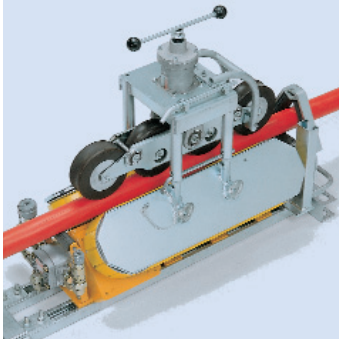
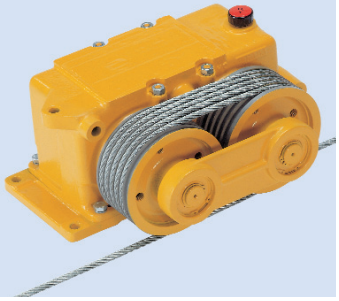
440

Cable pulling capstan winches

Cable feeders





Vetter GmbH
Kabelverlegetechnik

Hydraulic cable feeders for cable D 20-160, feeding 600 daN

Cable and round material feeders for cable D 8-37 mm

Cable bollard winch 10 kN with accessory

Cable double capstan winch 11 kN with accessory

Cable double capstan winch 20 kN with accessory

Cable double capstan winch 30 kN with accessory

Cable double capstan winches 24-30 kN with accessory

Cable double capstan winches 40-50 kN with accessory

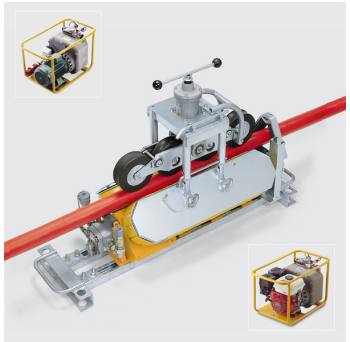
Dynamometers and electronic pull recorders

Steel ropes low torsion D 6-13 mm

Steel ropes torsion free D 6-13 mm

Swivels D 20-100 mm, for cable pulling

Rope connecting sets for solder in ropes and shackles



Cable feeders, hydraulic, 600 daN

Cable feeders, hydraulic with adjustable pushing and pulling force and speed. High performance reduces significantly the pulling forces of the cable winch especially in long cable lines with many curves. Included hydraulic power pack, hoses and valves. Can be driven alternatively with petrol engine or electro motor hydraulic power pack. Hydr. power pack flow 8 l/min., 250 bar. Tank volume 13 l. Hose set 7 m. Pushing and pulling speed progressively adjustable from 4-18 m/min. One loading device is included which size you can select acc. to your cable-diameter ranges. See table below.

- Pushing force 600 daN, what reduces winch pulling even more in winding lines.
- Can be driven outside with petrol power pack and inside with electro power pack.
- Light fractional weights of max. 60 kg, can be handled and be placed of 2 persons.
- Control with hoses, 7 m. Procedure easy to control from above ground.
- Dimension cable feeder 1170x380x700 mm, small for fixing in trenches, shafts or cable trays.
- Dimension hydr. power pack 770x480x500 mm, weight 65 kg.

Code	Type	C-D	Load device	Hydr. Unit	kg
425750	DF 6-90 HB	28-130	28-90	Petrol 5,9 kW	166,00
425752	DF 6-130 HB	28-130	45-130	Petrol 5,9 kW	168,00
425800	DF 6-90 HE	28-130	28-90	Electro 4,0 kW	161,00
425802	DF 6-130 HE	28-130	45-130	Electro 4,0 kW	165,00
425755	DF 6-160 HB	55-160	55-160	Petrol 5,9 kW	175,00
425805	DF 6-160 HE	55-160	55-160	Electro 4,0 kW	171,00

Cable loading device for cable feeders

Cable loading device for cable feeders. In feeders above there is one loading device included which you can choose according to your cable diameters. For further diameters the following loading devices are available as accessory.

Code	Type	C-D	Roller-D	Suitable for	kg
425190	DF 20-50	20-50	150x38, R 17	DF 5/6-130	19,80
425200	DF 28-90	28-90	150x50, R 33	DF 5/6-130	20,80
425210	DF 45-130	45-130	150x90, flat	DF 5/6-130	23,70
425215	DF 55-160	55-160	150x90, flat	DF 5/6-160	25,00

Cable feeders, hydraulic, 200 daN

Cable feeders, hydraulic for light cables. Pulling and pushing forces adjustable, high performance especially with very long cable lines. Included hydraulic power pack, hoses and valves. For this cable feeders many applications are possible, e.g.:

- For pulling and pushing of pipes, hoses of metal and other materials.
- For intermediate feeder in long cable lines, like along of railways.
- DF 22 HB, with petrol hydr. power pack, 6,2 kW, 71, kg, 770x480x500 mm.
- DF 22 HE, with electro-hydr. power pack, 4,0 kW, 67, kg, 710x400x440 mm.

Code	Type	Mat.-D	Push	m/min.	L/W/H mm	kg
425062	DF 22 HB	8-37	200 daN	8,0-50,0	690/250/430	105,00

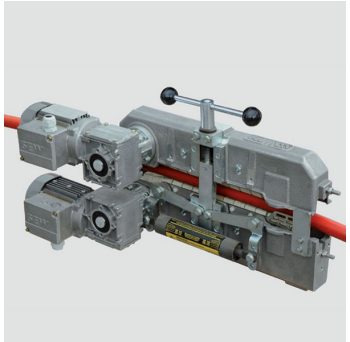
276215	DF 22 HB	8-37	200 daN	0,8-22,0	690/250/430	96,45
425092	DF 22 HE	8-37	200 daN	8,0-50,0	690/250/430	101,00
276230	DF 22 HE	8-37	200 daN	0,8-22,0	690/250/430	106,00

Feeders for round materials, hydraulic

Feeders for round materials, hydraulic drive for pulling and pushing of pipes, hoses of metal or plastic etc. Machine without basic construction and without hydraulic power pack and hoses.

• For installing in production machineries for pushing, pulling of tubes, hoses etc.
• For each kind of operation the feeding speed can be adapted, see table below.
• Also for external hydraulics, for oil pressure up to 160 bar, oil flow 0-20 l/min.

Code	Type	Mat.-D	Push	m/min.	L/W/H mm	kg
276200	DF 22 HY	8-37	200 daN	8,0-50,0	500/355/360	20,50
276235	DF 22 HY	8-37	200 daN	0,5-10,0	500/355/360	25,40
276250	DF 22 HY	8-37	200 daN	0,8-22,0	500/355/360	24,40



Feeders for round materials, electric

Feeders for round materials, with electric motors for frequency controlling, for pulling and pushing of pipes, hoses of metal or plastic etc. Machines without basic construction. Frequency converter and control box as accessory, see next table below.

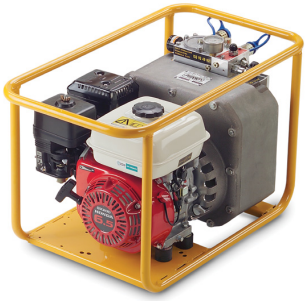
• For installing in production machineries for pushing, pulling of tubes, hoses etc.
• For each kind of operation the feeding speed can be adapted, see table below.
• Electric motors 0,12 kW/400 Volt/50 Hz, without control box.

Code	Type	Mat.-D	Push	m/min.	L/W/H mm	kg
276255	DF 22 EL	15-37	60-180 daN	0,23-10,1	500/355/360	29,00
276260	DF 22 EL	15-37	30-90 daN	0,46-20,3	500/355/360	29,00
276265	DF 22 EL	15-37	13-38 daN	1,10-48,0	500/355/360	29,00
276268	DF 22 EL	8-37	10-30 daN	1,40-60,0	500/355/360	29,00

Frequency control to feeders

Frequency control to feeder DF 22 EL. Mobile device with frequency converter 0,2-1,5 kW, switch pay-in, pay-out, potentiometer, foot switch, emergency stop. 3 m connection cable to motor, 3 m cable with Schuko-plug 16A.

Code	Type	Suitable for	Protection	Dimension:	kg
276270	DF 22 FR	DF 22 EL	IP 54	400x300x220 mm	17,40



Hydraulic power packs mobile

Hydraulic power packs for cable feeders and drum drives without hoses and valves. Tank 13 Litre, oil flow 14 l/min.

Code	Type	Suitable for	Motor kW	Pressure	L/W/H mm	kg
425302	HB 210	Feeders + Drum drives	Petrol 6,3	210 bar	778/490/500	70,00
425312	HD 210	Feeders + Drum drives	Diesel 5,0	210 bar	790/510/565	85,00
425351	HE 210	Feeders + Drum drives	Electro 4,0	210 bar	733/405/433	67,00

Hydraulic hose set

Hydraulic hose set 7 m, with volume governor for hydraulic power packs.

Code	Type	Length	Flow governor	kg
425380	SL 7	7 m	up to 30 l/min	13,50

Cable bollard winch

Cable bollard winch with petrol engine, without rope, for endless lengths. On base frame, portable or mobile on two pneumatic wheels. This winch is equipped with two bollards. Techn. details see table below.

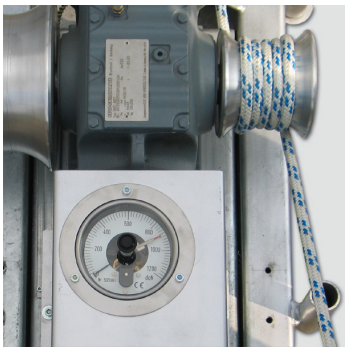
- Honda petrol engine 3,25 kW
- One bollard of D 120 mm for heavy pulls up to 1000 daN
- One bollard D 195 mm for lighter cable pulls up to 500 daN

Code	Type	Pull small bollard	Pull force big bollard	kg
233300	SPW 10B	1000 daN / 15 m/min.	500 daN / 30 m/min.	110,00

Chassis for bollard winch

Axle with two pneumatic wheels for a.m. cable bollard winch SPW 10B

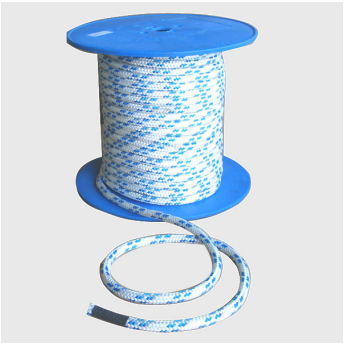
Code	Type	Wheel-D	kg
233310	FAG 10B	260x85 mm	8,30



Dynamometer

Dynamometer adjustable with automatic overload cut off, accessory to SPW 10B

Code	Type	Suitable for	For pulls	Adjustable	kg
233320	ZKD 10/12	SPW 10 B	up to 12 kN	Scale 20 daN	1,12



Polyester ropes

Polyester rope double braided, with two spliced loops on each end. Stocked lengths are 250 and 500 m. Can be used with swivels with ball bearings. daN = Minimum Breaking Load

Code	Type	Rope-D	Stretching	daN	Length	kg
27968512	PKG12-125	12 mm	4-6 %	3600	125 m	11,30
27968525	PKG12-250	12 mm	4-6 %	3600	250 m	22,50
27968530	PKG12-300	12 mm	4-6 %	3600	300 m	27,00
27968550	PKG12-500	12 mm	4-6 %	3600	500 m	45,00

Reels for plastic ropes

Reel stand for ropes, steel galvanized with 2 rubber wheels.

Code	Type	For rope	For rope	Dimension	kg
279720	PSH 600	D 12 / 300 m	D 14 / 250 m	D 600/200x250,	19,20

Swivel for Polyester rope

Swivels with ball bearings suitable for twist-free polyester rope D 12 mm, daN = Minimum Breaking Load

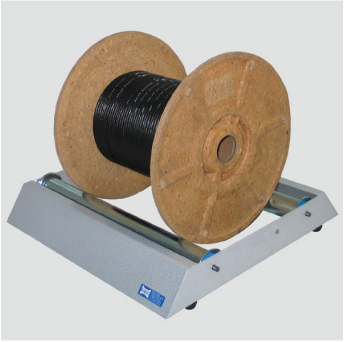
kN = Minimum Breaking Load

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

Drums for plastic ropes

Rope drum for plastic ropes.

Code	Type	For rope	For rope	Dimension	Width	kg
279740	STR 750	D 12 / 750 m	D 14 / 500 m	D 750/315 mm	440 mm	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 mm
- 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 mm	max. 500 mm	150 kg	530/550/110	8,80

Cable drum tipping stand

Cable drum tipping stands. Simple drum unwinding equipment at installation works. Excellent tipping leverage due to optimum positioning of centre of gravity. Capable of lifting heavy loads. Tubular steel construction galvanized.

Code	Type	For drum-D	Max.	Int. width	kg
320300	KW 6-8	600-800	300 kg	600 mm	13,00

Stepped bushes

Stepped bushes of polyamide for shaft-D 48, one step D 80, for drum tipping stands KW 6-12.

Code	Type	For shaft	For drum bore	kg
315503	ZBP 48	D 48 mm	D 80 mm	0,45

Cable capstan winch 11 kN

Cable capstan winch with mechanical drive through Honda petrol engine or electric motor. Please select digital pull recorder or dynamometer as accessory to your need. A swivel with friction bearing is included. All other techn. details and accessory see below.

• With steel rope D 6 mm, lengths see below, and swivel. Rope retaining brake with free-wheel.
• Easy pay out of the rope without energy due to automatic unwinding of the drum of 77 / 61 m/min.
• Mounted on base frame with 2 removable pneumatic wheels.

Code	Type	Engine/Motor	Pull 1: m/min.	Pull 2: m/min.	Incl. rope	kg
440280	TL 1118 D	Petrol 3,6 kW	1100 daN / 7-16	550 daN / 14-33	900 m/6	340,00
440300	TL 1118 DE	El. 1,5kW/400V	1100 da / 13	550 daN / 26	900 m/6	360,00

Cable capstan winch 20 kN

Cable capstan winch with mechanical drive through Honda petrol engine or electric motor. Please select digital pull recorder or dynamometer as accessory to your need. A swivel with friction bearing is included. All other techn. details and accessory see below.

• With steel rope D 8 mm, lengths see below, and swivel. Rope retaining brake with free-wheel.
• Easy pay out of the rope without energy due to automatic unwinding of the drum of 80 / 63 m/min.
• Mounted on base frame with 2 removable pneumatic wheels.

Code	Type	Engine/Motor	Pull 1: m/min.	Pull 2: m/min.	Incl. rope	kg
442080	TL 2018 D	Petrol 5,3 kW	20 kN / 5-12	10 kN / 10-23	520 m/8	360,00
442090	TL 2018 DE	El. 3,0kW/400V	20 kN / 9,5	10 kN / 19	520 m/8	375,00

Cable capstan winch 20 kN

Cable capstan winch with mechanical drive through Honda petrol engine. Please select digital pull recorder or dynamometer as accessory to your need. A swivel with friction bearing is included. All other techn. details and accessory see below.

- With steel rope D 8 mm, lengths see below, and swivel. Rope retaining brake with free-wheel.
- Easy pay out of the rope without energy due to automatic unwinding of the drum of 0-80 m/min.
- Mounted on trailer, height adjustable draw bar, without overrun brake.
- Ball coupling or eye coupling arbitrary. Furnishing RAL 1007 yellow.
- Reinforced glass fibre top. Furnishing RAL 1007 yellow.

Code	Type	Engine	Pull 1: m/min.	Pull 2: m/min.	Incl. rope	kg
442140	TL 2019 DR	Petrol 6 kW	20 kN / 5-12	10 kN / 10-23	730 m/8	740,00

Cable capstan winch 20 kN

Cable capstan winch with mechanical drive through Honda petrol engine. Please select digital pull recorder or dynamometer as accessory to your need. A swivel with friction bearing is included. All other techn. details and accessory see below.

- With 520 m steel rope D 8 mm and swivel. Rope retaining brake with free-wheel.
- Honda petrol engine 6 kW with electric starter
- Easy pay out of the rope without energy due to automatic unwinding of the drum of 0-80 m/min.
- Mounted on trailer, height adjustable draw bar, without overrun brake, canopy top.
- Ball coupling as standard, eye coupling as accessory see below. Furnishing RAL 1007 yellow.

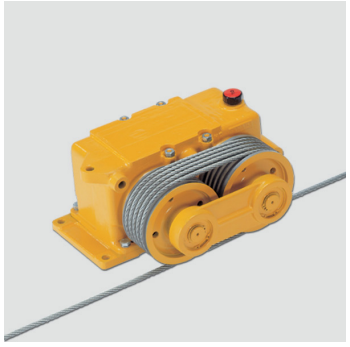
Code	Type	Engine	Pull 1: m/min.	Pull 2: m/min.	kg
442160	TL 2020 DR	Petrol 6 kW	20 kN at 4-12	10 kN / 12-25	595,00
480560	LK 6	Change eye coupling	--	--	6,20
483150	TSL 20	Special painting	--	--	0,10

Cable capstan winch 30 kN

Cable capstan winch with mechanical drive through Honda petrol engine. Please select digital pull recorder or dynamometer as accessory to your need. A swivel with friction bearing is included. All other techn. details and accessory see below.

- With steel rope D 9 mm, lengths see below, and swivel. Rope retaining brake with free-wheel.
- Easy pay out of the rope without energy due to automatic unwinding of the drum of 0-80 m/min.
- Mounted on trailer, height adjustable draw bar, without overrun brake.
- Ball coupling as standard, eye coupling as accessory see below. Furnishing RAL 1007 yellow.
- Reinforced glass fibre top. Furnishing RAL 1007 yellow.

Code	Type	Engine	Pull 1: m/min.	Pull 2: m/min.	Incl. rope	kg
444090	TL 3119 DR	Petrol 7,1 kW	30 kN / 5-12	15 kN / 10-23	570 m/9	780,00



Cable capstan winches 24-30 kN

Cable capstan winches with hydraulic drive. Please select digital pull recorder or dynamometer as accessory to your need. A swivel with friction bearing is included. All other techn. details and accessory see below.

- Without rope, capacity m/mm: 1300/8, 1050/9, 850/10
- Types ... DRH with Honda petrol engine 15 kW, paying-out 0-80 m/min.
- Types ... DRHZ with Hatz Diesel Silent-Pack 10 kW, pay-out 0-62 m/min.
- Easy pay out of the rope without energy due to automatic unwinding of the drum of 0-62 m/min.
- Mounted on one axle trailer with height adjustable draw bar and overrun brake, eye or ball coupling.
- Reinforced glass fibre top. Furnishing RAL 1007 yellow.

Code	Type	Engine	Pull 1: m/min.	Pull 2: m/min.	kg
442700	TL 2422 DRH	Petrol 15 kW	24 kN / 0-20	7,5 kN / 0-80	847,00
442800	TL 2422 DRHZ	Diesel 10 kW	24 kN / 0-15	7,5 kN / 0-60	926,00
444140	TL 3022 DRH	Petrol 15 kW	30 kN / 0-14	7,5 kN / 0-52	844,00
444260	TL 3022 DRHZ	Diesel 10 kW	30 kN / 0-15	7,5 kN / 0-62	924,00

Cable capstan winches 24-30 kN

Cable capstan winches with hydraulic drive. Please select digital pull recorder or dynamometer as accessory to your need. A swivel with friction bearing is included. All other techn. details and accessory see below.

- Without rope, capacity m/mm: 1300/8, 1050/9, 850/10
- Types ... DH with Honda petrol engine 15 kW, paying-out 0-80 m/min.
- Types ... DHZ with Hatz Diesel Silent-Pack 10 kW, pay-out 0-62 m/min.
- Easy pay out of the rope without energy due to automatic unwinding of the drum of 0-62 m/min.
- Mounted on static chassis for placing on trucks or on the ground with adjustable legs.
- Reinforced glass fibre top. Furnishing RAL 1007 yellow.

Code	Type	Engine	Pull 1: m/min.	Pull 2: m/min.	kg
276400	TL 2422 DH	Petrol 15 kW	24 kN / 0-20	7,5 kN / 0-80	932,00
276420	TL 2422 DHZ	Diesel 10 kW	24 kN / 0-15	7,5 kN / 0-60	1.010,00
276450	TL 3022 DH	Petrol 15 kW	30 kN / 0-14	7,5 kN / 0-52	930,00
276480	TL 3022 DHZ	Diesel 10 kW	30 kN / 0-15	7,5 kN / 0-62	1.010,00

accessory for winch trailers

Interchangeable eye coupling including screws for TL 2422/3022 DRH/DRHZ

Code	Type	Total weight	kg
480700	PK 16	to 2000 kg	2,90

accessory for winch trailers

Interchangeable eye coupling including screws for TL 2422/3022 DRH/DRHZ

Code	Type	Total weight	kg
480720	LK 16	bus 2700 kg	4,00

Cable capstan winches 40-50 kN

Cable capstan winches with hydraulic drive. Please select digital pull recorder or dynamometer as accessory to your need. A swivel with friction bearing is included. All other techn. details and accessory see below.

- Without rope, Cap. m/mm: 1100/12, 1300/11 or 950/13.
- Diesel engine Lamborghini, 33 kW, pay out speed 0-93 m/min.
- Easy pay out of the rope without energy due to automatic unwinding of the drum.
- Mounted on one axle trailer with height adjustable draw bar with overrun brake with eye coupling
- With swing out canopy. Winch furnishing RAL 1007 yellow.

Code	Type	Engine	Pull 1: m/min.	Pull 2: m/min.	kg
446241	TL 4041 DRHZ	Diesel 10 kW	40 kN / 0-23	10 kN / 0-115	1.480,00
446491	TL 5041 DRHZ	Diesel 10 kW	50 kN / 0-19	10 kN / 0-93	1.485,00

Ball coupling

Ball coupling with screws, changeable against drawbar eye for trailers with overrun brake.

Code	Type	Total weight	kg
349190	PK 25	to 2500 kg	2,90

Electronic pull recorder MP 30 USB

Electronic digital line pull data recorder MP 30 with overload setting and automatic overload cut-off with USB interface. Digital display and storage of pulling force, pulling speed and cable length. Digital figure height 5 mm.

- The MP 30 saves the cable pull dates on an USB stick. Afterwards they can be imported in a PC.
- The OpenOffice software can be used independent of the operation system.
- In this report as PDF file company name and logo can be inserted.
- There is also possible to write a comment in the report of e.g. site or cable details.
- You will find all the programmes on the provided CD.

Code	Type	Suitable for	For pulls	Adjustable	kg
473171	MP 30/15	TL 1118 D / DE	up to 15 kN	exact per daN	3,00
473172	MP 30/23	TL 2020 DR	up to 23 kN	exact per daN	3,00
473173	MP 30/43	TL 2422/3022	up to 23 kN	exact per daN	3,00
473174	MP 30/55	TL 5041 DRHZ	up to 55 kN	exact per daN	3,00

Dynamometer

Dynamometer with admissible pull indicator and automatic cut-off. No registration of the dates.

- Protects winch and cable of overload

Code	Type	Suitable for	For pulls	Adjustable	kg
474051	ZK 12/12	TL 1118 D / DE	up to 12 kN	Scale 100 daN	0,00
474063	ZK 20/32	TL 2020 + 2019 DR	up to 23 kN	Scale 100 daN	10,00
474063	ZK 20/32	TL 2422/3022	up to 32 kN	Scale 100 daN	10,00
474065	ZK 40/50	TL 4041/5041	up to 55 kN	Scale 100 daN	10,00

Length and speed meter

Length and speed meter is used if the capstan winch is equipped with a dynamometer. Digital figure height 8 mm.

Code	Type	Suitable for	kg
474200	VL 20	all cable capstan winches	0,50

Electronic pull recorder MP 30, USB and dynamometer

Combination of electronic digital line pull data recorder MP 30 with overload setting and automatic overload cut-off with USB interface. Digital display and storage of pulling force, pulling speed and cable length digital figure height 5 mm. In addition with an dynamometer ZK. This combination secures a pull control even if one of the instruments gets invalid.

- The MP 30 saves the cable pull dates on an USB stick. Afterwards they can be imported in a PC.
- The OpenOffice software can be used independent of the operation system.
- In this report as PDF file company name and logo can be inserted.
- There is also possible to write a comment in the report of e.g. site or cable details.
- You will find all the programmes on the provided CD.

Code	Type	Suitable for	For pulls	Adjustable	kg
473180	MPZ 30/23	TL 2020 DR	up to 23 kN	exact per daN	11,00
473181	MPZ 30/33	TL 2422/3022	up to 32 kN	exact per daN	11,00
473182	MPZ 30/55	TL 4041/5041 DRHZ	up to 55 kN	exact per daN	11,00

Radio control

Radio control suitable for cable capstan winches types TL 4041/5041 DRHZ. Consisting of light mobile transmitter and receiver on the winch. Control command of winding, unwinding, continuously fast, slow.

Code	Type	Control distance	kg
474712	FST 30	approx. 300 m	5,50

Change over to manual control

Additional change over from radio control FST 30 to manual hydraulic control on all winches with radio control FST 30. Important accessory In case of failure of the radio control or due to intended manual control of the cable pull.

Code	Type	Change over to	kg
474740	APH 40	manual hydraulic control	5,50

Steel rope low torsion

Steel rope for cable capstan winches, low torsion quality, galvanized, rated strength of wire 1960 N. daN = minimum breaking load.

Code	Type	Rope-D	daN	Length	kg
487420	STC 6-6	6 mm	2550	per 1 m	0,13
487550	STC 7-6	7 mm	3480	per 1 m	0,19
487680	STC 8-6	8 mm	4540	per 1 m	0,24
48768005	STC 8-6	8 mm	4540	520 m	124,80
48768013	STC 8-6	8 mm	4540	1300 m	312,00
487810	STC 9-6	9 mm	5750	per 1 m	0,31
48781010	STC 9-6	9 mm	5750	1050 m	252,00
487930	STC 10-6	10 mm	6510	per 1 m	0,38
488060	STC 11-6	11 mm	8580	per 1 m	0,46
488180	STC 12-6	12 mm	10100	per 1 m	0,60
488310	STC 13-6	13 mm	11800	per 1 m	0,70

Steel rope torsion-free

Steel rope for cable capstan winches, high torsion-free quality, galvanized, rated strength of wire 1960 N. daN = minimum breaking load.

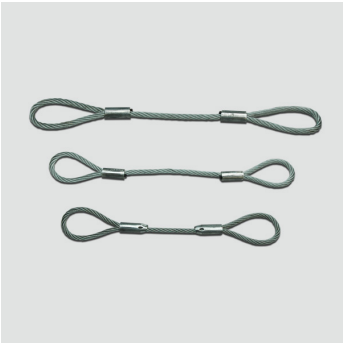
Code	Type	D	daN	Length	kg
487460	ROT 6-9	6	2000	optional	0,13
487590	ROT 7-9	7	2900	optional	0,15
487710	VS 8-35	8	4900	optional	0,30
487840	VS 9-35	9	6200	optional	0,37
487950	VS 10-35	10	7700	optional	0,46
488090	VS 11-35	11	9300	optional	0,56
488210	VS 12-35	12	11100	optional	0,66
488330	VS 13-35	13	13000	optional	0,78

Swivels

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. Not suitable for pulling overhead lines.

- Swivels for underground cables must be equipped only with friction bearings.
- With increasing pulling force friction bearings twist harder and thus avoid the untwisting of the pulling rope
- Ball bearings let untwist the ropes and leads to destruction.
- kN = minimum breaking load

Code	Type	D mm	L	Fork	Bolt	kN	kg
243020	V 20 D	20	86	7	8	21	0,16
243040	V 25 D	25	120	9	10	30	0,32
243050	V 35 D	35	130	12	14	60	0,60
243130	V 45 D	45	180	16	16	150	1,50
243140	V 50 D	50	187	18	16	165	1,90
243150	V 55 D	55	190	20	18	180	2,30
243170	V 60 D	60	217	23	20	225	3,10
243180	V 65 D	65	235	26	24	300	3,50
243190	V 75 D	75	270	30	27	320	6,70
243200	V 85 D	85	315	34	30	400	9,50
243220	V 100 D	100	350	38	36	500	14,60



Steel rope slings

Steel rope slings for connection from swivel to the cable grips. daN = minimum breaking load.

Code	Type	D	L	daN	kg
276800	SST 06	6	500	2300	0,13
276810	SST 08	8	500	4500	0,28
276820	SST 09	9	500	5600	0,35
276830	SST 10	10	500	6600	0,40
276840	SST 12	12	500	10400	1,10

Rope connecting set

Rope connecting set for solder in ropes, for pulling forces up to 3000 daN, 5 parts for rope-D 6-9 mm.

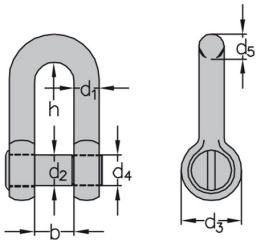
- 1 rope cone D 25 mm, 2 expansion cones, for soldering in ropes D 6-9 mm.
- 1 changeable eye nut D 25 for pulling through small ducts up to max. 1500 daN.
- 1 changeable eye nut D 35 mm for pulling forces up to 3000 daN.

Code	Type	For pull	For rope	kg
243490	SVB 25/5	to max. 3000 daN	D 6-9 mm	0,60

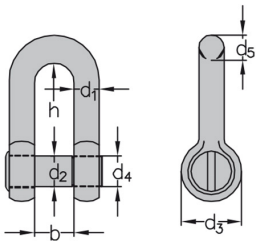
Shackle stainless steel, miniature size

Shackle stainless steel, miniature size, with slotted screw.

Code	Type	d2	d1/d5	b	h	SWL	kg
0924282615	HA1 05	5 mm	5/5 mm	10 mm	20	160 kg	0,01



Shackle slim version

Shackle galvanized, special slim version with slotted screw for easy passing ducts and cable rollers.

Code	Type	d2	d1/d5	b	h	SWL	kg
254879	SHB 04	10	8/10	14 mm	30	400 kg	0,09
254880	SHB 06	12	10/12	17 mm	36	630 kg	0,16
254881	SHB 10	16	13/15	21 mm	49	1000 kg	0,34
254882	SHB 16	20	17/19	27 mm	61	1600 kg	0,72
254883	SHB 20	22	19/21	30 mm	67	2000 kg	1,00
254884	SHB 25	24	21/23	33 mm	73	2500 kg	1,32
254885	SHB 30	27	24/26	38 mm	83	3150 kg	1,85