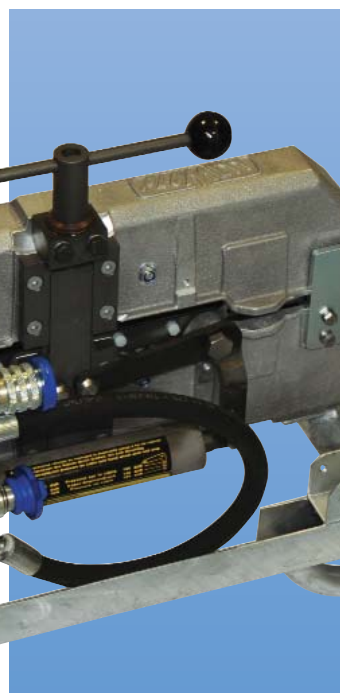
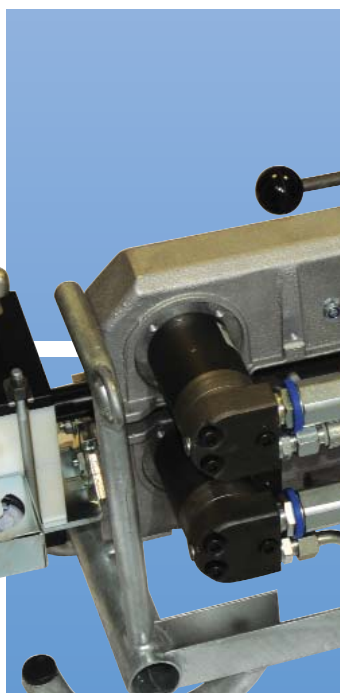
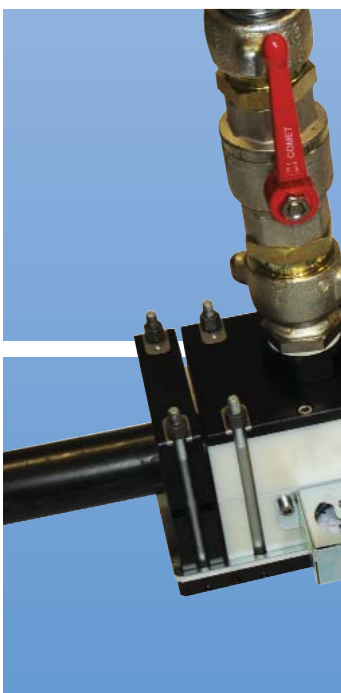
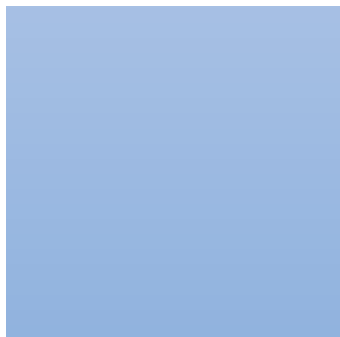
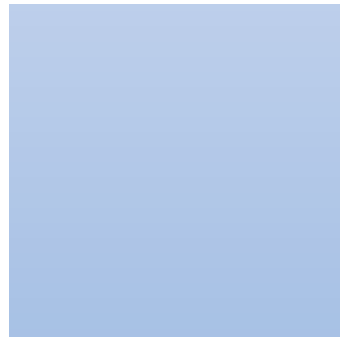
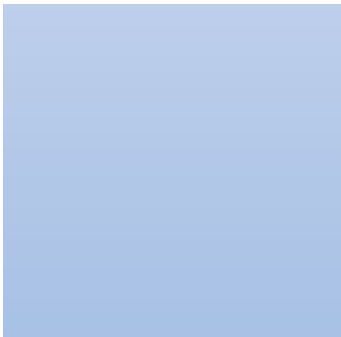
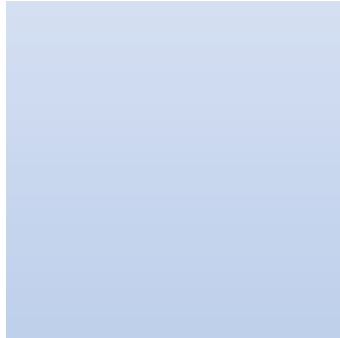


Blowing-in and pulling units for subducts





Blowing-in and pulling units for subducts

SuperJet for cables D 14-34 mm and subducts in all sizes

Subduct drum unwinding units up to 8 drums

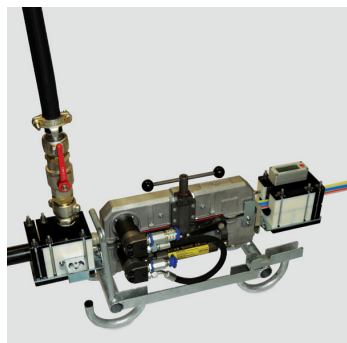
Cutter and burring tools for plastic cable ducts

Lubricants for fibre optic cables and subducts

Compressor for blowing-in subducts

Pulling-in equipment for 1 to 24 subducts

Cable lead-in tubes and rollers



SuperJet for FOC D 12-34 mm

SuperJet for tension-free blowing-in of bigger fibre optic cables and bundles of sub ducts D 7-14 mm each. A very long belt drive of 330 mm secures a correct guide of cables and sub ducts. With digital length and speed meter. Including hydraulic power pack with petrol engine and control instruments. Worldwide thousand fold proven blowing machine. For successful blowing-in of big length, in ducts of D 50 mm a compressor of 12 bar and 10 m³/min. is necessary. Basic machine without belts, cable and duct inserts. See accessory below. Basic equipment consist of the following details:

- Petrol-hydraulic pack with hoses
- Length- and speed meter
- Ball valve 1 1/2" with screw couplings.
- Air pressure hose 1 1/2", length 10 m.
- Compressor of min. 10 m³/12 bar for duct dia. 50x4,6 mm

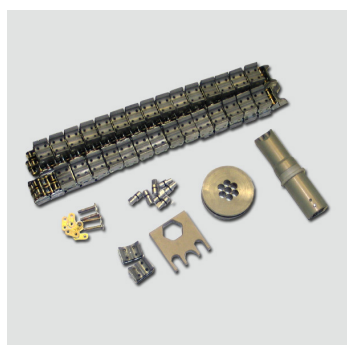
Code	Type	Cable-D	Subducts	Creeper band	Duct-D	kg
410314	SJH 34	14-34 mm	D 7-14 mm	330 mm	28-63 mm	125,00



Creeper chain for cables

Creeper chain with rubber cams for blowing-in cables of D 14-34 mm with the SuperJet. Two are required.

Code	Type	Suitable for	Cable-D	Required	kg
042500209	PRO 0820	SuperJet	14-34 mm	2 pcs.	1,60
0425002095	PRS 0821	SuperJet	Chain joint	2 pcs.	0,02



Driving chains for sub ducts

Driving chains for blowing-in subducts with the SuperJet, combination see table below.

Code	Type	Duct-OD	Subducts	In duct-OD	kg
42107007	KET 7/007	7 mm	7 pcs.	50 or 40	4,70
42107010	KET 7/010	7 mm	10 pcs.	50 or 40	4,70
42111005	KET 10/345	10 mm	3/4/5 pcs.	50 or 40	4,85
42111007	KET 10/007	10 mm	7 pcs.	50	4,70
42111203	KET 12/023	12 mm	2/3 pcs.	50 or 40	3,72
42111204	KET 12/004	12 mm	4 pcs.	50 or 40	5,70
42111205	KET 12/345	12 mm	3/4/5 pcs.	50 or 40	10,20

42111403	KET 14/023	14 mm	2/3 pcs	50	5,20
42111404	KET 14/004	14 mm	4 pcs.	50	11,00

Flat rubber chain

Flat rubber chain single incl. chain joint. This chain is mounted on the bottom to complete the existing chain of 5x7 / 5x10 and 5x12 for further subducts of 2x7 / 3x7 / 2x10 and 2x12 mm.

Code	Type	Duct-OD	Subducts	In duct-OD	kg
042113931	Flat chain	see text	see text	50 or 40	1,00

Cable inserts

Cable inserts suitable to CableJet and SuperJet. Also necessary for the Y-piece to blow-in a second or third cable in one duct. One set of cable sealing for the hole range of cable diameters is included.

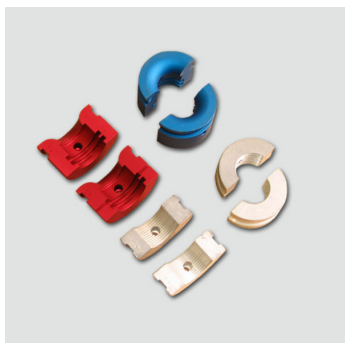
Code	Type	Cable-D	kg
41015014	KEJ 14	12,5-14,0	0,44
41015015	KEJ 15	14,0-15,5	0,44
41015018	KEJ 18	15,5-18,0	0,45
41015022	KEJ 22	17,5-22,0	0,41
41015024	KEJ 24	22,0-24,0	0,45
41015028	KEJ 28	24,0-28,0	0,41
41015032	KEJ 32	28,0-32,0	0,41
41015035	KEJ 36	32,0-36,0	0,36
41015042	KEJ 42	38,0-42,0	0,36

Cable sealing

Cable sealing for CableJet. These are also useable in the Y-piece for blowing-in of further cables in the same duct.

Code	Type	Cable-D	Set of	kg
415140	KDR 14	12,5-14,0	20 halved seals	0,01
415150	KDR 15	14,0-15,5	20 halved seals	0,02
415180	KDR 18/16	15,0-16,0	20 halved seals	0,02
41518018	KDR 18/18	16,0-18,0 mm	27 halved seals	0,02
415200	KDR 20/18	17,0-18,0	20 halved seals	0,04
41520020	KDR 20/20	18,0-20,0 mm	29 halved seals	0,04
41522022	KDR 20/22	20,0-22,0 mm	20 halved seals	0,04
415230	KDR 24	22,0-24,0	20 halved seals	0,03

415280	KDR 25	23,0-25,0	20 halved seals	0,05
41528028	KDR 28	25,0-28,0 mm	20 halved seals	0,05
41535030	KDR 32/30	28,0-30,0 mm	20 halved seals	0,12
41535033	KDR 32/32	30,0-32,0 mm	20 halved seals	0,12
41535035	KDR 36/35	32,0-35,0 mm	20 halved seals	0,09
41535038	KDR 36/38	35,0-38,0 mm	20 halved seals	0,10



Duct inserts

Duct inserts suitable to CableJet, SuperJet. Also necessary for the Y-piece to blow-in a second or third cable in one duct.

Code	Type	Duct-OD	kg
41018032	REJ 32	32 mm	1,40
41018040	REJ 40	40 mm	1,40
41018050	REJ 50	50 mm	1,40
41018063	REJ 63	63 mm	1,40



Drum unwinding stand

Drum transporting and unwinding stand for subduct drums of different suppliers. For several application e.g. on platforms of trucks or for placing on the ground or on the trailer TRA 8120, see below. Equipped with 2 lightweight aluminium shafts D 75 mm with 2 clamps and 6 spacer tubes.

Drum unwinding stand dismounted for shipment ex works. With small efforts the customer can screw it together. If not used for longer time, it can again be dismounted and stocked at a very small place.

- Sturdy steel construction, hot galvanized, screw mounted, easy dismountable for transport
- Pay load for 8 full subduct drums, total 2500 kg possible
- Two crank spindles to lift the stand for unwind the subducts in any position

Code	Type	Drum-D mm	Drum width	Int. width	L/W/H mm	kg
344100	TRG 8120	max. 1200	max. 440 mm	2160 mm	2770/2330/770	277,00



Platform Trailer

Tandem trailer prepared for mounting the drum unwinding stand TRG 8120 or for universal use for other goods. Height adjustable draw bar with overrun and parking brake. With eye and interchangeable ball coupling. Two rear crank spindles. Chamber to lodge the aluminium loading ramps. accessory 4 folding down alu-boards and 2 aluminium loading ramps. Trailer checked by Technical Inspection Agency.

Code	Type	Total	Pay load	Hitch load	L/W/H mm	kg
344300	TRA 8120	2000 kg	1245 kg	100 kg	5430/2450/600	800,00



Aluminium boards to trailer

Folding down aluminium boards to tandem trailer, four parts, height 300 mm.

Code	Type	Height	kg
344301	TRA Board	300 mm	50,00



Drum loading ramps

Drum loading ramps, light aluminium construction for easy loading subduct drums on the trailer by only one person.

Code	Type	Suitable to	Dimension	kg
344302	TRA Ramp	TRA 8120	2500x300x55 mm	20,00



Cable bundle stand

Bundle stand, triangle changeable up or downgrade, on tripod with height adjustment, steel construction galvanized.

Code	Type	Roller-D	Mat.	SWL	L/W/H mm	kg
203910	BNB 3	42x320	Steel	200 kg	900x900x1300	13,20



Air distributor for sub ducts

Air distributor device for 8 sub ducts

Code	Type	Subducts	Duct-OD	kg
275629	DVA 10	8 pcs.	10 mm	2,44
275631	DVA 12	8 pcs.	12 mm	2,80



Spiral air hose for sub ducts

Spiral air hose with coupling for air filling of sub ducts

Code	Type	Duct-OD	kg
275633	SPS 12	7-14 mm	0,75



Air connector for sub-ducts

Sealing end with air connector and manometer for blowing up sub ducts .

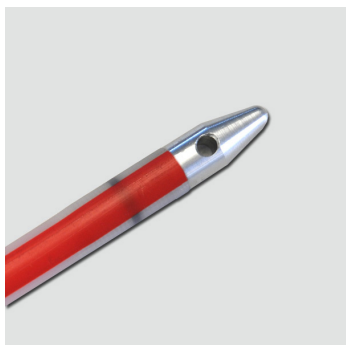
Code	Type	Duct-OD	kg
275620	VKM 10S	10 mm	0,46
275625	VKM 12S	12 mm	0,48



Air connector for sub-ducts

Air connector for blowing up single sub ducts .

Code	Type	Duct-OD	kg
275610	DAS 10	7-14 mm	0,26



Plug and pulling head

Plug, blowing and pulling head of aluminium for subducts

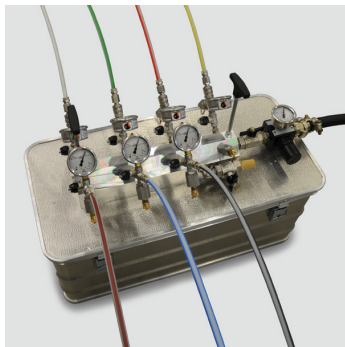
Code	Type	For duct-D	Set of	Size	kg
2739904	SDV 0707	7x0,75 mm	10 pcs.	D 7,2x44 mm	0,51
2739908	SDV 0715	7x1,50 mm	10 pcs.	D 7,2x40 mm	0,51
2739912	SDV 1010	10x1,00 mm	10 pcs.	D 10,2x50 mm	0,22
2739914	SDV 1211	12x1,10 mm	5 pcs.	D 12,2x50 mm	0,12
2739922	SDV 1413	14x1,30 mm	5 pcs.	D 14,2x50 mm	0,11
2739924	SDV 1415	14x1,50 mm	5 pcs.	D 14,2x50 mm	0,16
2739926	SDV 1420	14x2,00 mm	5 pcs.	D 14,2x50 mm	0,16



Air regulator valves for sub-ducts

Air regulator valves with tripod and 5 m exit hose. Entry hose as accessory. An important regulator for calibration and pressure tests of cable conduits and to pressure of subducts prior blowing in conduits.

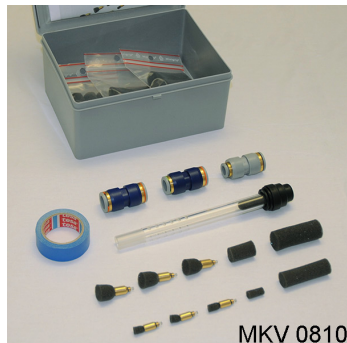
Code	Type	Pressure	Hose	kg
23163016	DLR 16	0-16 bar	Exit 5 m	11,40
231655	KFS 5/1	0-16 bar	Entry 5 m accessory	2,20
23163007	DLR 10	0-10 bar	Exit 5 m	11,10



Air pressure testing unit

Air pressure testing unit for subducts. Complete set with 7 manometers and valves. Without hoses, in alu case.

Code	Type	Subducts	Pressure	kg
275640	RDP 7	7 pcs.	0-10 bar	26,00



MKV 0810



MKV 1216



BAT 06

SKS 06

Subduct calibration sets

The calibration sets MKV 0810 and MKV 1216 in conjunction with the micro-transmitter SKS 6 (code-no. 231941) are destined for the calibration of subducts with an internal diameter 8,0 to 16,0 mm. The calibration can be done for single subducts as well as for multi subducts. By the calibration defects or blockages on the subducts can be detected in advance thus a good blowing-in performance can be achieved.

The MKV 0810 set contains two calibres with different diameters for the calibration of subducts with internal diameter 8,0 or 9,8-10,0 mm. The MKV 1216 set contains three different calibres for testing subducts of ID 12,0-to 16,0 mm. The calibres are easily screwed onto the micro-transmitter and blown through the subducts by air-pressure. The set also contains all essential connectors, reducing nipples as well as a catcher for the micro-transmitter. The catcher has to be used in order to avoid damages to the micro-transmitter. The air-pressure for the calibration has to be limited to max. 4 bars for MKV 0810 and to max. 2 bars for MKV 1216. By applying a higher pressure the micro-transmitter might be damaged by hitting duct blockages or by hard crashing into the catcher at the very end. The set contains the following parts:

- MKV 0810 with: each 3 calibre D 6,8 for ID 8,0 / 3 calibre D 8,5 for ID 9,8-10
- MKV 1216 with: each 3 calibre D 9,5 / ID 11,4-12 / 3 calibre D 11,0 / ID 15-16 / 3 calibre D 12,5 / ID 15-16 mm.
- 6 washers and 6 pressure springs to each calibre
- 5 sponges for each calibre. 1 general catcher and different connectors and duct-reducers
- Depending on the duct diameters different air connectors are necessary, see the following tables.
- SKS 06, Detection frequency 33 kHz, detection depth in the ground max. 2,0 m

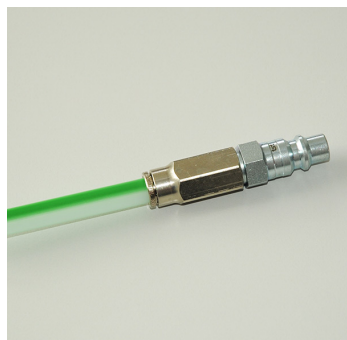
Code	Type	Device	Subduct-ID	Case	kg
231950	MKV 0810	Calibration set	8-10 mm	180x140x80 mm	1,10
231952	MKV 1216	Calibration set	12-16 mm	442x357x151 mm	4,50
231941	SKS 06	Micro transmitter	D 6,5x84 mm	--	0,04
231943	BAT 06	Set of batteries	10 each	--	0,04

Air connector for calibration sets

Air connector for subduct calibration sets.

Included in MicroJet PRM 196 and in MiniJet P 02.

Code	Type	Duct-OD	Pressure	kg
275766	DAM 10	10 mm	up to 10 bar	0,08





Air connectors for calibration sets

Air connectors for subduct calibration sets.

Code	Type	Duct-OD	Pressure	kg
275750	DAK 10	10 mm	up to 10 bar	0,39
275752	DAK 12	12 mm	up to 10 bar	0,41
275754	DAK 14	14 mm	up to 10 bar	0,40
275756	DAK 16	16 mm	up to 10 bar	0,50



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



Air regulator for calibration sets

Air regulator with manometer for subduct calibration set.

Included in MicroJet PRM 196

Code	Type	Adjustable	kg
275744	DMM 16	0-16 bar	1,43



Air regulator for calibration sets

Air regulator with manometer for subduct calibration set.

With safety couplings for air pressure hoses.

Code	Type	Adjustable	kg
275724	DMP 16	0-16 bar	1,90



Air regulator on tripod

Air regulator valves with tripod and 5 m exit hose. An important regulator for calibration and pressure tests of cable conduits and to pressure of subducts prior blowing in conduits.

Included in duct calibration set RKV 40.

Code	Type	Adjustable	Hose	kg
23163007	DLR 10	0-10 bar	Exit 5 m	11,10



Duct coupling and plug for testing subducts

Duct coupling and plug for testing subducts

Code	Type	Article	Duct-ID	kg
275635	AKM 10	Coupling	10 mm	0,05
275636	AKM 12	Coupling	12 mm	0,10
275645	VST 10	Plug	10 mm	0,07
275646	VST 12	Plug	12 mm	0,13



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



Sub duct slitter

Sub duct slitter for lengthwise slitting

Code	Type	Subduct occupied	Subduct empty	Wall thickness	L/W/H mm	kg
255940	MLS 20	from D 10x1,00	from 8x2,00	to 2,00 mm	125x50x30	0,11



Sub duct slitter

Sub duct slitter for lengthwise slitting and circumferential slitting of plastic conduits and cable covers. Cutter for empty and occupied subducts and dismantler for multiducts. Special thin and grinded turning guide shoe blade. Special shape of handle reduces danger of injury. Incl. 2 spare turning blades, e.g. 4 single blades.

Code	Type	Subduct occupied	Subduct empty	Wall thickness	L/W/H mm	kg
255950	MLS 22	from D 7x1,50	from 5x0,75	to 2,00 mm	150x100x27	0,19
255955	MLE 22	Spare knife	for LMS 22	-	-	0,02



Duct cutter

Duct cutter for occupied or empty subducts.

Code	Type	Duct-OD	For ducts	kg
272400	SDC 0314	3-14 mm	occupied and empty	0,02



Duct cutting tongs

Duct cutting tongs, only for use with empty subducts.

Code	Type	Duct-OD	For ducts	kg
272410	RSK 0214	2-14 mm	only for empty	0,10
272414	RSK 0525	5-25 mm	only for empty	0,28



Burring tool

Burring tool for in- and outside of plastic conduits. Of lightweight aluminium

Code	Type	Duct-OD	Dimension	kg
273175	MRE 26	3-26 mm	D 36x90 mm	0,39



Cable conduit saw

The cable conduit saw SRS 6 is suitable for cutting occupied and unoccupied cable conduits at an outer diameter of 32-150 mm and at a wall thickness up to 6 mm. The saw can precisely cut lengthwise and crosswise and can also precisely cut windows into the cable conduit. Especially for long cuts on the cable conduits which are necessary for cable line redirections the great benefits of this saw pay off. The cutting depth can be precisely adjusted to a tense of a millimetre by an adjustment mechanism thus the cables inside the cable conduit are well-protected. The cutting depth has always to be set 0,2 mm less than the conduits wall thickness. The remaining very thin plastic membrane will be removed by a lifter tool thus the cable is also protected during this final step.

The conduit guiding plates allow a high safety at work as well as accurate cuts. The guiding plates are available for the below mentioned conduit-diameters. The cordless saw is handy and small in order to be fit for application also in narrow working conditions its weight is below 2 kg. Included in delivery are the following parts:

- Accu-saw with high-quality blade hard metal equipped and 2 accus with 1 charger
- Adapter for the conduit guiding plates with precise adjustment of the cutting depth
- Sliding calliper and lifter for the window-cutting
- Packed and delivered in robust box, 445x355x255 mm, weight app.. 6,0 kg
- Only approx. 1,9 kg of weight for comfortable application

Code	Type	Device	For cond-OD	kg
273210	SRS 6	Saw as described above	32-150 mm	8,00
273228	RFP 32	Conduit guide plate	32 mm	0,35
273230	RFP 40	Conduit guide plate	40 mm	0,32
273232	RFP 50	Conduit guide plate	50 mm	0,26
273234	RFP 63	Conduit guide plate	63 mm	0,26
273237	RFP 64+	Conduit guide plate	64-150 mm	0,20
273222	ESB 6	Spare blade	--	0,03

Lubricant for FOC

Jettinglube lubricant for blowing-in fibre optic cables. Excellent lubricating effect. Adheres to the duct wall and leaves the cable nearly dry, an advantage for over blowing and working in cascades with further blowing machines. Consumption approx. 0,5 l per 1000 m at duct-ID 40 mm. For other duct-ID analogue

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

Code	Type	Packing drums	kg
234960	CJL 1032	1 bottle 0,95 l	1,00
234965	CJL 1032	12 bottles 0,95 l	12,00
234970	CJL 378	4 bottles 3,80 l	16,00



Lubricant liquid

Cable lubricant Softenol, liquid, for blowing-in and for pulling-in fibre optic cables.

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

Code	Type	Packing drums	kg
235800	SOF 05	1 canister 5 l	5,60
235810	SOF 10	1 canister 10 l	11,00
235830	SOF 25	1 canister 25 l	26,50
235890	SOF 190	1 barrel 190 l	200,00



Duct cleaning sponge

Sponge for duct cleaning and pre-lubricating prior to cable blowing

Code	Type	Duct-OD	Duct-ID	Cellular	kg
275408	RSM 32	32 mm	28 mm	D 45x90 mm	0,01
275410	RSM 40	40 mm	35 mm	D 55x90 mm	0,01
275412	RSM 50	50 mm	40 mm	D 65x90 mm	0,01
275414	RSM 63	63 mm	51 mm	D 78x90 mm	0,02



Compressor diesel engine

High powered compressors for blowing-in bigger fibre optic cables. Suitable for CableJet and SuperJet and for duct ID up to 41 mm. Mounted on single axle trailer with height adjustable overrun drawbar.

- Deutz Diesel-engine, 88 kW. Compressor dimension: 4720x1900x1590
- Flow rate 9,70 m³, at 12 bar working pressure
- With integrated after cooler and water separator.

Code	Type	Compressed air	Pressure	Duct-D	Cable-D	kg
960134	M 123	9,70 m³/min.	12 bar	up to ID 40	to 30 mm	1.945,00



Cutting unit

To achieve a big packing density of subducts in pipes a subduct-bundle with many single ducts from only one single drum is pulled into the duct. The cover of the subduct-bundle is to cut open and to remove manual before the bundle is pulled in. This is done with the cutting unit for subduct bundles. Consisting of double knife, 8 leading rollers and leading tongue made of stainless steel.

- With double knives, 8 leading rollers and tongue made of stainless steel.
- Lead-in width 70 mm, lead-in height 15-30 mm

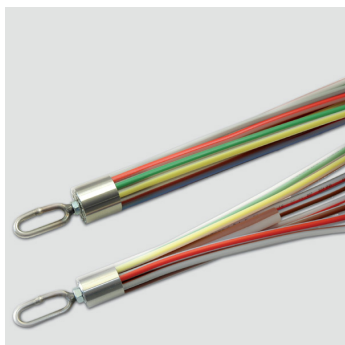


Pressure release valve

Pressure release valve for compressors with thread Rd 55, equipped with union nut Rd 55, with ball valve 3/4" with sound absorber. Connecting nipple with external thread Rd 55. For Vetter flat hoses 1 1/2". Max. pressure 12 bar.

Code	Type	Pressure	Thread	kg
275220	EVK 15	12 bar	Rd 55	2,70

Code	Type	Dimension	kg
273905	SVR 70	480x330x290 mm	30,10



Sub duct pulling heads

Subduct pulling heads for subduct bundles in short duct length. Pulling head of stainless steel, pulling eye of steel.

- Important to meet the max. allowed pulling forces given by the producer.
- Depending on the friction and allowed pull forces length up to 300 m are possible.
- At a high utilization of the duct volume the pulling lengths could be shorter.

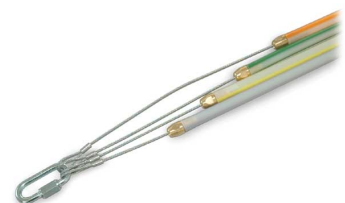
Code	Type	Subducts	In centre	Head-D	Duct-ID	kg
2739513	ZK 24/07X	24 x D 7x1,50	1xD14,0x2,00	48,5	min. 51,0	0,85
2739533	ZK 18/07	18 x D 7x1,50	non	36,0	min. 40,8	0,59
2739535	ZK 14/07	14 x D 7x1,50	non	36,0	min. 40,8	0,51
2739543	ZK 10/07X	10 x D 7x1,50	1xD 14,0x2,00	35,0	min. 40,8	0,43
2739563	ZK 10/07	10 x D 7x1,50	non	28,5	min. 32,6	0,36
2739573	ZK 8/07X	8 x D 7x1,50	1xD 14,0x2,00	28,5	min. 32,6	0,31
2739575	ZK 6/07	6 x D 7x1,50	non	24,0	min. 27,4	0,27

Sub duct pulling units

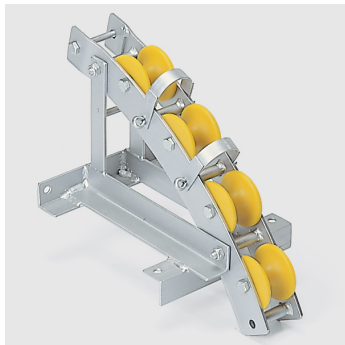
Subduct pulling units for pulling of odd parts of subducts through shorter ducts. The pulling units are divisible and can be easily combined by the user in any configuration.

- Consisting of screw link, ropes with brass nipples.
- Mind the max. allowed pulling forces given by the producer of the subducts.
- In consideration of friction and allowed pulling forces of the duct 300 m could be achieved.
- At a high filling ration pulling lengths can be much shorter.

Code	Type	Subduct-D	Duct-OD	Subduct-D	Duct-OD	kg
2739795	ZE 7/0707	7 St 7x0,95	32/40/50	--	--	0,30
2739797	ZE 7/1010	--	--	7 pc 10x2,00	40/50	0,37
2739801	ZE 1/1012	1 pc 10x1,00	32/40/50	1 pc 12x2,00	32/40/50	0,05
2739802	ZE 2/1012	2 pc 10x1,00	32/40/50	2 pc 12x2,00	32/40/50	0,08



2739803	ZE 3/1012	3 pc 10x1,00	32/40/50	3 pc 12x2,00	32/40/50	0,11
2739804	ZE 4/1012	4 pc 10x1,00	32/40/50	4 pc 12x2,00	40/50	0,14
2739805	ZE 5/1012	5 pc 10x1,00	40/50	5 pc 12x2,00	50	0,17
2739807	ZE 7/1012	7 pc 10x1,00	50	7 pc 12x2,00	50	0,23
2739808	ZE 8/1012	8 St 10x1,00	50	8 St 12x2,00	--	0,26
2739811	ZE 1/1214	1 pc 12x1,10	32/40/50	1 pc 14x2,00	32/40/50	0,06
2739812	ZE 2/1214	2 pc 12x1,10	32/40/51	2 pc 14x2,00	32/40/50	0,10
2739813	ZE 3/1214	3 pc 12x1,10	40/52	3 pc 14x2,00	40/50	0,14
2739814	ZE 4/1214	4 pc 12x1,10	40/50	4 pc 14x2,00	40/50	0,18
2739815	ZE 5/1214	5 pc 12x1,10	40/50	5 pc 14x2,00	50	0,22
2739817	ZE 7/1214	7 pc 12x1,10	50/63	7 pc 14x2,00	63	0,30
2739827	ZE 7/1414	7 pc 14x1,30	63	--	--	0,39
2739838	ZE 8/1616	--	--	8 pc 16x2,0	75/110	0,61
2739850	ZE 4/2020	--	--	4 pc 20x2,0	75/110	0,54



Cable shaft entrance roller

Cable shaft entrance roller bow, without or with base support. Roller bow 45°, Radius 600 mm, for fibre optic cables, steel construction galvanized with 4 polyamide rollers with ball bearings, diam. 80/30x50 mm.

Code	Type	Device	Bow	kg
274020	LRB 45	Roller bow, without support	45°, R 600 mm	3,60
274060	LSE 4	Shaft entrance roller with base support	45°, R 600 mm	7,30



Cable lead-in roller

Cable lead-in roller for protection of the cable and the duct. With steel tubes galvanized with fixing clamp to the duct.

Code	Type	Duct-ID	Tube-L	Roller-D	kg
274420	LER 22/1	22 mm	240 mm	80/30x38/50	0,60
274430	LER 25/1	25 mm	240 mm	80/30x38/50	0,70
274440	LER 28/1	28 mm	240 mm	80/30x38/50	0,70
274470	LER 35/1	35 mm	240 mm	80/30x38/50	0,82
274490	LER 40/1	40 mm	240 mm	80/30x38/50	0,80
274530	LER 54/1	54 mm	240 mm	80/30x38/50	0,90
274580	LER 74/1	74 mm	240 mm	80/30x38/50	1,20