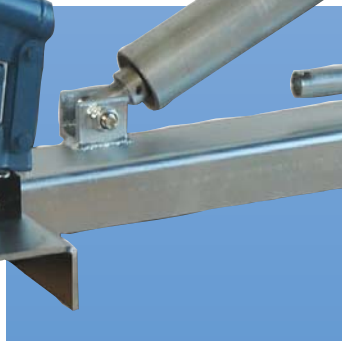
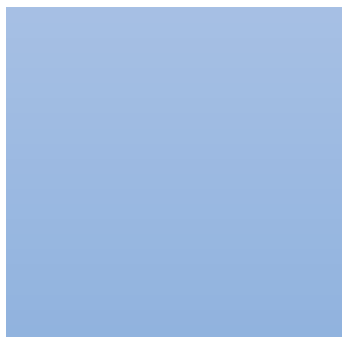
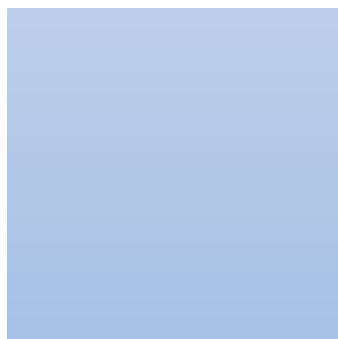
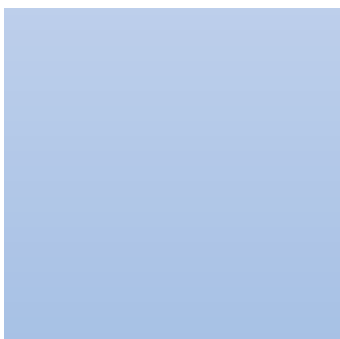
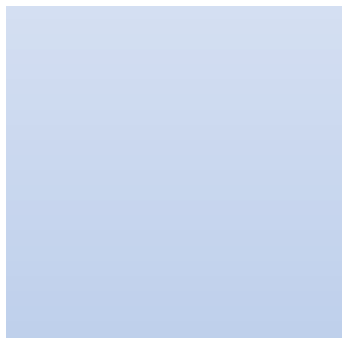


Pipe laying rollers

Pipe mounting devices





Pipe laying rollers pipe mounting devices

Pipe laying roller for pipes up to D 1500 mm

Pipe pulling equipment

Pipe mounting tools

Pipe screw sockets and mounting tools

Conduit cleaning brushes and calibres

Lubricant for pipes and cables gel and liquid

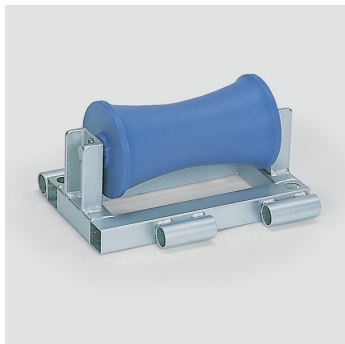
Pipe calibration and leakage-test units



Pipe roller

Pipe roller, 1 steel-roller with ball bearings, steel construction galvanized, with base plate.

Code	Type	Roller-D	Mat.	Duct-OD	SWL	L/W/H mm	kg
201080	TRS 1-300	120/76/176	Steel	up to 300 mm	200 kg	320x235x145	5,20



Pipe roller

Pipe roller, 1 polyamide-roller with friction bearings, steel construction galvanized

Code	Type	Roller-D	Mat.	Duct-OD	SWL	L/W/H mm	kg
201100	TRP 1-500	115/75x200	Polyamide	up to 500 mm	200 kg	270x200x145	5,30



Pipe roller

Pipe roller, 1 steel-roller with ball bearings, steel construction galvanized.

Code	Type	Roller-D	Mat.	Duct-OD	SWL	L/W/H mm	kg
201125	TKS 1-160	120/76/145	Steel	up to 160 mm	200 kg	250x230x240	4,20



Pipe roller

Pipe roller, 1 base- 2 lateral alu-rollers and bearings for special aluminium, steel construction galvanized.

Code	Type	Roller-D	Mat.	Duct-OD	SWL	L/W/H mm	kg
201172	TKR 3-160	50 mm	Alu	up to 160 mm	150 kg	300x250x250	5,40



Fixing nails

Fixing nails steel galvanized for fixing of all cable and pipe rollers to the ground.

Code	Type	Round steel-D	Length	kg
205690	BN 30	16 mm	30 cm	0,50
205710	BN 50	16 mm	50 cm	0,80



Pipe roller

Pipe roller, 2 high wattage-steel-rollers D 60 with ball bearings. Steel construction galvanized

Code	Type	Roller-D	Mat.	Duct-OD	SWL	L/W/H mm	kg
201250	TVR 2-500	60x200	Steel	up to 500 mm	1000 kg	540x395x205	12,60
201270	TVR 2-760	60x360	Steel	up to 760 mm	1000 kg	880x395x256	20,40



Pipe roller hydr. adjustable

Pipe roller hydr. height adjustable for pipe diam. up to 1500 mm, 2 high wattage-steel-rollers D 60 with ball bearings. Steel construction galvanized

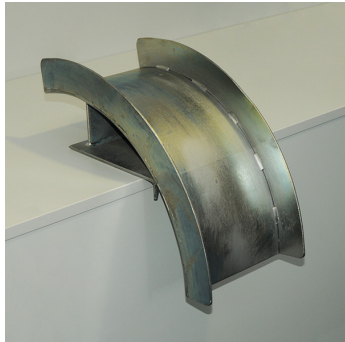
Code	Type	Roller-D	Mat.	Duct-OD	SWL	L/W/H mm	kg
201280	TVH 2-1500	60x630	Steel	up to 1500 mm	1000 kg	960x395x300	33,40



Leading-in funnel

Cable leading-in funnel, flexible metal hose for introducing all kind of cables into ducts in any position. Two mounted steel ropes lengthwise avoid damaging the flexible hose. During introducing of the cable the cables can be lubricated automatically and evenly on their whole length. Steel galvanized. These funnels can be supplied in different diameters and lengths.

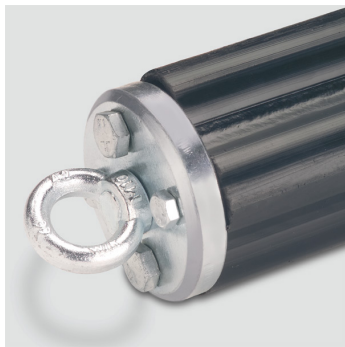
Code	Type	For duct-ID	Length	Safety	kg
273050	MET 75/30	69-72 mm	3,00 m	Steel ropes	10,40
273100	MET 98/18	98-100 mm	1,80 m	Steel ropes	8,80
273108	MET 98/40	98-100 mm	4,00 m	Steel ropes	12,90



Protective cable bows

Protective bow for pulling-in multiple ducts, steel sheet galv.

Code	Type	For multiple ducts-D	Width	kg
209230	RSB 200	2x35 + 2x28 mm	200 mm	7,00



Pulling head

Pulling head for multiple conduits D 40 and 32 mm into ducts of D 110 mm.

Code	Type	For duct-D	Max. Pull	kg
273129	MZK 4/40	2x35 + 2x28	1600 daN	1,40



Duct pulling grip

Duct pulling grip for pulling multiple conduits into ducts of D 110 mm. Opening D 85-100, Length 1650 mm.

Code	Type	Cap.-D	daN	L1/L2	kg
273270	MR 100/1	85-100 mm	8370	1500/1650	1,20



Pipe pulling heads

Pipe pulling heads for pulling in of HD-PE-pipes PN 6 and PN 10. Steel galvanized, without sealing. Pulling heads with sealing are available on request.

Code	Type	Duct-ID	Max. pull	kg
273131	RZK 32	25- 28	400 daN	0,40
273132	RZK 40	31- 36	500 daN	0,65
273133	RZK 50	39- 47	600 daN	1,20
273134	RZK 63	49- 60	1000 daN	1,55
273136	RZK 75	59- 70	1100 daN	2,20
273138	RZK 90	71- 85	1600 daN	3,85

273140	RZK 110	87-103	2500 daN	7,80
273142	RZK 125	99-116	3200 daN	12,60
273144	RZK 140	111-130	4000 daN	14,10
273146	RZK 160	127-148	5300 daN	19,40
27314610	RZK 180	144-166	5300 daN	22,00



Mounting tool for ducts

Mounting device for conduit sleeves, steel construction galvanized.

Code	Type	Duct-OD	kg
239400	MRM 32	32 mm	2,50
239410	MRM 40	40 mm	2,70
239420	MRM 50	50 mm	2,85
239430	MRM 110	110 mm	8,00



Mounting tool for halved ducts

Mounting device for closing halved conduits, steel construction galvanized.

Code	Type	Duct-OD	kg
239440	MGK 32	32 mm	0,41
239445	MGK 40	40 mm	0,44
239450	MGK 50	50 mm	0,47
239470	MGK 110	110 mm	2,80
239480	MGK 125	125 mm	2,80



Rounding tongs

Rounding tongs for correcting deformed conduits.

Code	Type	Duct-OD	kg
273240	RZA 32	32 mm	0,65
273245	RZA 40	40 mm	0,70
273250	RZA 50	50 mm	1,20



Conduit cutters

Conduit cutters for plain cuts.

Code	Type	Duct-OD	Length	kg
273171	MRS 43	to 42	215 mm	0,45
273172	MRS 50	to 50	265 mm	0,60
273173	MRS 63	to 63	285 mm	0,70
273174	MRS 75	to 75	485 mm	1,60



Burring tools

Burring tools for in- and outside of plastic conduits.

Paring knife MSM 40, for separating multiple conduits.

Code	Type	Duct-OD	Burring	Mat.	kg
273180	MRE 50	28-50	ext. /intern	Alu	0,43
273190	MRE 63	28-63	only extern	Poly	0,20
273200	MSM 40	Paring knife	-	-	0,50



Conduit and cable slitter

Conduit slitter for lengthwise and circumferential slitting of plastic conduits and cable covers. Complete reinforced steel version. In case 195x75x45 mm.

Code	Type	Up to wall thickness	L/W/H mm	kg
255905	KMS 6	6 mm	195x75x45	0,35
255910	ERM 6	Spare knife	--	0,10



Spanner

Spanner and counter spanner for screw socket fittings. Aluminium.

Code	Type	Duct-OD	kg
273420	MS 1640	16- 40	0,14
273440	MS 4075	40- 75	0,60
273460	MS 63125	63-125	1,75



Screw socket fittings

Screw socket fittings for plastic conduits, air and water tight. Safest connection for blowing-in fibre optic cables.

Code	Type	Duct-OD	Pressure	kg
273520	SM 3232	32-32	PN 16	0,19
273530	SM 4040	40-40	PN 16	0,33
273540	SM 5050	50-50	PN 16	0,47
273550	SM 6363	63-63	PN 16	0,76
273616	RM 4032	Reduction 40 auf 32	PN 16	0,25
273620	RM 5032	Reduction 50 auf 32	PN 16	0,33
273630	RM 5040	Reduction 50 auf 40	PN 16	0,50
273670	RM 6350	Reduction 63 auf 50	PN 16	0,73



Sealing plug

Conduit sealing plug applicable for duct pressure tests.

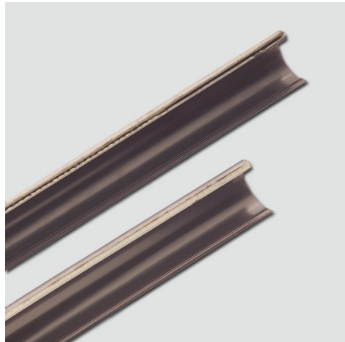
Code	Type	Duct OD	Pressure	kg
273572	ENSA 32	32 mm	up to 10 bar	0,10
273575	ENSA 40	40 mm	up to 10 bar	0,23
273580	ENSA 50	50 mm	up to 10 bar	0,29
273585	ENSA 63	63 mm	up to 10 bar	0,40
273586	ENSA 110	110 mm	up to 10 bar	1,93



Conduit union

Screwed conduit union, length 1,20 m, PN 10. If this union is mounted before blowing in the first cable, it can be opened and closed again anytime e.g. for blowing-in further cables in the same duct.

Code	Type	Duct-OD	Pressure	Length	kg
273720	RV 3240	32 mm	PN 10	1,20 m	0,86
273730	RV 4050	40 mm	PN 10	1,20 m	1,46
273740	RV 5063	50 mm	PN 10	1,20 m	2,54



Halved conduits

Halved conduits, for completion split sockets for halved conduits and mounting tools, see code 239.440-450 are necessary.

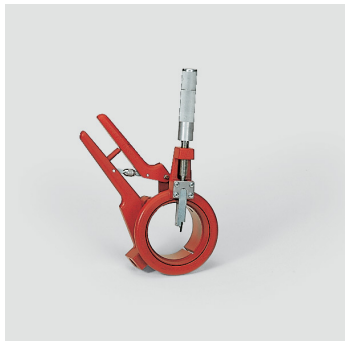
Code	Type	Duct-OD	Length	kg
273702	KHR 32	32 mm	2,00 m	0,72
273705	KHR 40	40 mm	2,00 m	0,92
273711	KHR 50	50 mm	2,00 m	1,24



Split sockets

Split sockets for closing halved conduits.

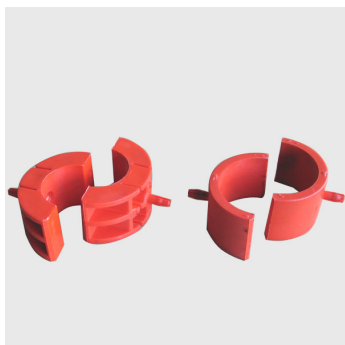
Code	Type	Duct-OD	kg
273713	KHM 32	32 mm	0,27
273714	KHM 40	40 mm	0,29
273715	KHM 50	50 mm	0,32



Conduit cutting tool

Conduit cutting and bevelling tool, clamping jaws for smaller tubes to D 40 mm see below.

Code	Type	For ducts up to	kg
239010	ROC 110	OD 110	1,80
239150	ROC 160	OD 160	2,00
239240	SP 1116	Spare knife reinforced for ROC 110-160	0,01



Clamping jaws

Clamping jaws for ROC 110 and ROC 160 for smaller ducts

Code	Type	For device	For ducts to	kg
239020	SPA 90	ROC 110	D 90 mm	0,30
239030	SPA 75	ROC 110	D 75 mm	0,30
239040	SPA 63	ROC 110	D 63 mm	0,30
239050	SPA 50	ROC 110	D 50 mm	0,30
239070	SPA 40	ROC 110	D 40 mm	0,30
239170	SPA 125	ROC 160	D 125 mm	0,30
239180	SPA 110	ROC 160	D 110 mm	0,30



Cases for cutting tools

Case for conduit cutting and bevelling tool ROC 110 and ROC 160

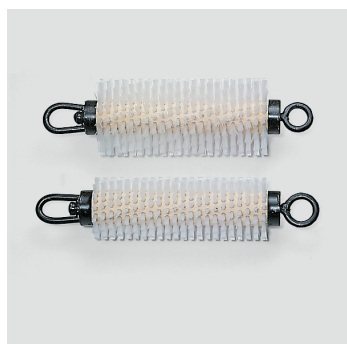
Code	Type	For device	kg
239130	RK 110	ROC 110	1,20
239220	RK 160	ROC 160	1,60



Conduit brush, steel wire

Conduit brush, steel wire, right-hand twist D 95x330/480 mm for duct int.-D 98-105 mm. For achieving a cleaning effect one brush right-hand and on brush left-hand twist must be pulled together through the duct.

Code	Type	Sense of rotation	OD	Brush-L	Total-L	kg
230190	RDB 95 R	Right-hand twist	95 mm	330 mm	480 mm	1,20
230200	RDB 95 L	Left-hand twist	95 mm	330 mm	480 mm	1,20



Conduit brush, nylon

Conduit brush synthetic bristles the ext. diameter should be approx. 5-10 mm smaller than the internal diam. of the duct.

Code	Type	OD	Brush-L	Total-L	kg
230328	RNB 57	57 mm	195 mm	315 mm	0,90
230350	RNB 77	77 mm	250 mm	410 mm	1,00
230355	RNB 85	85 mm	250 mm	410 mm	1,20
230360	RNB 92	92 mm	250 mm	410 mm	1,20
230370	RNB 97	97 mm	250 mm	410 mm	1,20
230390	RNB 117	117 mm	250 mm	410 mm	1,60
230420	RNB 147	147 mm	250 mm	410 mm	2,10
230480	RNB 197	197 mm	250 mm	410 mm	2,50



Conduit calibre balls

Conduit calibre balls, Polyamide, two pcs. special short length for passing narrow duct bows. The ball-Ø should be approx. 80-85 % of the nominal internal diam. of the duct.

Code	Type	D mm	Duct-ID	Calibre-L	Connection	kg
231250	KGP 37/37	37	40-45	2x37 mm	Clipper	0,32
231255	KGP 55/55	55	60-70	2x55 mm	Clipper	0,44



Conduit calibre

Conduit calibre, Polyamide, the calibre OD should be approx. 80-85 % of the nominal internal diam. of the duct.

Code	Type	OD mm	Duct-ID	Calibre-L	Total-L	kg
231270	KDP 50/36	36	40-45	110 mm	190 mm	0,30
231280	KDP 63/45	45	51-56	150 mm	230 mm	0,45
231290	KDP 75/55	55	61-71	200 mm	300 mm	0,85
231310	KDP 90/65	65	74-84	200 mm	300 mm	1,00
231350	KDP 110/85	85	90-104	200 mm	310 mm	1,60
231360	KDP 110/90	90	100-104	200 mm	310 mm	1,80
231380	KDP 125/95	95	102-104	250 mm	350 mm	2,20
231400	KDP 125/105	105	113-118	250 mm	350 mm	2,65
231410	KDP 140/115	115	126-132	250 mm	350 mm	3,10
231420	KDP 150/125	125	134-144	250 mm	350 mm	3,60
231425	KDP 160/130	130	134-150	250 mm	350 mm	3,90
231430	KDP 160/135	135	144-155	250 mm	350 mm	4,00
231450	KDP 180/150	150	160-170	250 mm	350 mm	5,00
231460	KDP 200/165	165	180-190	250 mm	350 mm	6,00
231470	KDP 225/185	185	200-225	250 mm	360 mm	7,30



Lubricant gel for cable and ducts

Lubricant gel like, for medium up to heaviest cables, up to 80 % friction reducing. Also suitable to reduce strongly the friction pulling-in ducts in ducts.

For lubrication unique and ultimate classification, Water pollution class - non-hazardous, acc. to VCI-Conception. Safety data sheets are available.

Code	Type	Packing drums	Units	kg
235140	J-128V	1 pail 3,8 l	Single pail	4,00
235142	J-128V	4 pails à 3,8 l	Single pail	17,00
235150	J-640V	1 pail 19 l	Single pail	20,00
235152	J-640V	33 pails à 19 l	1 Pallet	685,00



Lubricant pump

Hand operated lubricant pump for mounting on the pails J-640V or SP-640V. Three different ration settings allow the user to pump lubricants with a variety of viscosities, from liquids to gels. Most lubricants can be pumped directly to the conduit or onto the cable during installation. Two hand-free applicators for conduits from diameter 40 to 150 mm are included.

Code	Type	Capability	Hose	kg
235334	LP-3	6-8 l/min.	3 m	4,00



Lubricant liquid for cables and ducts

Lubricant liquid, for medium up to heaviest cables, excellent distribution on the cable and in the duct, up to 80 % friction reducing. Also suitable to reduce strongly the friction pulling-in ducts in ducts.

For lubrication unique and ultimate classification, Water pollution class - non-hazardous, acc. to VCI-Conception. Safety data sheets are available.

Code	Type	Packing drums	Units	kg
235200	SP-128V	1 bottle 3,8 l	single bottle	4,00
235202	SP-128V	4 bottles à 3,8 l	single bottle	17,00
235220	SP-640V	1 pail 19 l	single pail	20,00
235222	SP-640V	33 pails 19 l	1 Pallet	685,00
235230	SP-190V	1 barrel 190 l	Barrel	220,00



Duct calibration set

Conduit calibration and leakage-test unit. Calibration and leakage-test before starting the cable blowing-in procedure is the safest guarantee for successful installation of fibre optic cables. Unit consisting of:

- Compressed air regulator with adjustable tripod.
- 5 m high pressure hose, calibre D 35 mm, transmitter, for duct-D 50x4,6 mm.
- All other diam. of calibres are available, please see extensions below.
- With conduit plug and catch box for the piston.
- With electronic detector 33 kHz . Compl. set in alu-case 780x380x330 mm.

Code	Type	Duct-ID	kg
231601	RKV 40	40-41 mm	27,00



Calibre extension set

Supplementary extension set for calibration and leakage test unit.

Code	Type	Duct-ID	kg
231602	RKVE 33	33-34 mm	2,60
231603	RKVE 27	27-28 mm	2,00



Calibre housings

Calibre housings of polyamide with sleeve rings, without transmitter. Calibre length 145 mm, total length 250 mm

Code	Type	Calibre-D	Duct-ID	kg
231646	MKV 35	35 mm	40-41	0,36
2316475	MKV 28	28 mm	33-34 mm	0,29
231648	MKV 25	25 mm	27-28	0,32



Miniature transmitter D 18 mm

Miniature transmitter D 18, suitable for all a. m. calibres.

Code	Type	Calibre-D/L	Thread	For depths	kg
231620	SKS 18	18/100 mm	M 10	up to 4,0 m	0,07



Conduit plug for duct-OD

Conduit plug for fixing on duct-OD with hose safety coupling applicable for duct calibration, duct pressure tests, duct cleaning etc.

Code	Type	Duct OD	Pressure	kg
2316512	KRA 20	20 mm	up to 10 bar	0,40



Conduit plug for duct-OD

Conduit plug for fixing on duct-OD with hose safety coupling applicable for duct calibration, duct pressure tests, duct cleaning etc.

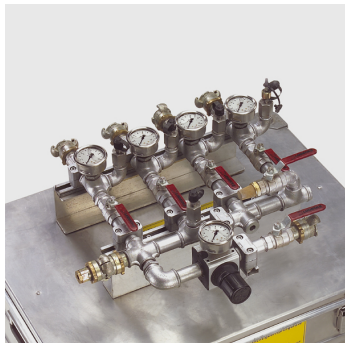
Code	Type	Duct OD	Pressure	kg
2316513	KRA 32	32 mm	up to 10 bar	0,50
231651	KRA 40	40 mm	up to 10 bar	0,84
231650	KRA 50	50 mm	up to 10 bar	0,90
231649	KRA 63	63 mm	up to 10 bar	1,00
2316541	KRA 110	110 mm	up to 10 bar	3,20



Sealing plug

Conduit sealing plug applicable for duct pressure tests.

Code	Type	Duct OD	Pressure	kg
273572	ENSA 32	32 mm	up to 10 bar	0,10
273575	ENSA 40	40 mm	up to 10 bar	0,23
273580	ENSA 50	50 mm	up to 10 bar	0,29
273585	ENSA 63	63 mm	up to 10 bar	0,40
273586	ENSA 110	110 mm	up to 10 bar	1,93



Pipe leakage test set

Pipe leakage test set 0-10 bar, for testing of 1-4 ducts simultaneously, independent of the diameter.

Code	Type	For	kg
2316291	RDP 10/1	1 duct	16,50
2316292	RDP 10/2	2 ducts	30,60
2316293	RDP 10/4	4 ducts	47,60



Pressure recorder

Pressure recording device in completion to a. m. calibration and leakage unit. Electronic measuring of pressure and hardcopy on paper and storage for further computer handling of the data.

Code	Type	For	Max. test pressure	kg
231733	DRG 10	all duct-D	10 bar	8,60