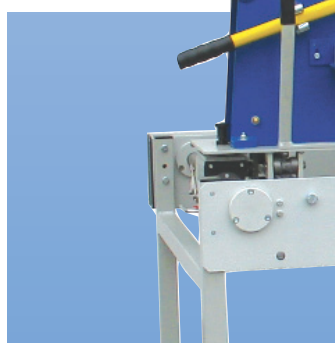
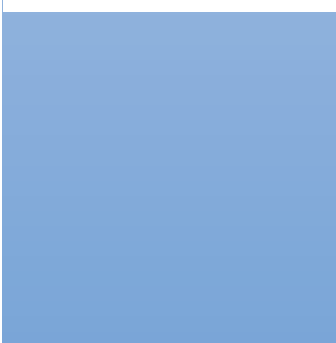
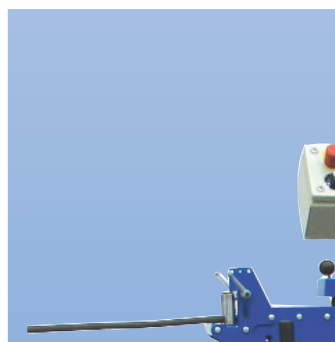
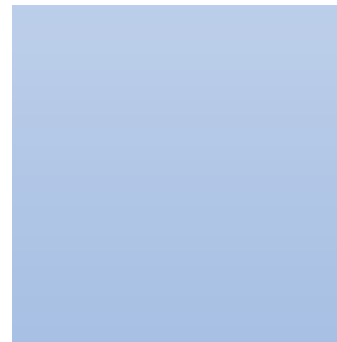
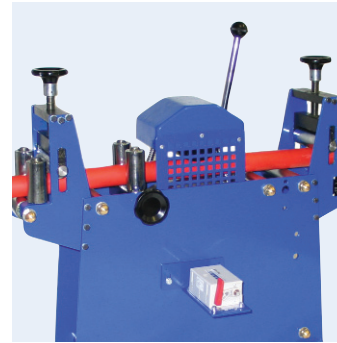
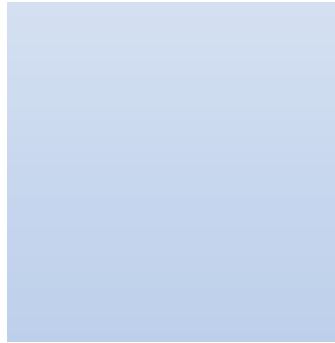
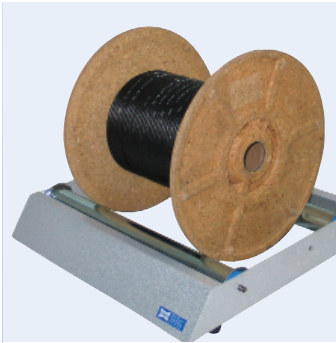


Cable winding and length measuring devices



Hand cable winding machines for cable D 3-30 mm

Electric cable ring winding machines for cable D 1-30 mm

Cable drum and ring winding machines for drums to D 1000 mm

Cable drum and ring winding machines for drums to D 1400 mm

Cable drum and ring winding machines for drums to D 25000 mm

Automatic drum and ring winding machines for drums to D 25000 mm

Accessory for all cable winding machines

Accessory electronic cable traversing

Hand and hydraulic cable cutters to winding machinery

Moving equipment hydraulic and electric for winding machinery

Cable drum storage stands for drums D 400-1800 mm

Cable and hose spooling stands for drums to D 1800 mm

Cable drum transport and winding units 3-15 t

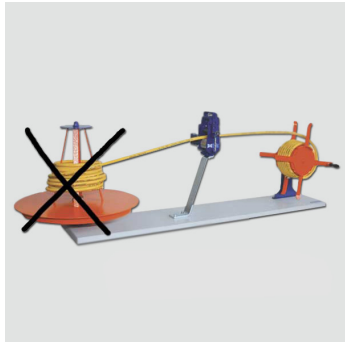
Accessory for cable drum transport and winding units

Cable winding units for drums from 10-55 t and up to D 6000 mm

Cable unwinding tools for in-house installation

Cable unwinding tools for medium and high voltage cables

Cable steel drums hot galv. D 1000-32000 mm

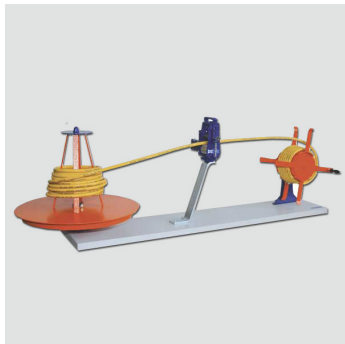


Manual cable coilers, cable-D 3-16 mm

Manual cable coilers on table plate with coil winder DW 20S with crank for winding small cables from small drums on rings or from rings to rings. Without length measuring device, prepared to take length measuring equipment HK 11 or HD 11 S optional. accessory see table below.

- Type DH 15 has no unwinding unit, which is included in DH 15 A.
- Base plate of 28 mm Base plate of glued wood 1000x250 mm
- With conic coil winder DW 20S, without ring unwinder.
- Prepared for mounting hand length measuring devices HK 11 or HD 11S.

Code	Type	C-D	Coil winder	Coil winder dimension	Cable D/m	kg
322303	DH 15	3-16 mm	DW 20S	D 380/150-170x100	5/200, 15/20	12,30



Manual cable coilers, cable-D 3-16 mm

Manual cable coilers on table plate with coil winder DW 20S with crank for winding small cables from small drums on rings or from rings to rings. Incl. coil unwinder DA 20, diam. 500x200x350 mm. Without length measuring device, prepared to take length measuring equipment HK 11 or HD 11 S optional. accessory see table below.

- In type DH 15 A is included the unwinding unit DA 20, D 500x200x350 mm.
- Base plate of 28 mm Base plate of glued wood 1250x250 mm.
- With conic coil winder DW 20S, without ring unwinder.
- Prepared for mounting hand length measuring devices HK 11 or HD 11S.

Code	Type	C-D	Coil winder	Coil winder dimension	Cable D/m	kg
322304	DH 15A	3-16 mm	DW 20S	D 380/150-170x100	5/200, 15/20	21,90

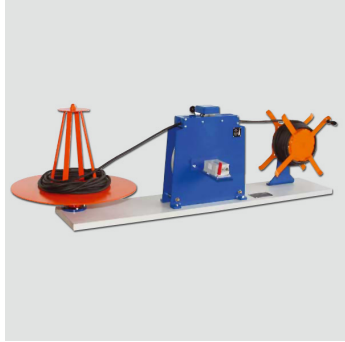


Manual cable coilers, cable-D 1-16 mm

Manual cable coilers on table plate with winder DW 20 with crank for winding small cables from small drums on rings or from rings to rings. Without length measuring device, prepared to take length measuring equipment HK 11 or HD 11 S optional. accessory see table below.

- Base plate of 28 mm Base plate of glued wood 1000x250 mm
- With conic coil winder DW 20, without ring unwinder.
- Prepared for mounting length measuring machines LM 20 or LM 20 S

Code	Type	C-D	Coil winder	Coil winder	kg
322305	DH 16	1-16 mm	DW 20	D 380/150-170x100	11,30



Manual cable coilers, cable-D 1-16 mm

Manual cable coilers on table plate with cable winder DW 20 with crank for winding small cables from small drums on rings or from rings to rings. Included unwinder DA 20, D 500x200x350 mm. Without length measuring device, prepared to take length measuring equipment LM 20 or LM 20 S.

- Base plate of 28 mm Base plate of glued wood 1000x250 mm
- With conic coil winder DW 20 and with ring unwinder.
- Prepared for mounting length measuring machines LM 20 or LM 20 S

Code	Type	C-D	Coil winder	Coil winder	kg
322307	DH 16A	1-16 mm	DW 20	D 380/150-170x100	20,80



Manual cable coiler, cable-D 3-30 mm

Manual cable coiler, column type, without coil winder, see table below. Without drum adapter shaft. For cable-D 3-30 mm. Prepared for one of the manual length measuring device, see below. Base plate 600x600 mm, through tilting easy moving by hand by 2 poly-wheels. Height to coiler centre approx. 850 mm.

- Basic machine without accessory, please select below according to your need:
- Manual length measuring device HD 11S for cable-Ø to 21 mm, or HD 12S for cable-Ø to 50 mm, see table below.
- Different coil winders, see table below
- Adapter shaft for wooden or plastic spools, see below

Code	Type	Description	accessory	kg
322308	DH 28	Manual cable coiler	see below	60,00



Manual cable length measuring devices

Manual cable length measuring devices with counter up to 999,99,99 m. Accuracy $\pm 0,8 \%$, figure height 4 mm.

- Types HK .. only for cables, types HD .. S with hardened rollers also for steel ropes.
- KB 01 Calibration. Justification before delivery through Vetter, not governmental authorization.
- Red hand grip can be unscrewed to screw the device on any other machine.

Code	Type	C-D	St-rope	L/W/H mm	kg
262400	HD 11S	3-21	3-12	300x150x70	1,40
262410	HD 12S	3-50	3-22	330x190x70	2,00
262460	HK 11	3-21	no	300x150x70	1,30

262470	HK 12	3-50	no	330x190x70	1,98
262480	KB 01	Calibration	-	-	0,01



Manual cable coiler, cable-D 3-30 mm

Manual cable coiling machine, mobile steel construction. Without drum adapter shaft, without coil winder, see table below. For cable-D 3-30 mm, or steel rope D 1-8 mm. Prepared for one of length measuring devices LM 20 - LM 40 S, see below. L/W: 1600x660 mm. Cable entrance height approx. 1150 mm.

- Basic machine without accessory, please select below according to your need:
- Cable length measuring device LM 20 for cable, or LM 20 S for steel ropes
- Cable length measuring device LM 40 for cable, or LM 40 S for steel ropes
- Different coil winders, see table below
- Adapter shaft for wooden or plastic spools, see below

Code	Type	Descript.	Coil winder dimension	Cable D/m	Cap.	kg
322313	DH 31	Without access.	---	---	100 kg	96,00
322634	DW 26VK	Coil winder	D 600/200-420, In 35-200	10/340, 20/65	100 kg	27,00
322635	DW 30V	Coil winder	D 800/250-660, In 70-250	10/850, 30/35	100 kg	39,00
322673	DS 32H	Adapter	For wooden or plastic drums	Drum-D 850x400	100 kg	5,60



Cable coiling and spooling machine

DE 30 - an universal cable coiling and spooling machine for cables from 1-30 mm. Suitable for coiling and spooling on smaller drums up to dia. 800 mm, of width to 400 mm. Two speed steps between 0-140 t/min. can be adapted to the cable diameter and its sensitivity. An automatic blocking device avoids to work with the wrong speed. DE 30 therefore is a machine for two applications: spooling of small electronic or telecommunication cables with high speed and spooling of bigger cables with reduced speed. For sensitive cables there is a possibility to limit the pulling force.

Simple and easy understandable operation through touch-screen with additional mechanical push-button. Potentiometer mounted on a pivoting operator panel. Type DE 30 SF with electronic automatic cable traversing provides an even alignment of the cable on the drum. Adjustment of the reversal points is done by push-buttons and input of the cable diameter by a control dial. Corrections of both parameters during the winding procedure are possible through laser pointer. On type DE 30 F cable traversing is done manually by the operator. Further technical details and accessory like coil winders and cable cutters see internet or leaflet no. 322

- Driving power of electric motor 230/400V, 0,75 kW, torque 130 Nm
- Frequency controlled soft start and soft stop
- For drums up to 400 mm 0-140 rpm, for drums > 400 mm 0-80 rpm
- Electronic pre-set counter for pre-selection of the cable length with automatic cut-off
- Compact construction for easy rotating in shelf corridors. Dimension 1680x900x1200 mm

Code	Type	C-D	Length meter	Cable traversing	Drum-D	kg
322326	DE 30F	1-30	LM 20-40	manual	D 800x400	212,00
322327	DE 30SF	1-30	LM 20-40	automatic	D 800x400	252,00





Power lead

Power lead from top to coiling machines DF 26-32 F/SF, two-piece. As accessory or for retrofitting of earlier supplied machines.

Code	Type	Suitable for	Height	kg
322371	SZ 3	DE 30 F	2,30 m	4,00



Cable drum and coiling machines

Cable drum and coiling machines for cables and wires. For use in cable stores at distributors, industrial plants etc. Winding and measuring from drum to drum or to coil. Machine in stable steel construction. Drum shaft for bores from 60 mm with cones clamped by hand. Cable traversing with ball bearings to mount length measuring equipment LM 20 - LM 40, moving by hands. Electronic pre-set counter included as standard equipment. Included safety cage with automatic switch-off. Easy displacement through big wheels. Further accessory see below.

- For winding from drum to drum or von drum to coils.
- Frequency controlled drive with soft start and soft stop
- Winding speed 15-80 rpm
- DTR F -drum lifting by hand-hydraulic.
- DTR FH - drum lift by electro-hydraulic

Code	Type	C-D	Drum-D	E-motor	Cap.	L/W/H m	kg
322380	DTR 80F	3-35	400-800	1,1 kW/230 V	400 kg	1,6/1,4/1,4	315,00
322382	DTR 80FH	3-35	400-800	1,1 kW/230 V	400 kg	1,6/1,4/1,4	341,00
322387	DTR 100FH	3-40	400-1000	1,5 kW/400 V	800 kg	1,8/1,7/2,0	500,00

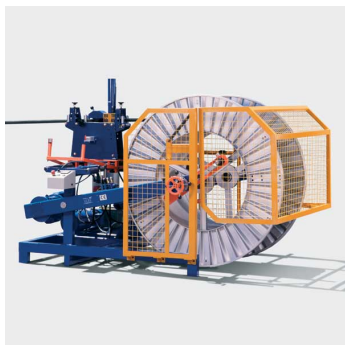


Cable drum and coiling machines

Cable drum and coiling machines. For use in cable stores at distributors, industrial plants etc. Machine in stable steel construction. Electro-hydraulic drum and coil winder lifting by 2 arms. Cable traversing with ball bearings ready to mount length measuring equipment LM 40 - LM 60, moving by hands. Electronic pre-set counter included as standard equipment. Included safety cage with automatic switch-off. Easy displacement through big wheels. Further accessory see below.

- For winding from drum to drum or von drum to coils.
- Frequency controlled drive with soft start and soft stop
- Electro-hydraulic drum lifting and hand clamping centric seals.
- The hydraulic cable cutter can be connected to the electro hydraulic.

Code	Type	C-D	Drum-D	kW/V	rpm	Cap.	L/W/H m	kg
------	------	-----	--------	------	-----	------	---------	----



322510 TR 125FH 10-35 600-1250 1,5/230 5-80 1000 kg 2,6/1,7/1,8 460,00



Cable drum and coiling machines

Cable drum and coiling machines. For use in cable stores at distributors, industrial plants etc. Machine in stable steel construction. Electro-hydraulic drum and coil winder lifting by 2 arms. Cable traversing with ball bearings ready to mount length measuring equipment LM 40 - LM 60, moving by hands. Electronic pre-set counter included as standard equipment. Included safety cage with automatic switch-off. Easy displacement through big wheels. Further accessory see below.

- For winding from drum to drum or von drum to coils.
- Frequency controlled drive with soft start and soft stop
- Drum lifting by hand spindle.

Code	Type	C-D	Drum-D	kW/V	rpm	Cap.	L/W/H m	kg
322508	TR 125F	10-35	600-1250	1,5/230	5-80	1000 kg	2,4/1,6/1,8	400,00
322516	TR 145F	10-40	600-1400	2,2/400	5-80	1500 kg	2,4/1,6/1,9	500,00

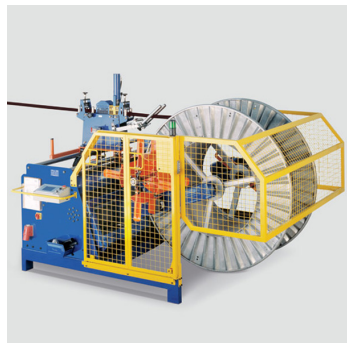


Cable drum and coiling machines

Cable drum and coiling machines. For use in cable stores at distributors, industrial plants etc. Machine in stable steel construction. Electro-hydraulic drum and coil winder lifting by 2 arms. Cable traversing with ball bearings ready to mount length measuring equipment LM 40 - LM 80, moving by hands. Electronic pre-set counter included as standard equipment. Included safety cage with automatic switch-off. Easy displacement through big wheels. Further accessory see below.

- For winding from drum to drum or von drum to coils.
- Frequency controlled drive with soft start and soft stop.
- Electro-hydraulic drum lifting and hand clamping centric seals.
- Quick clamp of the drum with mechanical ratchet seals and hydraulic seals
- The hydraulic cable cutter can be connected to the electro-hydraulic power pack.

Code	Type	C-D	Drum-D	kW/V	rpm	Cap.	L/W/H m	kg
322522	TR 146FH	10-40 mm	600-1400	2,2/400	15-80	1500 kg	2,7/2,0/1,9	560,00
322532	TR 166FH	10-45 mm	700-1600	3,0/400	15-80	2000 kg	2,4/1,9/2,1	750,00
322540	TR 206FH	10-60 mm	700-2000	5,5/400	10-60	3000 kg	2,8/2,2/2,2	1.000,00
322550	TR 256FH	10-80 mm	700-2500	7,5/400	7-50	4000 kg	2,9/2,5/2,8	1.250,00



Cable drum and coiling machines

Cable drum and coiling machines for cables and wires, Series TRG. Automatic working machine for bigger cable drums. Automatic cable traversing with infinitely variable electronic setting of the cable diameter. Cable traversing ready to mount length measuring equipment LM 40 - LM 80. Electronic pre-set counter included as standard equipment and many other special functions. Control through central touch panel with option to connection on PC. Safety cage with automatic switch-off. Further accessory see below.

- Frequency controlled drive with soft start and soft stop.
- Hydraulic open and closing of the lifting arms with automatic drum fixing.
- Including coil winder collapsible, OD 800 mm, int. D 450 mm, width 250 mm,
- Automatic swivelling of the coil winder into working position.

Code	Type	C-D	Drum-D	kW/V	rpm	Cap.	L/W/H m	kg
322529	TRG 160FH	10-45	600-1600	3,0/400	15-80	2000 kg	2,7/2,4/2,2	800,00
322539	TRG 200FH	10-60	600-2000	5,5/400	10-70	3000kg	3,0/2,4/2,4	1.000,00
322546	TRG 250FH	10-80	600-2500	7,5/400	7-60	4000kg	3,6/2,7/2,7	1.300,00



Coil winder fixed centre

Conical coil winder with fixed centre and foot.

Code	Type	C-winder to	Coil winder dimension	Cable-D/m	Cap.	kg
322623	DW 18S	DH 15-16	D 300/80-90, int. 60	5/70, 10/16	10 kg	4,00
322625	DW 20S	DH 15-16	D 380/150-170, int. 100	5/200, 15/20	20 kg	4,50
322624	DW 18	DE 30	D 300/80-90, int. 60	5/70, 10/16	10 kg	2,80
322626	DW 20	DE 30	D 380/150-170, int. 100	5/200, 15/20	20 kg	3,30



Adapter for coil winders

Adapter for coil winders on electric coil winding machines

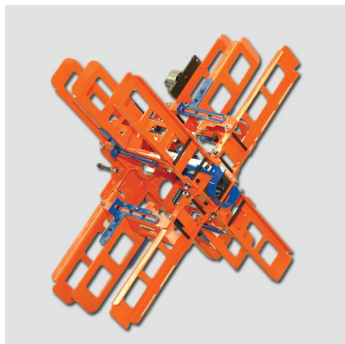
Code	Type	Suitable for	On machines	kg
322620	DWA 20	DW 18 + DW 20	DE 30	3,00



Coil winder collapsible

Coil winder adjustable in diameter and width. Collapsible for fast serving of cable rings, including cable loop for fixing the cable head on the coil winder. As accessory also available eccentric clamp code 322.875, KE 41 for cable-D 5-30 mm.

Code	Type	C-winder to	Coil winder dimension	Cable-D/m	Cap.	kg
322634	DW 26VK	DE 30 F	D 600/200-420, ln 35-200	10/340, 20/65	100 kg	27,00



Coil winder collapsible

Coil winder inside diameter not adjustable, but adjustable in width. Not collapsible for serving of cable rings, including cable loop for fixing the cable head on the coil winder. As accessory also available eccentric clamp code 322.875, KE 41 for cable-D 5-30 mm.

Code	Type	C-winder to	Coil winder dimension	Cable-D/m	Cap.	kg
322639	DW 30VK	DE 30	D 800/350, ln 80-200	10/600, 20/140	100 kg	29,00



Eccentric clamp

Eccentric clamp for fixing the cable head to the coil winder for winding procedure.

Code	Type	Suitable for	For C-D	kg
322875	KE 41	all coil winders DW 26-50	5-30 mm	0,30



Cable loops

Cable loops for fixing the cable head to the coil winder for winding procedure.

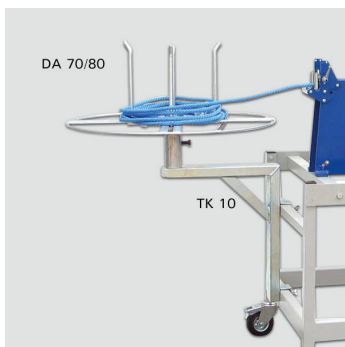
Code	Type	Suitable for	Length	Steel rope-D	kg
322869	KS 265	all coil winders	265 mm	2,0 mm	0,02
322870	KS 300	all coil winders	300 mm	2,0 mm	0,02



Adapter for drums

Adapter for wooden or plastic drums on electric coil winding machines DE 30

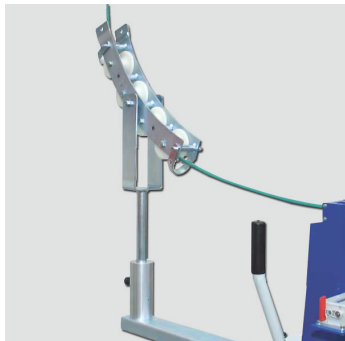
Code	Type	Suitable for	Drum-D max.	Drum width	Cap.	kg
322672	DS 32	DE 30	850 mm	330-400 mm	100 kg	5,50



Cable ring unwinder

Cable ring unwinder, without support TK 10.

Code	Type	Suitable for	For cable rings	kg
322610	DA 70	DE 30	D 250-600 mm, height 270 mm	8,40
322611	DA 80	DE 30	D 250-700 mm, height 270 mm	12,70
322614	TK 10	DH 30	Support to DA 70, DA 80 + RB 45	8,20



Roller bow with adapter

Roller bow with adapter for support for unwinding cables from drums of upper stands. Please order support TK 10, code 322.614 separately.

Code	Type	Suitable for	kg
322613	RB 45	DE 30	6,80



Box for cord spools

Box for cord spools with cord cutter

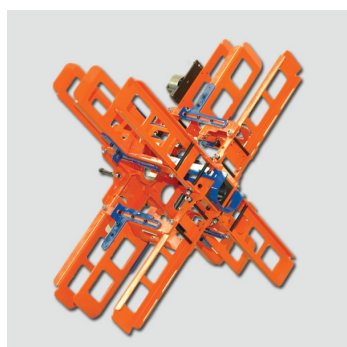
Code	Type	Suitable for	For cord spools	kg
322892	KK 30	DH 28-31 + DE 30	KO 10, of 2400 m	1,50



Hemp string spools

Hemp string spools

Code	Type	Suitable for	Cord	Package	kg
322894	KO 10	DH 28-31 + DE 30	D 1,0 mm, 2400 m/spool	1 roller	0,49
322896	KO 19	DH 28-31 + DE 30	D 1,9 mm, 310 m/spool	6 rollers	3,00



Coil winder collapsible

Coil winder collapsible, cylindrical, adjustable in width. For fast serving of cable rings, including cable loop for fixing the cable head on the coil winder. As accessory also available eccentric clamp code 322.875, KE 41 for cable-D 1-40 mm.

- After winding procedure the ring will be served through the spokes.
- To take away the ring the coil winders flange will be folded down.

Code	Type	C-winder to	Coil winder dimension	Cable-D/m	Cap.	kg
322654	DTW 80VK	DTR 80 FH	D 800/420, int. 90-200	10/600, 30/50	100 kg	37,00
322656	DTW 100VK	DTR 100 FH	D 1000/450, int. 100-250	10/1200, 30/130	100 kg	39,00



Coil winder collapsible

Coil winder collapsible, cylindrical, adjustable in width. For fast serving of cable rings, including eccentric clamp for fixing the cable head on the coil winder.

Code	Type	Suitable for	Dimension	Cable D/m	Cap.	kg
3226621	RW 36VK	TR 125-256	D 800/350, int. 90-200	10/590, 30/60	100 kg	32,00
3226631	RW 46VK	TR 125-256	D 900/450, int. 100-250	10/880, 30/100	100 kg	35,00
3226641	RW 56VK	TR 125-256	D 1000/460, int. 100-250	15/530, 30/130	100 kg	37,00

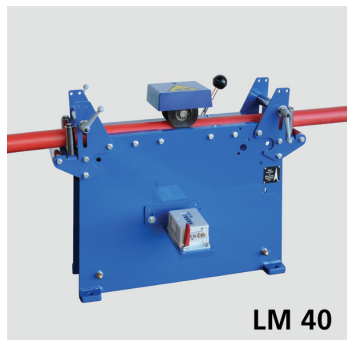


Coil winder with drive

Coil winder with drive for optional mounting on lifting arms of TR 166, 206, 256

- Coil winder with separate drive
- Hinged mounted on the machine, can be turn in when required.
- Very high winding speed of 100 rpm

Code	Type	Suitable for	Dimension	Cable D/m	Cap.	kg
322680	RWA 36VK	TR 166/206/256	D 800/350, int. 100-250	10/750, 30/80	100 kg	80,00



Cable and wire length measuring machines

Cable and wire length measuring machines for stationary applications in connection with all cable winding machines. Very robust steel construction. Due to the big perimeter of 1,00 m the accuracy is $\pm 0,2\%$, figure height 7 mm. Approved by the German Federal Physical and Technical Institute (PTB). Max. measuring speed 70 m/min. Please ask for an extensive offer.

- Types LM ... only for insulated cables, types LM ... S also for bare metal goods.
- The measuring accuracy of all LM machines is of $\pm 0,2\%$.
- The accuracy refers to a cable length of at least 20 m.
- Basic machine with mech. counter, electronic pre-counter for autom. cut-off as accessory.
- In the winding machines DTR/TR/TRG the electronic pre-set counter is installed as standard.

Code	Type	C-D	St-rope	L/W/H mm	kg
322736	LM 20	1-20	no	360/280/400	13,30
322737	LM 20S	1-20	1-8	360/280/400	13,70
322742	LM 40	3-40	no	550/300/420	28,50
322743	LM 40S	3-40	3-22	550/300/420	28,50
322748	LM 60	10-60	no	700/360/600	54,00
322749	LM 60S	10-60	6-32	700/360/600	54,00
322754	LM 80	10-80	no	870/395/670	127,00
322755	LM 80S	10-80	10-55	870/395/670	128,00



Calibration of length meters

Official calibration by authorized institute before dispatching the measuring machines LM 20-LM 80 S.

- EI 01 - official calibration is necessary if cables are sold per meter to customers.
- First official calibration can be done before supplying the winding machineries.
- Repeating calibration have to be carried out in intervals of two years on customers place.
- KA 01 - no official calibration by the supplier replaces in many cases the official calibration.
- KA 01 - very suitable for your own ISO 9000 Certification

Code	Type	kg
322791	EI 01	0,02
322795	KA 01	0,02



Leading bushings

Leading bushings for thin cables and ropes to length machine LM 20 and LM 20 S. Set of 2 pieces., easy to change.

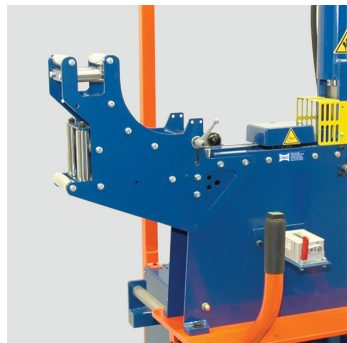
Code	Type	Suitable for	Cable/wire-D	Mounted	kg
322738	BU 06	LM 20/20S	<= 5 mm	no, accessory	0,16
322739	BU 14	LM 20/20S	<= 12 mm	yes, LM 20 S	0,16



Electronic pre-set counter

Electronic pre-set counter with incremental encoder and keyboard for pre-selection of the cable length, automatic speed reducing and cut-off for mounting on electric ring winders DE 30 F.

Code	Type	Suitable to	For mounting on	kg
322761	ZE 212M	LM 20-40 (S)	DE 30 F	1,40



Roller bow

Roller bow for unwinding cables from drum of upper drum stands. For fitting at cable length measuring machines LM. Steel rollers D 25 mm.

- Type RB 4090 and 6090 - 90° deviation for unwinding from upper drum stands, 15 steel rollers.
- Type RB 4018 and 6018 - 180° deviation for unwinding drums from opposite drum stands, 17 steel rollers.

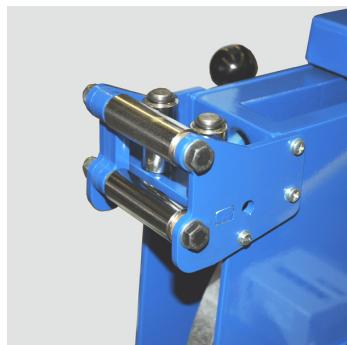
Code	Type	Suitable for	C-D	Passage	Deviation	L/W/H mm	kg
322783	RB 4090	LM 40/40S	max. 40 mm	45x45 mm	90°	400x180x380	10,10
322784	RB 4018	LM 40/40S	max. 40 mm	45x45 mm	180°	400x180x450	11,00
322781	RB 6090	LM 60/60S	max. 60 mm	65x65 mm	90°	450x200x500	13,00
322782	RB 6018	LM 60/60S	max. 60 mm	65x65 mm	180°	450x180x550	15,00



Electronic cable traversing

Automatic electronic cable traversing unit to DTR 80 and DTR 100. Adjustment return points and cable diameter electronic with key button and rotary switch on the control panel. Incl. cable layering arm VA 20 for sensitive cables.

Code	Type	Suitable for	For C-D	kg
322834	REL 26D	DTR 80-100	3-40 mm	16,00



Leading rollers

Leading in- and out rollers for fitting on cable length measuring machines LM 20 and LM 20 S. 4 steel rollers

Code	Type	Suitable for	Cable/wire-D	kg
322741	ER 20	LM 20/20S	max. 20 mm	1,20



Layering-over arm telescopic

Layering-over arm telescopic for traversing sensitive cables to REL 26D on DTR machines

Code	Type	Suitable for	For C-D	Machine	kg
322786	VA 20	DTR 80-100	3-40 mm	LM 20/40/60	8,00



Electronic cable traversing

Automatic electronic cable traversing unit to TR 125-256. Adjustment return points and cable diameter electronic with key button and rotary switch on the control panel.

Code	Type	Suitable for	For C-D	kg
322835	REL 26	TR 125	3-40 mm	18,00
322836	REL 36	TR 145-256	10-80 mm	20,00



Layering arms

Layering arms on cable length measuring machines LM 40-LM 80, for better cable traversing on winding machines TR/TRG 125-256, especially for soft or thin cables.

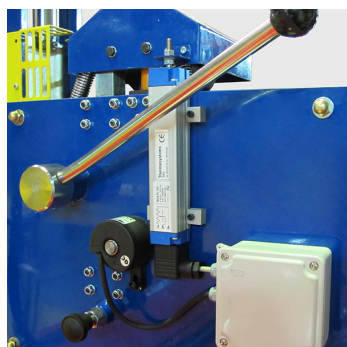
Code	Type	Suitable for	On machines	kg
322785	VA 45	LM 40-80	TR/TRG 160-256	8,00



Control arm

Control arm with nivomat to prevent from damage of Fibre Optic and sensitive CU-cables up to D 12 mm during winding process. Light control arm of aluminium, length approx. 1050 mm, bending radius R 150 mm, with adjustable weights to the winding process. Arm is easy removable for winding of heavier cables.

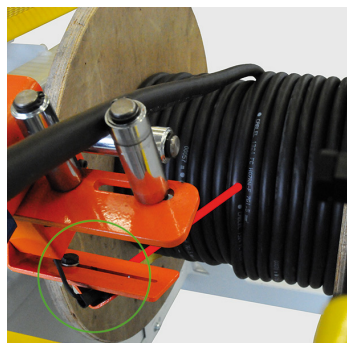
Code	Type	Suitable for	For C-D	Length	kg
322720	SAA 20	LM 20	12 mm	1050 mm	8,00
322723	SAA 40	LM 40	12 mm	1050 mm	10,00



Automatic cable measuring device

Automatic measuring device for cable diameters on DE 30 SF. The diameter is saved automatically in the electronic cable traversing unit. For mounting on LM 20-60.

Code	Type	Suitable to	For mounting on	kg
322950	ACD 75	LM 20-60	DE 30 SF	3,00



Laser-Pointer

Laser-Pointer for easy and accurate adjustment of cable traversing on cable winding machines. Fixing on layering arm or length measuring device LM 20-80

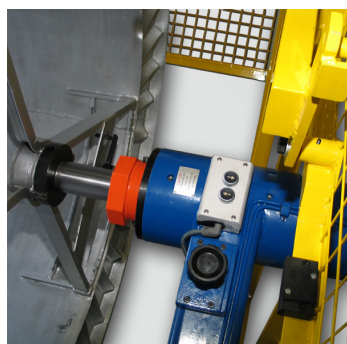
Code	Type	Colour	To mount	kg
322839	LP 10	red	on LM 20 - 80	5,00



Supporting table for two measuring machines

Supporting table for two length measuring machines LM 40-80, with two-way switch in control panel.

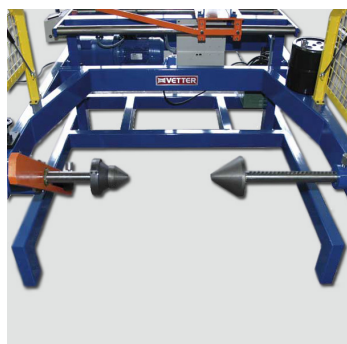
Code	Type	Suitable for	kg
322780	AM 40	TR/TRG 160-250	6,00



Hydraulic centre sleeve tightener

Hydraulic centre sleeve tightener, accessory for drum winding machineries TR 125-165 FH

Code	Type	Suitable for	kg
322840	PS 4	TR 125-165	50,00



Centring sleeves for drums

Standard all drum winding units are equipped with the following centring sleeves:

- TR/TRG 125-166 standard for centre holes of D 80 mm
- TR/TRG 200-256 standard for centre holes of D 80 and D 125 mm.
- For other centre holes special sleeves see below have to be ordered.

Code	Type	Suitable for	Fixing	Form	For hole	kg
322859	ANZ 125	TR/TRG 200-256	D 80 mm	cylindrical	D 125 mm	4,00
322860	ANZ 110	TR/TRG 125-256	D 80 mm	cylindrical	D 110 mm	6,00
322861	ANZ 107	TR/TRG 125-256	D 80 mm	cylindrical	D 100+70 mm	6,50
322862	ANZ 080	TR/TRG 125-256	D 40 mm	cylindrical	D 80 mm	4,00

322864	AKZ 66	TR/TRG 125-256	D 40 mm	conic	D 85-35 mm	5,40
322867	AKK 65	TR/TRG 125-256	conic	conic	D 85-35 mm	7,20



Hand cutter

Cable or rope hand cutter including fixing plate for mounting on cable length measuring machines LM 20-40.

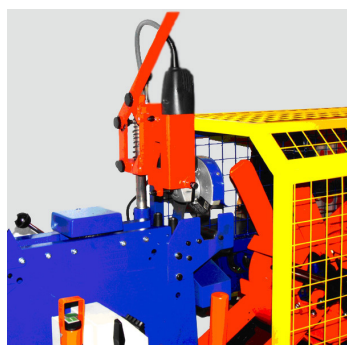
Code	Type	Suitable for	For C-D	St-ropes	kg
322810	HK 35	LM 20	35 mm	no	5,80
322812	HS 35	LM 20S	10 mm	10 mm	6,30
322815	HK 40	LM 40	40 mm	no	5,30
322816	HS 40	LM 40S	14 mm	14 mm	4,80



Cable cutting head, hydraulic

Cable cutting head, hydraulic for mounting on cable length measuring machines types LM, for cutting insulated CU- and AL-cables, not for steel ropes.

Code	Type	Suitable for	For C-D	St-ropes	kg
322818	HK 40H	LM 40	40 mm	no	11,00
322821	HK 60H	LM 60	60 mm	no	14,50
322825	HK 81H	LM 80	80 mm	no	25,00



Cutting-off machine

Cutting-off machine for cables and ropes, suitable for CU, AL, ST. Range of diameter see table below.

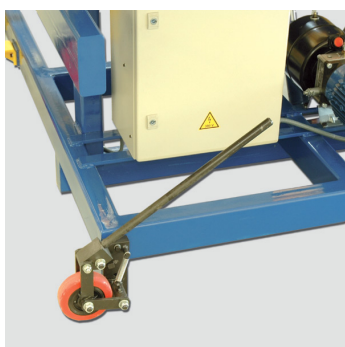
Code	Type	Suitable for	For CU/AL cable	St-ropes	kg
322802	TD 40	LM 40	up to D 22 mm	up to D 22 mm	11,00
322804	TD 60	LM 60	up to D 32 mm	up to D 32 mm	14,50
322806	TD 80	LM 80	up to D 55 mm	up to D 55 mm	18,00



Moving equipment, mech.

Moving equipment for mechanical lift of the winding machine and for displacement by a hand draw bar.

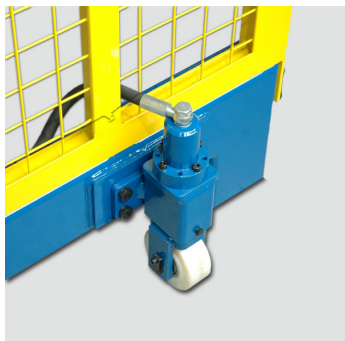
Code	Type	Suitable for	Suitable for	Lifting	Running	kg
322962	HG 90	TR 125-145	TR 146-166	Tilting draw bar	manual	18,00



Moving equipment, mech.

Moving equipment for mechanical lift of the winding machine and for displacement by a hand draw bar.

Code	Type	Suitable for	Lifting	Running	kg
322964	HG 125AB	TR 165-250	Tilting draw bar	manual	17,00



Moving equipment, hydr.

Moving equipment for electro-hydraulic lift of the winding machine and for displacement by a hand draw bar.

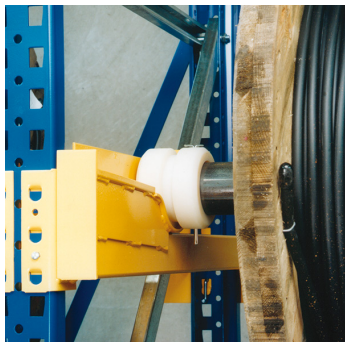
Code	Type	Suitable for	Suitable for	Lifting	Running	kg
322965	HG 100HI	TR 125-165	TR 146-166	Hydraulic	manual	25,00
322966	HG 125HI	TR 200-250	TR 206-256	Hydraulic	manual	26,00



Moving equipment, hydr.

Moving equipment for hydraulic lift of the winding machine and for displacement by electric motor drive.

Code	Type	Suitable for	Suitable for	Lifting	Running	kg
322974	HG 200HITM	DTR 100	TR 250-256	Hydraulic	Electro motor	65,00



Cable drum stands

Cable drum stands for storage and unwinding cables directly from the storage position into the cable winding machines. Length of the stands unlimited, height max. 6 m. In these stands standard cable drums can be shelved. Tell us your needs we submit you a solution.

- Suitable for all standard drums of D 400-1800 mm
- Special polyamide bushings allow safe unwinding of the cable even from above.
- Each cable stand can be adapted to your needs.
- For optimizing of your stock we would like to mail you our check list.
- You will receive a list of standard components with an offer.

Code	Type	Drum-D	Drum weight	Internal width	kg
324000	KTR-Syst	400-1800	max. 2 t each	900/1100/1300	0,00

accessory to cable drum stands

Cable drum shaft for drum stand and polyamide bearings to cable drum stands

- Light thin-walled steel tubes
- Special polyamide bushings allow safe unwinding of the cables

Code	Type	Shaft	Bearings	kg
03259230	38/900	D 38x900	-	2,00
03259232	51/900	D 51x900	-	2,61
03259234	76/900	D 76x900	-	4,50
03259236	51/1100	D 51x1100	-	5,03
03259237	76/1100	D 76x1100	-	5,50
03259238	76/1300	D 76x1300	-	6,50
03259245	LAB 38	-	for shaft-D 38 mm	0,60
03259246	LAB 51	-	for shaft-D 51 mm	0,82
03259247	LAB 76	-	for shaft-D 76 mm	0,60



Cable winding stands

Cable winding and unwinding stands, stationary or for mounting on lorries etc. For drums up to 1,5 t. Drum drives in electric, hydraulic or pneumatic version available. Techn. details see table below. Please ask for our more extensive offers.

- Winding and unwinding equipment in many designs.
- Suitable also for multiple drums for cables or hoses.
- Drum drives electric, hydraulic or pneumatic version, see code 329.5xxx as accessory.
- The drum has to be loaded from the top by a hoist.
- The switch board can be replaced on the site at any of the three frame corners.
- Accessory rotating alu-drum shaft, select 0350.692xxx depending on internal width.

Code	Type	Cap.	Drum-D	Int. width	L/W/H mm	kg
329100	KTA 1,0 ST	1,0 t	630-1400	1000 mm	1320/1140/1100	108,00
329200	KTA 1,5 ST	1,5 t	630-1800	1310 mm	1620/1450/1300	138,00



Rotating drum shafts

Rotating drum shafts suitable to cable winding stands KTA 1,0 ST and KTA 1,5 ST. Please order clamps separately.

Code	Type	Suitable for	D/length	SWL	kg
350684	TAS 7511	KTA 1,0 ST	75/1140 mm	to 5 t	23,50
3506845	TAS 7514	KTA 1,5 ST	75/1450 mm	to 5 t	24,00



Cable winding stand for 2 drums

Cable winding and unwinding stand for 2 drums, stationary or for mounting on trucks etc. For drums up to 1,0 t. Drum drives in electric, hydraulic or pneumatic version available. Techn. details see table below. Please ask for our more extensive offers.

- Winding and unwinding equipment in many designs.
- Suitable for 2 drums and also for multiple drums for cables or hoses.
- Drum drives electric, hydraulic or pneumatic version, see code 329.5xxx as accessory.
- The drums have to be loaded from the top by a hoist.
- accessory rotating alu-drum shaft, select 0350.692xxx depending on internal width.

Code	Type	Cap.	Drum-D	Int. width	L/W/H mm	kg
329054	KTA 1,2 ST	1,0 t	630-1400	any width	1400/1200/1430/1100	111,00



Cable drum drive to KTA 1.2

Cable drum drive to drum stand KTA 1.2, electric motor 0,75 kW, 400 V/50 Hz, with control box with frequency convertor, for winding and unwinding cables or hoses from KTA stand. Techn. details see table below. Please ask for our more extensive offers.

Code	Type	Drive	Pulley	Pull daN	Pull daN	m/min.	kg
329540	TEA 204	electric	D 220/80	bottom 250	on top 125	2-60	90,00



Hose winding units with rotary transmission lead through

Hose winding units with rotary transmission lead through for air, water and suction tubes. Stationary or for mounting on lorries etc. For drums up to 1,0 t. Drum drives in electric, hydraulic or pneumatic version available. Techn. details see table below. Please ask for our more extensive offers.

- Any adaptation according to your application is possible.
- Suitable for single, multiple or several single drums for hoses and cables.
- Drum drives electric, hydraulic or pneumatic version, see code 329.5xxx as accessory.
- The drum has to be loaded from the top by a hoist.
- accessory drum shaft, to be selected acc. to technical needs.

Code	Type	Cap.	Drum-D	Int. width	L/W/H mm	kg
329050	KTA 0.5 DE	0,5 t	750-1300	640 mm	1325/800/1150/1000	87,00



329051 KTA 1.0 DE 1,0 t 750-1300 840 mm 1525/1000/1350/1200 106,00



Cable winding stands

Cable winding and unwinding stands, mobile by 2 steering and 2 fixed wheels with parking brake. Wheels are coated with high wattage polyurethane. Suitable for drums up to 1,5 t and speeds up to 6 km/h. See accessories like: electro-, hydraulic- or pneumatic drum drives. Techn. details see table below. Please ask for our more extensive offers.

- Winding and unwinding equipment in many designs.
- Suitable also for multiple drums for cables or hoses.
- Drum drives electric, hydraulic or pneumatic version, see below
- The drum has to be loaded from the top by a hoist.
- accessory rotating alu-drum shaft, select 350.684xxx depending on internal width.

Code	Type	Cap.	Drum-D	Int. width	L/W/H mm	kg
329150	KTA 1,0 FA	1,0 t	630-1400	1000 mm	1330/1180/1200	144,00
329250	KTA 1,5 FA	1,5 t	630-1800	1310 mm	1630/1490/1400	174,00

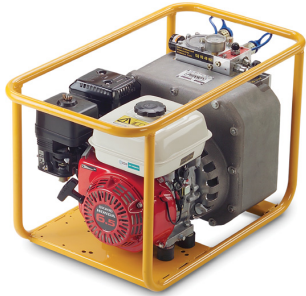


Cable drum drives

Cable drum drives for winding and unwinding cables from KTA stands. Techn. details see table below. Please ask for our more extensive offers.

- TEA 208 - Electro 1,5 kW/400V, with frequency converter 25-100 Hz
- TZ 200 - Hydraulic motor, 12 l/min. 160 bar, without hydraulic power pack
- TP 205 - Pneumatic motor, max. 1 m³/min., 6 bar, incl. air equipment

Code	Type	Drive	Pulley	Pull daN	Pull daN	rpm	kg
329550	TEA 208	electric	D 240/200	bottom 250	on top 125	0-15	118,00
351210	TZ 200	hydraul.	D 150/205	bottom 250	on top 125	0-15	69,00
351300	TP 205	pneum.	D 150/205	bottom 200	on top 100	0-15	80,00



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 winding units stationary

Cable winding units stationary or for mounting on vehicles etc. For drums up to 3.0 t. This special unit is especially prepared for a drum drive through the centre shaft of the drum. With this drive heavy cables loads can be safely lifted and lowered. Only customer selected steel drums will be fix mounted and cannot be replaced by a standard cable drum. On demand different steel drums can be supplied, which can be replaced in the KTU 3 ZE within 3-4 hours. Please ask for a more extensive offer.

- Mainly used for lowering and lifting of cables and hoses in shafts and ground drillings.
- Through this high lifting and lowering forces can be safely controlled.

Code	Type	Cap.	Drum-D	Int. width	kg
331445	KTU 3 ZE	3 t	up to 2000	any width	403,00





Cable drum drive through the centre

Drum drive for winding or unwinding of cables, hoses or other goods. Suitable for cable winding stands KTU 3 ZE. Electric braking motor 4,0 kW, 230/400 volts, frequency convertor, switch cupboard, mobile control panel with 10 m cable. Protection IP 55 hose proofed. This drum drive transmits the winding force through the central drum shaft. With this drive big cable loads can be safely lifted and lowered. Techn. details see below. Please ask for a more extensive offer.

- Electric-brake motor with mitre gear 4,0 kW, 230/400 volt.
- Frequency convertor, control box, mobile remote control with 10 m cable.
- Protection IP 55 hose proof

Code	Type	For KTU	Pull force	m/min.	kg
333227	TEZ 201	3 ZE	max. 13 kN	0-25	345,00



Cable winding units stationary

Cable winding and unwinding stands, stationary or for mounting on lorries etc. For drums up to 10 t. See accessories like drum drives, drum brakes etc. Techn. details see table below. Please ask for our more extensive offers.

- As winding unit with drum drive, accessory see below.
- As unwinding unit with drum disc brake, accessory see below.
- The both units can be combined to a complete cable winding plant.
- Between the units a traversing table with length measuring and control instruments can be placed.

Code	Type	Cap.	Drum-D	Int. /ext. width/length	kg
331350	KTU 3 ST	3 t	800-2500	1740/1960/2000 mm	420,00
331500	KTU 6 ST	6 t	800-3000	1740/2000/2200 mm	470,00
331650	KTU 10 ST	10 t	800-3300	1940/2240/2600 mm	540,00



Cable winding units mobile

Cable winding and unwinding stands, mobile by 2 steering and 2 fixed wheels with parking brake. See accessories like drum drives, drum brakes etc. Techn. details see table below. Please ask for our more extensive offers.

- Wheels are coated with high wattage polyurethane.
- Suitable for speeds up to 6 km/h.
- See accessories like drum electric, hydraulic drives, drum brakes etc.

Code	Type	Cap.	Drum-D	Int. /ext. width/length	kg
331400	KTU 3 FA	3 t	1000-2500	1715/1960/2100 mm	450,00
331550	KTU 6 FA	6 t	1000-3000	1715/2000/2340 mm	500,00
331700	KTU 10 FA	10 t	1000-3300	1915/2240/2670 mm	570,00
331708	KTU 15 FA	15 t	1200-3300	1915/2590/3315 mm	785,00



Cable winding units stationary

Cable winding and unwinding stands, with hydraulic lift, stationary or for mounting on lorries, wagons etc. For drums up to 6 t. Incl. rotating drum shaft D 76 mm with drum fixing clamps.

Accessories are available like drum drives and drum brakes. Please ask for our more extensive offers.

Code	Type	Cap.	Drum-D	Int. /ext. width/length	kg
331442	KTU 3 LH	3 t	800-2800	1740/2000/2200 mm	470,00
331562	KTU 6 LH	6 t	800-3300	1740/2040/2600 mm	520,00
331563	KTU 6 LH	6 t	800-3300	1940/2240/2600 mm	540,00



Cable winding units stationary

Cable winding and unwinding stands, without hydraulic lift, stationary or for mounting on lorries, wagons etc. For drums up to 6 t. Incl. rotating drum shaft D 76 mm with drum fixing clamps.

Accessories are available like drum drives and drum brakes. Please ask for our more extensive offers.

Code	Type	Cap.	Drum-D	Int. /ext. width/length	kg
331454	KTU 3 LS	3 t	800-2800	1740/2000/2200 mm	390,00
331566	KTU 6 LS	6 t	800-3300	1740/2040/2600 mm	460,00
331567	KTU 6 LS	6 t	800-3300	1940/2240/2600 mm	500,00



Retainer for fork lifts

Retainer for fork lifts for KTU 3-10 ST, LH and LS, not for FA. for loading the unladen machines without a cable drum on lorries or wagons. Max. size of the fork arms 125x50 mm. Applicable from the front and the side part. This support can be mounted also as retrofitting part on all machines supplied after 01.08.2012.

Code	Type	Suitable to	kg
331458	GAB 3-ST	KTU 3 ST / LH / LS	64,00
331588	GAB 6-ST	KTU 6 ST / LH / LS	54,00
331718	GAB 10-ST	KTU 10 ST / LH / LS	60,00



Hydraulic jack lifter

Hydraulic jack lifting device. Electro-hydraulic power pack, 3 kW/400V motor. Individual control of the lifting jacks. Only for initial configuration, not for retrofitting.

Code	Type	Suitable for	kg
333287	HAE 310	KTU 3-10 without drum drive	24,00
333288	HAE 311	KTU 3-10 with drum drive	24,00

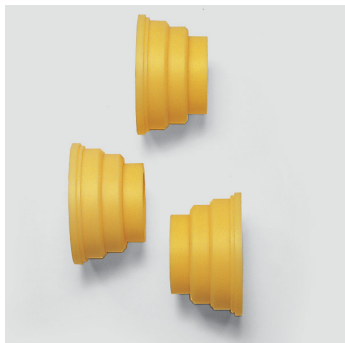


Drum drive over flange

Drum drive for winding or unwinding of cables up to D 120 mm over the drum flanges. Suitable for cable winding stands KTU. Infinitely variable speed. Techn. details see below. Please ask for a more extensive offer.

- Driving drum-D: Types ... ST, from D 800-3000 mm, Types ...FA, from D 1000-3000 mm
- TEEL 502 available as retrofitting part, for mounting on customers equipments, see pdf-drawing on the left.
- Winding force 5,0 kN on core diam. and 2,5 kN on ext. diameter
- Winding speed adjustable from 0-40 m/min.
- Hand pump can be replaced by electro-motor-hydraulic Code 333.288

Code	Type	For	Drive kW	Drum lift	kg
333250	TEE 502	KTU 3-6	El.-mech. 1,5	Hand pump	263,00
3332501	TEEL 502	Lose	El.-mech. 1,5	Hand pump	263,00
333254	TEE 534	KTU 10	El.-mech. 1,5	Hand pump	284,00
333258	TEH 502	KTU 3-6	El.-hydr. 4,0	Motor-hydr.	261,00
333259	TEH 514	KTU 10	El.-hydr. 4,0	Motor-hydr.	244,00
333277	TBH 538	KTU 3-6	Petrol-hydr. 9,6	Motor-hydr.	204,00
333280	TB 534	KTU 10	Petrol-hydr. 9,6	Motor-hydr.	259,00
333281	TDH 538	KTU 3-6	Dies.-hydr. 6,8	Motor-hydr.	225,00
333284	TDH 540	KTU 10	Dies.-hydr. 6,8	Motor-hydr.	244,00
333266	TZH 502	KTU 3-6	Ext.-Hydraulic	Motor-hydr.	152,00
333270	TZH 504	KTU 10	Ext.-Hydraulic	Motor-hydr.	164,00
351452	TZ 502	KTU 3-6	Ext.-Hydraulic	without	166,00
351554	TB 502	KTU 3-6	Petrol-hydr. 9,6	without	217,00
351654	TD 502	KTU 3-6	Dies.-hydr. 6,8	without	240,00



Stepped bushes

Stepped bushes of polyamide for shafts, with steps for drum bores according to DIN.

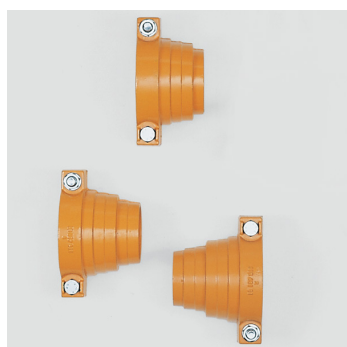
Code	Type	Shaft-D	Steps-D	kg
315510	ZBP 76	76 mm	103/125/140	0,90
315515	ZBP 90	90 mm	125/140	0,70



Clamps for drum shafts

Clamps, new construction reinforced, hinged, for drum shafts for lateral fixing of the cable drum on drum shafts of steel or alu. Hinged version, steel galvanized. Width 61 mm.

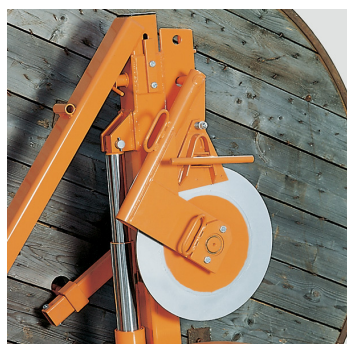
Code	Type	For shaft-D	Width	kg
315045	KSV 76	75-76 mm	61 mm	2,10
315050	KSV 90	89-90 mm	61 mm	2,40



Preparation for drum drive

Preparation of the drum shafts, its necessary if a KVS type is equipped with a hydraulic drum drive or with a drum disc brake. Instead of clamps two locating cones are supplied.

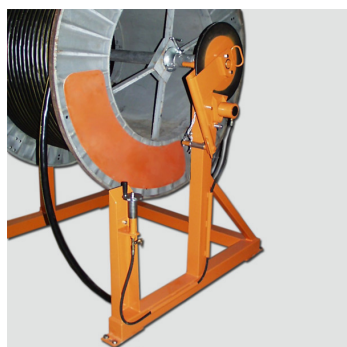
Code	Type	Shaft-D	Steps-D mm	kg
350800	VAB 760	75-76 mm	90/100/105/125/130/140	7,00



Cable drum disc brake

Cable drum disc brake with drum fork for controlled unwinding of cable or line drums. Hand mechanical setting of the braking force. To use it with KVH-types code 350.790 APR 690 is necessary.

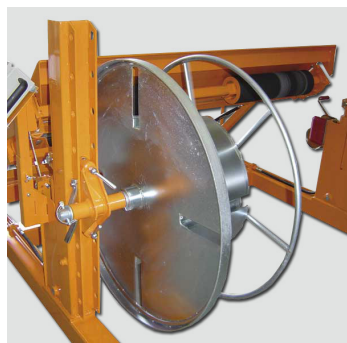
Code	Type	Operation	Braking	At the cable	kg
350860	STB 400	mechanic	3200 Nm	approx. 400 daN	46,00



Cable drum disc brake hydraulic

Cable drum disc brake without drum fork for controlled unwinding of cable drums. Hand mechanic or hand hydraulic setting of the braking force. Suitable for all KTU 3-10 ST und FA. To use it with KTU code 350.800, VAB 760 and a drum fork are necessary. Techn. details see table below.

Code	Type	Operation	Braking	At the cable	kg
350870	STC 400	hand-hydraulic	3200 Nm	approx. 400 daN	39,00



Coil winders for KTU

Coil winder for cable winding stands KTU 3-10, for serving cable rings. Steel construction galvanized. Order support separately. See table below.

Code	Type	Coil winder OD-ID	Int. width	kg
331250	RW 800	800/500-430	250 mm	37,00
331280	RW 1000	1000/600-550	300 mm	56,00
331310	RW 1400	1400/1050-1000	300 mm	86,00
331330	RA 8014	Locating device for coil winders	-	8,00



Cable traversing table

Cable traversing table for mounting cable length measuring machines. Moving manual according to the natural cable layering on the drum. Mobile equipment, to fix on the floor. Height adjustable by hand crank. Without cable length measuring device.

Code	Type	For KTU	Length measuring machines	L/W/H mm	kg
335575	LST 125	3-10 ST /FA	LM 60-80 and KLM 120	1940x1230x945-1375	145,00



LM 60

Cable and wire length measuring machines

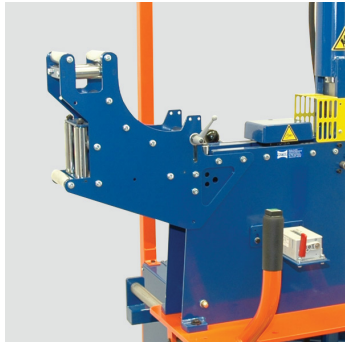
Cable and wire length measuring machines for stationary applications with all cable winding machines. Robust steel construction. Due to the big perimeter of 1,00 m the accuracy is $\pm 0,2$ %, figure height 7 mm. Approved by the German Institute (PTB). Max. measuring speed 70 m/min. Please ask for an extensive offer.

- Types LM ... only for insulated cables, types LM ... S also for bare metal goods.
- The measuring accuracy of all LM machines is of $\pm 0,2$ %.
- The accuracy refers to a cable length of at least 20 m.
- Basic machine with mech. counter, electronic pre-counter for autom. cut-off as accessory.
- In the winding machines DTR/TR/TRG the electronic pre-set counter is installed as standard.

Code	Type	C-D	St-rope	L/W/H mm	kg
322748	LM 60	10-60	no	700/360/600	54,00
322749	LM 60S	10-60	6-32	700/360/600	54,00
322754	LM 80	10-80	no	870/395/670	127,00
322755	LM 80S	10-80	10-55	870/395/670	128,00



LM 80



Roller bow

Roller bow for unwinding cables from drum of upper drum stands. For fitting at cable length measuring machines LM 60 and LM 60 S.

- Type RB 6090 - 90° deviation for unwinding from upper drum stands, 15 steel rollers D 25 mm.
- Type RB 6018 - 180° deviation for unwinding drums from opposite drum stands, 17 steel rollers D 25 mm.

Code	Type	Suitable for	C-D	Passage	Deviation	L/W/H mm	kg
322781	RB 6090	LM 60/60S	max. 60 mm	65x65 mm	90°	450x200x500	13,00
322782	RB 6018	LM 60/60S	max. 60 mm	65x65 mm	180°	450x180x550	15,00



Cable length measuring machine

Cable length measuring machine, very robust construction, measuring wheel circumference of 500 mm, with mechanical counter up to 9999,99 m. Accuracy $\pm 0,4\%$. Figure height 7 mm. Can be equipped with a pre-set counter as accessory with automatic stop facility.

Code	Type	C-D	St-rope	L/W/H mm	kg
262610	KLM 120	20-120	no	505/280/600	67,00



Electronic pre-set counter

Electronic pre-set counter 230V/AC, without cables, with control panel. For pre-set of the cable length with automatic stop facility. Only for single cable length measuring machines. Select cable as accessory in your length.

Code	Type	Suitable for	Cable length	kg
322764	ZE 212P	LM 20-80 + KLM 120	without	3,30
322765	KA 2	LM 20-80 + KLM 121	2,0 m	0,30
322766	KA 5	LM 20-80 + KLM 122	5,0 m	0,40
322767	KA 10	LM 20-80 + KLM 123	10,0 m	0,50



Calibration of length meters

Official calibration by authorized institute before dispatching the measuring machines LM 20-LM 80 S.

- EI 01 - official calibration is necessary if cables are sold per meter to customers.
- First official calibration can be done before supplying the winding machineries.
- Repeating calibration have to be carried out in intervals of two years on customers place.
- KA 01 - no official calibration by the supplier replaces in many cases the official calibration.
- KA 01 - very suitable for your own ISO 9000 Certification

Code	Type	kg
322791	EI 01	0,02
322795	KA 01	0,02

Cable winding units stationary

Cable winding and unwinding stands, stationary or for mounting on lorries etc. For drums from 20-50 t. See accessories like drum drives, drum brakes etc. Techn. details see table below. Please ask for our more extensive offers.

- Possible configurations:
- Drum flange brakes, one or both sides, breaking force 1250 resp. 2500 daN at cable.
- With an additional pre- and emergency brake braking forces up to 5000 daN are possible.
- Drive of the brakes per manual hydraulic pump or by electro-hydraulic drive
- Drum drives one-side or double sides, pulling force 1600 daN resp. 3200 daN
- Adjustable on the site to any drum width.

Code	Type	Cap.	Drum-D	Int. width	kg
331736	KTU 20 ST	20 t	2000-3700	any adjustable	1.870,00
331738	KTU 20 ST	20 t	2800-4300	any adjustable	1.880,00
331740	KTU 25 ST	25 t	3600-5100	any adjustable	1.945,00
331750	KTU 50 ST	50 t	3600-5100	any adjustable	1.980,00
331752	KTU 55 ST	55 t	4300-6000	any adjustable	1.980,00

Drum shafts for KTU 20-55

Drum shafts for KTU 20-55. The height adjustable drum supports are equipped with ball bearing rollers in which the drum shafts turn easily. The stand can be adapted to any drum width. Drum shafts are available in length from 3000 to 5000 mm in partition of any 500 mm. The shaft must be of min. 1 m longer than the widest drum width. In standard it is equipped with 4 clamps for fixing the shaft and the drum. Centring bushes have to be ordered separately according to the drum shaft diameter and the bore diameter of the drums. See below.

Code	Type	D/L mm	SWL	Drum width	kg
031483334	KSR 10122	101/4000	16 t	max. 3000	187,00
031483344	KSR 10825	108/4000	20 t	max. 3000	221,00
031483354	KSR 11417	114/4000	20 t	max. 3000	184,00



031483364	KSR 12120	121/4000	24 t	max. 3000	219,00
031483374	KSR 12714	127/4000	22 t	max. 3000	178,00
031483384	KSR 12725	127/4000	30 t	max. 3000	273,00
031483424	KSR 13917	139/4000	31 t	max. 3000	231,00
031483454	KSR 13930	139/4000	38 t	max. 3000	348,00
031483464	KSR 15925	159/4000	54 t	max. 3000	355,00
031483466	KSR 15925	159/4500	54 t	max. 3500	397,00
031483476	KSR 15930	159/4500	59 t	max. 3500	454,00
031483478	KSR 15930	159/5000	59 t	max. 4000	502,00



Centring bushes for drum shafts D 101-159

Centring bushes for drum shafts to fit with the drum bore, see table below. Also available in other diameters.

Code	Type	Shaft-D	Drum bore	kg
315765	ZB 101/125	101 mm	D 125 mm	10,00
315780	ZB 101/140	101 mm	D 140 mm	12,00
315815	ZB 108/145	108 mm	D 145 mm	15,00
315818	ZB 108/200	108 mm	D 200 mm	9,00
315850	ZB 114/150	114 mm	D 150 mm	15,00
315880	ZB 114/200	114 mm	D 200 mm	15,00
315920	ZB 121/200	121 mm	D 200 mm	15,00
315945	ZB 127/150	127 mm	D 150 mm	4,00
315952	ZB 127/200	127 mm	D 200 mm	12,00
315978	ZB 139/200	139 mm	D 200 mm	12,00
315987	ZB 159/185	159 mm	D 185 mm	16,00
315989	ZB 159/200	159 mm	D 200 mm	18,00



Drum brakes for KTU 20-55

Drum brakes for KTU 20-55, operated by hand pump or electro-hydraulic pump by separate hydraulic power pack. Per drum flange 1 brake shoe in front and behind. The drum can be braked on one or on both flanges. If high braking forces are required, e.g. at cable lowering in shafts etc. the pre- and emergency brake with independent hand pump should be installed. Electric power packs for one or two flange brakes have to be ordered separately.

- Drum flange brake on one or both sides, 1250 resp. 2500 daN braking force on the cable.
- Hydraulic by hand pump or by electro-motor-hydraulic.

Code	Type	Drum-D	Brake	Braking force	kg
331753	TRB 3701	2000-3700	one-side	min. 12,5 kN	135,00
331754	TRB 4301	2800-4300	one-side	min. 12,5 kN	135,00
331756	TRB 5101	3600-5100	one-side	min. 12,5 kN	136,00
3317561	TRB 6001	4300-6000	one-side	min. 12,5 kN	149,00
3317564	TRB 3702	2000-3700	both-sides	min. 12,5 kN	250,00
331757	TRB 4302	2800-4300	both-sides	min. 25,0 kN	270,00

331758	TRB 5102	3600-5100	both-sides	min. 25,0 kN	270,00
3317581	TRB 6002	4300-6000	both-sides	min. 25,0 kN	270,00



Drum brake shoes for drum brakes to KTU 20-55

Drum brake shoes to KTU 20-55. Each brake shoe is suitable for a certain range of drum diameter, see table below. They can easily be replaced by bigger or smaller ones. They are equipped by high performance brake linings of a long service life and can simply be changed by screwing right on the field.

Code	Type	Drum-D	Radius	kg
331798	TBS 2400	2000-2400	1100	17,00
331799	TBS 2800	2400-2800	1300	17,00
331800	TBS 3200	2800-3200	1500	17,00
331804	TBS 3600	3200-3600	1700	17,00
331808	TBS 4100	3600-4100	1920	17,00
331812	TBS 4600	4100-4600	2170	17,00
331816	TBS 5100	4600-5100	2420	17,00
331818	TBS 5600	5100-5600	2675	17,00
331820	TBS 6100	5600-6100	2920	17,00

Accessory without photo

Drum pre-and emergency brake to KTU 20-55

Drum pre-and emergency brake to KTU 20-55, operated by an independent hand pump. The drum is braked from the bottom with two brake shoes on both flanges, when lowering cables in shafts etc. The brake shoes according to drum diameter have to be ordered separately.

- Drum flange brakes on both sides, min. 2500 daN braking force on the cable.
- Hydraulic only by hand pump.

Code	Type	Drum-D	Brake	Braking force	kg
3317584	TRV 3702	2000-3700	both-sides	min. 25,0 kN	213,00
331759	TRV 4302	2800-4300	both-sides	min. 25,0 kN	213,00
331760	TRV 5102	3600-5100	both-sides	min. 25,0 kN	213,00
331761	TRV 6002	4300-6000	both-sides	min. 25,0 kN	213,00



Drum drives for KTU 20-55

Drum drives for KTU 20-55, for electro-hydraulic drives of separate hydraulic power packs. Per drum flange there are 1 tandem rubber drive rollers in front and 1 behind. With this drive the drum can be driven or braked with the same force, see table below. If high braking forces are required, e.g. at cable lowering in shafts etc. the pre- and emergency brake with independent hand pump should be installed. Electric power packs for one or two flange drives have to be ordered separately.

- Drum drives, on one side or both sides, breaking force at the cable min. 800 resp. 1600 daN
- Hydraulic drive by electro-motor, continuous control.

- The drive is able to brake, braking forces are equal to the drum drive forces.

Code	Type	Drum-D	Drive	Force max./min.	m/min.	kg
331764	TAH 0802	2000-3700	one-side	16/8 kN	8/16	265,00
331765	TAH 1604	2000-3700	both-sides	32/16 kN	8/16	450,00
331770	TAH 0802	2800-4300	one-side	16/8 kN	8/16	260,00
331772	TAH 1604	3600-5100	both-sides	32/16 kN	8/16	535,00
331773	TAH 0802	4300-6000	one-side	16/8 kN	8/16	260,00
3317732	TAH 1604	4300-6000 mm	both-sides	32/16 kN	8/16	530,00



Hand pump hydraulic for drum brakes

Hand pump hydraulic for drum brakes for KTU 20-55. The drum can be braked on one or on both flanges.

Code	Type	Drive	Brake	Force max./min.	kg
331776	THH 4501	Hand pump	one-side	16/8 kN	29,00
331778	THH 4502	Hand pump	both-sides	32/16 kN	29,00



Electro-hydraulic for drum brakes

Electro-hydraulic for drum brakes for KTU 20-55. The drum can be braked on one or on both flanges.

Code	Type	Drive	Brake	Force max./min.	E-Motor	kg
331782	TEH 4501	Electro hydraulic	one-side	16/8 kN	5,5 kW	65,00
331784	TEH 4502	Electro hydraulic	both-sides	32/16 kN	11,0 kW	62,00



Electro-hydraulic for drum drives

Electro-hydraulic for drum drives for KTU 20-55. The drum can be driven on one or on both flanges.

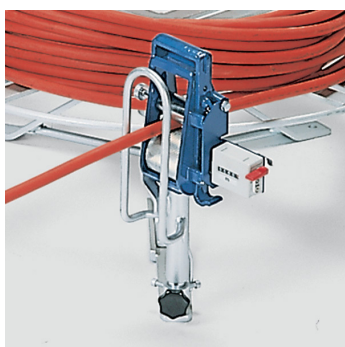
Code	Type	Drive	Drive	Force max./min.	E-Motor	kg
331786	TTH 0802	Electro hydraulic	one-side	16/8 kN	5,5 kW	137,00
331788	TTH 1604	Electro hydraulic	both-sides	32/16 kN	11,0 kW	137,00



Cable uncoiler

Cable uncoiler steel galvanized, with ball-bearings, with 4 adjustable spindles. Used for installation works. For rings of D 100-700 mm. accessory: cable length measuring devices, see table below.

Code	Type	Ring-D	Dimension	SWL	kg
320120	KA 600	100-500	D 600/440	40 kg	7,00
320140	KA 700	250-600	D 700/440	60 kg	15,50
320160	KA 800	250-700	D 800/440	60 kg	18,00



Cable length meters

Cable and line length meter for KA 700-800, counter up to 999,99 m, accuracy $\pm 0,8 \%$.

Code	Type	Suitable for	C-D	St-rope	kg
320240	KL 21	KA 700-800	3-21	no	3,40
320245	KL 21S	KA 700-800	3-21	3-12	3,50
320250	KL 50	KA 700-800	3-50	no	4,20
320255	KL 50S	KA 700-800	3-50	3-22	4,20



Cable unwinder

Cable unwinder for small drums, even with damaged flanged wheels for electric installation works. Tubular steel construction galvanized. Consisting of: basic frame with 2 rubber coated wheels, one drum shaft D 25 mm with 2 cones of polyamide for hole diameter 25-80 mm.

- Collapsible for easy transportation to the site.
- Easy movable with the drum through big rubber coated wheels.
- For drum-D up to 800 mm and drum widths up to 530 mm, drum weight max. 200 kg
- As accessory steel tube drum shaft D 50, ball bearings, 2 clamps, for cones see table below.

Code	Type	Equipment	Shaft-D	Cones for	kg
320290	KTA 8	Unwinder as above	25 mm	Holes D 25-80	11,60
320292	KTA 8W	Steel tube drum shaft	50 mm	See next line	2,05
315504	ZKP 50-80	Polyamide cones	50 mm	Holes-D 50-80	0,15
3155045	ZKP 50-108	Polyamide cones	50 mm	Holes-D 50-108	0,20



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.

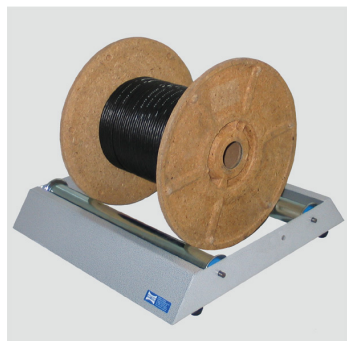
Code	Type	For drum-D	Max.	Int. width	kg
320300	KW 6-8	600-800	300 kg	600 mm	13,00
320320	KW 6-10	600-1000	500 kg	700 mm	22,00
320330	KW 6-12	600-1250	800 kg	930 mm	38,00



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



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



Drum wind off roller

Cable drum wind-off roller, alu chassis with adjustable alu-rollers with ball bearings. Two required. Techn. Details see table below.

Code	Type	Support	Wooden drum-D	Steel drum-D	kg
320710	KTA 2A	Alu	400-1000/kg 500	400-1600/kg 1000	8,20



Cable drum spindle jacks

Tripod cable drum spindle jacks, with crossbar captivated. Two required.

Below mentioned capacity is per pair. Two are required

Code	Type	Cap.	Drum-D	kg
310200	LQ 20/540	4 t	max. 1600 mm	12,10



Cable drum lifter

Cable drum lifter, easy to handle, with adjustable catching claws. Steel construction galvanized. For one pair select one left-hand and one right-hand.

For one pair select one left-hand and one right-hand.

Code	Type	Design	SWL	Drum-D	kg
311100	TM 10L	Left-hand	1,0 t	500-1650 mm	14,00
311110	TM 10R	right-hand	1,0 t	500-1650 mm	14,00

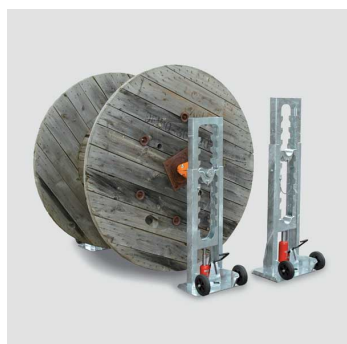


Cable drum rack-and-pinion jacks

Cable drum rack-and-pinion jacks, with height adjustable side claws. Safety crank and 2 rubber wheels.

Below mentioned capacity is per pair. Two are required

Code	Type	Cap.	Drum-D	Base	Height min.	kg
311130	TZ 15	3 t	600-1750	500/330	805 mm	32,00
311220	TZ 30	6 t	800-2500	625/450	1045 mm	64,00
311250	TZ 50	10 t	1000-3200	625/450	1350 mm	87,00
311280	TZ 80	16 t	1000-3200	625/450	1400 mm	108,00

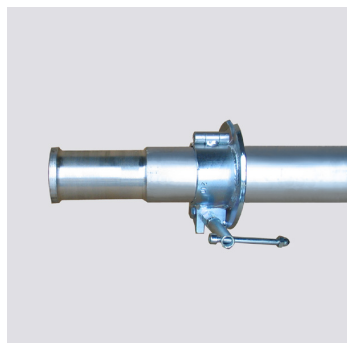


Cable drum hydraulic jacks

Cable drum hydraulic jacks, with height adjustable central claw and 2 rubber wheels. Steel construction galvanized.

Below mentioned capacity is per pair. Two are required

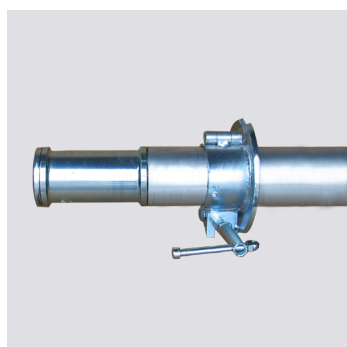
Code	Type	Cap.	Drum-D	Base	Height min.	Lift	kg
312130	TH 31	6 t	800-2500	500/430	1340 mm	150	54,00
312160	TH 61	12 t	900-3200	650/400	1660 mm	150	96,00
312200	TH 81	16 t	900-3200	650/400	1660 mm	150	99,00



Solid alu drum shafts, rigid

Cable drum shafts rigid, solid alu with recessed ends and 2 clamps. Further lengths on request.

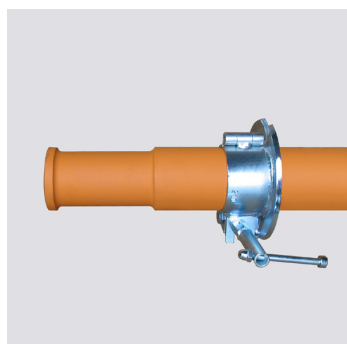
Code	Type	D/L mm	Bearing seat	SWL	kg
314150	KAV 7519	75/1900	D 66x115 mm	to 5,6 t	25,00
314190	KAV 7521	75/2100	D 66x115 mm	to 4,4 t	27,50



Solid alu drum shafts, rotating

Cable drum shafts rotating, solid alu with bearings and recessed ends and 2 clamps. Further lengths on request.

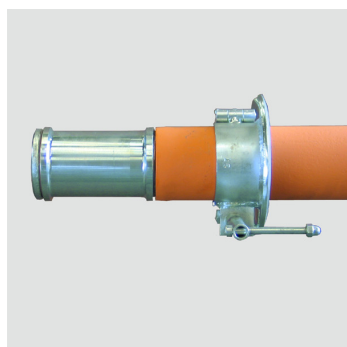
Code	Type	D/L mm	Bearing seat	SWL	kg
314600	KAD 7519	75/1900	D 66x115 mm	to 5,0 t	29,00
314640	KAD 7521	75/2100	D 66x115 mm	to 4,4 t	31,30



Tubular steel drum shafts, rigid

Cable drum shafts rigid, tubular steel with recessed ends and 2 clamps. Further lengths on request.

Code	Type	D/L mm	Bearing seat	SWL	kg
314300	KSR 5110	51/1500	D 43x115 mm	to 2,5 t	15,00
314340	KSR 7610	76/1850	D 66x115 mm	to 6,6 t	30,80
314380	KSR 7614	76/2000	D 66x115 mm	to 8,0 t	41,80



Tubular steel drum shafts, rotating

Cable drum shafts rotating, tubular steel with bearings and recessed ends and 2 clamps. Further lengths on request.

Code	Type	D/L mm	Bearing seat	SWL	kg
314760	KSD 6007	60/1500	D 50x115 mm	to 2,5 t	21,50
314770	KSD 7610	76/1850	D 66x115 mm	to 6,6 t	41,60
314810	KSD 7614	76/2000	D 66x115 mm	to 7,0 t	53,20



Solid alu drum shafts, rotating

Cable drum shafts rotating, solid alu with plain bearings without clamps. Further lengths on request.

The bearings are without recessed ends. These shafts are used for e.g. drum trailers or for any other drum lifting equipment.

Code	Type	D/L mm	Suitable for	Bearing	SWL	kg
3507871	TAS 750	75/1450	KVS 1000	D 76x80 mm	to 5 t	23,00
350789	TAS 752	75/1730	KVS 1500-2000	D 76x80 mm	to 5 t	27,00

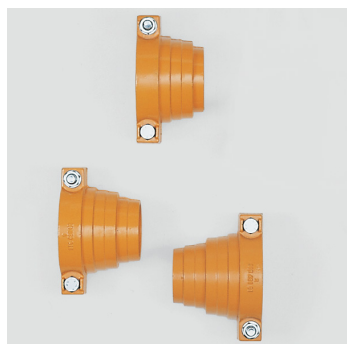


Drum shaft suspension

Suspension with shackle only for rotating drum shafts for lifting and unwinding cable drums.

Below mentioned capacity is per pair. Two are required

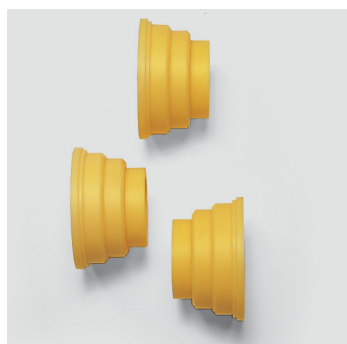
Code	Type	Shaft-D	Clamping-D	SWL	kg
315399	WAH 60	60-63 mm	52 mm	3 t	4,00
315400	WAH 76	75-76 mm	67 mm	6 t	5,20
315403	WAH 90	89-101 mm	81 mm	15 t	9,10
315406	WAH 108	108-127 mm	98 mm	28 t	25,00



Locating cones

Locating cone for drum shafts made of cast steel including clamp. With several steps for drum bores according to DIN.

Code	Type	Shaft-D	Steps-D	kg
315430	ZKO 76	75-76 mm	90/100/105/125/130/140	5,00
315460	ZKO 90	89-90 mm	100/105/125/130/140	4,80
315490	ZKO 95	94-95 mm	105/125/130/140	4,50



Stepped bushes

Stepped bushes of polyamide for shafts, with steps for drum bores according to DIN. Capable for highest drum weight.

Code	Type	Shaft-D	Steps-D	kg
315505	ZBP 51	51 mm	80	0,40
315506	ZBP 61	60 mm	80	0,35
315508	ZBP 71	70 mm	92/125/140	1,00
315510	ZBP 76	76 mm	103/125/140	0,90
315515	ZBP 90	90 mm	125/140	0,70
315520	ZBP 95	95 mm	125/140	0,60



Clamps for drum shafts

Clamp hinged, for drum shafts for lateral fixing of the cable drum on drum shafts of steel or alu. Hinged version, steel galvanized. Width 61 mm.

Code	Type	For shaft-D	Width	kg
315030	KSV 51	47-51 mm	61 mm	1,50
315035	KSV 60	60-61 mm	61 mm	1,80
315040	KSV 70	70-71 mm	61 mm	2,00
315045	KSV 76	75-76 mm	61 mm	2,10
315050	KSV 90	89-90 mm	61 mm	2,40
315055	KSV 95	95-96 mm	61 mm	2,60



Cable steel drums

Cable steel drums, robust steel profile construction, with even parallel flanges inside, galvanized. All welded construction not dismountable.

- Drums are in main dimensions acc. to DIN 46391-1.
- All other dimension are available.
- Drums up to D 4500 mm, also in furnished construction are available.

Code	Type	d1/d2	d4	L1/L2	dm³	Cap.	kg
376100	TPC 100	1000/500	80	720/630	280	1000 kg	120,00
376120	TPC 120	1200/630	80	730/630	460	1500 kg	130,00
376140	TPC 140	1400/710	80	850/750	700	2000 kg	200,00
376160	TPC 160	1600/800	80	1020/900	1060	2500 kg	250,00
376180	TPC 180	1800/1120	80	1240/1120	1500	3500 kg	310,00
376200	TPC 200	2000/1250	125	1260/1120	1800	4000 kg	450,00
376220	TPC 224	2240/1400	125	1260/1120	2250	6000 kg	550,00
376250	TPC 250	2500/1500	125	1280/1120	3100	10000 kg	710,00
376280	TPC 280	2800/1800	140	1560/1400	4500	12000 kg	830,00



Cable steel drums

Cable steel drums, with 3 chambers, robust steel profile construction, with even parallel flanges inside, galvanized. All welded construction, not dismountable.

- 3-chamber drums for cable up to 220 kV, with or without helix form.
- Special fixing points for potheads in any position possible.

Code	Type	d1/d2	d4	L1/L2	Vol. dm³	kg
37628046	TPC 280/3	2800/1250	125	1540/430/430/430	4335	1.140,00
37630045	TPC 300/3	3000/1900	140	1540/430/430/430	4863	1.290,00
37632050	TPC 320/3	3200/1800	140	1560/430/430/430	6600	1.700,00



Cable steel drums helix form

Cable steel drums, with 3 chambers, with helix forms. Robust steel profile construction, with accessory for fixing the potheads. All welded construction, not dismountable, galvanized. Below mentioned dimensions are indications. Production according individual technical details.

- 3-chamber drums for cable up to 220 kV, with helix forms.
- Special fixing points for potheads in any position possible.

Code	Type	d1/d2	d4	L1/L2	dm ³	kg
37628050	TPC 280/3	2800/1400	125	1570/430/430/430	4335	1.600,00
37632010	TPC 320/3	3200/1800	140	1540/440/440/440	6600	2.250,00