

Spare parts and components

900



Spare rollers to pipe and cable laying rollers

Spare rollers to drum unwinding devices KTA 2A and KTA 7

Spare claws to shaft cover lifters

Spare rope drum for pilot rope winch SBS 500

Spare sleeves to piston for duct ID-ID 28-40 mm

Spare balls to piston for duct-ID 28-250 mm

Spare parts to conduit rods

Spare parts to swivels

Spare parts to drum lifting devices

Spare parts to cable trailers

Spare parts to cable pulling winches

Spare cups for cable blowing equipment

Spare parts to UltimaZ ULV 20

Spare pulleys to conductor changing pulleys DRG 2 and DRG 3

Spare pulleys to insulated overhead line pulleys D 80-580 mm

Spare parts to alu-snatch blocks

Spare parts to overhead line swivels

Shackles high tensile, bolt D 22-38 mm

Spare parts to cable winding machines



Spare rollers for cable laying

Sheet steel roller galv., with ball bearings and axle, M 12

Spare rollers for existing cable rollers or for fitting in any customer made product

Code	Type	Roller for	OD/ID/L	SWL	kg
020240106	KRL 1S	KRS 1/ERS 3 a.o.	120/76/145	150 kg	1,58



Spare rollers for cable laying

Sheet steel roller galv., with ball bearings and axle, M 12

Spare rollers for existing cable rollers or for fitting in any customer made product

Code	Type	Roller for	OD/ID/L	SWL	kg
020241407	KRQR 1S	KRQ 1/ERQ 3/TRS 1-300	120/76/185	150 kg	1,95



Spare rollers for cable laying

Alu-roller with sintered bronze friction bearing, for axle-D 16 mm, without axle

Spare rollers for existing cable rollers or for fitting in any customer made product

Code	Type	Roller for	OD/ID/L	SWL	kg
020230105	CAL 1A	CA 1 A	90/50/100	150 kg	0,60



Spare rollers for cable laying

Alu-roller with sintered bronze friction bearing, for axle-D 16 mm, without axle

Spare rollers for existing cable rollers or for fitting in any customer made product

Code	Type	Roller for	OD/ID/L	SWL	kg
020241105	KRL 1A	KRA 1 and curve rollers	125/60/150	150 kg	1,40



Spare rollers for cable laying

Cast steel roller with sintered bronze friction bearing, for axle-D 16 mm, without axle

Spare rollers for existing cable rollers or for fitting in any customer made product

Code	Type	Roller for	OD/ID/L	SWL	kg
020230107	CAL 1S	SET 60-130	85/50/100	150 kg	1,38



Spare rollers for cable laying

Cast steel roller with sintered bronze friction bearing, for axle-D 16 mm, without axle

Spare rollers for existing cable rollers or for fitting in any customer made product

Code	Type	Roller for	OD/ID/L	SWL	kg
020241107	KRL 1G	SET 140-180	125/60/146	500 kg	2,70



Spare axle set

Axle set D 16 mm, compl. with nuts and sleeves, to CAL 1 and KRL 1, for alu- or cast steel rollers

Spare axle set for existing cable rollers

Code	Type	Axle for	Axle-D/L	kg
020230111	ACA 1	CAL 1A+CAL 1S	16/155	0,26
020241111	AKR 1	KRL 1A+KRL 1G	16/205	0,36

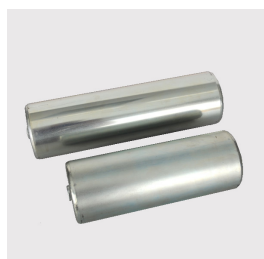


Spare rollers for cable laying

Polyamide roller, with friction bearings for axle-D 20 mm, without axle

Spare rollers for existing cable rollers or for fitting in any customer made product

Code	Type	Roller for	OD/ID/L	SWL	kg
020110106	TRPL 1-500	TRP 1-500	115/75/200	200 kg	2,54



Spare rollers for cable laying

Steel roller cylindrical, with ball bearings, galvanized. Diameter 80 mm, capacity 400 kg

Spare rollers for existing cable rollers or for fitting in any customer made product

Code	Type	Roller for	Roller for	Roll-/Fitt-L	SWL	kg
092488448	TRG 80-216	KRS 1-170	EWS 3-110	216/222	400 kg	2,25
092488460	TRG 80-275	KRS 1-220	EWS 3-170	275/281	400 kg	2,72
092488465	TRG 80-594	KRS 1-600	--	594/600	400 kg	8,00



Spare rollers for cable laying

Spare roller alu, basic roller with integrated axle

Spare rollers for existing cable rollers or for fitting in any customer made product

Code	Type	Roller for	Mat.	OD/ID/L	SWL	kg
020250100	KRLB 3A	Basis KR 3+ER 4	Alu	60/50/60/99	200 kg	0,80
020250105	KRLS 3A	Side KR 3	Alu	60/30/60/99	200 kg	0,47
020250130	TRLS 3A	Side TKR 3	Alu	60/30/43/99	200 kg	0,45



Spare corner bearing

Alu-corner bearing, special hardened

Spare alu-corner bearing for existing cable rollers

Code	Type	Bearing for	Mat.	kg
020250160	KRAL 3A	KR 3+TKR 3	Alu	0,36



Spare corner bearing

Alu-corner bearing, to frame rollers

Spare alu-corner bearing for existing cable rollers

Code	Type	Bearing for	Mat.	kg
020213105	ERA 4-100A	ER 4-100 A	Alu	0,36



Spare-locking bolt for ERA 4-100

Spare-locking bolt with splint to frame roller ERA 4-100A

Code	Type	For	Mat.	kg
020213109	Locking bolt	ERA 4-100A	Steel	0,10



Spare rollers for cable laying

Steel roller cylindrical, with ball bearings, galvanized

Spare rollers for existing cable rollers or for fitting in any customer made product

Code	Type	Roller for	D/L	Fitting-L	SWL	kg
092488140	TRG 30-86	SWF 400	30/86	95	30 kg	0,13
092488160	TRG 30-160	SWF 400	30/160	169	30 kg	0,30
092488240	TRG 40-136	PRK 3-85	40/136	155	150 kg	0,44
092488383	TRG 60-194	KSR 200	60/194	220	120 kg	1,10
092488420	TRG 60-492	KR 500	60/492	518	240 kg	2,50
092488430	TRG 60-750	KR 750	60/750	776	240 kg	3,80



Spare rollers for cable laying

Steel roller cylindrical, high-wattage, with ball bearings, galvanized. Complete with axle and screws

Spare rollers for frame rollers or for fitting in any customer made product

Code	Type	Roller for	Mat.	D/L	SWL	kg
020213710	ERRL 4-190	ER 4-100-150	Steel	55x190	500 kg	1,95
020214510	ERRL 4-200	ER 4-200	Steel	55x250	500 kg	2,47

020214710	ERRL 4-250	ER 4-250	Steel	55x300	500 kg	3,50
020215210	ERRL 4-300	ER 4-300	Steel	55x350	500 kg	4,00



Spare rollers for cable laying

Cast steel roller with friction bearing, for axle-D 25 mm, without axle

Spare rollers for existing cable rollers or for fitting in any customer made product

Code	Type	Roller for	OD/ID/B	Groove-D	SWL	kg
020270105	SKL 1S	SKS+SKD 1	200/120/100	90	1000 kg	5,80

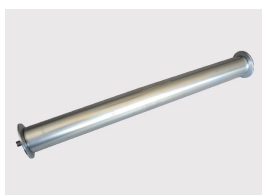


Spare rollers

Alu-roller high-wattage to cable drum-unwinder KTA 2, complete with ball bearings and axles, without screws

Spare rollers for existing cable rollers or for fitting in any customer made product

Code	Type	Roller for	OD/ID/B	Groove-W	SWL	kg
032071001	KTAM 2A	KTA 2 A	120/68/105	82	500 kg	1,67



Spare rollers

Steel roller cylindrical with ball bearings, galvanized to cable drum-unwinder KTA 7, with ball bearings and axle

Spare rollers for existing cable rollers or for fitting in any customer made product

Code	Type	Roller for	D/L	Fitting-L	SWL	kg
092488320	TRG 50-540	KTA 7	50/540	565	80 kg	1,50



Spare roller

Spare-steel roller to different lead-in tubes KEK, to cable tray rollers PRK and others, with polyamide bearings, without axle

Code	Type	For	For	D/L mm	kg
026253107	KEKL	KEK 80	KLM 110	42/83	0,17
020981105	KEKL	KEK 90	---	42/92	0,23
027481105	KEKL	KEK 100	KSR 590	42/103	0,21
020984105	KEKL	KEK 120	---	42/121	0,26
020988105	KEKL	KEK 140	---	42/143	0,28
027858105	KEKL	PRK 3-100	KEK 150	42/149	0,31
020989105	KEKL	KEK 150	KEK 150	42/153	0,30
027857105	PRKL	PRK 3-100	PRV 4-100	42/190	0,39



Spare claw set

Claw set forged steel for cover lifter DHZ 20

Code	Type	Spare part for	kg
020712110	DHZK 20	DHZ 20	0,80



Spare claw set

Claw set forged steel for cover lifter DHZ 20

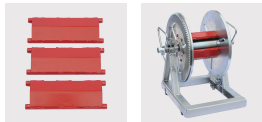
Code	Type	For	For	kg
020720110	DHFK 06	DHZ 10	DHF 06	1,15



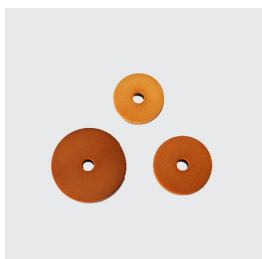
Accessories to pilot rope winches

Steel rope drum alone, divisible for coiling cords, ropes or cable rings, suitable to pilot rope winches SBS 500 with V-belt. Dimension D 410/100x210 mm, for rope up to 1100 m D 4 mm, or 750 m D 5 mm. For coiling rings there will be mounted 3 segments into the drum. Order drum support with foot brake separately.

- Suitable to pilot rope winches SBS 500 supplied before August 20014.
- With the drums it is possible to blow ropes without the winch.
- The drum support is equipped with a foot brake to control the pay-out of the rope.
- With built-in segment stronger pulls than 1 kN are not possible.
- The segments must only be used for coiling cords or small cables.



Code	Type	Accessory	Detail	kg
232752	SWT 500	Drum alone	D 410x100x210	37,50
232322	TRS 208	Segment	3 needed	1,10
232340	TWG 510	Drum support	with foot brake	11,00



Spare sleeves to piston

Polyurethane-sleeves to pistons MKO and for duct calibre with transmitter MKV

Code	Type	Spare part for	Size	D-ID	kg
023451103	PSL 28	MKO 28+MKV 25	D 28/8x8	27-28	0,01
023453103	PSL 35	MKO 35+MKV 28-30	D 33/8x8	34-35	0,01
023455103	PSL 40	MKO 40+MKV 40	D 40/8x8	40-41	0,01



Spare balls to piston

Spare balls to ball pistons or for fitting in any customer made product. Also often used for cleaning and lubricating ducts.

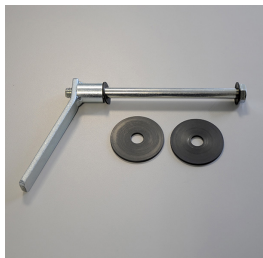
Code	Type	For duct ID	Hole-D	
023453002	BKL 25	22-25	8	0,01
023453102	BKL 30	25-30	8	0,01
023453202	BKL 35	28-35	8	0,01
023454202	BKL 40	35-42	8	0,02
023456202	BKL 50	45-50	8	0,03
023456702	BKL 60	50-60	8	0,04
023457202	BKL 70	60-70	8	0,08
023460202	BKL 80	70-80	8	0,10
023461202	BKL 90	80-90	8	0,13
023463202	BKL 110	90-110	10	0,18
023469202	BKL 125	110-125	10	0,28
023471202	BKL 150	130-150	10	0,43
023472202	BKL 160	150-160	10	0,60
023472602	BKL 190	170-190	10	0,90
023473122	BKL 210	190-210	12	1,10
023473132	BKL 225	200-225	12	1,40
023473142	BKL 250	230-250	12	1,70
023474000	Bigger	diam. not possible	--	0,00



Spare-supporting disk

Spare-supporting disks of polyamide, for ball pistons BKO

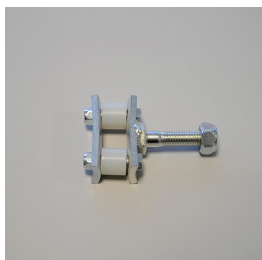
Code	Type	For	D/Thickness	Hole	kg
023463204	Disc	BKO 100	80x5 mm	10 mm	0,03
023469204	Disc	BKO 120	100x5 mm	10 mm	0,04
023471204	Disc	BKO 150	120x5 mm	10 mm	0,05



Spare-braking set

Spare-braking set to rod reels, existing of: axle, cup springs, brake disc and clamping lever

Code	Type	For	Kit	kg
022602150	Brak set	RSH 350+600	complete	0,58
022607150	Brak set	RSH 800	complete	0,58
022609150	Brak set	RSH 1000	complete	0,53
022612150	Brak set	RSH 1200	complete	0,53



Spare-rod roller entry

Spare-rod roller entry and exit guide to rod reels RSH 800-1200

Code	Type	For	Kit	kg
022615312	Roller entry	RSH 800-1200	complete	0,07



Spare-wheel

Spare-wheels with solid tyres, to rod reels RSH 800-1200 and cable drum lifting jacks TH 31-81 and TZ 15-80

Code	Type	For	For	For	D/W mm	kg
092572806	Wheel	---	---	TZ 15	125x37	0,40
092572812	Wheel	RSH 800-1200	TH 31-81	TZ 30-80	180x50	1,02



Spare-tired wheel

Spare-wheels with pneumatic tyres, to rod reels RSH 1500 and pilot rope winches SBS 510 and SPW 10B

Code	Type	For	For	For	For	For	D/W mm	kg
092572001	Wheel	RSH 1500	SBS 510	RSH 1500	SES 410	SPW 10B	260x85	1,32
092572011	Wheel	RSH 1500	SBS 510	SBS 510	---	---	340x120	3,01



Spare-slotted screw bolt to swivel

Spare-slotted screw bolt to cable pulling swivels V 20D to V 100D, only for underground cable pulling

Code	Type	For	DxLength	kg
05372811210	Slotted screw	RSW 18	M 6x17	0,02
024302112	Slotted screw	V 20D	M 8x16	0,02
05373011210	Slotted screw	V 25D	M 10x20	0,04
024306112	Slotted screw	V 35D	M 14x28	0,04
05375211210	Slotted screw	V 45D	M 16x37	0,06
05375511210	Slotted screw	V 50D	M 16x40	0,05
05375811210	Slotted screw	V 55D	M 18x42	0,10
05376411210	Slotted screw	V 60D	M 20x38	0,14
05376711210	Slotted screw	V 65D	M 24x51	0,20
053770112	Slotted screw	V 75D	M 27x61	0,28
053773112	Slotted screw	V 85D	M 30x69	0,35
053776112	Slotted screw	V100D	M 36x81	0,45



Spare-wheel

Spare-wheels with solid tyres, to rod reels RSH 800-1200 and cable drum lifting jacks TH 31-81 and TZ 15-80

Code	Type	For	For	For	D/W mm	kg
092572806	Wheel	---	---	TZ 15	125x37	0,40
092572812	Wheel	RSH 800-1200	TH 31-81	TZ 30-80	180x50	1,02



Spare-hydraulic jacks

Spare-hydraulic jack to drum lifter, without pump lever, to TH 31 / TH 61 / TH 81, without spiral spring to be ordered separately!

Code	Type	For	Lifting	Lift	kg
095240040	Hydraulic jack	TH 31	5000 kg	150 mm	3,70
095240043	Hydraulic jack	TH 61/81	10000 kg	150 mm	7,20
092210553	Spiral spring	Hydr. jacks	---	---	0,04



Spare-bearing caps to drum shaft

Spare-bearing cap galvanized, to turnable drum shafts of aluminium or steel, without screws to be ordered separately, see table below

Code	Type	For drum shaft	DxTh mm	kg
031477013	Bearing cap	D 60 + TAS 75	D 60x8	0,10
031477012	Bearing cap	D 75/76	D 75x8	0,20
031488064	Bearing cap	D 89/90/95/101	D 87x8	0,30
031488068	Bearing cap	D 108/114/121	D 105x8	0,50
031488076	Bearing cap	D 127/139/159	D 127x8	0,70
031488076	Socket screw	Socket screw	M 8x20	0,70



Spare-eye screws

Spare-eye screws to drum shaft-clamps

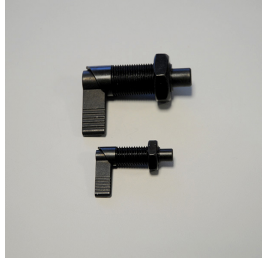
Code	Type	For shaft clamp	DxL mm	kg
0315171037	Eye screw	KSV 51-70	D 10x60	0,15
0315171038	Eye screw	KSV 76-90	D 10x80	0,18



Spare-gas springs

Spare-gas springs to cable winding machines and further machines

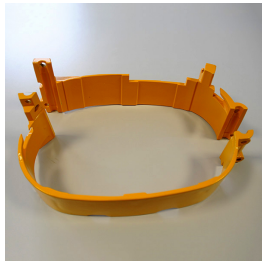
Code	Type	For	DxD/L1/L2	Force	kg
092270620	Gas spring	KVS 1000-2000	28x14/400/ 900	2200 N	1,20



Spare-locking bars

Spare-locking bar to cable trailers and further machines

Code	Type	For	Bolt-D	Thread	kg
0926110192	Locking bar	KVS 1000-2000	15 mm	M 20	0,14



Spare-upper rope protection

Spare-upper rope protection to cable winches

Code	Type	For	Position	kg
044290120	Rope protection	TL 2019/2020 DR	up	1,10
044290121	Rope protection	TL 2019/2020/2422/3022	down	0,80
044290140	Rope protection	TL 2422/3022/3025	up	3,20



Spare-gas springs

Spare-gas springs to cable pulling winches and further machines

Code	Type	For	DxD/L1/L2	Force	kg
04428019215	Gas spring	TL 2422-3022 cover	10x22/150/ 420	900 N	0,41
044290337	Gas spring	TL 2020 DR cover	10x22/300/ 751	750 N	0,61



Spare cups for sonic heads

Spare cups to sonic head SKO 50 for blowing-in soft fibre optic cables

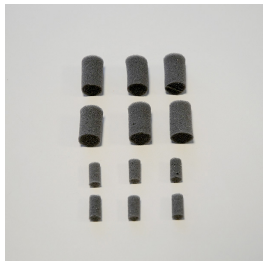
Code	Type	Spare part for	Colour	Diam.	For D-ID	kg
041060125	Spare cup	SKO 40	yellow	25	25-28	0,01
041060130	Spare cup	SKO 40	green	30	30-33	0,01
041062130	Spare cup	SKO 50	yellow	30	30-33	0,01
041062134	Spare cup	SKO 50	blue	30	34-37	0,01
041062140	Spare cup	SKO 50	green	34	40-42	0,01
041064140	Spare cup	SKO 63	yellow	40	40-45	0,01
041064145	Spare cup	SKO 63	blue	45	45-50	0,01
041064150	Spare cup	SKO 63	green	50	50-55	0,01



Spare-calibre

Spare-calibre of brass to calibration sets for subducts

Code	Type	For	For duct-ID	Set of	kg
023193501	Calibre	MKK 0606	6,0 mm	3 pcs.	0,11
023195006	Calibre	MKV 0810	8,0 mm	4 pcs.	0,70
023195008	Calibre	MKV 0810	9,8-10,0 mm	5 pcs.	0,23
023195208	Calibre	MKV 1116	11,4-12,0 mm	6 pcs.	0,02
023195212	Calibre	MKV 1116	15,0 mm	7 pcs.	0,03
023195216	Calibre	MKV 1116	15,0-16,0 mm	8 pcs.	0,04



Spare-sponge sets

Spare-sponge sets to calibre for subducts

Code	Type	For	For calibre	Sponges	kg
023195014	Sponge set	MKV 0810	D 6-9 mm	6xD 8 u. 6xD 16	0,20
023195220	Sponge set	MKV 1116	D 9-12 mm	6xD 16 u. 6xD 20	0,15



Spare-calibre catcher

Spare-calibre catcher for calibrating set for subducts

Code	Type	For	For duct-ID	Nos.	kg
023193115	Calibre-catcher	MKK 0606	6,0 mm	Per 1 pcs.	0,04
023195015	Calibre-catcher	MKV 0810	8,0-10,0 mm	Per 1 pcs.	0,20
023195226	Calibre-catcher	MKV 1116	11,0-12,0 mm	Per 1 pcs.	0,03
023195230	Calibre-catcher	MKV 1116	15,0-16,0 mm	Per 1 pcs.	0,10



Spare-Driving belts for MiniJets

Driving belt , for MiniJets, please mind the years of manufacture before 2006 and from 2007 and the device no.

Code	Type	For	Surface	Year	kg
042010121	Driving belt	Minijet/IntelliJet	V-groove across	to 2006	0,09
042010122	Driving belt	Minijet/IntelliJet	Plane across	to 2006	0,09
042010123	Driving belt	Minijet/IntelliJet	V-groove lengthwise	from 2007	0,13
042010124	Driving belt	Minijet/IntelliJet	Plane lengthwise	from 2007	1,14



Pressure reducing valve

Pressure reducing valve up to 16 bar, for UltimaZ

Code	Type	Designation	Press.	kg
275717	DOU 16	Pressure reducing valve	0-16 bar	0,49



Pressure wheel for UltimaZ

Pressure wheel for UltimaZ, D 40, material and cable-D see table below.

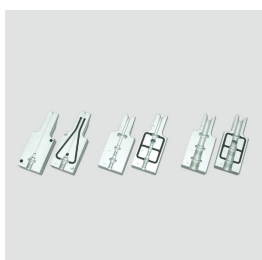
Code	Type	C-D	Mat.	kg
423340	KAPR 40P	1,0-4,0	Polyurethane plain	0,08
423342	KAP 40A	2,0-4,0	Alu	0,07



Drive wheel for UltimaZ

Drive wheel for UltimaZ, D 40, material and cable-D see table below.

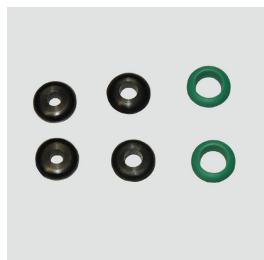
Code	Type	C-D	Mat.	kg
423340	KAPR 40P	1,0-2,5	Polyurethane plain	0,08
423344	KAP 41P	1,0-1,6	Poly with groove	0,08
423346	KAR 42	1,6-2,0	Steel hardened, groove	0,06
423347	KAR 402	2,1-2,5	Steel hardened, groove	0,05
423348	KAR 43	2,6-3,0	Steel hardened, groove	0,06
423349	KAR 404	3,1-3,5	Steel hardened, groove	0,05
423350	KAR 44	3,6-4,0	Steel hardened, groove	0,08



Duct inserts for UltimaZ

Duct inserts for blowing unit UltimaZ, for duct-D see table below.

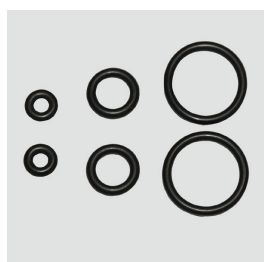
Code	Type	D-OD	C-D	kg
423358	RKE 3016	3	1,6	0,05
423360	RKE 5010	5	1	0,05
423362	RKE 5014	5	1,4	0,05
423364	RKE 3426	3-4	2,6	0,05
423366	RKE 5640	5-6	4	0,05
423368	RKE 7840	7-8	4	0,05
423370	RKE 1240	10-12	4	0,05



Lip seals for UltimaZ

Lip seals for UltimaZ, set of 6 pcs. for cable-D see table below.

Code	Type	Size	C-D	For blowing machine	kg
423150	LPD 230	D 2/10,5	1,4-2,3	UltimaZ	0,02
423152	LPD 330	D 3/10,5	2,4-3,3	UltimaZ	0,02
423154	LPD 430	D 4/10,5	3,4-4,3	UltimaZ	0,02



Duct sealing for UltimaZ

Duct sealing for UltimaZ, sets of 6 pcs. for duct-D see table below.

Code	Type	Size	D-OD	For blowing machine	kg
423170	ROR 3	D 3x2	3	UltimaZ	0,01
423172	ROR 4	D 4x2	4	UltimaZ	0,02
423174	ROR 5	D 5x2	5	UltimaZ	0,02
423176	ROR 7	D 7x2	7	UltimaZ	0,02
423178	ROR 8	D 8x2	8	UltimaZ	0,02
423180	ROR 10	D 10x2	10	UltimaZ	0,02
423182	ROR 12	D 12x2	12	UltimaZ	0,02



Spare pulleys

Polyamide-pulley to line changing pulleys DRG 2+3, with friction bearings, without axles. Alu-pulley with ball bearings, without axle.

Spare pulleys for existing line pulleys or for fitting in any customer made product

Code	Type	Pulley for	Mat.	OD/ID	Groove	SWL	kg
051008113	DRG 130P	DRG 2+3 P	Poly.	130/60	68/80	100 kg	0,41
051009001	DRG 130A	DRG 2+3 A	Alu	130/60	68/80	100 kg	0,70



Spare pulleys

Polyamide-pulley with ball bearings, for axle-D 10 mm, without axle

Spare pulleys for existing line pulleys or for fitting in any customer made product

Code	Type	Pulley for	Mat.	OD/ID	Groove	SWL	kg
092447680	KRL 80P	LER 16-74 + LRB 45	Poly.	80/30	38/52	100 kg	0,16
092447706	KRL 140P	LKW 140 + PRP 140	Poly.	140/82	58/68	200 kg	0,73



Spare pulleys

Alu-pulley with ball bearings, without axle

Spare pulleys for existing line pulleys or for fitting in any customer made product

Code	Type	Pulley for	Mat.	OD/ID	Groove	SWL	kg
051305111	SRL 115A	SRD 115	Alu	115/80	25/35	100 kg	0,45
051317111	SRL 200A	SRD-SR 200	Alu	200/130	33/43	200 kg	1,23



Spare pulleys

Alu-pulley with ball bearings, without axle

Spare pulleys for existing line pulleys or for fitting in any customer made product

Code	Type	Pulley for	Mat.	OD/ID	Groove	SWL	kg
051348111	SRL 315A	SRD-SR 315	Alu	315/250	42/52	600 kg	2,40
051511111	SRL 350A	SR 350	Alu	350/260	58/76	1500 kg	4,22
051725111	SRL 580A	SR 580	Alu	580/480	58/76	1500 kg	8,20



Spare clamp lever to snatch blocks

Spare clamp lever to snatch blocks MRK 10 to MRK 50

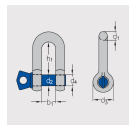
Code	Type	For	kg
051307516	Clamp lever	MRK 10-120 to MRK 50-250	0,10



Spare-slotted screw bolt to swivels

Spare-slotted screw bolt to overhead line swivels

Code	Type	For	DxLength	kg
05372811210	Slotted screw	FVD 18	M 6x17	0,02
05373011210	Slotted screw	FVD 25	M 10x20	0,04
05373611210	Slotted screw	FVD 30	M 12x24	0,05
05374911210	Slotted screw	FVD 40+FED 40	M 16x32	0,06
05375511210	Slotted screw	FVD 50	M 16x40	0,05
05375811210	Slotted screw	FVD 55+FED 55	M 18x42	0,10
05376411210	Slotted screw	FVD 60	M 20x38	0,14
05376711210	Slotted screw	FVD 65+FED 65	M 24x51	0,20
053770112	Slotted screw	FVD 75	M 27x61	0,28
053773112	Slotted screw	FVD 85	M 30x69	0,35
053776112	Slotted screw	FVD 100	M 36x81	0,45



Shackles high tensile

Shackles high tensile with eye bolt. SWL = safe working load

Universal use in pulling and security purpose

Code	Type	d2	d1	b1	h1	WLL	kg
092428267	HA1 22	22	19	32	60 m	4700 kg	1,00
092428269	HA1 29	29	25	43	81 m	8500 kg	2,00
092428272	HA1 38	38	35	57	113 m	13500 kg	5,40



Spare-ball knob

Spare-ball knob, folding, to cable winding machines and coil winders

Code	Type	For	DxLength	kg
092611263	Ball knob	DH/DE/TR machines	25x100, M10	0,16



Spare-U-shaped hold

Spare-U-shaped hold to cable winding machines

Code	Type	For	kg
032252219	Hold	DH/DE/TR machines	0,03



Spare-steering wheel

Spare-steering wheel to cable winding machines DH + DE

Code	Type	For	Wheel DxW	kg
092573705	Steering wheel	DH/DE machines	160x40 mm	1,80



Spare-locking bars

Spare-locking bar to cable winding machines and further machines

Code	Type	For	Bolt-D	Thread	kg
092611017	Locking bar	TR 146-207	8 mm	M 12	0,05
092611018	Locking bar	26 VK u. 46 VK	12 mm	M 20	0,10
0926110192	Locking bar	DE 30 + DW 30V	15 mm	M 20	0,14



Spare-hand wheel

Spare-hand wheel to cable winding machines

Code	Type	For	ALU-D	kg
092611515	Hand wheel	TR 145-165	200 mm	0,89



Spare-gas springs

Spare-gas springs to cable winding machines and further machines

Code	Type	For	DxD/L1/L2	Force	kg
0922706133	Gas spring	DTR-machines	8x18/250/ 600	500 N	0,30
0922706131	Gas spring	DTR-machines	8x18/250/ 615	350 N	0,32
092270610	Gas spring	TRF-machines	8x19/250/ 225	200 N	0,29
092270611	Gas spring	TRF-machines	8x19/250/ 225	250 N	0,29
092270613	Gas spring	TR-machines	8x19/250/ 600	350 N	0,29
092270619	Gas spring	DE-machines	8x19/300/ 687	500 N	0,45