301	380348	70	35 50	2,0	0,90	7 rd. 2 ov.	4,5 4,5	10



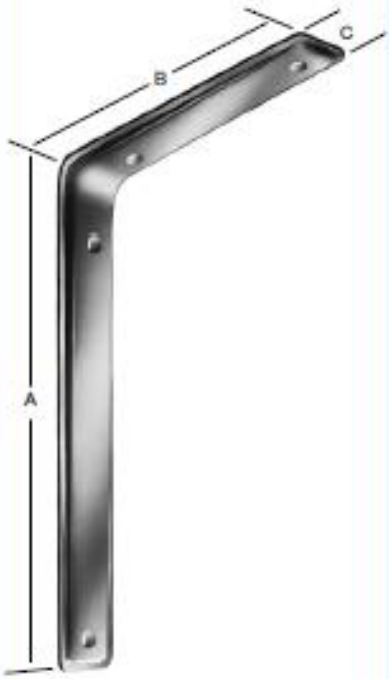
Strong adjustable angles

Item number	Version	GTIN 4003984	measurements mm A_1 A_2	B_1 B_2	Thick-ness	Approx kg p. pack unit	Screws Pcs.	Screws Ø mm	Pack. as... pcs.
000176075Z		200134	75 35	65	3,5	1,57	3 rd. 4 ov.	6,0 6,0	10



Angles

3F-brackets
holes countersunk from inside



Item number	Version	GTIN 4003984	Measurements mm A	B	C	Approx kg p. pack unit	Screws Pcs.	Ø mm	Pack. as... pcs.	kg Pcs.
000165115B		250139	115	80	40	1,15	4	4,0	10	30
000165160B		250184	160	105	40	1,70	4	4,0	10	50
000165235B		250894	235	160	40	2,64	4	4,0	10	65
000165315B		250948	315	200	40	2,26	4	4,0	6	70
000165115BL		251686	115	80	40	1,15	4	4,0	10	30
000165160BL		251679	160	105	40	1,68	4	4,0	10	50
000165235BL		251662	235	160	40	2,64	4	4,0	10	65
000165115C		250153	115	80	40	1,15	4	4,0	10	30
000165160C		250207	160	105	40	1,72	4	4,0	10	50
000165235C		250900	235	160	40	2,63	4	4,0	10	65
000165315C		250955	315	200	40	3,67	4	4,0	10	70
000165115GR		251778	115	80	40	1,13	4	4,0	10	30
000165160GR		251747	160	105	40	1,69	4	4,0	10	50
000165235GR		251754	235	160	40	2,64	4	4,0	10	65
000165315GR		251761	315	200	40	2,26	4	4,0	6	70
000165115S		251051	115	80	40	1,14	4	4,0	10	30
000165160S		251068	160	105	40	1,69	4	4,0	10	50
000165235S		251075	235	160	40	2,65	4	4,0	10	65
000165315S		251570	315	200	40	2,25	4	4,0	6	70
000165115SM		251808	115	80	40	1,16	4	4,0	10	30
000165160SM		251792	160	105	40	1,70	4	4,0	10	50
000165235SM		251785	235	160	40	2,66	4	4,0	10	65
000165115W		250177	115	80	40	1,14	4	4,0	10	30
000165160W		250221	160	105	40	1,69	4	4,0	10	50
000165235W		250931	235	160	40	2,65	4	4,0	10	65
000165315W		250986	315	200	40	3,65	4	4,0	10	70
000165115Z		251693	115	80	40	1,13	4	4,0	10	30
000165160Z		251709	160	105	40	1,71	4	4,0	10	50
010165160	Rigid type Material No. 1.4301	271882	160	105	40	1,71	4	4,0	10	50
010165235		271875	235	160	40	2,65	4	4,0	10	65

3F-brackets
holes countersunk from inside



Item number	Version	GTIN 4003984	Measurements mm A	B	Thick-ness	Approx kg p. pack unit	Screw Pcs.	Ø mm	Pack. as... pcs.
000165040S		251044	40/25	70	1,5	1,02	5	4,0	20
000165040W		250122	40/25	70	1,5	0,52	5	4,0	10
000165040Z		251716	40/25	70	1,5	0,98	5	4,0	20

Piconect angles
holes countersunk from inside



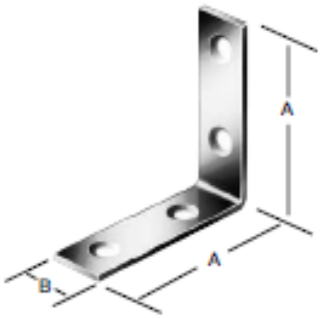
000162030C		201667	30	15	1,5	1,10	4	3,5	100
000162040C		201629	40	15	1,5	1,33	4	3,5	100
000162050C		201612	50	15	1,5	1,75	4	3,5	100
000162030V		201674	30	15	1,5	1,10	4	3,5	100
000162040V		201636	40	15	1,5	1,33	4	3,5	100
000162050V		201599	50	15	1,5	1,69	4	3,5	100
000162030W		190657	30	15	1,5	1,10	4	3,5	100
000162040W		190633	40	15	1,5	1,33	4	3,5	100
000162060W		190565	60	15	1,5	2,12	4	3,5	100

Angles

Furniture angles

countersunk from inside

Item number	Version	GTIN 4003994	Measurements mm A	B	Thick-ness	Approx kg p. pack unit	Screws Pcs.	Ø mm	Pack. as... pcs.	Pcs./Card
000185025Z		200660	25	10	2,0	0,70	4	3,0	100	4
000185030Z		200707	30	10	2,0	0,95	4	3,0	100	4
000185040Z		200745	40	10	2,0	1,16	4	3,0	100	4
000185050ZL		200790	50	10	2,0	14,24	4	3,0	1000	4
000185040V		200721	40	10	2,0	1,15	4	3,0	100	4
092120000	V	450126	25	10	2,0	0,25	4	3,0	5	4
092121000	V	450133	30	10	2,0	0,29	4	3,0	5	4
092122000	V	450140	40	10	2,0	0,33	4	3,0	5	4
092123000	V	450157	50	10	2,0	0,32	4	3,0	5	4
092124000	Z	450799	30	10	2,0	0,29	4	3,0	5	4
092125000	Z	450782	40	10	2,0	0,34	4	3,0	5	4



SB

Adjustable angles

countersunk from inside

Item number		GTIN 4003994	Measurements mm A	B	Thick-ness	Approx kg p. pack unit	Screws Pcs.	Ø mm	Pack. as... pcs.
000165025B		250054	25	30	1,0	0,59	3	4,0	50
000165025S		251037	25	30	1,0	0,59	3	4,0	50
000165025V		250658	25	30	1,0	0,31	3	4,0	25
000165025W		250065	25	30	1,0	0,31	3	4,0	25
000174002Z		200110	25	30	1,0	0,31	3	4,0	25
000174002ZP		201940	25	30	1,0	0,84	10 à 12 Pcs.		

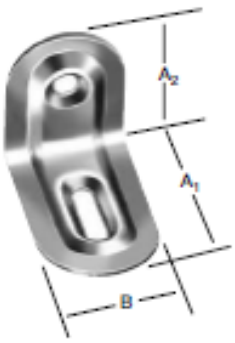
ZP=



Adjustable angles

countersunk from inside

Item number		GTIN 4003994	Measurements mm A	B	Thick-ness	Approx kg p. pack unit	Screws Pcs.	Ø mm	Pack. as... pcs.
000174001Z		200103	39 28	22	1,0	0,28	2	4,0	25
000174001W		190725	39 28	22	1,0	0,29	2	4,0	25
000174001ZP		202077	39 28	22	1,0	1,24	10 à 12 Pcs.		



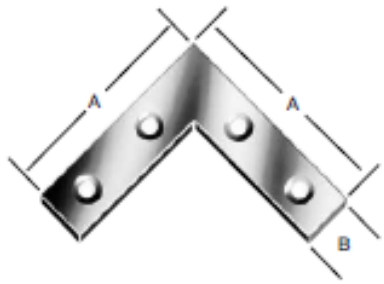
Angles

Item number	Version	GTIN 4003984	Measurements mm A	B	Thickness	Approx kg p. pack unit	Screws Pcs.	Ø mm	Pack. as... pcs.
Particle board angles countersunk from inside									
000174005Z		202046	40	19	1,5	0,39	4	3,5	25
000174005ZP		202084	40	19	1,5	1,73	VE 10 à 12 Pcs.		
ZP=									
Shelf support countersunk from inside									
000174006Z		202053	40	19	1,5	0,41	2	3,5	25
Particle board support countersunk from outside with additional elongated hole									
000174010Z		202060	40	19	1,5	0,63	4 rd. 1 ov.	3,5	25
T-shaped flat angles holes countersunk			A_1 A_2						
000189075Z		201124	70 36	16	1,5	0,98	6	3,0	50
000189125Z		201223	124 54	16	1,5	0,78	6	4.0	20
000189140Z		201926	140 80	30	2,0	2,14	6	4,5	20

Angles

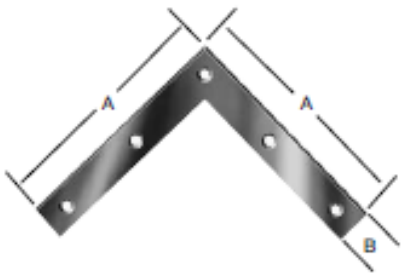
Furniture flat angles

Item number	Version	GTIN 4003984	Measurements mm A	B	Thickness	Approx kg p. pack unit	Screws Pcs.	Ø mm	Pack. as... pcs.	Pcs./Card
000186030Z		200868	30	10	1,5	0,59	4	2,5	100	4
000186040Z		200905	40	10	1,5	0,83	4	2,5	100	4
000186050Z		200943	50	10	1,5	1,11	4	2,5	100	4
000186060Z		200981	60	10	1,5	1,27	4	2,5	100	4
000186075Z		201018	75	12	1,5	2,00	4	3,0	100	4
092126000	Z	450164	30	10	1,5	0,22	4	2,5	5	4
092127000	Z	450171	40	10	1,5	0,27	4	2,5	5	4
092128000	Z	450188	50	10	1,5	0,32	4	2,5	5	4
092129000	Z	450195	60	10	1,5	0,39	4	2,5	5	4
092130000	Z	450201	75	12	1,5	0,49	4	3,0	5	4
092116000	V	450089	30	10	1,5	0,22	4	2,5	5	4
092117000	V	450096	40	10	1,5	0,27	4	2,5	5	4
092118000	V	450102	50	10	1,5	0,32	4	2,5	5	4
092119000	V	450119	60	10	1,5	0,36	4	2,5	5	4



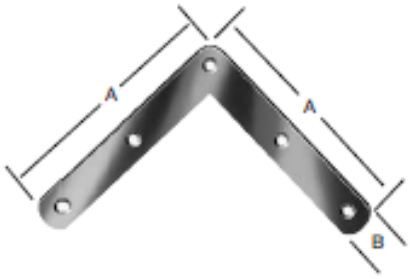
Corner angles
holes countersunk

Item number	Version	GTIN 4003984	Measurements mm A	B	Thickness	Approx kg p. pack unit	Screws Pcs.	Ø mm	Pack. as... pcs.
000187100Z		201032	100	15	1,5	0,71	5	3,0	20
000187120Z		201056	120	20	2,0	1,41	5	3,5	20
000187160Z		201070	160	22	2,5	2,74	6	4,0	20
000187200Z		201087	200	30	3,0	5,03	6	5,0	20
000187250Z		201094	250	30	3,5	3,20	5	6,0	10
000187100B		190367	100	15	1,5	0,70	5	3,0	20
000187100W		190374	100	15	1,5	0,71	5	3,0	20



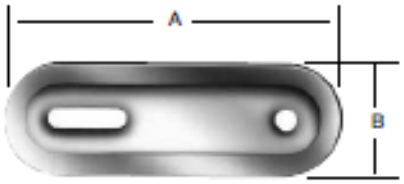
Corner angles
holes countersunk

Item number	Version	GTIN 4003984	Measurements mm A	B	Thickness	Approx kg p. pack unit	Screws Pcs.	Ø mm	Pack. as... pcs.
000188100Z		201100	100	15	1,5	0,69	5	3,5	20
000188120Z		201117	120	20	2,0	1,37	5	3,5	20
010188120	Material No. 1.4301	180597	120	20	2,0	1,36	5	3,5	20



Connection plates

Variable connecting plates
countersunk from inside



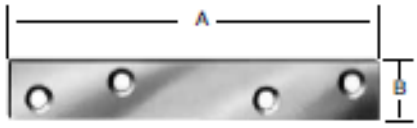
Item number	Version	GTIN 4003994	Measurement mm A	B	Thick-ness	Approx kg p. pack unit	Screws Pcs.	Ø mm	Pack. as... pcs.
000174003Z		201681	63	22	1,0	0,28	2	4,0	25

Piconect connectors
countersunk from inside



000163100C		201483	100	15	1,5	1,65	4	3,5	100
000163100V		201490	100	15	1,5	1,64	4	3,5	100

Connecting plates
holes countersunk

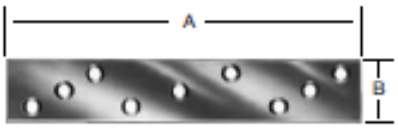


000183040Z		200486	40	15	2,0	0,94	2	3,0	100
000183050Z		200509	50	15	2,0	1,09	2	3,0	100
000183060Z		200523	60	15	2,0	1,36	2	3,5	100
000183080Z		200547	80	15	2,0	1,68	4	3,5	100
000183100Z		200561	100	15	2,0	2,15	4	3,5	100
000183120Z		200585	120	18	2,0	3,28	4	3,5	100
000183200Z		200608	200	20	2,0	6,09	4	4,0	100
000183080ZP		202091	80	15	2,0	1,42	4	3,5	10 à 8
000183100ZP		202107	100	15	2,0	1,77	4	3,5	10 à 8
ZP=									
010183100	Material No. 1.4301	180177	100	15	2,0	1,10	4	3,5	50

Connection plates

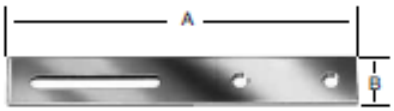
Item number	Version	GTIN 4003994	Measurements mm A	B	Thick-ness	Approx kg p. pack unit	Screws Pcs.	Ø mm	Pack. as... pcs.
000184170Z		200622	170	30	3,0	5,94	6	4,0	50
000184190Z		200639	190	35	4,0	4,00	9	5,0	20

Connecting plates
holes countersunk



000184140Z		200614	140	20	4,0	3,66	2 rd. 1 ov.	6,0 6,0	50

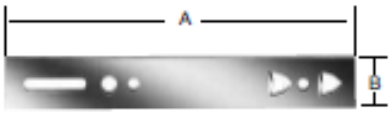
Variable connecting plates



000272140Z		290401	140	20	1,0	1,28	–	–	50

Bent grips
for wooden window frame mounting

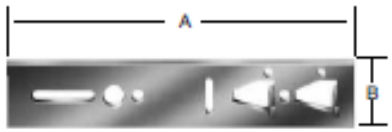
sendzimir galvanized



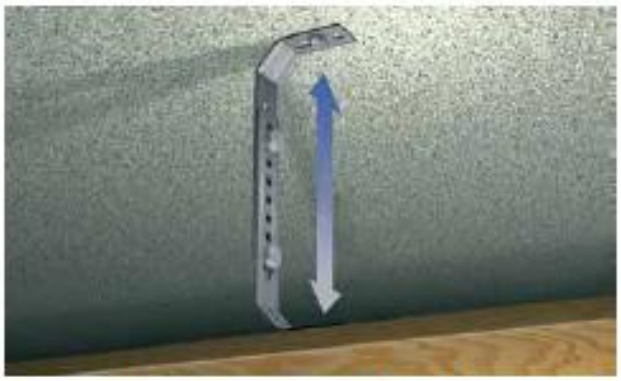
000273140Z		290609	140	25	2,0	4,56	–	–	100

Bent grips
for wooden window frame mounting

sendzimir galvanized



Adjustable angles



- All sizes can be combined with each other
- Connection of straight and angled design possible
- Additional stability when connecting through embossed material



- For many applications, e.g. for variable slopes from ceiling including cabling
- also suitable for installation of wooden and plastic windows

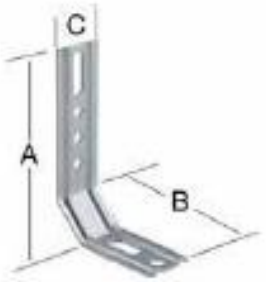
Item numbers	Version	GTIN 4003994	Measurements mm			Approx. kg p. pack unit	Screws		Pack. as... pcs.
			A	B	C		Pcs.	Ø mm	
000276050Z		252089	50	70	30	3,11	1/2	M6/ M8	150
000276060Z		251983	60	70	30	5,97	2/2	M6/ M8	150
000276070Z		251990	70	70	30	6,50	2/2	M6/ M8	150
000276080Z		252003	80	70	30	6,98	3/2	M6/ M8	150
000276090Z		252010	90	70	30	7,26	3/2	M6/ M8	150
000276100Z		252072	100	70	30	7,86	4/2	M6/ M8	150
000276110Z		252027	110	70	30	8,25	5/2	M6/ M8	150
000276120Z		252034	120	70	30	8,93	5/2	M6/ M8	150
000276130Z		252041	130	70	30	9,44	6/2	M6/ M8	150
000276140Z		252058	140	70	30	9,93	7/2	M6/ M8	150
000276150Z		252065	150	70	30	10,41	7/2	M6/ M8	150
000276050ZP		251815	50	70	30	2,85	1/2	M6/ M8	6 à 10
000276100ZP		251822	100	70	30	3,17	4/2	M6/ M8	6 à 10
000276150ZP		213202	150	70	30	4,22	7/2	M6/ M8	6 à 10



Adjustable angles
flat stamped, combinable for different purposes
sendzimir galvanized

ZP=

000277060Z		251877	60	70	30	5,48	1/2	M6/ M8	150
000277070Z		251884	70	70	30	5,98	2/2	M6/ M8	150
000277080Z		251891	80	70	30	6,55	2/2	M6/ M8	150
000277090Z		251907	90	70	30	7,02	3/2	M6/ M8	150
000277100Z		251914	100	70	30	7,32	3/2	M6/ M8	150
000277110Z		251921	110	70	30	7,80	4/2	M6/ M8	150
000277120Z		251938	120	70	30	8,25	5/2	M6/ M8	150
000277130Z		251945	130	70	30	8,94	5/2	M6/ M8	150
000277140Z		251952	140	70	30	9,44	6/2	M6/ M8	150
000277150Z		251969	150	70	30	9,94	7/2	M6/ M8	150
000277160Z		251976	160	70	30	10,45	7/2	M6/ M8	150
000277060ZP		213219	60	70	30	2,91	1/2	M6/ M8	6 à 10
000277110ZP		213226	110	70	30	3,13	4/2	M6/ M8	6 à 10
000277160ZP		213233	160	70	30	5,79	7/2	M6/ M8	6 à 10



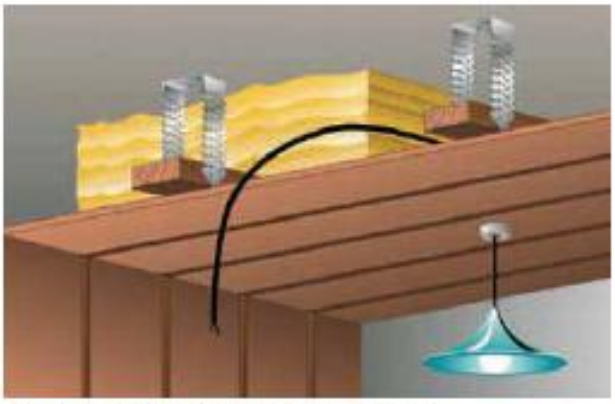
Adjustable angles
45°, flat stamped, combinable for different purposes, industrial pack
sendzimir galvanized

ZP=

Universal space connectors



Easily dress up of tubes and pipes.



For suspending and isolating from ceilings.

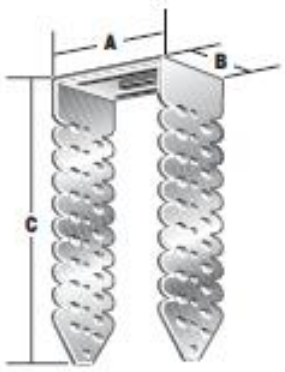


Compensate for millimeter precision to uneven walls.



Both standard sizes can be reduced individually.

Universal space connectors
sendzimir galvanized



Item numbers	Version	GTIN 4003984	Measurements mm			Approx kg p. pack unit	Screws		Pack. as... pcs.
			A	B	C		Pcs.	Ø mm	
000330065PR		290784	48	30	65	2,09	-	4,0/3,0	6 à 10
000330125PR		290760	48	30	125	3,49	-	4,0/3,0	6 à 10

Chest locks

Artikel-Nr.	Ausführung	GTIN 4003984	Abmessungen mm A	B	C	Höhe	ca. kg je VE	Schrauben Stck.	Ø mm	verp. zu... Stck.	Passende Schließhaken DIN-Form G = Nr. 8 DIN-Form K = Nr. 9 G = gerade K = gekröpft	
001202050Z		160247	52	23	Ø 3	11	0,96	2	2,5/3	50	000008015Z 000008115Z	000009015Z
001202070Z		160254	70	31	Ø 4	13	2,30	2	3/3,5	50	000008018Z	000009018Z
001202085Z		160261	87	33	Ø 4	15	3,06	2	4/4,5	50	000008018Z	000009018Z
001202105Z		160285	110	37	Ø 4	12	2,03	3	4,0	25	000008025Z	000009025Z
001202130Z		160292	138	47	Ø 5	22	4,29	3	4,5	25	000008030Z	000009030Z
011202050	1.4301	180245	52	23	Ø 3	11	0,39	2	2,5/3	20	010008115	010009015
011202070	1.4301	180252	70	31	Ø 4	13	0,94	2	3/3,5	20	010008018	010009018
011202105	1.4301	180269	110	37	Ø 4	12	1,63	3	4,0	20	010008025	010009025
092264000	Z	430272	52	23	Ø 3	11	0,26	2	2,5/3	5	mit gekröpften Schließhaken	
092265000	Z	430289	70	31	Ø 4	13	0,39	2	3/3,5	5		
091964000	1.4301	510226	52	23	Ø 3	11	0,25	2	2,5/3	5	mit gekröpften Schließhaken	



Spann-verschlüsse
mit Plombiermöglichkeit
DIN 3133

ohne Schließhaken

Stck./Karte
1
1
1

SB

Artikel-Nr.	Ausführung	GTIN 4003984	Abmessungen mm A	B	C	Höhe	ca. kg je VE	Schrauben Stck.	Ø mm	verp. zu... Stck.	Passende Schließhaken DIN-Form G = Nr. 8 DIN-Form K = Nr. 9 G = gerade K = gekröpft	
001206105Z		160322	110	37	Ø 4	30	2,52	3	4,0	25	000008025Z	000009025Z
001206130Z		160469	138	47	Ø 5	38	4,94	3	4,5	25	000008030Z	000009030Z



Spann-verschlüsse
mit Vorreiber und Schlosaöse
DIN 3133
mit Plombiermöglichkeit

ohne Schließhaken

Artikel-Nr.	Ausführung	GTIN 4003984	Abmessungen mm A	B	C	Höhe	ca. kg je VE	Schrauben Stck.	Ø mm	verp. zu... Stck.	Passende Schließhaken DIN-Form G = Nr. 8 DIN-Form K = Nr. 9 G = gerade K = gekröpft	
001209105Z		160353	110	37	Ø 4	24	2,21	3	4,0	25	000008025Z	000009025Z
001209130Z		160360	138	47	Ø 5	35	4,55	3	4,5	25	000008030Z	000009030Z
011209105	1.4301	180276	110	37	Ø 4	24	1,72	3	4,0	20	010008025	010009025



Spann-verschlüsse
mit Schlosaöse
DIN 3133
mit Plombiermöglichkeit

ohne Schließhaken

Artikel-Nr.	Ausführung	GTIN 4003984	Abmessungen mm A	B	C	Höhe	ca. kg je VE	Schrauben Stck.	Ø mm	verp. zu... Stck.	Passende Schließhaken DIN-Form G = Nr. 8 DIN-Form K = Nr. 9 G = gerade K = gekröpft	
001203000Z		160308	92/123	32	Ø5	18	4,68	3	2,0	50	000008018Z	000009018Z
011203000	1.4301	180375	92/123	32	Ø5	18	1,74	3	2,0	20	010008018	010009018



Spann-verschlüsse
mit Schraubverstellung

Verstellbereich siehe Maß A

ohne Schließhaken

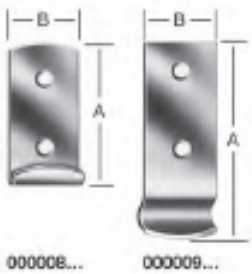
Chest locks/Fastening hooks

Artikel-Nr.	Ausführung	GTIN 4003984	Abmessungen mm				ca. kg je VE	Schrauben		verp. zu... Stck.	Passende Schließhaken DIN-Form G = Nr. 8 DIN-Form K = Nr. 9 G = gerade K = gekröpft	
			A	B	C	Höhe		Stck.	Ø mm			
Spann-verschlüsse mit Schraubverstellung Verstellbereich siehe Maß A ohne Schließhaken												
001205000Z		160452	125/145	47	Ø7	20	4,68	2	6,0	25	000008030Z	000009030Z
001207000Z		160438	153/170	47	Ø7	23	5,56	2	6,0	25	000008030Z	000009030Z
Spann-verschlüsse DIN 3134 mit Schlossöse												
001208070Z		160339	70	26	Ø4	25	2,88	3	3,0	50	000008015Z 000008115Z	000009015Z
Spann-verschlüsse DIN 3134 ohne Schließhaken												
001210070Z		160377	69	26	Ø 3,75	14	2,14	3	3,0	50	000008015Z 000008115Z	000009015Z

Gerade und gekröpfte Schließhaken für Spann-verschlüsse
DIN 3133

Gerade Form (Form G)

Gekröpfte Form (Form K)



000008... 000009...

Artikel-Nr.	Ausführung	GTIN 4003984	Abmessungen mm			ca. kg je VE	Schrauben		verp. zu... Stck.
			A	B	Stärke		Stck.	Ø mm	
000008015Z		160025	17	15	2,0	0,26	2	3,5	50
000008018Z		160049	44	18	2,0	0,72	2	3,5	50
000008025Z		160056	83	25	2,5	1,07	3	4,5	25
000008030Z		160476	112	30	3,0	1,99	3	5,0	25
000008115Z		160063	46	15	2,0	0,60	2	3,5	50
010008018		180016	44	18	2,0	0,26	2	3,5	20
010008025		180412	83	25	2,0	0,70	3	4,5	20
010008115	1.4301	180023	44	15	2,0	0,23	2	3,5	20
000009015Z		160087	46	15	2,0	0,58	2	3,5	50
000009018Z		160100	46	18	2,0	0,68	2	3,5	50
000009025Z		160131	83	25	2,5	1,08	3	4,5	25
000009030Z		160155	112	30	3,0	1,96	3	5,0	25
010009015		180030	46	15	2,0	0,24	2	3,5	20
010009018		180047	46	18	2,0	0,27	2	3,5	20
010009025	1.4301	180405	83	25	2,0	0,68	3	4,5	20

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· Toggle clamps

11

Content	Page
Horizontal toggle clamps	11.2 - 11.7
Vertical toggle clamps	11.8 - 11.15
Push-pull toggle clamps	11.16 - 11.23
Hook type toggle clamps	11.24 - 11.26

No. 6830

Horizontal acting toggle clamp

with open clamping arm and horizontal base.
Galvanized and passivated. Rivets made of stainless steel, which, for sizes 2 to 5, run in hardened bushings. Bearings are pre-lubricated.
Ergonomic, oil-resistant handle with large grip surface and soft components. Lock washer for the thrust bolt at the end of the clamping arm.
Complete with tempered, galvanized clamping screw no. 6890.

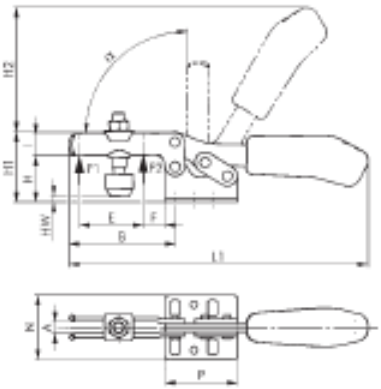
Order no.	Size	F1 [kN]	F2 [kN]	Clamping screw	Weight [g]
93005	0	0,25	0,4	M4x25	35
93013	1	0,8	1,1	M5x30	105
93021	2	1,0	1,2	M6x35	185
93039	3	1,8	2,5	M8x45	320
93047	4	2,0	3,0	M8x55	700
93054	5	3,0	5,0	M8x55	1080

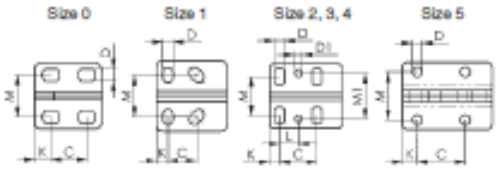
Also available in „STAINLESS STEEL" version (no. 6830NI) and in matte-black version (no. 6830B)!

Note:

For suitable sensor monitor for size 3 see no. 6897S.

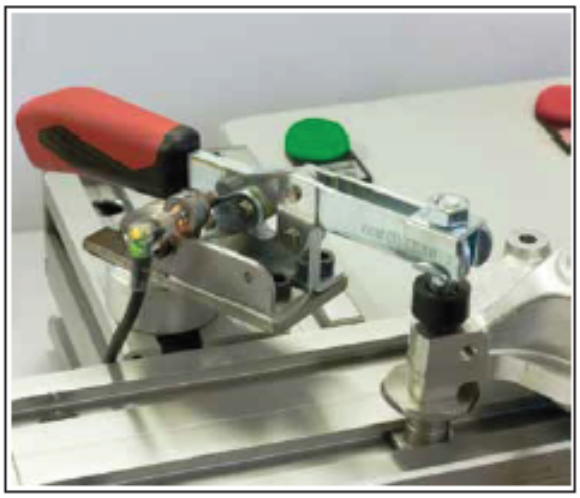






Dimensions:

Order no.	Size	A	B	C	D	D1	E	F	H	H1	H2	HW min.	HW max.	I	K	L	L1	M	M1	N	P	α
93005	0	4	28	11,5-15,5	4,6	-	9,0	5,5	14,5	23,0	34	-5,5	0,0	7,5	6,3	-	79	16,0	-	25,0	25,5	90°
93013	1	5	42	13,0-14,5	5,2	-	18,7	8,0	19,0	30,0	49	-3,0	2,5	10,0	5,5	-	120	18,0-21,5	-	34,0	34,0	90°
93021	2	6	64	26,0	5,6	5,6	32,0	16,0	24,0	45,0	68	-1,5	5,0	13,2	6,0	12,7	162	19,5-29,5	28,5	42,0	38,0	90°
93039	3	8	73	25,7	6,5	5,1	38,0	14,0	32,0	48,5	86	-2,0	9,0	15,0	7,0	13,0	206	22,0-31,8	31,6	45,5	50,0	90°
93047	4	10	113	41,0	8,5	8,5	63,0	27,0	45,0	75,0	126	-4,0	24,0	20,0	8,0	20,5	287	29,0-43,0	43,0	58,0	57,0	90°
93054	5	10	123	41,5	8,5	-	78,0	16,0	46,0	73,0	128	+1,7	25,0	25,0	12,5	-	321	41,5	-	58,0	77,0	90°



No. 6832

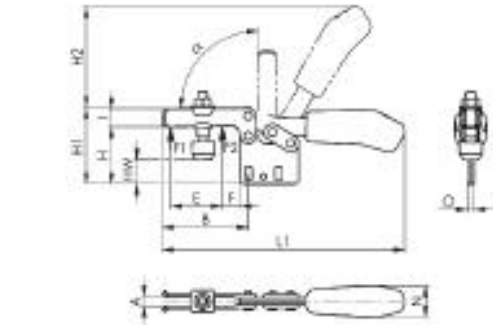
Horizontal acting toggle clamp

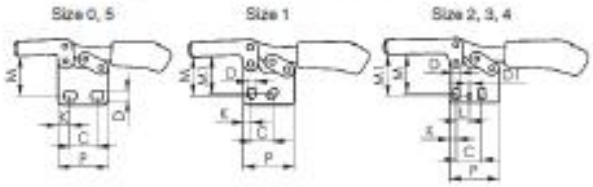
with open clamping arm and vertical base.
Galvanized and passivated. Rivets made of stainless steel, which, for sizes 2 to 5, run in hardened bushings. Bearings are pre-lubricated.
Ergonomic, oil-resistant handle with large grip surface and soft components. Lock washer for the thrust bolt at the end of the clamping arm.
Complete with tempered, galvanized clamping screw no. 6890.

Order no.	Size	F1 [kN]	F2 [kN]	Clamping screw	Weight [g]
93203	0	0,25	0,4	M4x25	35
93211	1	0,8	1,1	M5x30	105
93229	2	1,0	1,2	M6x35	185
93237	3	1,8	2,5	M8x45	320
93245	4	2,0	3,0	M8x65	700
93252	5	3,0	5,0	M8x65	1060

Also available in matte-black version (no. 6832B)!







Dimensions:

Order no.	Size	A	B	C	D	D1	E	F	H	H1	H2	HW min.	HW max.	I	K	L	L1	M	M1	N	O	P	α
93203	0	4	28	11,5-15,5	4,6	-	9,0	5	24,5	33,0	34	4,7	10,7	7,5	6,3	-	79	20,0	-	12	3	25,5	90°
93211	1	5	42	13,0-14,5	5,2	-	18,5	8	31,5	43,0	49	8,0	15,0	10,0	5,5	-	120	23,5-25,5	24,5	18	5	34,0	90°
93229	2	6	64	26,0	5,8	5,6	32,0	16	40,0	61,0	68	15,0	22,0	13,2	8,0	12,7	184	29,5-34,0	34,0	21	5	38,0	90°
93237	3	8	73	25,7	8,5	5,1	38,5	14	49,0	65,0	86	14,5	26,0	15,0	7,0	13,0	206	37,5-42,5	42,0	27	6	50,0	90°
93245	4	10	113	41,0	8,5	8,5	63,0	27	66,5	97,0	115	17,5	46,0	20,0	8,0	20,5	287	52,0-59,0	59,0	34	8	57,0	90°
93252	5	10	123	41,5	8,5	-	78,0	16	65,0	92,5	128	21,5	45,0	25,0	12,5	-	321	57,0	-	36	10	77,0	90°





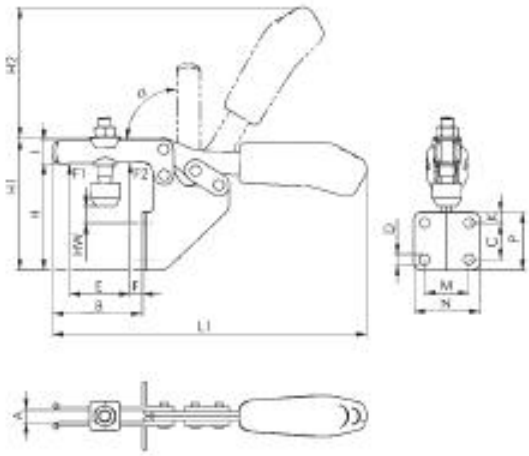
No. 6833

Horizontal acting toggle clamp

with open clamping arm and angle base.
Galvanized and passivated. Rivets made of stainless steel, which, for sizes 2 and 3, run in hardened bushings. Bearings are pre-lubricated.
Ergonomic, oil-resistant handle with large grip surface and soft components. Lock washer for the thrust bolt at the end of the clamping arm.
Complete with tempered, galvanized clamping screw no. 6890.

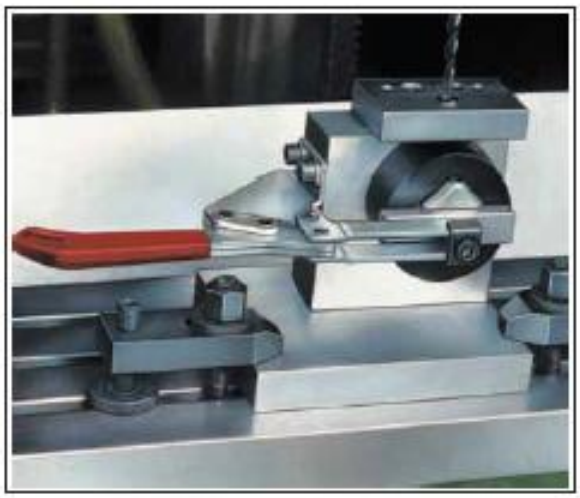
Order no.	Size	F1 [kN]	F2 [kN]	Clamping screw	Weight [g]
93179	1	0,8	1,1	M5x30	170
93328	2	1,0	1,2	M6x35	245
93336	3	1,8	2,5	M8x45	390
93542	4	2,0	3,0	M8x65	730





Dimensions:

Order no.	Size	A	B	C	D	E	F	H	H1	H2	HW min.	HW max.	I	K	L1	M	N	P	α
93179	1	5,0	32	13,5	5,2	18,5	4,0	57	68,0	49	14	20,0	10,0	8	120	19,0	31,0	28	90°
93328	2	6,2	52	20,0	5,6	32,0	10,5	73	94,0	68	22	29,5	13,2	6	162	25,5	37,0	32	90°
93336	3	8,0	59	24,0	6,8	37,0	6,5	70	86,5	86	5	16,0	15,0	7	206	28,5	42,5	38	90°
93542	4	10,0	93	32,0	8,5	63,0	15,0	102	133,0	120	11	40,0	20,0	40	262	32,0	52,0	62	90°



No. 6834

Horizontal acting toggle clamp

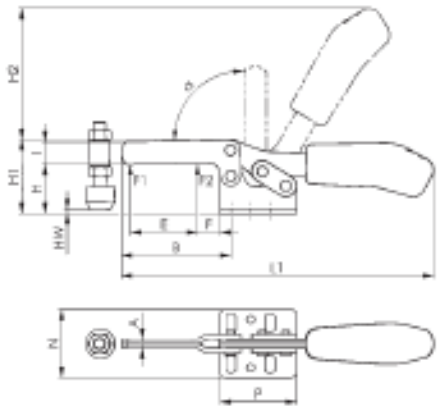
with solid arm and horizontal base.
Galvanized and passivated. Stainless steel rivets, which run in hardened bushes. Bearings are pre-lubricated.
Ergonomic, oil-resistant handle with large grip surface and soft components.
Complete with tempered, galvanized clamping screw no. 6885 and sleeve to weld on.

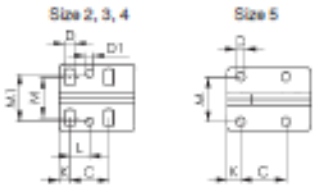
Order no.	Size	F1 [kN]	F2 [kN]	Clamping screw	Weight [g]
93427	**2**	1,0	1,2	M 6x35	185
93435	**3**	1,8	2,5	M 8x45	320
93443	**4**	2,0	3,0	M 8x65	700
93450	**5**	3,0	5,0	M12x80	1080

Note:

For suitable sensor monitor for size 3 see no. 6897S.







Dimensions:

Order no.	Size	A	B	C	D	D1	E	F	H	H1	H2	HW min.	HW max.	I	K	L	L1	M	M1	N	P	α
93427	**2**	5	63	26,0	5,6	5,6	35	16,0	24	45,0	66	-2,0	7,5	13	6,0	12,7	161	19,5-29,5	28,5	42	38	90°
93435	**3**	8	72	26,0	6,5	5,1	44	15,0	32	48,5	66	-3,5	11,0	15	7,0	13,0	205	22,0-31,8	32,0	45,5	50	90°
93443	**4**	8	111	41,0	8,5	8,5	66	26,0	45	75,0	114	-6,0	22,0	20	8,0	20,5	280	29,0-43,0	43,0	58	57	90°
93450	**5**	10	121	41,5	8,5	-	78	17,5	46	73,0	128	-13,0	12,5	25	12,5	-	320	41,5	-	58	77	90°

No. 6830B

Horizontal toggle clamp, black

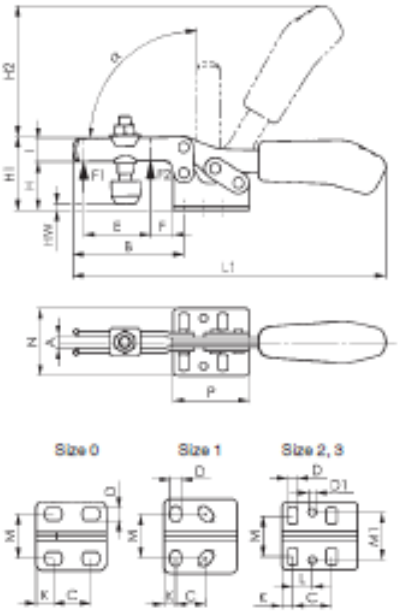
With open clamping arm and horizontal base.
Matte black surface. Rivets made of stainless steel, which, for sizes 2 and 3, run in hardened bushings. Bearings are pre-lubricated.
Ergonomic, oil-resistant black handle with large grip surface and soft components. Lock washer for the thrust bolt at the end of the clamping arm.
Complete with tempered, matte-black clamping screw no. 6890B.

Order no.	Size	F1 [kN]	F2 [kN]	Clamping screw	Weight [g]
90423	0	0,3	0,4	M4x32	35
90480	1	0,8	1,1	M5x38	105
90506	2	1,0	1,2	M6x45	185
90522	3	1,8	2,5	M8x58	320

Note:

These clamps are suitable for photogrammetric use. The matte-black surface of the clamps prevents reflection while photographing.
For suitable clamping arm extension see no. 6896.
For suitable sensor monitor for size 3 see no. 6897S.





Dimensions:

Order no.	Size	A	B	C	D	D1	E	F	H	H1	H2	HW min.	HW max.	I	K	L	L1	M	M1	N	P	α
90423	0	4	28	11,5-15,5	4,6	-	9,0	5,5	14,5	23,0	34,0	-7,9	3,1	7,5	6,25	-	79	16,0	-	25,0	25,5	90°
90480	1	5	42	13,0-14,5	5,2	-	18,8	8,0	19,0	30,0	49,0	-4,0	2,0	10,0	5,50	-	120	18,0-21,5	-	34,0	34,0	90°
90506	2	6	64	26,0	5,6	5,6	32,0	16,0	24,0	45,0	68,3	-2,5	5,0	13,2	6,00	12,7	162	19,5-29,5	28,5	42,0	38,0	90°
90522	3	8	73	25,7	6,5	5,1	37,0	14,0	32,0	48,5	86,0	-7,0	5,5	15,0	7,00	-	206	22,0-31,8	31,6	45,5	50,0	90°

No. 6832B

Horizontal toggle clamp, black

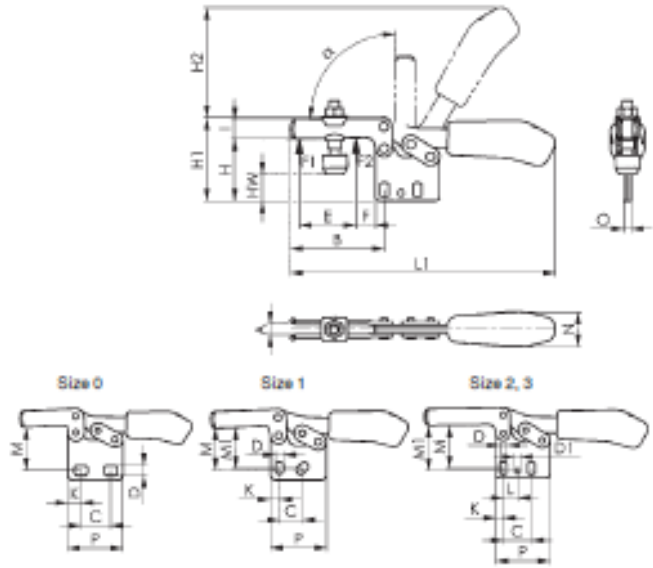
With open clamping arm and vertical base.
Matte black surface. Rivets made of stainless steel, which, for sizes 2 and 3, run in hardened bushings. Bearings are pre-lubricated.
Ergonomic, oil-resistant black handle with large grip surface and soft components. Lock washer for the thrust bolt at the end of the clamping arm.
Complete with tempered, matte-black clamping screw no. 6890B.

Order no.	Size	F1 [kN]	F2 [kN]	Clamping screw	Weight [g]
90290	0	0,3	0,4	M4x32	35
90308	1	0,8	1,1	M5x38	105
482471	1	0,8	1,1	-	95
90530	2	1,0	1,2	M6x45	185
456400	2	1,0	1,2	-	170
90381	3	1,8	2,5	M8x58	320
482497	3	1,8	2,5	-	280

Note:

These clamps are suitable for photogrammetric use. The matte-black surface of the clamps prevents reflection while photographing.
For suitable clamping arm extension see no. 6896.





Dimensions:

Order no.	Size	A	B	C	D	D1	E	F	H	H1	H2	HW min.	HW max.	I	K	L	L1	M	M1	N	O	P	α
90290	0	4	28,0	11,5-15,5	4,6	-	9,0	5,5	24,5	33	34	2,2	13,7	7,5	6,25	-	79,0	20,0	-	12	3	25,5	90°
90308	1	5	41,7	13,0-15,5	5,2	-	18,5	8,0	31,5	43	49	8,9	14,8	10,0	5,50	-	119,7	23,5-25,5	24,5	18	5	34,0	90°
482471	1	5	41,7	13,0-15,5	5,5	-	18,5	8,0	31,5	43	49	-	-	10,0	5,50	-	119,7	23,5-25,5	24,5	18	5	34,0	90°
90530	2	6	64,0	26,0	5,6	5,6	32,0	16,0	40,0	61	68	14,0	22,0	13,2	6,00	12,7	164,0	29,5-34,0	34,0	21	5	38,0	90°
456400	2	6	64,0	26,0	5,6	5,6	32,0	16,0	40,0	61	68	-	-	13,2	6,00	12,7	164,0	29,5-34,0	34,0	21	5	38,0	90°
90381	3	8	73,0	25,7	6,5	5,1	39,0	12,0	49,0	65	86	9,0	22,0	15,0	7,00	13,0	206,0	37,5-42,5	42,0	27	6	50,0	90°
482497	3	8	73,0	25,7	6,5	5,1	39,0	12,0	49,0	65	86	-	-	15,0	7,00	13,0	206,0	37,5-42,5	42,0	27	6	50,0	90°

No. 6800

Vertical acting toggle clamp

with open clamping arm and horizontal base.

Galvanized and passivated. Rivets made of stainless steel, which, for sizes 2 to 6, run in hardened bushings. Bearings are pre-lubricated.

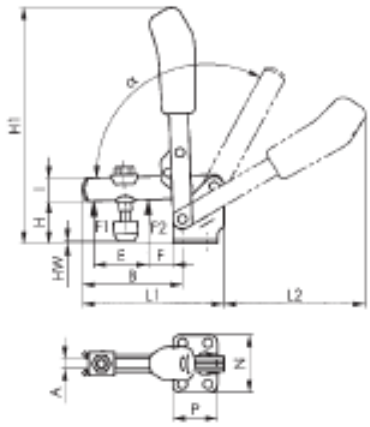
Ergonomic, oil-resistant handle with large grip surface and soft components. Safety clamping piece with finger protection, lock washer for the thrust bolt at the end of the clamping arm.

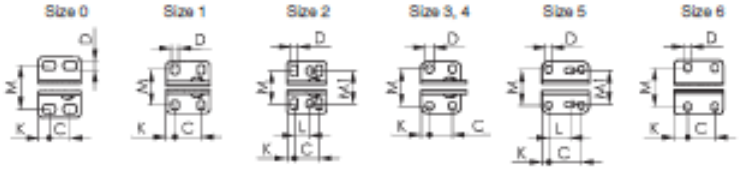
Complete with tempered, galvanized clamping screw no. 6890.

Order no.	Size	F1 [kN]	F2 [kN]	Clamping screw	Weight [g]
90001	0	0,5	0,7	M 4x 25	60
90019	1	0,6	1,1	M 5x 30	105
90027	2	0,8	1,2	M 6x 35	175
90035	3	1,2	2,5	M 8x 45	410
90043	4	1,7	3,0	M 8x 65	630
90050	5	3,0	5,0	M12x 80	1480
90068	6	3,4	5,5	M12x110	2200

Also available in „STAINLESS STEEL" version (no. 6800NI) and in matte-black version (no. 6800B)!







Dimensions:

Order no.	Size	A	B	C	D	E	F	H	H1	HW min.	HW max.	I	K	L	L1	L2	M	M1	N	P	α	α*
90001	0	4	31,0	8,5-13,5	4,5	14	5,5	18,0	81,0	-1,5	3,5	8	5,5	-	49	50	23,0	-	32	22	95°	-
90019	1	5	39,0	16,0	4,5	18	6,0	19,0	98,5	-4,0	2,0	10	5,5	-	61	59	22,5-26,0	-	35	27	95°	-
90027	2	6	52,0	20,0	5,5	25	11,0	23,0	139,5	-3,0	4,5	12	6,0	12,5	78	89	23,0-31,0	27	43	32	105°	60°
90035	3	8	79,0	20,0	7,5	37	19,0	33,0	186,0	2,0	11,0	18	7,5	-	112	112	32,5	-	46	35	105°	60°
90043	4	10	101,0	32,0	8,6	54	16,0	42,5	221,0	-6,0	22,5	20	13,0	-	141	130	43,5-46,5	-	64	53	105°	60°
90050	5	14	140,0	45,0	8,5	73	34,0	55,8	281,0	-3,0	27,5	25	9,5	26,5-31,5	195	185	45,0-50,0	45	70	65	115°	60°
90068	6	14	165,5	50,5	13,0	89	28,0	81,0	333,0	-2,5	55,0	30	24,5	-	231	206	67,5-72,5	-	100	90	140°	60°

* The opening angle can be changed by pressing in a stop pin.

No. 6802

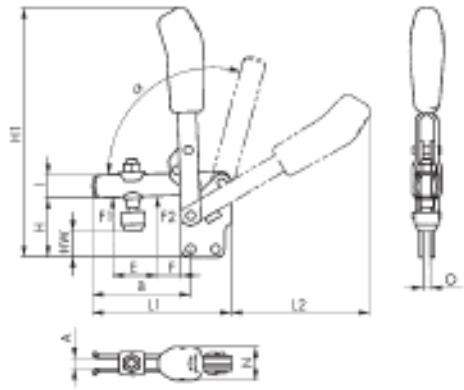
Vertical acting toggle clamp

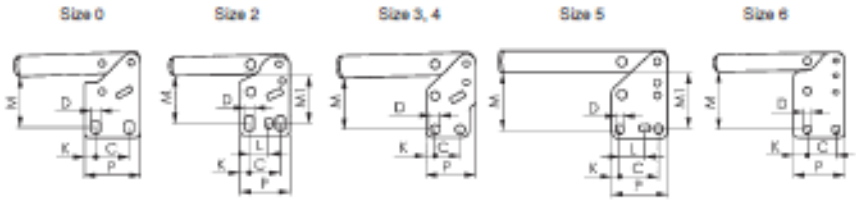
with open clamping arm and vertical base.
Galvanized and passivated. Rivets made of stainless steel, which, for sizes 2 to 6, run in hardened bushings. Bearings are pre-lubricated.
Ergonomic, oil-resistant handle with large grip surface and soft components. Safety clamping piece with finger protection. Lock washer for the thrust bolt at the end of the clamping arm.
Complete with tempered, galvanized clamping screw no. 6890.

Order no.	Size	F1 [kN]	F2 [kN]	Clamping screw	Weight [g]
90217	1	0,8	1,1	M 5x 30	105
90225	2	0,8	1,2	M 6x 35	175
90233	3	1,2	2,5	M 8x 45	410
90241	4	1,7	3,0	M 8x 65	630
90258	5	3,0	5,0	M12x 80	1480
90266	6	3,4	5,5	M12x110	2200

Also available in matte-black version (no. 6802B)!







Dimensions:

Order no.	Size	A	B	C	D	E	F	H	H1	HW min.	HW max.	I	K	L	L1	L2	M	M1	N	O	P	α	α*
90217	1	5	39	16,0	4,5	18	6	29	109,0	8,0	12,5	10	5,5	-	61	59	23,5-25,0	-	19	5	27	95°	-
90225	2	6	52	20,0	5,5	25	11	38	144,5	11,5	19,5	12	8,0	12,5	78	80	28,5-32,0	30	21	5	32	105°	60°
90233	3	8	79	20,0	7,5	36	19	48	200	16,5	25,0	18	7,5	-	112	114	41,0	-	27	6	40	105°	60°
90241	4	10	101	32,0	8,6	54	16	65	244	16,5	45,5	20	13,0	-	141	130	55,5	-	35	8	53	105°	60°
90258	5	14	140	45,0	8,5	72	35	77	301	18,0	49,0	25	9,5	26,5-31,5	195	183	66,0	64	45	10	65	115°	60°
90266	6	14	165	50,5	13,0	89	29	117	369	33,0	90,5	30	24,5	-	231	206	102,0	-	45	10	90	140°	60°

* The opening angle can be changed by pressing in a stop pin.

No. 6803

Vertical acting toggle clamp

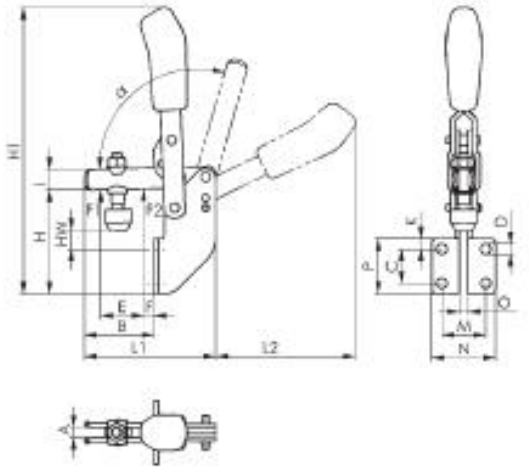
with open clamping arm and angle base.

Galvanized and passivated. Rivets made of stainless steel, which, for sizes 2 and 3, run in hardened bushings. Bearings are pre-lubricated.
Ergonomic, oil-resistant handle with large grip surface and soft components. Safety clamping piece with finger protection. Lock washer for the thrust bolt at the end of the clamping arm.
Complete with tempered, galvanized clamping screw no. 6890.

Order no.	Size	F1 [kN]	F2 [kN]	Clamping screw	Weight [g]
90316	1	0,8	1,1	M5x30	125
90324	2	1,0	1,2	M6x35	220
90332	3	1,4	2,5	M8x45	400
90340	4	2,0	3,0	M8x65	650

Also available in „STAINLESS STEEL" version (no. 6803NI).

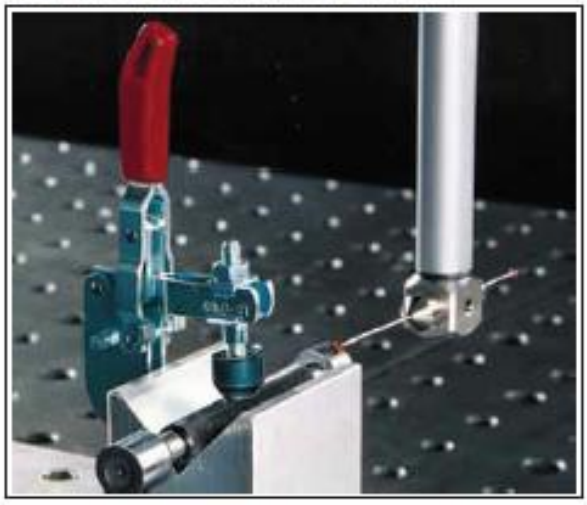




Dimensions:

Order no.	Size	A	B	C	D	E	F	H	H1	HW min.	HW max.	I	K	L1	L2	M	N	O	P	α	α*
90316	1	5	34,5	14	4,5	18	7	45	125	2,5	9,0	10	10	61	58	20,0	30,0	5	30	98°	-
90324	2	6	41,0	20	6,1	25	8	60	167	7,5	15,5	12	6	77	81	25,5	37,0	5	32	105°	60°
90332	3	8	63,0	24	6,5	37	11	71	223	9,0	17,5	18	7	111	112	28,5	42,5	6	38	105°	60°
90340	4	10	84,0	32	8,5	54	11	102	280	11,0	40,0	20	54	141	129	32,0	52,0	8	96	105°	60°

*The opening angle can be changed by pressing in a stop pin.





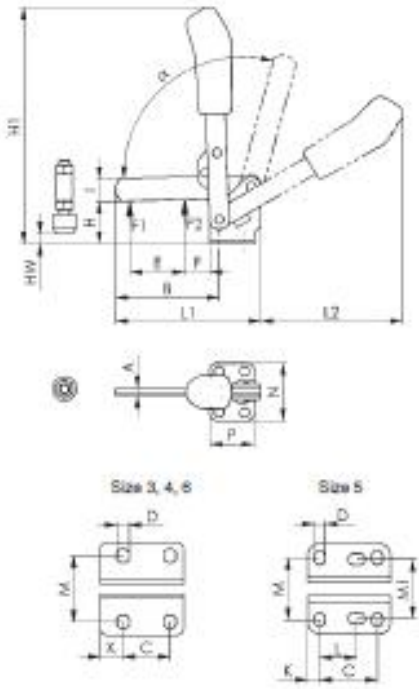
No. 6804

Vertical acting toggle clamp

with solid arm and horizontal base.
Galvanized and passivated. Stainless steel rivets, which run in hardened bushes. Bearings are pre-lubricated.
Ergonomic, oil-resistant handle with large grip surface and soft components. Safety clamping piece with finger protection.
Complete with tempered, galvanized clamping screw no. 6885 and sleeve to weld on.

Order no.	Size	F1 [kN]	F2 [kN]	Clamping screw	Weight [g]
90431	3	1,4	2,5	M8x45	340
90449	4	2,0	3,0	M8x65	585
90456	5	3,0	5,0	M12x80	1480
90464	6	3,5	5,5	M12x110	2200





Dimensions:

Order no.	Size	A	B	C	D	E	F	H	H1	HW min.	HW max.	I	K	L	L1	L2	M	M1	N	P	α	α*
90431	3	6	81,0	20,0	7,5	43	19,5	33,5	186	0	12,0	18	7,5	-	108,5	116,5	32,5	-	46	35	105°	60°
90449	4	8	101,0	32,0	8,8	61	17,0	42,5	221	-8	21,0	20	13,0	-	141,5	129,5	45,0	-	64	53	105°	60°
90456	5	10	141,0	45,0	8,5	88	30,5	55,5	281	-6	25,5	25	9,5	26,5-31,5	196,5	184,0	45-50	45	70	65	115°	60°
90464	6	10	166,5	50,5	13,0	90	20,5	61,0	331	-5	51,0	30	24,5	-	232,0	206,0	68-72	-	100	90	140°	60°

* The opening angle can be changed by pressing in a stop pin.





No. 6806

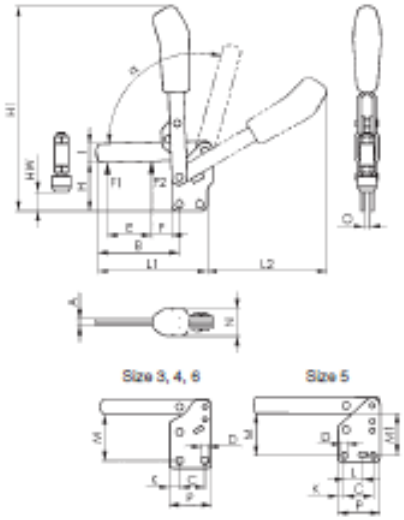
Vertical acting toggle clamp

with solid arm and vertical base.

Galvanized and passivated. Stainless steel rivets, which run in hardened bushes. Bearings are pre-lubricated.
Ergonomic, oil-resistant handle with large grip surface and soft components. Safety clamping piece with finger protection.
Complete with tempered, galvanized clamping screw no. 6885 and sleeve to weld on.

Order no.	Size	F1 [kN]	F2 [kN]	Clamping screw	Weight [g]
90555	3	1,4	2,5	M 8x 45	400
90563	4	2,0	3,0	M 8x 65	585
90571	5	3,0	5,0	M12x 80	1480
90589	6	3,5	5,5	M12x110	2200





Dimensions:

Order no.	Size	A	B	C	D	E	F	H	H1	HW min.	HW max.	I	K	L	L1	L2	M	M1	N	O	P	α	α*
90555	3	6	81,0	20,0	7,5	43	19,5	48	200	14,5	26,0	18	7,5	-	108,5	116,0	41,0	-	27	6	35	105°	60°
90563	4	8	101,0	32,0	8,6	61	17,0	65	244	13,0	44,0	20	13,0	-	141,5	129,5	55,5	-	34	8	53	105°	60°
90571	5	10	141,0	45,0	8,5	88	30,5	77	302	15,0	47,0	25	9,5	26,5-31,5	196,5	184,0	66,0	64	36	10	65	115°	60°
90589	6	10	166,5	50,5	13,0	90	20,5	117	369	28,5	86,5	30	24,5	-	232,0	206,0	102,0	-	39	10	90	140°	60°

*The opening angle can be changed by pressing in a stop pin.

No. 6805

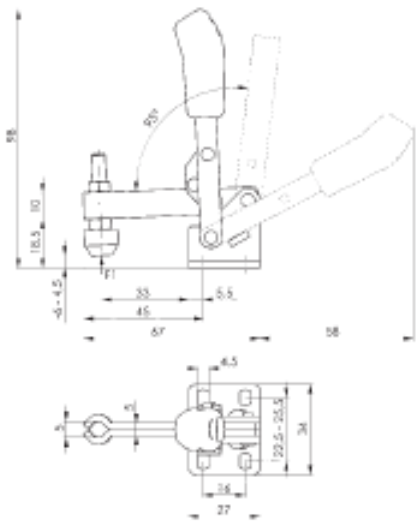
Vertical acting toggle clamp

clamping arm with fixed distance of clamping screw and horizontal base.

Galvanized and passivated. Stainless steel rivets. Bearings are pre-lubricated.
Ergonomic, oil-resistant handle with large grip surface and soft components. Safety clamping piece with finger protection.
Complete with tempered, galvanized clamping screw no. 6885.

Order no.	Size	F1 [kN]	Clamping screw	Weight [g]
90514	1	1	M5x30	100





No. 6811P

Heavy vertical toggle clamp

with horizontal base.

Reamed and case-hardened bearing bushes. Hardened, ground and permanently-lubricated pins. Clamp nuts on lever arm to vary friction in movement. Material: steel, blued. Lever arm made of cast steel, blued. Handle of red, oil-resistant plastic.

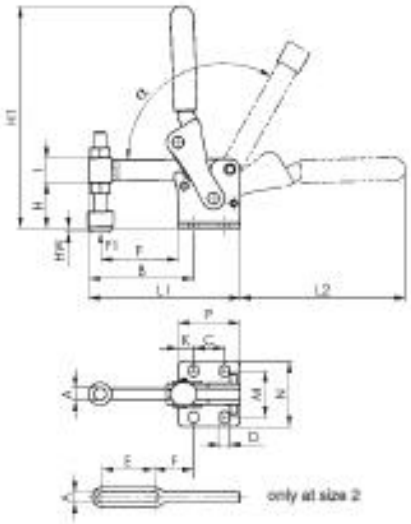
Complete with tempered, galvanized clamping screw no. 6885.

Order no.	Size	F1 [kN]	Clamping screw	Weight [g]
91314	2	2,5	M 6x 50	320
90878	4	5,0	M12x 80	1250
90886	6	6,0	M12x110	2130
90894	8	12,0	M12x110	4050

Note:

These heavy vertical toggle clamps are especially suitable for production equipment and fixtures.





Dimensions:

Order no.	Size	A	B	C	D	E	F	H	H1	HW min.	HW max.	I	K	L1	L2	M	N	P	α
91314	2	8,1	57	20	7,1	30	21	25	127	-13,5	8	15	8,5	85	94	32	47	37	120°
90878	4	12,2	100	30	8,5	-	75	44	216	-19,0	14	24	15	146	160	45	65	60	120°
90886	6	12,2	95	45	10,5	-	95	65	283	-22,0	35	30	15	181	185	52	78	75	120°
90894	8	12,2	151	55	12,5	-	120	71	303	-10,0	41	36	20	226	203	75	106	95	120°





No. 6812P

Heavy vertical toggle clamp

with vertical base and mounting holes.

Reamed and case-hardened bearing bushes. Hardened, ground and permanently-lubricated pins. Clamp nuts on lever arm to vary friction in movement. Material: steel, blued. Lever arm made of cast steel, blued. Handle of red, oil-resistant plastic.

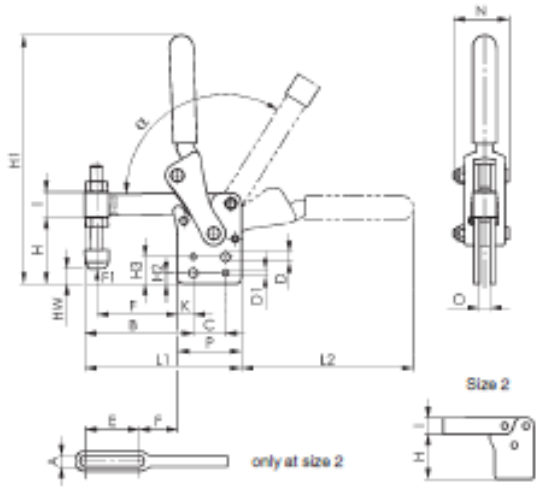
Complete with tempered, galvanized clamping screw no. 6885.

Order no.	Size	F1 [kN]	Clamping screw	Weight [g]
91330	2	2,5	M 6x 50	320
90902	4	10,0	M12x 80	1320
90910	6	12,0	M12x110	2120
90928	8	20,0	M12x110	4060

Note:

These heavy vertical toggle clamps are especially suitable for production equipment and fixtures.





Dimensions:

Order no.	Size	A	B	C	D	D1	E	F	H	H1	H2	H3	HW min.	HW max.	I	K	L1	L2	N	O	P	α
91330	2	6,2	48	-	-	-	30	12	42,0	144	-	-	3,5	22,8	15	-	85	94	31	6	37	190°
90902	4	12,2	101	30	8,5	5,7	-	75	62,0	233	10	25	-1,0	35,0	24	15	146	161	52	10	60	120°
90910	6	12,2	121	45	10,5	7,7	-	95	87,5	289	15	35	0,0	58,0	30	15	181	189	60	12	75	120°
90928	8	12,2	151	55	12,5	9,7	-	120	106,0	338	15	40	25,0	76,0	36	20	226	219	76	16	95	120°

No. 6802B

Vertical toggle clamp, black

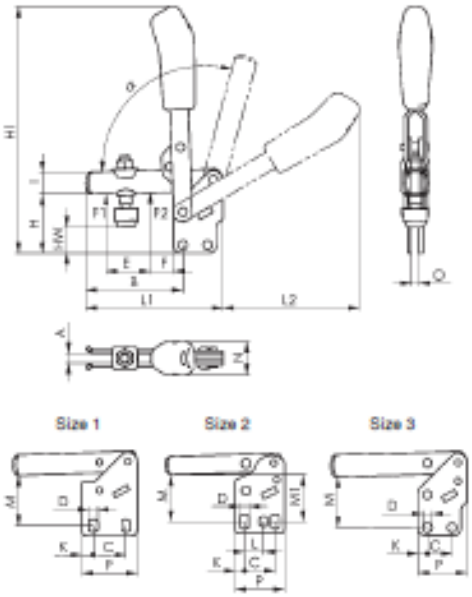
With open clamping arm and vertical base.
Matte black surface. Rivets made of stainless steel, which, for sizes 2 and 3, run in hardened bushings. Bearings are pre-lubricated.
Ergonomic, oil-resistant black handle with large grip surface and soft components. Safety clamping piece with finger protection. Lock washer for the thrust bolt at the end of the clamping arm.
Complete with tempered, matte-black clamping screw no. 6890B.

Order no.	Size	F1 [kN]	F2 [kN]	Clamping screw	Weight [g]
90415	1	0,6	1,1	M5x38	105
90472	2	0,8	1,2	M6x46	175
90498	3	1,2	2,5	M8x63	410

Note:

These clamps are suitable for photogrammetric use. The matte-black surface of the clamps prevents reflection while photographing.
For suitable clamping arm extension see no. 6896.





Dimensions:

Order no.	Size	A	B	C	D	E	F	H	H1	HW min.	HW max.	I	K	L	L1	L2	M	M1	N	O	P	α	α*
90415	1	5	39	16	4,5	18	6	29	110,5	6,8	12	10	5,5	-	61	58	23,5-25	-	19	5	27	95°	-
90472	2	6	52	20	5,5	25	11	38	144,5	10,5	19	12	6,0	12,5	78	80	28,5-32	30	21	5	32	105°	60°
90498	3	8	79	20	7,5	36	19	48	201,0	11,4	22	18	7,5	-	112	113	41	-	27	6	40	105°	60°

* The opening angle can be changed by pressing in a stop pin.

No. 6841B

Push-pull type toggle clamp, black

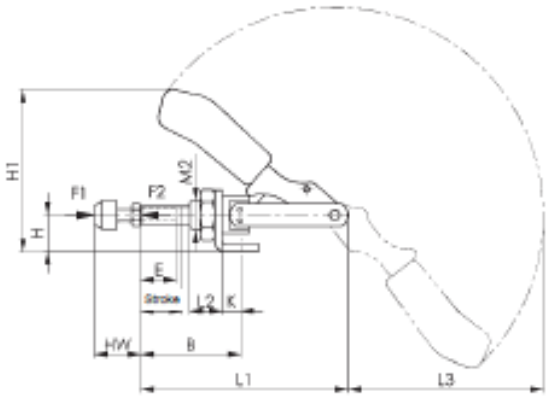
With small angle base. Push- and pull-clamping. (Equal operation of rod and lever). Long rod-guide with attaching thread and nut. Matte black surface. Stainless steel rivets. Lever-parts and rod of tempered steel. Bearings are pre-lubricated. Ergonomic, oil-resistant black handle with large grip surface and soft components. Lever can be set to any angle relative to base. **Complete with tempered, matte-black clamping screw no. 6880B.**

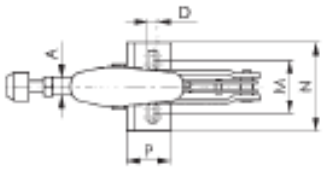
Order no.	Size	F1 [kN]	F2 [kN]	Clamping screw	Weight [g]
90548	1	1,0	1,0	M4x20	125
91280	2	2,0	2,0	M6x25	245

Note:

These clamps are suitable for photogrammetric use. The matte-black surface of the clamps prevents reflection while photographing.







Dimensions:

Order no.	Size	A	B min.	B max.	D	E	H	H1	Stroke	HW min.	HW max.	K	L1	L2	L3	M	M2	N	P
90548	1	8,0	24,5	44,5	4,5	20	15	60	20	12	20	7,0	91	16	72	16,0-19,5	M12x1,5	30	20
91280	2	10,0	32,5	57,5	5,6	25	20	95	26	17	25	12,5	114	19	105	31,8-36,0	M16x1,5	50	34

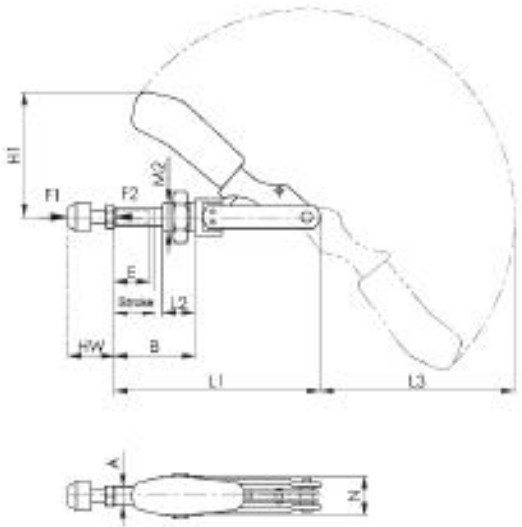
No. 6840

Push-pull type toggle clamp

without angle base. For push- and pull-clamping. (Equal operation of rod and lever). Long rod-guide with attaching thread and nut. Galvanized and passivated. Rivets made of stainless steel, which, for sizes 2 and 3, run in hardened bushings. Lever-parts and rod of tempered steel. Bearings are pre-lubricated. Push-pull toggle clamp with threaded front for direct mounting in vertical metal plates or in fixtures. Ergonomic, oil-resistant handle with large grip surface and soft components. **Complete with tempered, galvanized clamping screw no. 6880.**

Order no.	Size	F1 [kN]	F2 [kN]	Clamping screw	Weight [g]
93906	0	0,8	0,8	M 4x20	60
93914	1	1,0	1,0	M 4x20	100
93922	2	2,0	2,0	M 6x25	245
93930	3	2,5	2,5	M 8x35	330
93955	5	4,5	4,5	M12x50	700
94359	5-M27	4,5	4,5	M12x50	720





Dimensions:

Order no.	Size	A	B min.	B max.	E	H1	Stroke	HW min.	HW max.	L1	L2	L3	M2	N
93906	0	6,5	10,5	26,5	13	37,0	16	12	20	66,5	10	54	M10x1,0	15,0
93914	1	8,0	17,5	37,5	20	45,5	20	12	20	91,0	16	74	M12x1,5	18,0
93922	2	10,0	20,0	46,0	20	66,0	26	17	25	114,0	19	105	M16x1,5	22,0
93930	3	12,0	24,0	56,0	30	82,5	32	22	35	140,0	22	127	M20x1,5	27,0
93955	5	16,0	26,5	66,5	50	99,0	40	30	50	171,5	25	158	M24x1,5	34,5
94359	5-M27	16,0	26,5	66,5	50	99,0	40	30	50	171,5	25	158	M27x2,0	34,5





No. 6841

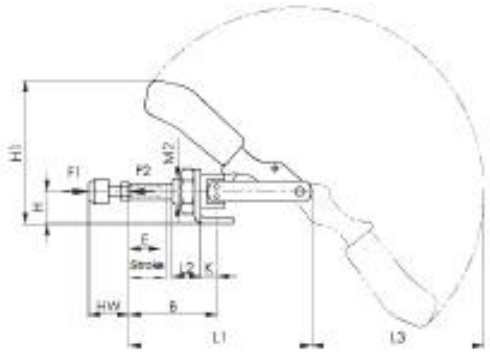
Push-pull type toggle clamp

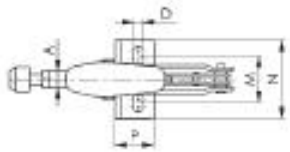
with small angle base. For push- and pull-clamping. (Equal operation of rod and lever). Long rod-guide with attaching thread and nut. Galvanized and passivated. Rivets made of stainless steel, which, for sizes 2 and 3, run in hardened bushings. Lever-parts and rod of tempered steel. Bearings are pre-lubricated. Lever can be set to any angle relative to base. Ergonomic, oil-resistant handle with large grip surface and soft components.
Complete with tempered, galvanized clamping screw no. 6880.

Order no.	Size	F1 [kN]	F2 [kN]	Clamping screw	Weight [g]
94094	0	0,8	0,8	M 4x20	65
94110	1	1,0	1,0	M 4x20	125
94128	2	2,0	2,0	M 6x25	245
94136	3	2,5	2,5	M 8x35	445
94151	5	4,5	4,5	M12x50	880
94367	5-M27	4,5	4,5	M12x50	900

Also available in „STAINLESS STEEL" version (no. 6841NI) and in matte-black version (no. 6841B)!







Dimensions:

Order no.	Size	A	B min.	B max.	D	E	H	H1	Stroke	HW min.	HW max.	K	L1	L2	L3	M	M2	N	P
94094	0	6,5	17,0	30,0	4,5	13	12	49,3	16	12	20	6,5	86,5	10	54,0	16,0	M10x1,0	25	16
94110	1	8,0	24,5	44,5	4,5	20	15	60,5	20	12	20	7,0	91,0	16	74,0	16,0-19,5	M12x1,5	30	20
94128	2	10,0	32,5	58,5	5,5	20	20	85,5	26	17	25	12,5	114,0	19	105,0	31,8-36,0	M16x1,5	50	34
94136	3	12,0	37,0	69,0	6,5	30	25	108,0	32	22	35	13,0	140,0	22	127,5	29,5-42,5	M20x1,5	60	30
94151	5	16,0	41,5	81,5	8,5	50	30	129,5	40	30	50	15,5	171,5	25	158,0	29,0-46,0	M24x1,5	65	35
94367	5-M27	16,0	41,5	81,5	8,5	50	30	129,5	40	30	50	15,5	171,5	25	158,0	29,0-46,0	M27x2,0	65	35



No. 6843

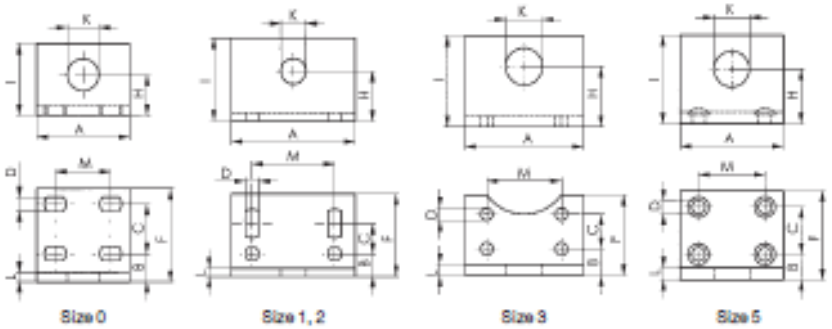
Angle base, solid

for no. 6840 and no. 6844. Increased range of application due to enlarged height of center line. Fastening by means of 4 screws.

Order no.	Size	A	B	C	D	F	H	I	K	L	M	Weight [g]
94003	0	30	9,0	16,0	4,5	30	13	23	10,2	3	15,5-20,5	35
94011	1	60	11,0	11-18	6,7	40	24	40	12,2	4	40,0	135
94029	2	60	11,0	11-18	6,7	40	24	40	16,2	5	40,0	160
94037	3	65	14,5	19,0	6,7	44	33	50	20,2	6	41,0	235
94052	5	70	17,0	32,0	9,0	60	37	60	24,0	8	45,0	450
94391	5-M27	70	17,0	32,0	9,0	60	37	60	27,0	8	45,0	440

Also available in „STAINLESS STEEL" version (no. 6843NI).





No. 6845

Push-pull type toggle clamp

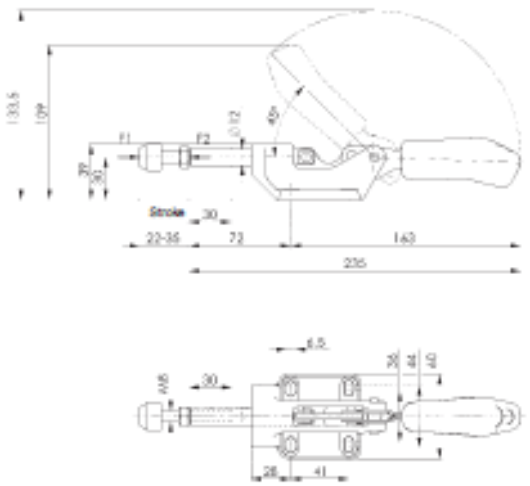
Push-type clamp.
(Opposed operation of rod and lever). Version with long rod-guide. Base of malleable casting, varnished. Toggle parts and push rod are heat-treated steel, galvanized and passivated. Stainless steel rivets, which run in hardened bushes. Bearings are pre-lubricated. Ergonomic, oil-resistant handle with large grip surface and soft components.
Complete with tempered, galvanized clamping screw no. 6880-3.

Order no.	Size	F1 [kN]	Clamping screw	Weight [g]
94243	3	4	M8x35	540

Advantage:

- Low height in clamped position
- Compatible with AMF push-pull toggle clamp no. 6842-3





No. 6844

Push-pull type toggle clamp

short version. For push- and pull-clamping.
Long rod-guide with attaching thread and nut. Galvanized and passivated. Stainless steel rivet. Shoulder screws tempered. Bearings are pre-lubricated.
Ergonomic, oil-resistant handle with large grip surface and soft components.
Complete with tempered, galvanized clamping screw no. 6880.

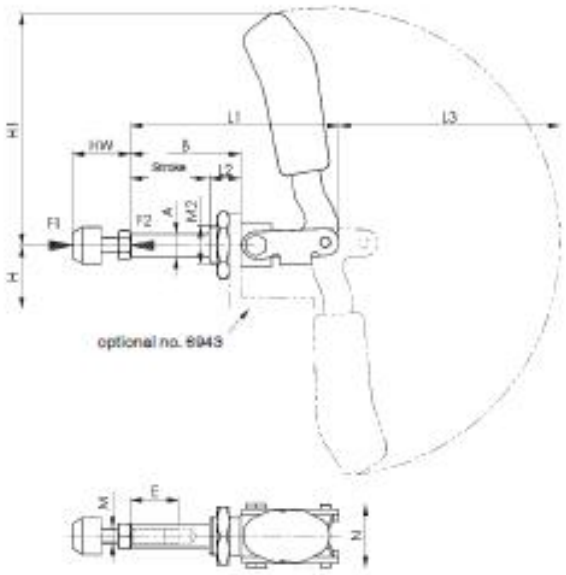
Order no.	Size	F1 [kN]	F2 [kN]	Clamping screw	Weight [g]
94300	2	1,0	1,0	M 8x25	130
94318	3	2,5	2,5	M 8x35	320
94334	5	4,0	4,0	M12x50	1200
92676	5-M27	4,0	4,0	M12x50	1200

Also available in „STAINLESS STEEL" version (no. 6844NI).

Application:

Toggle for direct fit up in metal plates or fixtures, using its front attaching thread or by means of solid base angle no. 6843.





Dimensions:

Order no.	Size	A	B	E	H	H1	Stroke	HW min.	HW max.	L1	L2	L3	M	M2	N
94300	2	10	36	15	24	73	21,5	17	25	68,5	13	68	M6	M16x1,5	30,5
94318	3	12	57	25	33	123	40,0	22	35	106,0	16	115	M8	M20x1,5	33,0
94334	5	16	92	45	37	149	67,0	30	50	175,0	24	139	M12	M24x1,5	49,0
92676	5-M27	16	92	45	37	149	67,0	30	50	175,0	24	139	M12	M27x2,0	49,0



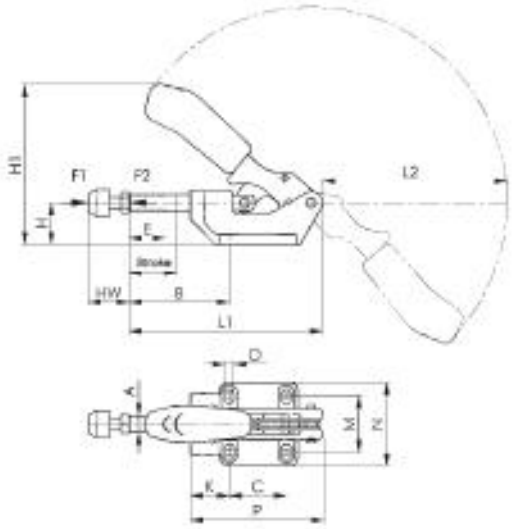
No. 6842

Heavy push-pull type toggle clamp

For push- and pull-clamping.
(Equal operation of rod and lever). Heavy-duty version with long rod-guide. Base of malleable casting, varnished. Toggle parts and push rod are heat-treated steel, galvanized and passivated. Rivets made of stainless steel, which, for size 3, run in hardened bushings. Bearings are pre-lubricated.
Ergonomic, oil-resistant handle with large grip surface and soft components for size 3 and 5.
Complete with tempered, galvanized clamping screw no. 6880.

Order no.	Size	F1 [kN]	F2 [kN]	Clamping screw	Weight [g]
94235	3	4	4	M 8x35	540
94250	5	10	10	M12x50	1115
94278	7	25	25	M12x50	2840





Dimensions:

Order no.	Size	A	B min.	B max.	C	D	E	H	H1	Stroke	HW min.	HW max.	K	L1	L2	M	N	P
94235	3	12	40	72	41	6,5	30	30	116,0	32	22	35	28	139	135	36-44	60	95
94250	5	16	58	98	41	8,5	50	38	137,5	40	30	50	45	174	156	41-50	71	121
94278	7	22	59	105	70	11,0	50	55	179,0	50	30	50	45	218	192	57-65	93	158





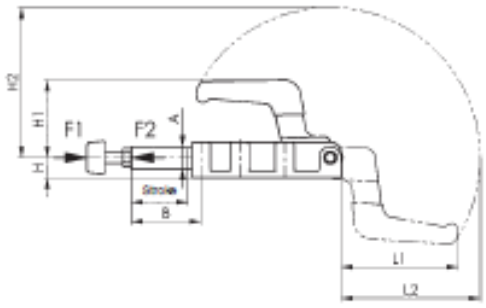
No. 6842PK

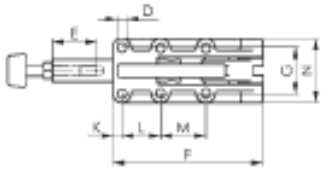
Heavy push-pull type toggle clamp

with solid lever. For push- and pull-clamping.
(Equal operation of rod and lever). Heavy-duty version with long rod-guide. Base of malleable casting, burnished. Hardened pins. Lever-parts and rod of tempered steel, burnished. Handle made of red, oil-resistant plastic.
Complete with tempered, galvanized clamping screw no. 6880.

Order no.	Size	F1 [kN]	F2 [kN]	Clamping screw	Weight [g]
92544	4	7	7	M 8x35	590
92569	5	12	12	M10x50	1650
92585	7	25	25	M12x50	4150
92601	8	45	45	M16x80	7420







Dimensions:

Order no.	Size	A	B	D	E	F	G	H	H1	H2	Stroke	K	L	L1	L2	M	N
92544	4	14	63	5,5	30	90	33,3	12	42,5	96	32	25,0	36,5	69,0	88,0	-	47
92569	5	20	63	8,5	50	137	41,0	18	70,0	136	50	8,0	35,0	106,0	126,0	41	58
92585	7	25	114	10,5	50	198	54,0	22	93,5	196	75	12,0	45,0	151,5	183,5	45	84
92601	8	30	149	10,5	60	254	57,0	28	111,5	247	100	14,5	70,0	196,0	232,0	70	86

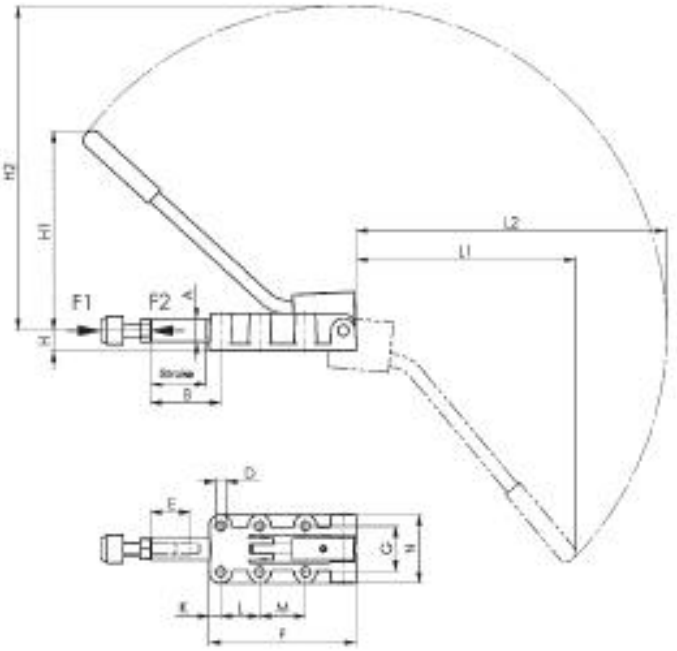
No. 6842PL

Heavy push-pull type toggle clamp

with reversible lever. For push- and pull-clamping. (Equal operation of rod and lever). Heavy-duty version with long rod-guide. Base of malleable casting, burnished. Hardened pins. Lever parts and rod made of tempered steel, burnished. Zinc-coated and passivated lever with handle made of red oil-resistant plastic.
Complete with tempered, galvanized clamping screw no. 6880.

Order no.	Size	F1 [kN]	F2 [kN]	Clamping screw	Weight [g]
92627	4	7	7	M 8x35	850
92643	5	12	12	M10x50	1800
92668	7	25	25	M12x50	4280
92684	8	45	45	M16x80	7720





Dimensions:

Order no.	Size	A	B	D	E	F	G	H	H1	H2	Stroke	K	L	L1	L2	M	N
92627	4	14	63	5,5	30	90	33,3	12	115,0	190,0	32	25,0	36,5	128	182	-	47
92643	5	20	83	8,5	50	137	41,0	18	178,5	290,5	50	8,0	35,0	197	279	41	58
92668	7	25	114	10,5	50	198	54,0	22	246,0	392,0	75	12,0	45,0	267	374	45	84
92684	8	30	149	10,5	80	254	57,0	28	323,0	523,0	100	14,5	70,0	365	501	70	88

No. 6847

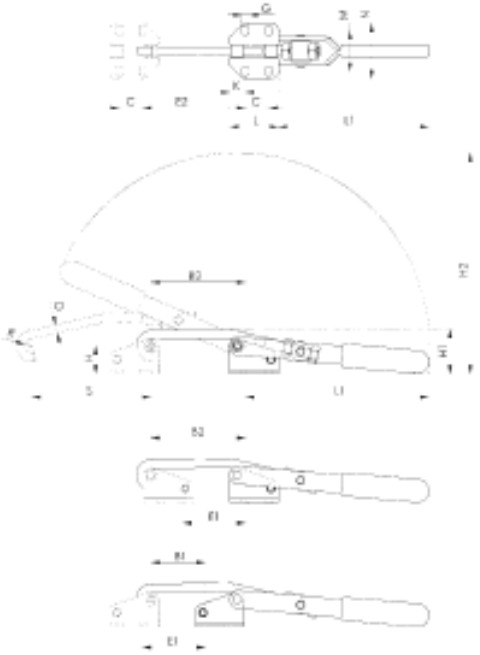
Hook type toggle clamp

Galvanized and passivated. Bushes case hardened and greased; rivets of stainless steel. Hook and clamping sleeve tempered. Handle made of red, oil-resistant plastic. Ergonomic, oil-resistant handle with large grip surface and soft components for size 1.

Order no.	Size	F1 [kN]	Adjustm. distance [mm]	Weight [g]
94524	1	2	8	100
94540	3	3	12	270
94565	5	5	14	850

Also available in „STAINLESS STEEL" version (no. 6847NI).





Dimensions:

Order no.	Size	B1	B2	C	D	E1	E2	G	H	H1	H2	K	L	L1	M	N	R	S
94524	1	16-23	35-42	19	5,30	17-24	35-42	4,5	22,7	34,5	111	6	31	62,6	26,0-30,0	40	4,5	45
94540	3	32-44	65-77	19	7,10	39-51	72-84	5,5	22,7	36,0	181	13	40	123,5	31,5-35,5	45	5,5	96
94565	5	26-40	57-71	29	10,75	27-42	58-73	11,2	49,0	69,0	282	13	55	189,5	55,5-63,0	86	8,0	147

No. 6847G

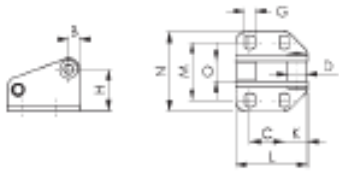
Counter catch

for no. 6847. Galvanized and passivated. Bushes case hardened; rivet of stainless steel.

Order no.	Size	Height [mm]	Length [mm]	Weight [g]
94623	1	29	31	40
94649	3	29	40	70
94664	5	61	55	320

Also available in „STAINLESS STEEL" version (no. 6847GNI).





Dimensions:

Order no.	Size	B	C	D	G	H	K	L	M	N	O
94623	1	6	19	8	4,5	22,7	6	31	26,0-30,0	40	6,9
94649	3	6	19	10	5,5	22,7	13	40	31,3-35,8	45	10,9
94664	5	12	29	15	11,2	49,1	13	55	56,5-64,0	86	13,8

No. 6848V

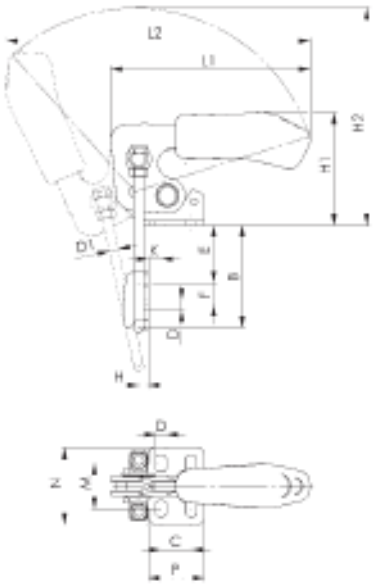
Hook type toggle clamp vertical

Galvanized and passivated. Stainless steel rivets, which run in hardened bushes. Tempered hook. Bearings are pre-lubricated. Ergonomic, oil-resistant handle with large grip surface and soft components.
Supplied complete with counter catch.

Order no.	Size	F1 [kN]	Weight [g]
94755	2	1,8	130
94763	3	3,2	340
94771	4	7,0	810

Also available in „STAINLESS STEEL" version (no. 6848VNI).





Dimensions:

Order no.	Size	B min.	B max.	C	D	D1	E min.	E max.	F	H	H1	H2	K	L1	L2	M	N	P
94755	2	24,0	49	13	5,2	4	5	30	11	4,5	47,0	99	6,4	91	158	19,5-23,5	38,0	28,0
94763	3	34,5	64	19	6,5	6	7	38	14	6,0	70,0	138	8,0	125	190	24,5-32,0	48,0	35,0
94771	4	43,0	81	32	8,5	8	9	47	19	8,0	94,5	188	9,5	151	239	35,0-46,0	64,5	53,5

No. 6849PH

Heavy hook type toggle clamp

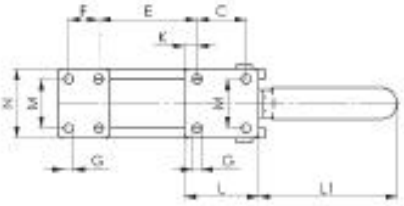
for high retaining force.

Pins hardened, ground and permanently-lubricated. Circlips are used to retain pins in bearing bushes, and to centre the clamping pin. Foot, lever arm and catch are made of cast steel and blued. Stirrup, pins and nuts are heat-treated and zinc-plated. Handle grip is red, oil-resistant plastic.

Supplied complete with counter catch.

Order no.	Size	F1 [kN]	Adjustm. distance [mm]	Weight [g]
93849	4	15	52	2830
93856	5	27	60	4020







Dimensions:

Order no.	Size	B	C	D	E	F	G	H	H1	K	L	L1	M	N	S
93849	4	42-107	45	10	24-90	28	8,5	26	122	12,0	68	130	45	64	44
93856	5	49-114	57	12	28-93	35	10,5	32	146	12,5	86	164	57	82	47





· Transport

12

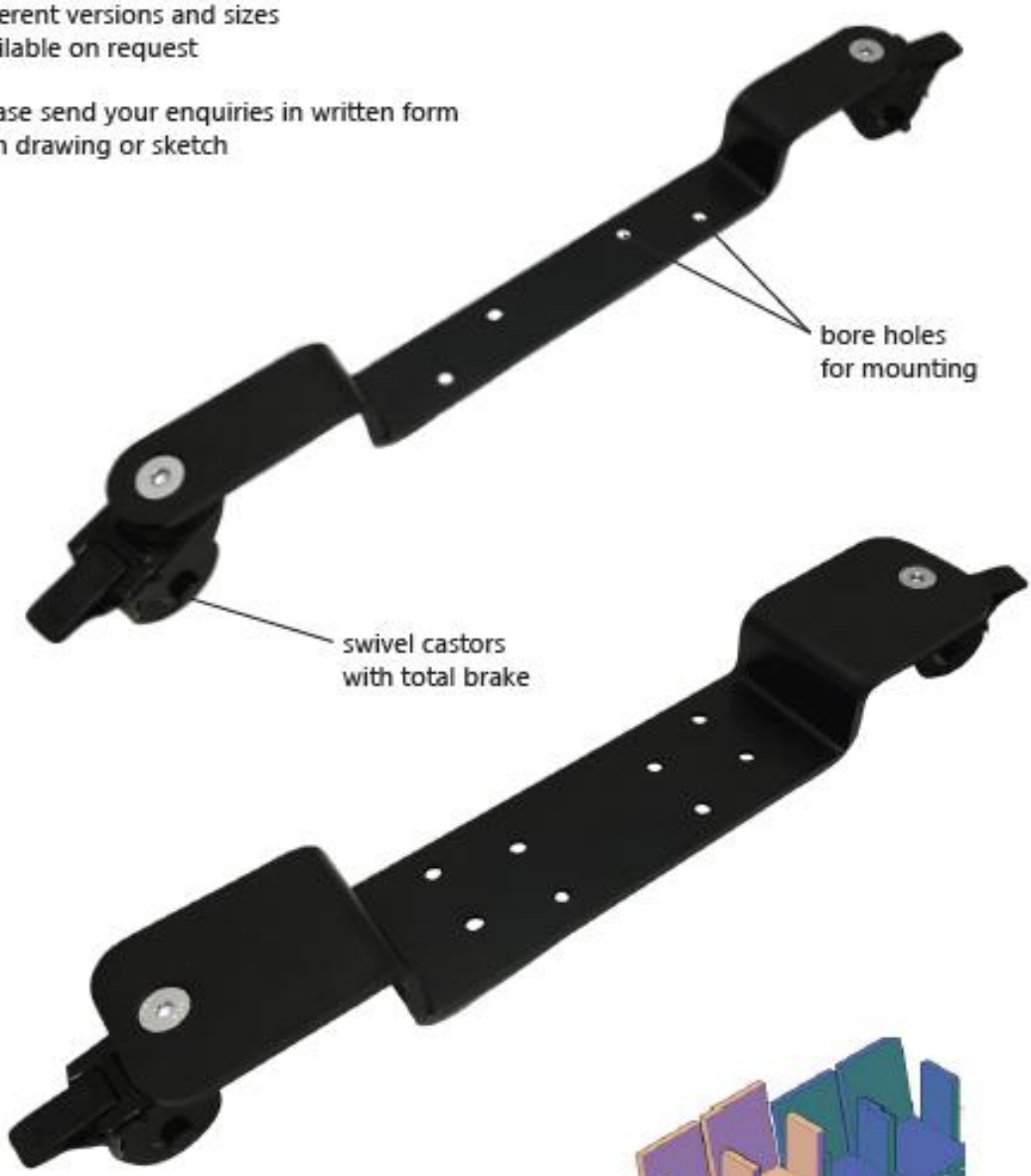
Content	Page
Trolleys, Light Tables, Box Charts	12.3 - 12.10
Carts and dollies for sheet material / Trolleys for sheet material	12.11 - 12.12
Trolleys for sheet material / Trolleys with carrier spars	12.13 - 12.14
Sheet metal dump trucks / Trolleys and industrial trailers for long goods	12.15 - 12.16
Tubular steel trucks / Chair trucks	12.17 - 12.19
Pallet trucks / Steel bottle trolleys	12.20 - 12.21
Pallet trucks	12.20
Dollies for furniture / Rolls / Rollers	12.23 - 12.24

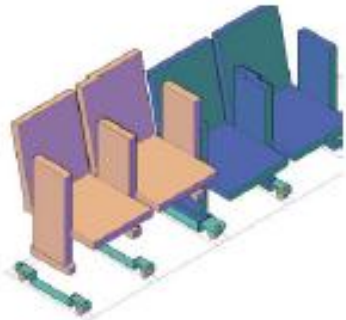
Theatre Style - Roller

Roller with black swivel castors with brake
for mounting under rows of chairs

different versions and sizes
available on request

Please send your enquiries in written form
with drawing or sketch





Sample Application

TÜV Rheinland Industrie Service GmbH
Am Grauen Stein • D-51105 Köln

Damit ergibt sich eine max. Tragfähigkeit im Bereich Bühnen und Studios in Anlehnung an die BGI 810-3

Betriebskoeffizienten (Sicherheitsbeiwerte) für Anschlagmittel (ohne Mitbewertung der dynamischen Vorgänge)

	Nach 9. GPSGV (MRL) Anhang 1		Betriebskoeffizient gemäß BGV C1
	Betriebskoeffizient 9. GPSGV Anhang 1 4.1.2.5	Verdoppelter Betriebskoeffizient nach Anhang 1 6.1.2	Eigensicherheit BGI 810-3
Drahtseile	5	10	10*
Ketten	4	8	8
Textilfasern Seile/Gurte	7	14**	14**
Andere Metallteile	4***	8	8

Tabelle 1

*) Für Drahtseile als Anschlagmittel beträgt der Betriebskoeffizient 12, aufgrund der Berücksichtigung der betriebsmäßig auftretenden dynamischen Vorgänge.

**) Nur mit zusätzlicher metallischer Sicherung.

***) Spezielle Verbindungselemente, zum Beispiel Schäkel nach DIN 82101, haben einen geringeren Betriebskoeffizienten, siehe auch Tabelle 6 c.

Gewählt wird der Betriebskoeffizent von 8 in Anlehnung an die Tabelle „andere Metallteile". Es wird davon ausgegangen das die Ringe nicht als Einzelaufhängepunkte genutzt werden. Anwendung der Ringe.

	Eigensichere Ausführung mit Betriebskoeffizient 8	**Konstruktion mit redundanter Ausführung (das Versagen eines Aufhängepunktes führt Konstruktionsbedingt nicht zum Absturz der Last) mit Betriebskoeffizient 4**
max. Last je Ring bei Aufhängung in Holz	**40 N**	**80 N**

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TÜV Rheinland Industrie Service GmbH
Am Grauen Stein • D-51105 Köln

Zusätzliche Hinweise zu Verbesserung der Sicherheit:

Allgemeine Angaben:

- Einsatz unter welchen Umgebungsbedingungen (z. B. –20°C bis 60°C)
- Kennzeichnung der Ringe / Lasche in Bezug auf die max. Tragfähigkeit
- Ablegereife mit in die Bedienungsanleitung aufnehmen (Verschleiß,- und Prüfkriterien für den Verwender).

Geschäftsfeld Förder- und
Maschinentechnik, Aufzüge

Köln, 10. Mai 2011

Ermächtigter Sachverständige nach BGV C1

i.V. Dipl.-Ing. Laenger

TÜV-Test Report

Security Clamp

Prüfbericht-Nr.: *Test Report No.:*	**21274265_001**	**Auftrags-Nr.:** *Order No.:*	3223829	Seite 1 von 5 *Page 1 of 5*
Kunden-Referenz-Nr.: *Client Reference No.:*	N/A	**Auftragsdatum:** *Order date:*	13.06.2017	
Auftraggeber: *Client:*	Räder-Busch GmbH , Elbestr. 19 , D-47800 Krefeld			
Prüfgegenstand: *Test item:*	Prospektklemme			
Bezeichnung / Typ-Nr.: *Identification / Type No.:*	Rundprofilzange (Kundenbezeichnung Prospektklemme)			
Auftrags-Inhalt: *Order content:*	Belastungsprüfung nach Kundenwunsch			
Prüfgrundlage: *Test specification:*	Belastungsprüfung nach Kundenwunsch			

Wareneingangsdatum: *Date of receipt:*	14.06.2017
Prüfmuster-Nr.: *Test sample No.:*	A000165469-001
Prüfzeitraum: *Testing period:*	28.06.2017 – 28.06.2017
Ort der Prüfung: *Place of testing:*	Am Grauen Stein 29 53505 Köln
Prüflaboratorium: *Testing laboratory:*	TÜV Rheinland LGA Products GmbH
Prüfergebnis*: *Test result*:*	Pass



geprüft von / *tested by:*

Datum *Date*	Name / Stellung *Name / Position*	Unterschrift *Signature*
29.06.2017	B. Tempel / LL	

kontrolliert von / *reviewed by:*

Datum *Date*	Name / Stellung *Name / Position*	Unterschrift *Signature*
29.06.2017	F. Holdinghausen	

Sonstiges / *Other:*
Angeliefert wurde lediglich die Rundprofilzange ohne Befestigungsschäkel, Verpackung und Anleitung.
Auslobung des Hakens mit 340Kg.

Zustand des Prüfgegenstandes bei Anlieferung: Prüfmuster vollständig und unbeschädigt
Condition of the test item at delivery: *Test item complete and undamaged*

* Legende:	1 = sehr gut P(ass) = entspricht o.g. Prüfgrundlage(n)	2 = gut	3 = befriedigend F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	4 = ausreichend N/A = nicht anwendbar	5 = mangelhaft N/T = nicht getestet
Legend:	*1 = very good* *P(ass) = passed a.m. test specification(s)*	*2 = good*	*3 = satisfactory* *F(ail) = failed a.m. test specification(s)*	*4 = sufficient* *N/A = not applicable*	*5 = poor* *N/T = not tested*

Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.
This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.
vbl

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Prüfbericht-Nr.: 21274265_001
Test Report No.:

Liste der verwendeten Prüfmittel
List of used test equipment

Prüfmittel *Test equipment*	**Prüfmittel-Nr. / ID-Nr.** *Equipment No. / ID-No.*	**Nächste Kalibrierung** *Next calibration*
Maßband	07770	10/2018
Messschieber	10172	01/2019
Waage	01727	07/2018
Kraftmessdose	01652	04/2019
Messkraftverstärker	09505	11/2017
Die Prüfung erfolgte am 28.06.2017 in Labor GU 40-41.		

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Prüfbericht-Nr.: 21274265_001
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Produktbeschreibung
Product description

1	**Produktdetails** *Product details*	Rundprofilzange (Kundenbezeichung Prospektklemme)
2	**Maße / Gewicht** *Dimensions / Weight*	L x B x H Klemme offen: 132 x 141 x 40 [mm], L x B x H Klemme zu: 145 x 90 x 40 [mm], Gewicht: 707 g, Materialstärke: 6 mm
3	**Bedienelemente** *Operating elements*	Klauen- Rundprofil mit Rückholfeder und Bolzenöffnung
5	**Sonstiges** *Other*	Prüfaufbau des Belastungsversuches siehe Abschnitt 1 des Berichtes.

Bild 1: Vollansicht geschlossen



Bild 2: Kennzeichnung



Bild 3: Vollansicht offen



Bild 4: Vollansicht offen



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Absatz *Clause*	**Belastungsprüfung nach Kundenwunsch** Anforderungen - Prüfungen / *Requirements - Tests*	Messergebnisse - Bemerkungen *Measuring results - Remarks*	Bewertung *Evaluation*
1	**Prüfbeschreibung / Prüfaufbau** Vorbereitung zur Prüfung: Zur Prüfung wurde die Rundprofilzange in ein Stahlrohr mit einer Länge von 489 mm und einem Durchmesser von 50 mm (Wandstärke 3,3 mm) in die Klaue der Profilzange eingesetzt. Gesichert wurde die Klaue mit einem Schäkel nach DIN 82101 mit einem Bolzendurchmesser von 10mm. Die Lasteinleitung erfolgt über den Schäkel mittels einer Rundschlinge. Diese Zusammenstellung (Rundprofilzange, Schäkel; Rundschlinge) wird im nachfolgenden Bericht mit System beschrieben.		
1	**Belastungsprüfung**		
1.1	**Prüfung mit Nennlast**		
	Das Produkt wird mit der Nennlast für 10 Minuten belastet und wird danach auf Beschädigungen überprüft die das Produkt beeinträchtigen. Bei der Nennlastprüfung dürfen keine visuellen Verformungen / Beschädigung feststellbar sein.	Das Produkt ist gekennzeichnet mit einer Nennlast von 340 kg. Während der Belastung des Systems mit der Nennlast wurde keine Verformungen und keine Beschädigung festgestellt.	P ☒ F ☐ N/A ☐ N/T ☐
1.2	**Prüfung Überlast**		
	Das Produkt wird im Anschluß der Prüfung nach Abschnitt 1.1 stufenweise in 500 kg Schritten bis zu einer 3,5- fachen Nennlast belastet. Die Überlast ist über einen Zeitraum von 15 min zu halten. Bei der Überlastprüfung dürfen keine visuellen Verformungen / Beschädigung feststellbar sein.	Das System wurde stufenweise bis zu einer 3,5-fachen Nennlast (1190 kg) beaufschlagt. Die Belastung konnte für 15 min. ohne erkennbare Beschädigungen / Verformung aufgenommen werden.	P ☒ F ☐ N/A ☐ N/T ☐

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Prüfbericht-Nr.: 21274265_001
Test Report No.:

Absatz *Clause*	**Belastungsprüfung nach Kundenwunsch** Anforderungen - Prüfungen / *Requirements - Tests*	Messergebnisse - Bemerkungen *Measuring results - Remarks*	Bewertung *Evaluation*
1.3	**Prüfung Bruchlast**		
	Das Produkt wird im Anschluß der Prüfung nach Abschnitt 1.2 stufenweise in 500 kg Schritten belastet, bis eine Funktionsbeeinträchtigung bzw. ein Versagen eines der belasteten Bauteile festgestellt wird. Sollten bis zu einer 5- fachen Überlastprüfung der Nennlast des Lastaufnahmemittels kein Versagen oder Beschädigung des Produktes bzw. der belasteten Bauteile erkennbar sein, kann die Prüfung abgebrochen werden.	Im Anschluß an die Prüfung nach Abschnitt 1.2 wurde die Last stufenweise, bis auf die 5 - fache Nennlast (1700kg) erhöht. Hierbei wurden keine Beschädigungen am System festgestellt. Bei einer Belastung mit 2000 kg wurde der Versuch abgebrochen, ohne dass ein Bruch bzw. ein Materialversagen festgestellt werden konnte. Lediglich eine Vebiegung des Schäkelbolzens war erkennbar. Anmerkung: Der Schäkel gehört nicht zum Lieferumfang des vorgestellten Produktes.	P ☒ F ☐ N/A ☐ N/T ☐

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