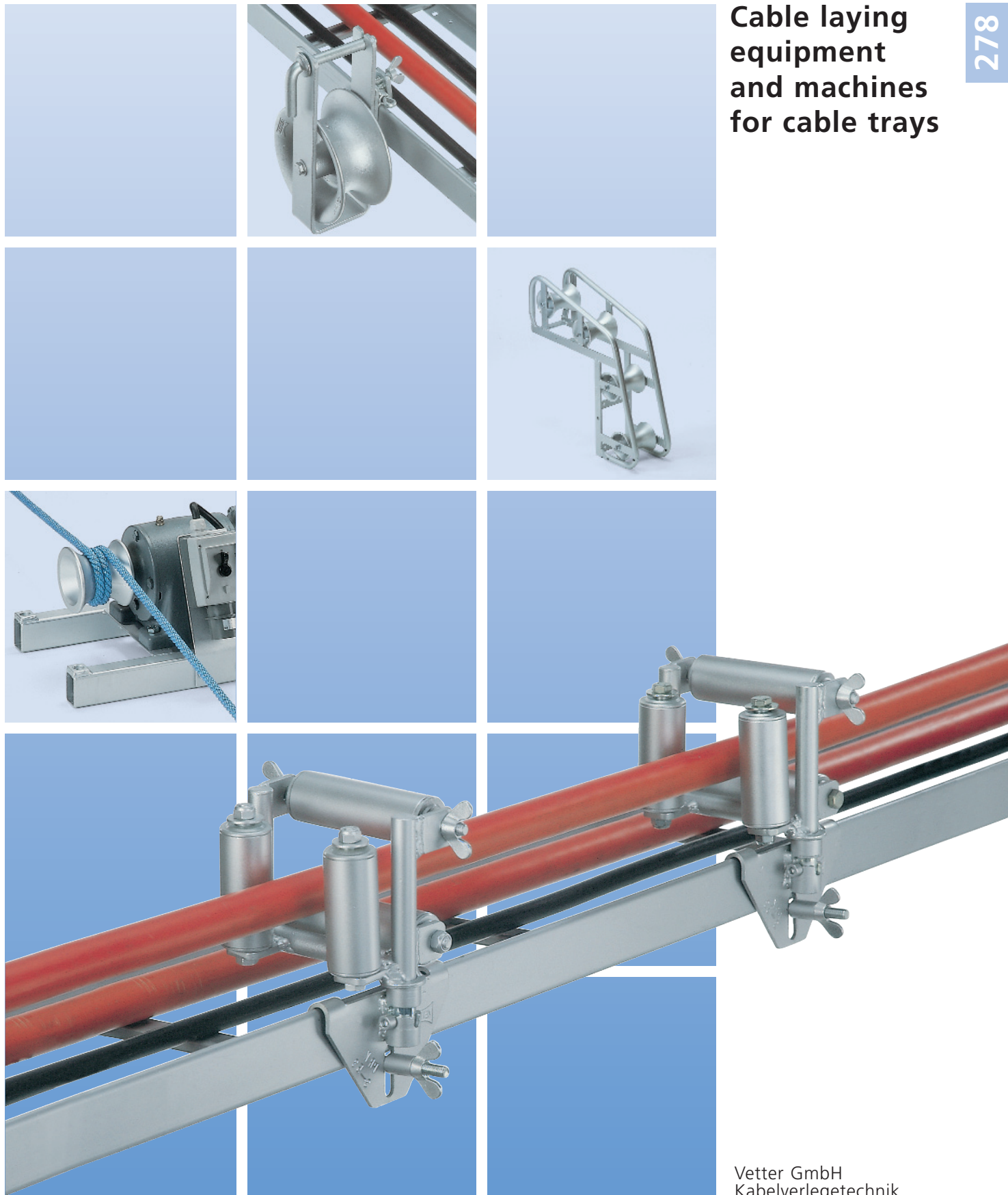


Cable laying equipment and machines for cable trays





Cable laying equipment for cable trays

Cable laying rollers for straight cable trays

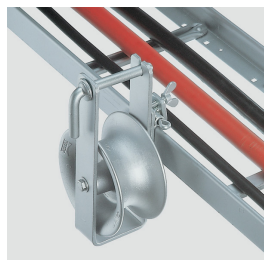
Frame cable rollers for cable trays

Cable roller bows for cable trays

Cable bollard winches for cable trays

Polyester ropes and accessory for cable bollard winches

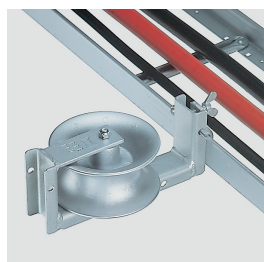
Recharchable battery capstan winch



Cable tray rollers

Cable tray rollers with fixing clamps for attachment outside and inside the tray edge.

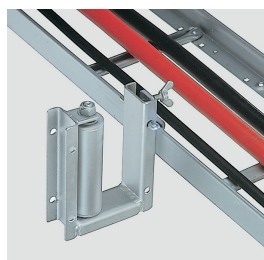
Code	Type	Roller-D	Mat.	SWL	kg
278050	PRK 140	D 140/86x58	Alu	100 kg	2,10



Cable tray corner roller

Cable corner roller with fixing clamps for attachment outside and inside tray bows.

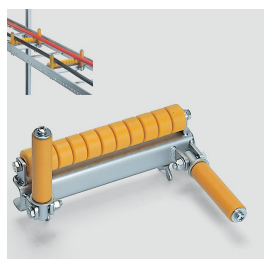
Code	Type	Roller-D	Mat.	SWL	kg
278100	PRE 140	D 140/86x58	Alu	100 kg	2,40



Cable tray flank roller

Cable tray flank roller with fixing clamps for attachment outside of the tray. By turning the roller, inside or outside cable curves can be pulled. For cable-Ø max. 40 mm.

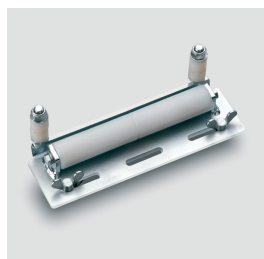
Code	Type	Roller-D	Mat.	SWL	kg
278150	PRF 42	42/149	Steel	100 kg	1,65



Cable tray rollers

Cable tray roller for pulling-in of several cables one after the others. Two lateral rollers can be turn down to lay the cables in the trays. Low construction. This roller can be taken away underneath the tray. Steel construction galvanized with polyamide rollers.

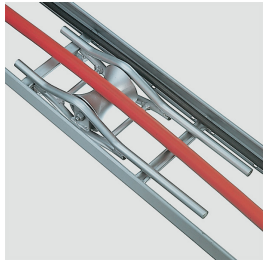
Code	Type	Ext. Width	Wheels	SWL	kg
278340	PRS 150	150	6 / D 35	100 kg	1,20
278360	PRS 250	250	11 / D 35	100 kg	1,84



Cable tray rollers

Cable tray roller, 2 polyamide rollers-rollers, low construction steel construction galvanized of only 60 mm height.

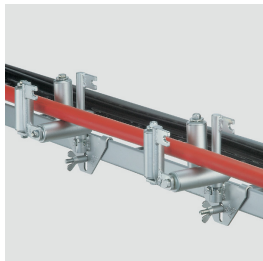
Code	Type	Ext. Width	Wheels	SWL	kg
278370	PRR 195	195	2 / D 25	100 kg	0,84



Cable tray rollers

Cable tray roller for inside the tray with cross members of 500 mm spanning the tray. After pulling this roller can be removed below the tray. Steel construction galvanized with 1 alu-roller.

Code	Type	Alu-roller	L/W/H mm	SWL	kg
278410	PRC 1	D 88/50x100	490/144/47	100 kg	2,60

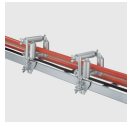


Cable tray rollers

Cable tray rollers of 3 rollers for smaller cables up to D 30 mm, with clamp. Steel construction galvanized.

- Can be fixed on the tray edge, swivelling in- or outside of the tray.
- The barrier roller produces a safe cable guidance.

Code	Type	Roller-D	Opening	SWL	kg
278470	PRK 3-53	33	53	100 kg	1,80



Cable tray rollers

Cable tray rollers of 3 rollers for bigger cables, with clamp. Steel construction galvanized. Can be fixed outside or inside the tray in order to locate the cable in the trays. Without support. The roller can be closed with the barrier roller to achieve an accurate cable guidance.

- Can be fixed in- or outside on 2 tray edges.
- After the pull the cable can be simply put into the cable tray.
- The barrier roller completes a safe guidance for the cable.
- Tray holder to be ordered separately, see below.

Code	Type	Roller-D	Opening	SWL	L/W/H mm	kg
278540	PRK 3-85	40	85x85	150 kg	222x189x85	2,80

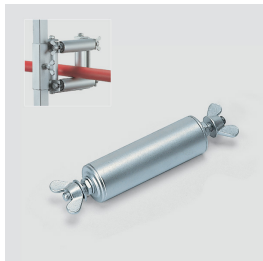


Cable tray rollers

Cable tray rollers of 3 rollers for bigger cables. Steel construction galvanized. Can be fixed outside or inside the tray in order to locate the cable in the trays. Without support. The roller can be closed with the barrier roller to achieve an accurate cable guidance.

- Can be fixed in- or outside on 2 tray edges.
- After the pull the cable can be simply put into the cable tray.
- The barrier roller completes a safe guidance for the cable.
- Tray holder to be ordered separately, see below.

Code	Type	Roller-D	Opening	SWL	L/W/H mm	kg
278570	PRK 3-100	42	100x100	150 kg	252x240x100	4,10



Barrier rollers

Barrier roller for cable tray rollers, with axle and screws. Steel galvanized.

Code	Type	Suitable for	Roller-D	SWL	kg
278480	PRV 1-53	PRK 3-53	33/112	150 kg	0,30
278550	PRV 1-85	PRK 3-85	40/134	150 kg	0,50
278580	PRV 1-100	PRK 3-100	42/190	150 kg	0,75



Cable guide rollers

Cable guide rollers, 4 high wattage-rollers of thick wall steel with ball bearings. Opening in all positions. Steel construction galvanized. accessory for fixing on canal braces, on mounting base or on profiles are available.

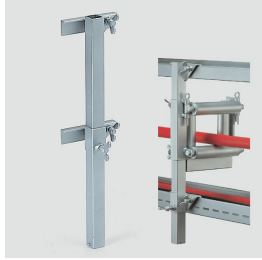
Code	Type	Opening	SWL	L/W/H mm	kg
202131	ER 4-100S	100x100	500 kg	325x325x153	12,00
202132	ER 4-125	125x125	500 kg	350x350x153	14,00
202137	ER 4-150	150x150	500 kg	375x375x153	14,50
202145	ER 4-200	200x200	500 kg	425x425x153	17,20



Supports for cable guide rollers

Parts for supporting and fixing a.m. cable guide rollers ER 4-100-300 these standards can be screwed on all sizes. Special supports adapted to any kind of profiles are available at short notice.

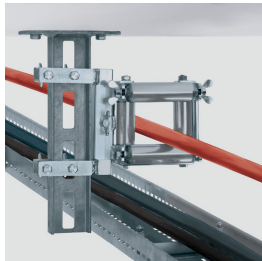
Code	Type	Designation	Suitable for	For	kg
205401	KSP 10	Brace retainer	ER 4-100S	Braces D 45-60	2,00
205402	KSP 12	Brace retainer	ER 4-125-300	Braces D 45-60	3,00
202168	BF 4-100S	Mounting base	ER 4-100S	Fixing on the floor	5,00
202170	BF 4-300	Mounting base	ER 4-125-300	Fixing on the floor	5,80
205420	KSA 22	Support connector	ER 4-125-300	Fixing on profiles	7,00



Tray roller supports

Cable roller holder for below mentioned cable tray rollers, steel galvanized.

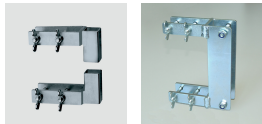
Code	Type	Suitable for	Length	kg
278710	PRH 3-615	PRK 3-85+3-100	615	1,50
278770	PRH 4-715	ER 4-100-250	715	5,00



Guide roller support

Support for fixing guide rollers on suspension stays 16 A1 or 16 A3. With it the guide rollers can be fixed in any position, e.g. vertical or horizontal suitable for pulling heaviest cables. Steel galvanized.

Code	Type	Suitable for	Needed per roller	L/W/H mm	kg
278720	PRH 3-145	PRK 3-85+PRK 3-100	2	153x80x70	0,90
278725	PRH 4-250	ER 4-125-250	1	230x178x90	3,00



Cable tray bow

Cable tray curve unit 90° angle with 4 alu rollers. Bending radius 400 mm. Compact version allows application under difficult conditions. Steel construction galvanized.

Code	Type	Roller-D / Mat.	Bend-Rad	C-D	SWL	L/W/H mm	kg
278780	PRB 90/400	90/50x100, Alu	400	100	300 kg	500x500x140	7,80



Cable tray bow

Cable tray curve unit 45° angle with 3 alu rollers. Bending radius 600 mm. Compact version allows application under difficult conditions. Steel construction galvanized.

Code	Type	Roller-D / Mat.	Bend-Rad	C-D	SWL	L/W/H mm	kg
278820	PRB 45/600	90/50x100, Alu	600	100	300 kg	500x500x140	7,10



Cable tray corner rollers

Cable tray corner roller, 45°, 3 steel rollers. Bending radius 700 mm. Steel construction galvanized. Universal roller type e.g. for horizontal or vertical cable diversion. Suitable for heavy cable pulls.

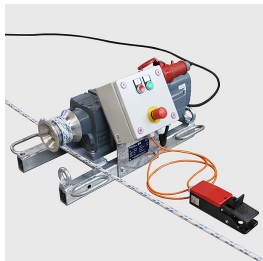
Code	Type	Roller-D / Mat.	Rad.	C-D	SWL	L/W/H mm	kg
202760	SE 3-45S	120/76/145, Steel	700	100	500 kg	530x430x230	14,40



Cable tray corner rollers

Cable tray corner roller, 90°, 3 steel rollers. Bending radius 700 mm. Steel construction galvanized. Universal roller type e.g. for horizontal or vertical cable diversion. Suitable for heavy cable pulls.

Code	Type	Roller-D / Mat.	Rad.	C-D	SWL	L/W/H mm	kg
202820	SE 6-90S	120/76/145, Steel	700	100	500 kg	750x750x230	24,60



Cable bollard winch without brake

Cable tray capstan winches, electric motors, mounted on base frame enabling alternative fixing, incl. safety footswitch.

- With 1 constant speed.
- Without lifting brake, therefore not allowed for vertical cable laying.
- PSW 7/8 - Tensile force 3,5 kN with max. 10 m/min. or tensile force 7,0 kN with max. 8 m/min.
- PSW 10/8 - Tensile force 5,5 - 6,0 kN with max. 7 m/min. or tensile force 10,0 kN with max. 7 m/min.

Code	Type	El-motor	Connection	kg
279503	PSW 7/8	1,10 kW	230V/50-60Hz	60,00
279541	PSW 10/8	1,10 kW	400V/50-60Hz	55,00

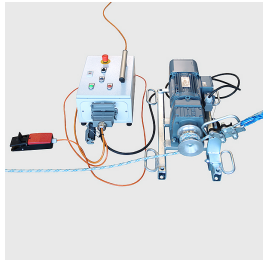


Cable bollard winch without brake

Cable tray capstan winches, electric motors, mounted on base frame enabling alternative fixing, incl. footswitch. Frequency converter allows two pulling speeds, one for heavy cable pulls up to 1 t and one for lighter cable pulls up to 400 kp. Not allowed for vertical pulls.

- Electric motor 1,5 kW, with 2 speeds, each variable through frequency convertor 20-100 Hz.
- Connectable on 230 volt net, or with adapter cable also on 400 volt net.
- Without lifting brake, therefore not allowed for vertical cable laying.
- 1. Gear at 50 Hz - Tensile force 4 kN with max. 7 m/min. or tensile force 10 kN with max. 6 m/min.
- 2. Gear at 80 Hz - Tensile force 4 kN with max. 10 m/min. or tensile force 10 kN mit max. 7 m/min.

Code	Type	El-motor	Connection	kg
279561	PSW 10-13	1,50 kW	230V/50-60Hz	68,00
279580	ADK 400	Adapter cable	400-230V/50Hz	0,50

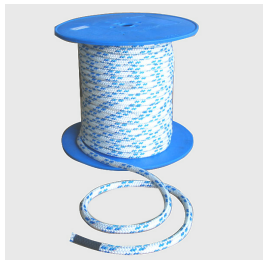


Cable bollard winch with brake

Cable tray capstan winches, electric motors, mounted on base frame enabling alternative fixing, incl. footswitch. Frequency converter allows two pulling speeds, one for heavy cable pulls up to 1 t and one for lighter cable pulls up to 400 kp. This PSW 10-13S is approved as cable hoisting winch also for vertical cable pulls up to 500 kg.

- Electric motor 1,5 kW, with 2 speeds, each variable through frequency convertor 20-100 Hz.
- Connectable on 230 volt net, or with adapter cable also on 400 volt net.
- With rope holding safety clamp, suitable to lift cables vertical to 5,0 kN.
- 1. Gear at 50 Hz - Tensile force 4 kN with max. 7 m/min. or tensile force 10 kN with max. 6 m/min.
- 2. Gear at 80 Hz - Tensile force 4 kN with max. 10 m/min. or tensile force 10 kN mit max. 7 m/min.

Code	Type	El-motor	Connection	kg
279566	PSW 10-13S	1,50 kW	230V/50-60Hz	72,00
279580	ADK 400	Adapter cable	400-230V/50Hz	0,50



Polyester ropes

Polyester rope double braided, with two spliced loops, (one each end). Suitable for cable tray capstan winches especially when using them as hoists. Stocked lengths are 250 and 500 m. The particular rope drum is included in the rope price. Can be used with swivels with ball bearings. kN = Minimum Breaking Load

Code	Type	Rope	Stretch	kN	Length	kg
27968512	PKG12-125	12	4-6 %	32	125 m	11,30
27968525	PKG12-250	12	4-6 %	32	250 m	22,50
27968530	PKG12-300	12	4-6 %	32	300 m	30,50
27968550	PKG12-500	12	4-6 %	32	500 m	45,00



Polypropylene ropes

Polypropylene-rope with one spliced loop. Not suitable for hoisting pulls. Stocked length are 150 and 250 m. For this swivel with ball bearings must not be used, but swivels with fiction bearings. kN = Minimum Breaking Load

Code	Type	Rope	Stretch	kN	Length	kg
27969015	PKT 14-150	14	15 %	27	150 m	14,00
27969025	PKT 14-250	14	15 %	27	250 m	24,00



Swivel for Polyester rope

Swivels with ball bearings suitable for twist-free polyester rope D 12 mm, (not for polypropylene rope). kN = Minimum Breaking Load

kN = Minimum Breaking Load

Code	Type	For rope	D/length/fork	kN	kg
537360	FVD 30	D 12	30/128/12	60	0,50



Swivel for Polypropylene-rope

Swivels with friction bearings, turnable connector between winch rope and cable grip. The friction bearing guarantees that the swivel reduces rotation and torsion with increasing pulling force. Only for underground cables, not suitable for pulling overhead lines.

kN = Minimum Breaking Load

Code	Type	For rope	D/length/fork	kN	kg
243130	V 45 D	D 16	45/180/16	150	1,50



Reel for plastic ropes

Reel stand for ropes, steel galvanized with 2 rubber wheels. Plastic ropes must not be spooled with high tensions on drums. Depending on temperatures there are volume dilatations which will crush the drum core and also the flanges. Rope capacities of this drum are:

- Plastic rope diameter 6, approx. 1200 m, total rope weight approx. 48 kg
- Plastic rope diameter 7, approx. 1000 m, total rope weight approx. 40 kg
- Plastic rope diameter 8, approx. 700 m, total rope weight approx. 35 kg
- Plastic rope diameter 10, approx. 500 m, total rope weight approx. 35 kg
- Plastic rope diameter 12, approx. 350 m, total rope weight approx. 35 kg
- Plastic rope diameter 14, approx. 250 m, total rope weight approx. 35 kg

Code	Type	Rope cap.	Reel-D	L/W/H mm	kg
279720	PSH 600	s. above	600/150/240	727/331/790	19,20

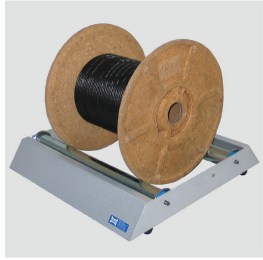


Drum for plastic ropes

Rope drum of plywood for plastic ropes. Plastic ropes must not be spooled with high tensions on drums. Depending on temperatures there are volume dilatations which will crush the drum core and also the flanges. Rope capacities of this drum are:

- Plastic rope diameter 7, approx. 2000 m, total rope weight approx. 80 kg
- Plastic rope diameter 8, approx. 1500 m, total rope weight approx. 75 kg
- Plastic rope diameter 10, approx. 1000 m, total rope weight approx. 70 kg
- Plastic rope diameter 12, approx. 750 m, total rope weight approx. 75 kg
- Plastic rope diameter 14, approx. 550 m, total rope weight approx. 77 kg

Code	Type	Rope cap.	Drum-D	Width	Hole	kg
279740	STR 750	s. above	750/315	395/420	80	20,00



Drum wind off roller

Cable drum wind-off roller for cables or ropes. Steel construction, powder coated. Steel rollers galvanized with ball bearings.

- Rollers adjustable for smaller spools down to Ø 100
- Rubber feet for stable and quiet running

Code	Type	For drum-D	Drum width	SWL	L/W/H mm	kg
320660	KTA 7	100-1200	max. 500	150 kg	530/550/110	8,80



Rechargeable battery capstan winch

Mobile, battery-operated capstan winch with aluminium single-disc capstan enables flexible and emission-free work even in less accessible vegetation. It is ideal for short cable pulling operations. This capstan winch is not authorised as lifting equipment and is not approved for vertical pulling.

With the additionally available 82 V rechargeable battery, different running times (approx. 20 to 40 minutes) can be achieved depending on the tractive force.

The capstan head offers two major advantages over conventional drum winches. A lightweight polyester rope can be used and the rope length can be freely selected as it can be wound around the capstan head at any point. The pulling force and speed always remain the same because there is only one layer of rope on the capstan head at any one time.

Supplied without rechargeable battery and charger incl. anchoring sling. Only use with polyester ropes in the specified diameters and with corresponding breaking loads.

Technical Data:

- max. direct tensile force 10 kN at up to 11.6 m/min
- max. continuous tensile force 7 kN, three pulling speeds (8,1; 10; 11,6 m/min)
- for polyester ropes Ø 10-13 mm
- brushless electric motor with overload protection,
- 1,0 kW, 82 V, 360° inclinable
- 3 stage spur gear unit, sound power level 90 dB
- constant tensile force
- unlimited rope length
- protection class IPX3 (protection against rainwater)
- weight 9,8 kg (without rechargeable battery), 12,6 kg (incl. rechargeable battery 5 Ah)

Code	Type	El-Motor	Connection	L/W/H mm	kg
279430	PCW 3000-Li	1,0 kW	Akku	318/302/310	9,80



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Quick charger for PCW 3000-Li

Quick charger suitable for PCW 3000-Li Cramer rechargeable batteries with 82 V

- Eingang: 230 V AC, 50/60 Hz, 2,5A
- Ausgang: 82 V DC, 4 A

Additional batteries

Additional rechargeable battery 82 V / 5 Ah, Li-Ion, suitable for PCW 3000-Li

Technical Data:

- Battery: Lithium-Ionen
- Tension: 72-82 V DC
- Charging time: 90 min.

Code	Type	Energy	L/W/H mm	kg
279436	Akku 82 V	5 Ah / 360 Wh	205/120/90	2,80

Drawbar plate for trailer coupling for PCW 3000-Li

Special mounting plate for PCW 3000-Li capstan winch made of galvanised steel with recess for ball heads up to Ø 58 mm. Attached to the trailer coupling of the vehicle, this forms an anchor point for the winch.

Code	Type	L/W/H	Ball head Ø	kg
279439	Drawbarplate	200/150/40	58 mm	0,74





Tree support plate / Pole support plate for PCW 3000-Li

Tree support plate / pole support plate for attaching the PCW 3000-Li cordless capstan winch to trees, poles and posts up to a diameter of 30 - 91 cm. Galvanised steel support plate with ratchet strap and polyester sling for optimum fastening and height adjustment. Swivelling bearing.

Code	Type	L/W/H	kg
279442	Baumhalteplatte	490/170/140	3,80



Transport case for PCW 3000-Li

Compact transport case made of robust, lightweight plastic for safe storage of the PCW 3000-Li cordless capstan winch including accessories.

Code	Type	Maße	kg
279445	Transportkoffer	584x406x356 mm	3,00
279433	Charger	82 V DC / 230 V AC	230 V / 1,40

50-60

Hz