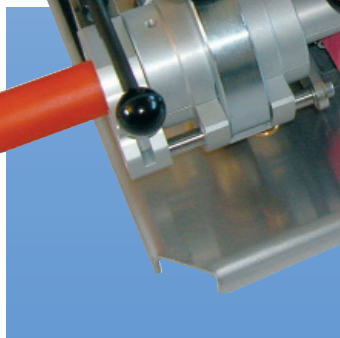
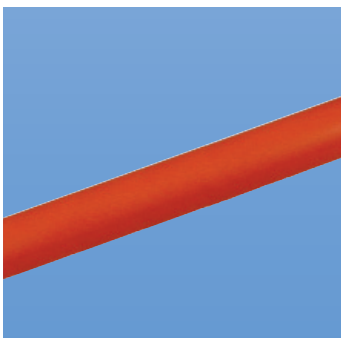
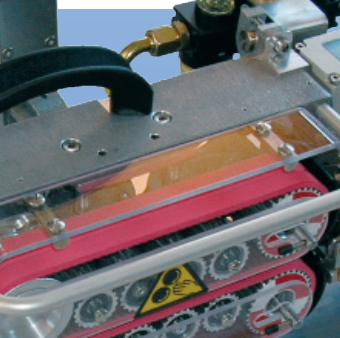
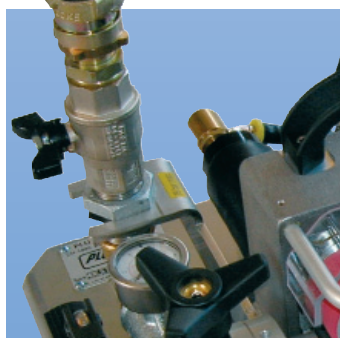
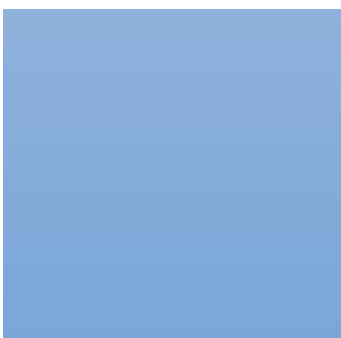
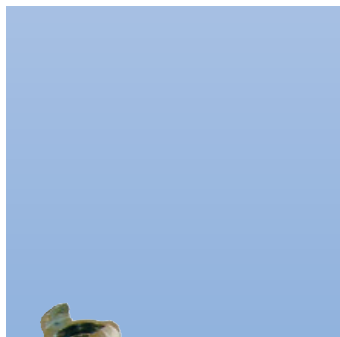
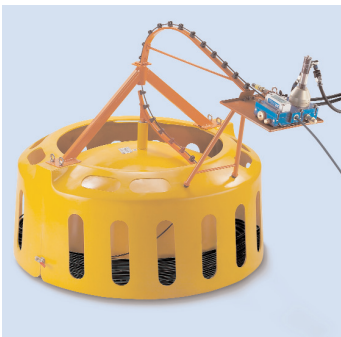
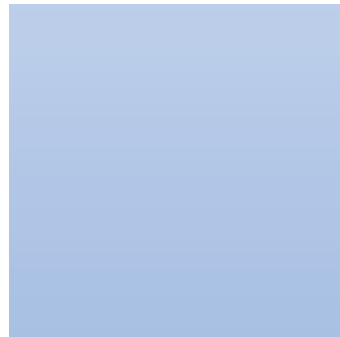
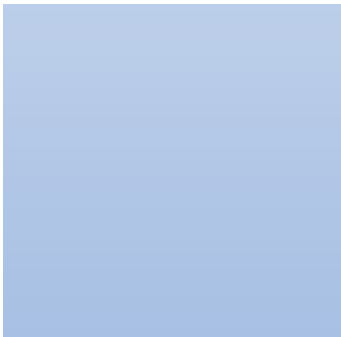
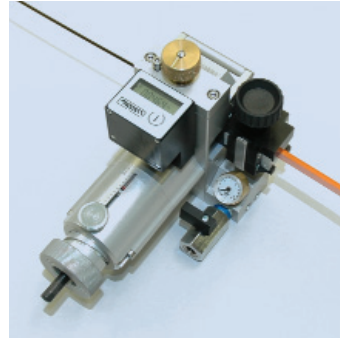
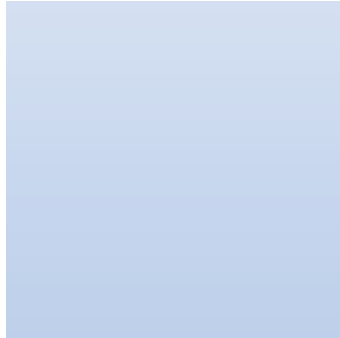


Mini and Micro cable blowing-in devices

420





FOC MiniJet blowing units for cable D 4-12 mm

FOC blowing-in MicroJets for cable D 0.8-3.5 mm

Cable sealing for all FOC blowing machines

Duct sealing for all FOC blowing machines

FOC UltimaZ blowing unit D 0.8-4.0 mm

Lubricator and intermediate cable blowing head with accessory

Duct and cable sealing to Lubricator and intermediate blowing head

Cable guiding heads for screwing on cables D 2,8-8,4 mm

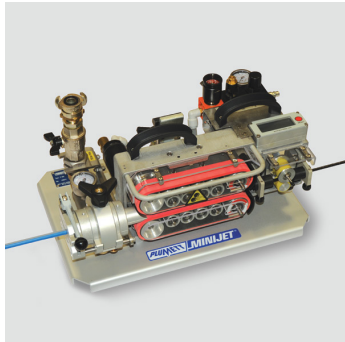
Cable crash test tube for limiting the pushing force

Duct and cable cutting tools

Cable drum unwinder for mini fibre optic cables

FigarinO - cable basket for blowing-in big length

Compressor for blowing-in fibre optic cables

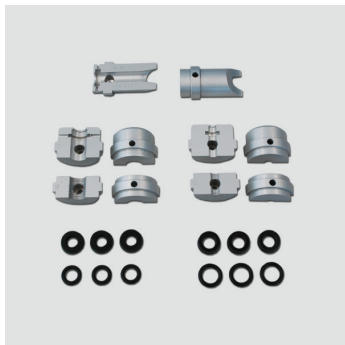


MiniJet for Fibre Optic Cables

MiniJet, further development of the CableJet and MicroJet. For blowing-in mini fibre optic cables in long distances. Long and soft pneumatic belt drive especially for delicate cables. Produces high daily output. Electronic length and speed meter. Without cable and duct inserts. accessory and technical details see below.

- Very careful but high power transmission to the cable through the soft belts.
- Suitable excellent for very long cable distances with complicated design.
- Simple control, high safety for operator and for cable.
- Small dimension of 635x400x255 mm, weight of the machine only 21,6 kg
- For compressed air up to max. 16 bar, airflow up to 5 m³/min.

Code	Type	Cable-D	Duct-OD	Compressed air	Push	kg
420100	P 02	4-12 mm	8-40 mm	16 bar/5 m³/min.	300 N	41,00



accessory-set for MiniJet

accessory-set for MiniJet P 02. All cable and duct inserts for a certain cable and duct diameter range, see below.

Code	Type	Cable-D	In duct-D	kg
420130	SET 40-85	4,0-8,5	10 and 12	0,57
420140	SET 86-124	8,6-12,4	14 and 16	0,56



Duct inserts

Duct inserts for MiniJet for bigger duct of D 20-40 mm.

Code	Type	Duct-OD	kg
420228	REM 20	20 mm	0,20
420230	REM 25	25 mm	0,20
420232	REM 32	32 mm	0,20
420240	REM 40	40 mm	0,20



MicroJet for FOC, electro

MicroJet for blowing-in mini fibre optic cables. Electric drive with fine adjustment, especially for delicate cables and bundle fibres. Suitable for air pressure up to 15 bars. With digital length and speed meter. Without cable and duct inserts. accessory and technical details see below.

- Very careful but high power transmission to the cable through the soft belts.
- Suitable excellent for very long cable distances with complicated design.
- Simple control, high safety for operator and for cable.

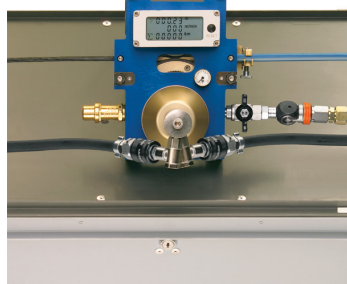
Code	Type	El-Motor	Cable-D	Duct-OD	Push	kg
422200	EM 25	24 Volt	0,8-3,5	3-7 mm	adjustable 0-25 N	16,30



Receiver to EM 25

Receiver for connecting the MicroJet EM 25 to the net or to the compressor.

Code	Type	Supply from	Tension	kg
275600	NGE 24	net	230 to 24 volt	1,00
275603	NGE 12	compressor	12 to 24 Volt	3,90



MicroJet for FOC, pneumatic

MicroJet basic device, for blowing-in mini fibre optic cables. Pneumatic drive especially for delicate cables D 0,8-7,5 mm. The basic for 3,6-7,5 mm can easily be upgraded with the PRA 196 for smaller cables of 0,8-3,5 mm to a real PRM 196. Suitable for air pressure up to 15 bars. Without cable and duct inserts. accessory and technical details see below.

- Very careful but high power transmission to the cable through the soft belts.
- Suitable excellent for long cable distances with complicated design.
- Simple control, high safety for operator and for cable.

Code	Type	Device	Cable-D	Duct-OD	Push	kg
422215	PR 196	Basic-Equipment	3,6-7,5	7-12 mm	constant 140 N	17,80
422218	PRA 196	Upgrade	0,8-3,5	3-7 mm	adjustable 0-25 N	2,00



MicroJet for FOC, pneumatic

MicroJet pneumatic drive, combined machine with adjustable electro-magnetic clutch for bundle fibres and for micro and mini cables from D 0,8-7,5 mm in ducts from D 3-12 mm. Air pressure up to 15 bars. With digital length and speed meter. Without cable and duct inserts. accessory and technical details see below.

- Very careful but high power transmission to the cable through the soft belts.
- Suitable excellent for very long cable distances with complicated design.
- Simple control, high safety for operator and for cable.

Code	Type	Motor	Cable-D	Duct-OD	Push	kg
422210	PRM 196	Pneumatic	0,8-7,5	3-12 mm	adjustable 0-140 N	23,60



accessory-set for MicroJets

accessory-set for MicroJet EM 25, PR 140 and PRM 196. All cable driving disc and cable and duct inserts for a certain cable and duct diameter range, according to table below.

Code	Type	Suitable for	Cable-D	Duct-OD	kg
422230	SET 08-35	EM 25, PRM 196	0,8-3,5	5, 7	1,37
422236	SET 36-75	PR 196, PRM 196	3,6-7,5	7, 10, 12	2,00
422240	SET 08-75	PRM 196	0,8-7,5	5, 7, 10, 12	3,00



Duct insert for MicroJets

Duct insert separate for MicroJet PR 140, PR 196 and PRM 196, for bigger ducts OD 14 mm and for cables up to D 8 mm.

Code	Type	Suitable for	Cable-D	Duct-OD	kg
42230132	REM 148	PR 140, PR 196, PRM 196	up to 8	14x2	0,12
42230156	KAD 83	Cable sealing	up to 8	14x2	0,01



ServoJet for FOC 0,8-6,0 mm

ServoJet for blowing-in mini fibre optic cables. Electric drive with fine adjustment, especially for delicate cables and bundle fibres. Suitable for air pressure up to 15 bars. With digital length and speed meter. Without cable and duct inserts. accessory and technical details see below.

- Anti-Buckling device
- Through semiautomatic run several of such equipments can be served.
- The operator does not need much blowing experience.
- Reduction of operating mistakes, less fibre failures.

Code	Type	Cable-D	Duct-ID	Push	kg
423100	ES 60	0,8-6,0	3-14 mm	adjustable 0-60 N	11,80



Pressure wheel for ServoJet, on top

Pressure wheel for ServoJet on top, D 40, material and cable-D see table below.

Code	Type	Cable-D	Mat.	kg
423107	KAPR 404	0,8-4,0	Polyurethane, plain	0,02
423110	KAV 405	4,0-5,0	Polyurethane, groove	0,03
423111	KAV 406	5,0-6,0	Polyurethane, groove	0,03



Drive wheel for ServoJet, down

Drive wheel for ServoJet, down, D 40, material and cable-D see table below.

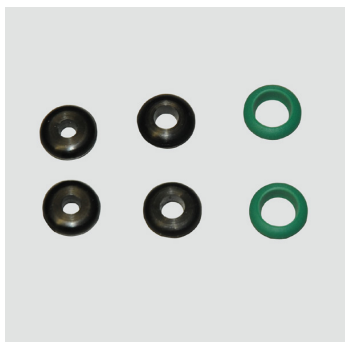
Code	Type	Cable-D	Mat.	kg
423107	KAPR 404	0,8-1,6	Polyurethane, plain	0,02
423346	KAR 42	1,6-2,0	Steel hardened, groove	0,06
423347	KAR 402	2,1-2,5	Steel hardened, groove	0,05
423348	KAR 43	2,6-3,0	Steel hardened, groove	0,06
423349	KAS 404	3,1-3,5	Steel hardened, groove	0,05
423350	KAR 44	3,6-4,0	Steel hardened, groove	0,08
423120	KAS 406	4,1-4,5	Steel hardened, groove	0,05
423121	KAS 407	4,6-5,0	Steel hardened, groove	0,05
423122	KAS 408	5,1-5,5	Steel hardened, groove	0,05
423123	KAS 409	5,6-6,0	Steel hardened, groove	0,05



Set of plate for ServoJet

Set of plates of aluminium for ServoJet, for duct and cable-D see table below.

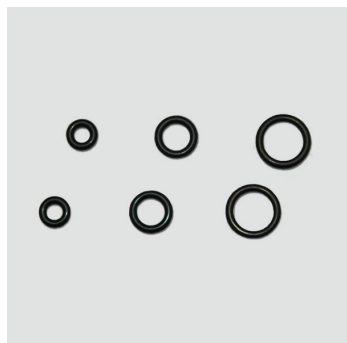
Code	Type	Cable-D	Duct-OD	kg
423130	RKE 110	<1,1	3-5 mm	0,30
423132	RKE 120	<1,2	3-5 mm	0,30
423134	RKE 150	<1,5	3-5 mm	0,30
423136	RKE 160	<1,6	3-5 mm	0,30
423140	RKE 230	<2,3	5-7 mm	0,30
423142	RKE 330	2,4-3,3	7-10 mm	0,30
423143	RKE 400	3,4-4,0	8-12 mm	0,30
423144	RKE 600	4,1-6,0	10-14 mm	0,30



Lip seals for ServoJet and UltimaZ

Lip seals for ServoJet and UltimaZ, set of 6 pcs. for cable-D see table below.

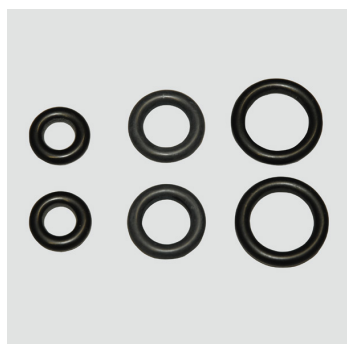
Code	Type	Size	Cable-D	For blowing machine	kg
423150	LPD 230	D 2/10,5	1,4-2,3	ServoJet / UltimaZ	0,02
423152	LPD 330	D 3/10,5	2,4-3,3	ServoJet / UltimaZ	0,02
423154	LPD 430	D 4/10,5	3,4-4,3	ServoJet / UltimaZ	0,02
423156	LPD 530	D 5/10,6	4,4-5,3	ServoJet	0,02
423158	LPD 600	D 6/10,7	5,4-6,3	ServoJet	0,02



Duct sealing for ServoJet

Duct sealing for ServoJet, sets of 6 pcs. for duct-D see table below.

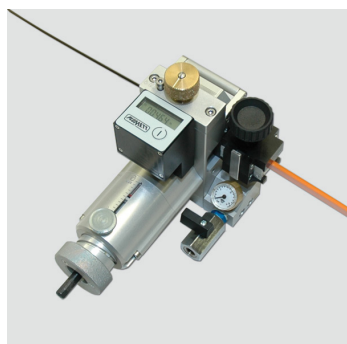
Code	Type	Size	Duct-OD	For blowing machine	kg
423170	ROR 3	D 3x2	3 mm	ServoJet / UltimaZ	0,01
423172	ROR 4	D 4x2	4 mm	ServoJet / UltimaZ	0,02
423174	ROR 5	D 5x2	5 mm	ServoJet / UltimaZ	0,02
423176	ROR 7	D 7x2	7 mm	ServoJet / UltimaZ	0,02
423178	ROR 8	D 8x2	8 mm	ServoJet / UltimaZ	0,02
423180	ROR 10	D 10x2	10 mm	ServoJet / UltimaZ	0,02
423182	ROR 12	D 12x2	12 mm	ServoJet / UltimaZ	0,02
423184	ROR 14	D 14x2	14 mm	ServoJet	0,02



Duct sealing for ServoJet

Duct sealing, sets of 6 pcs. suitable for cable blowing machines and duct-diam. according to table shown below.

Code	Type	Size	Duct-OD	For blowing machine	kg
42230163	RAD 03	D 3x2,6	3 mm	EM 25 / PR 140 / PR/M 196	0,01
42230164	RAD 04	D 4x2,2	4 mm	EM 25 / PR 140 / PR/M 196	0,01
42230165	RAD 05	D 5x3,0	5 mm	EM 25 / PR 140 / PR/M 196	0,01
42230167	RAD 07	D 7x4,0	7 mm	EM 25 / PR 140 / PR/M 196 / P 02	0,01
42230168	RAD 08	D 8x4,0	8 mm	PR 140 / PR/M 196 / P 02	0,01
42230170	RAD 10	D 10x4,0	10 mm	PR 140 / PR/M 196 / P 02	0,01
42230172	RAD 12	D 12x4,0	12 mm	PR 140 / PR/M 196 / P 02	0,01
42024014	RAD 14	D 14x4,0	14 mm	PR 140 / PR/M 196 / P 02	0,01
42024016	RAD 16	D 16x4,0	16 mm	P 02 MiniJet	0,01
42024020	RAD 20	D 20x4,0	20 mm	P 02 MiniJet	0,01
42024025	RAD 25	D 25x4,0	25 mm	P 02 MiniJet	0,01
42024032	RAD 32	D 32x4,0	32 mm	P 02 MiniJet	0,01
42024040	RAD 40	D 40x4,0	40 mm	P 02 MiniJet	0,01



UltimaZ for blow fibre units and micro cables D 0,8-4,0 mm

UltimaZ blow fibre units and micro cable blowing device especially for in-house cabling up to lengths of approx. 200 m. The UltimaZ makes it possible to continue the last mile from the underground floor to all flats. Drive through an accu-driven hand-drill. The minimal air pressure of 10-12 bars can be provided by a small compressed-air bottle. Without cable and duct inserts, see accessory and techn. details below.

- Fast and easy starting operation in any spot
- Feeding drive through accu drilling machine of 600 t/min. not included
- The operator does not need large cable blowing experience
- Small dimension of 440x370x105 mm, only approx. 2,4 kg of weight for comfortable application

Code	Type	Cable-D	Duct-OD	Push	Pressure	kg
423300	ULV 20	0,8-4,0	3-12 mm	0-20 N	10-12 bar	3,80

Pressure wheel for UltimaZ

Pressure wheel for UltimaZ, D 40, material and cable-D see table below.

Code	Type	Cable-D	Mat.	kg
423340	KAPR 40P	1,0-4,0	Polyurethane plain	0,08
423342	KAP 40A	2,0-4,0	Aluminium	0,07



Drive wheel for UltimaZ

Drive wheel for UltimaZ, D 40, material and cable-D see table below.

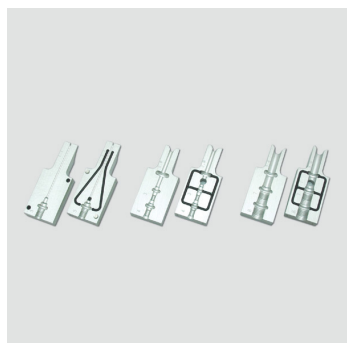
Code	Type	Cable-D	Mat.	kg
423340	KAPR 40P	1,0-2,5	Polyurethane plain	0,08
423344	KAP 41P	1,0-1,6	Poly with groove	0,08
423346	KAR 42	1,6-2,0	Steel hardened, groove	0,06
423347	KAR 402	2,1-2,5	Steel hardened, groove	0,05
423348	KAR 43	2,6-3,0	Steel hardened, groove	0,06
423349	KAR 404	3,1-3,5	Steel hardened, groove	0,05
423350	KAR 44	3,6-4,0	Steel hardened, groove	0,08

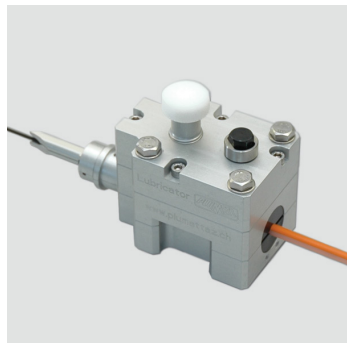


Duct inserts for UltimaZ

Duct inserts for blowing unit UltimaZ, for duct-D see table below.

Code	Type	Duct-OD	Cable-D	kg
423358	RKE 3010	3,0 mm	1,5 mm	0,05
423360	RKE 5010	5,0 mm	1,1 mm	0,05
423362	RKE 5015	5,0 mm	1,5 mm	0,05
423364	RKE 3425	3-4 mm	2,5 mm	0,05
423366	RKE 5640	5-6 mm	4,0 mm	0,05
423368	RKE 7840	7-8 mm	4,0 mm	0,05
423370	RKE 1240	10-12 mm	4,0 mm	0,05





Lubricator automatic device

Lubricator for continuous greasing of the cables blown by MicroJet, MiniJet and ServoJet. Performance and techn. details see below.

- The Lubricator guarantees an uniform lubrication on the whole length duct length.
- For mounting on MiniJet and ServoJet there are adapters, see below.
- In the Lubricator is included an adapter for the MicroJets EM 25, PR 140 and PRM 196

Code	Type	Cable-D	Duct-OD	kg
423500	L 9	1-9 mm	4-16 mm	2,20



Cable guide for Lubricator for MiniJet

Cable guide for the Lubricator only necessary when used with the MicroJet

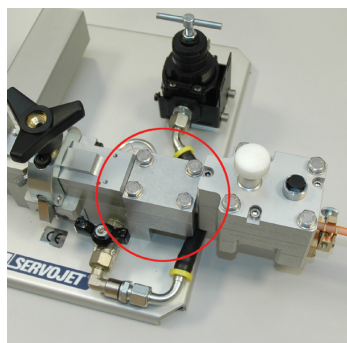
Code	Type	Required for	For c-D	kg
423520	KBK 125	for Lubricator with MicroJets	1,0-2,5 mm	0,02
423522	KBK 254	for Lubricator with MicroJets	2,5-4,0 mm	0,02
423524	KBK 408	for Lubricator with MicroJets	4,0-8,0 mm	0,02



Adapter Lubricator - MiniJet

Adapter for mounting the Lubricators on the MiniJet included cable guides and duct clamp for subducts.

Code	Type	For	Duct-OD	For cable-D	kg
423561	LA 9M	MiniJet	3-15 mm	4,0-9,0 mm	0,48



Adapter Lubricator - ServoJet

Adapter for mounting the Lubricators on the ServoJet without cable guides.

Code	Type	For	Duct-OD	For cable-D	kg
423580	LA 9S	ServoJet	3-15 mm	1,0-6,0 mm	0,50



Cable guide for Lubricator for ServoJet

Cable guide for the Lubricator necessary when used with the ServoJet

Code	Type	For	For c-D	kg
423582	KBS 125	ServoJet	1,0-2,5 mm	0,02
423583	KBS 254	ServoJet	2,5-4,0 mm	0,02
423584	KBS 406	ServoJet	4,0-8,0 mm	0,02



Lubricant for FOC

Micro Jetting Lube, 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. 10 ml per 1000 m at duct-ID 10 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
234975	MJL 240	1 bottle 0,24 l	0,32
234977	MJL 424	24 bottles 0,24 l	7,50



Duct cleaning sponge

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

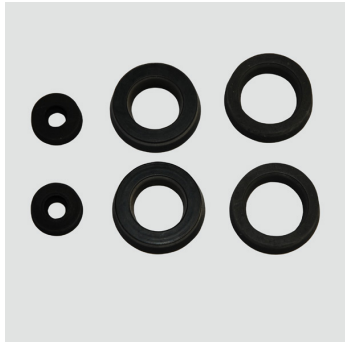
Code	Type	Duct OD	Duct-ID	Cellular	Qty.	kg
275398	RSM 04	7,0 mm	4,0 mm	D 8x30 mm	20 pcs.	0,01
275400	RSM 06	7,0-10,0 mm	5,5-6,0 mm	D 8x50 mm	20 pcs.	0,01
275402	RSM 08	10,0-12,0 mm	8,0 mm	D 16x50 mm	20 pcs.	0,02
275404	RSM 10	12,0-16,0 mm	10,0-12,0 mm	D 20x50 mm	20 pcs.	0,04
275406	RSM 16	20,0 mm	15,0-16,0 mm	D 32x50 mm	20 pcs.	0,06



Intermediate cable blowing head

Intermediate blowing head for finishing the left loops after blowing in two direction. Without duct inserts, without cable sealing

Code	Type	Cable-D	Duct-ID	kg
275700	NBK 483	3,4-8,3 mm	10-16 mm	1,40
275703	NBK 812	8,4-12,4 mm	12-20 mm	1,50
275710	DAP 08	Air connector	for NBK 483	0,50
275712	DAP 11	Air connector	for NBK 812	0,73



Cable sealing

Cable sealing, sets of 6 pcs. suitable for cable blowing machines and cable-diam. according to table shown below.

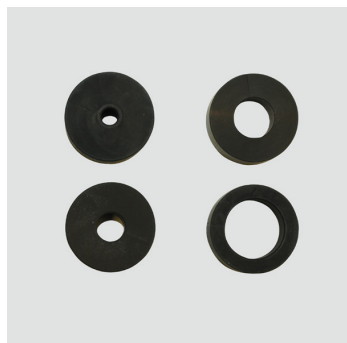
Code	Type	Cable-D	For blowing machine	kg
42230140	KAD 10	0,8-1,1 mm	EM 25 / PR 140 / PR/M 196	0,01
42230141	KAD 12	1,2-1,4 mm	EM 25 / PR 140 / PR/M 196	0,01
42230142	KAD 18	1,4-1,8 mm	EM 25 / PR 140 / PR/M 196	0,01
42230143	KAD 24	1,8-2,4 mm	EM 25 / PR 140 / PR/M 196	0,01
42230144	KAD 33	2,4-3,3 mm	EM 25 / PR 140 / PR/M 196	0,01
42230147	KAD 43	3,4-4,3 mm	PR 140 / PR/M 196 / P 02 / NBK 483	0,01
42230149	KAD 53	4,4-5,3 mm	PR 140 / PR/M 196 / P 02 / NBK 483	0,01
42230151	KAD 63	5,4-6,3 mm	PR 140 / PR/M 196 / P 02 / NBK 483	0,01
42230152	KAD 70	6,4-7,0 mm	PR 140 / PR/M 196 / P 02 / NBK 483	0,01
42230154	KAD 77	7,1-7,7 mm	PR 140 / PR/M 196 / P 02 / NBK 483	0,01
42230156	KAD 83	7,8-8,4 mm	PR 140 / PR/M 196 / P 02	0,01
42021509	KAD 107	8,5-10,7 mm	P 02 / NBK 812	0,01
42021511	KAD 124	10,8-12,4 mm	P 02 / NBK 812	0,01



Duct inserts for Lubricator and intermediate blowing head

Duct inserts with 2 sealing for Lubricator and intermediate blowing head for duct-D see table below.

Code	Type	Duct-OD	For device	kg
423530	RES 4	4 mm	Lubricator	0,04
423532	RES 5	5 mm	Lubricator	0,04
423534	RES 7	7 mm	Lubricator	0,03
423536	RES 8	8 mm	Lubricator	0,03
423538	RES 10	10 mm	Lubricator / Intermediate blowing head	0,03
423540	RES 12	12 mm	Lubricator / Intermediate blowing head	0,03
423542	RES 14	14 mm	Lubricator / Intermediate blowing head	0,03
423544	RES 15	15 mm	Lubricator / Intermediate blowing head	0,03
423546	RES 16	16 mm	Lubricator / Intermediate blowing head	0,03
423548	RES 20	20 mm	Intermediate blowing head	0,03



Duct single sealing to intermediate blowing head and Lubricator

Duct single sealing to intermediate blowing head and Lubricator, for ducts-D see table below.

Code	Type	Duct-OD	For device	kg
042353801	RDL 4	4 mm	Lubricator	0,01
042353802	RDL 5	5 mm	Lubricator	0,01
042353803	RDL 6	7 mm	Lubricator	0,01
042353804	RDL 8	8 mm	Lubricator	0,01
042353805	RDL 10	10 mm	Lubricator / Intermediate blowing head	0,01
042353807	RDL 12	12 mm	Lubricator / Intermediate blowing head	0,01
042353809	RDL 14	14 mm	Lubricator / Intermediate blowing head	0,01
042353810	RDL 15	15 mm	Lubricator / Intermediate blowing head	0,01
042353811	RDL 16	16 mm	Lubricator / Intermediate blowing head	0,01



Cable guiding heads

Cable guiding heads for screwing on the cable heads for friction-low sliding during cable-blowing.

Code	Type	Head-D/L	Cable-D	Set of	kg
275520	KFM 28	2,8/14 mm	2,5 mm	10 pcs.	0,10
275523	KFM 44	4,4/14 mm	4,0 mm	10 pcs.	0,11
275526	KFM 54	5,4/18 mm	5,0 mm	10 pcs.	0,11
275529	KFM 64	6,4/18 mm	6,0 mm	10 pcs.	0,11
275532	KFM 67	6,7/18 mm	6,5 mm	10 pcs.	0,11
275535	KFM 74	7,4/23 mm	7,0 mm	10 pcs.	0,11
275538	KFM 84	8,4/28 mm	8,0 mm	10 pcs.	0,11



Cable crash test tube

Cable crash test tube transparent with sealing end. For limiting the pushing force of the blowing-in machines. Tests without compressed air. For determination of the cable stiffness up to the crash. Safe packed in reusable plastic duct.

Essential for fail-safe adjustment of the pushing force of all different cable blowing machines.

Code	Type	Duct-OD	Duct-ID	Length	kg
275300	CTR 10/04	10 mm	4 mm	1,00 m	0,50
275303	CTR 12/08	12 mm	8 mm	1,00 m	0,55
275306	CTR 14/10	15 mm	10 mm	1,00 m	0,60
275309	CTR 20/16	20 mm	16 mm	1,00 m	0,70



Duct-connector

Sub duct connector with two couplings. For closing an intermediate blowing position of max. 400 mm. Set of 3 pcs.

Code	Type	Duct-OD	Duct-ID	Length	kg
273770	RV 1014	14 mm	10 mm	500 mm	0,24



MKV 0810



MKV 1216

Subduct calibration sets

The calibration sets MKV 0810 and MKV 1216 in conjunction with the micro-transmitter SKS 6 (code-no. 231940) 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



BAT 06

SKS 06



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



ohne Zubehör | without accessories

Case for accessory

Case for micro cabling accessory, with 9 shelves as following:

- 4 each 132x82x105 mm
- 4 each 168x131x105 mm
- 1 off 286x168x105 mm

Code	Type	Dimension	kg
275638	KZM 6040	600x400x155 mm	4,30



Cable blow-in stop

Cable blow-in stop for in-house and underground fibre cable installations for cable lengths up to 200 m. Transparent duct with sponge shock absorber.

The standard rope winch is equipped with hand operated rope guide and a rope protection cover according to the rules. The winch can be equipped with the mechanical rope length measuring device SLM 510. For pulling-in fibre optic cables, subducts or delicate cables with the electronic digital line pull data recorder with USB interface, see below. For safety reason the pulling force on the bottom of drum is limited to 500 daN.

Code	Type	For duct OD	Duct-OD	Duct-ID	kg
275650	KES 0704	7 mm	7 mm	4 mm	0,03



FOC-Cable cutter

Cable side cutter for micro and mini FOC cables up to dia. 4,0 mm, length 125 mm. Knife special hardened also for Aramid and Kevlar.

Code	Type	For FOC-D	kg
255960	KSS 4,0	0,5-4,0 mm	0,06



Cable cutter

Cable cutter for Cu-/Al and FOC cables up to D 20 mm / 70 mm². Precision ground, hardened blades, therefore clean and smooth cut. Insulated with multi-component grips, VDE-tested. Length 200 mm.

Code	Type	For cable-D	kg
255965	KSD 20	20 mm	0,36



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 splitter

Sub duct splitter 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 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

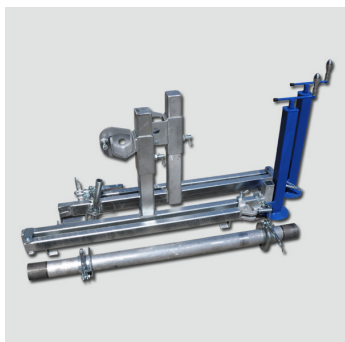


Drum unwinding stand for FOC

Drum unwinding stand for FOC or subduct drums, galvanized. Equipped with a lightweight aluminium shaft D 75 mm with drum shaft securing and 2 clamps.

- Sturdy steel construction, hot galvanized, easy dismountable by hand for transportation.
- Two crank spindles to lift the stand for unwind cables in any position.
- High stability under load even in uneven places.
- For drum-D up to 1400 mm and drum width up to 900 mm, max. weight 500 kg.
- As accessory alu-drum shaft D 50, ball bearings, order clamps and cones separately, see table below.
- Dimensions mounted: L/W/H 1450/1400/689 mm.

Code	Type	Equipment	Shaft-D	Cones for	kg
344355	TRG 1140	Unwinder as above	75 mm	Holes D 80	96,00
315030	TAK 5013	Alu drum shaft	50 mm	See next line	1,50
350592	KSV 51	Shaft clamps	50 mm	For TAK 5013	7,40
315504	ZKP 50-80	Polyamide cones	50 mm	Holes-D 50-80	0,15



Cable trailer straight or adjustable drawbar

Cable drum trailer with straight or height adjustable draw bar and overrun brake for speeds up to 80 km/h. For loading the support arms are swung down and then raised picking up the drum by a single hand winch. Rigid tubular steel shaft D 76 mm. Rotating alu-shaft D 75 mm as accessory. Further accessory see below.

- Types G - with straight draw bar can only be equipped with ball coupling
- Types H - with adjustable draw bar equipped with eye coupling, ball coupling as accessory
- Suitable for one-man operation
- Complete trailer hot galvanized
- Rotating alu shafts as accessory, see below.
- Drum band brake as accessory, see below.

Code	Type	Equipment	Shaft-D	Cones for	kg
3155045	ZKP 50-108	Polyamide-cones	50 mm	Holes-D 50-108	0,20
342088	KVS 1000/80G	1300/1000 kg	600-1650	75 kg	1300/214 324,00
342131	KVS 1500/80G	2100/1500 kg	600-2400	100 kg	Ø580/245 591,00
342146	KVS 2000/80G	2600/2000 kg	600-2400	100 kg	Ø580/245 592,00
342093	KVS 1000/80H	1300/1000 kg	600-1650	75 kg	Ø300/214 363,00
342136	KVS 1500/80H	2100/1500 kg	600-2400	100 kg	Ø580/245 667,00
342151	KVS 2000/80H	2700/2000 kg	600-2400	100 kg	Ø580/245 667,00
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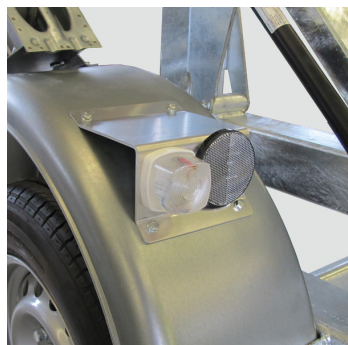


Rear protection gate

Rear protection gate, for Cable trailers KVS 1000-2000 G+H, hot galvanized.

The need of a rear protection is subject to national regulations. Independent of this, the rear protection offers a higher safety in the road traffic.

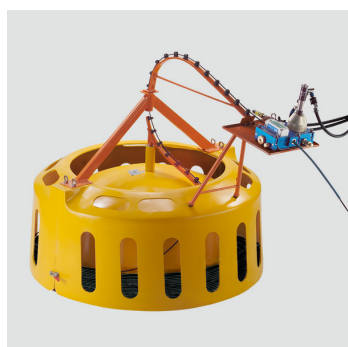
Code	Type	Suitable for	Trailer ext. width	kg
349820	KUF 100	KVS 1000 G+H	2140 mm	16,00
349826	KUF 200	KVS 1500-2000 G+H	2450 mm	30,00



Position lights

Position lights 12 volt, in front of the trailers KVS 1000-2000 G + H, according to the law of some countries

Code	Type	Suitable for	kg
349550	KPL 12	KVS 1000-2000 G + H	3,00

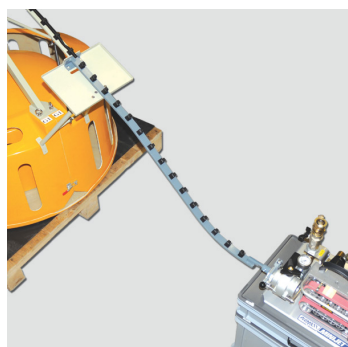


Figarino the cable basket

Figarino. The FOC basket is used if the cable is too long to be blown completely with only one blowing machine. When half of the cable is installed in one direction the remaining cable is pushed into the Figarino with the blowing machine. Out of the Figarino this part of the cable can be blown uncut in the opposite direction to finish the installation.

- Cable Cap.: 4600 m D 4 mm / 2000 m D 6 mm / 1150 m D 8 mm.
- The Figarino replaces laying figure of 8 on the ground, is clean and space saving.
- The Figarino is always placed besides the cable drum.

Code	Type	Basket-D	For transport	kg
411150	SLK 120	1260 mm	Divisible in the middle.	71,00



Cable lead in duct bow

Duct bow for pushing-in the cable into the Figarino with the Minijet

Code	Type	kg
04111521	KEB 120	3,90



Compressor electric motor

Compressor with electric motor for blowing-in optic bundle fibres and mini cables in in-house installation. 230 Volt, without after cooler. Portable and transportable on 2 wheels. Soundproof hood. Suitable for Ultimaz ULV 20.

- Electric motor 1,1 kW, 230 Volt, compressor dimensions: 560/350/560 mm
- Capacity 100 l/min. at 15 bars.
- Soundproof hood 71 dB(A).
- Pressure reservoir 4 litre

Code	Type	Air	Pressure	Duct-ID	Cable-D	kg
960102	VE 100	100 l/min.	15 bar	2,5-5,5 mm	0,8-4,0 mm	31,00



Compressed air hose

Compressed air hose DN 10, L 5 m, with swing-coupling and connecting nipple for UltiMAZ ULV 20, or ServoJET ES 60

Code	Type	DN	Pressure	Length	kg
042334015	DLS 10/5	10	15 bar	5 m	1,30



Compressor electric motor

Compressors with electric motors and integrated after coolers. For blowing-in fibre optic min cables, fibres and bundle fibres up to length of 500 m and more. Mounted on 2 pneumatic wheels, which enables the transport on stairs for one person alone. Suitable for MicroJet EM 25 and ServoJet ES 60.

- Electric motor 2,2 kW, 400 Volt, IP 55, compressor dimensions: 1150/580/540 mm
- Low sound level of 69 dBA(A).
- 3-fold air filters, clean, dry, oil- and water-free air.
- With integrated after cooler.
- Convenient for one man stair transports.

Code	Type	Air	Pressure	Duct-ID	Cable-D	kg
960111	VE 240	240 l/min.	10,5 bar	2,5-6,0 mm	0,8-4,0 mm	54,00



Compressor electric motor

Compressor with petrol engine and after cooler. For blowing-in fibre optic mini cables, fibres and bundle fibres. Suitable for all MicroJets and for ServoJet. The external after cooler reduces the compressed air temperature approx. 8° C above ambient temperature. The compressor is equipped with a sound absorption cover. It is portable by two pneumatic wheels.

- Electric motor 7,5 kW, 400 Volt, compressor dimensions: 1080x800x790 mm
- Flow rate 620 l/min. at 15,0 bar working pressure
- With separate after cooler

Code	Type	Air	Pressure	Duct-ID	Cable-D	kg
960114	ME 13	620 l/min.	15 bar	3-8,0 mm	0,8-6,0 mm	205,00



Compressor petrol engine

Compressor with petrol engine and after cooler. For blowing-in fibre optic mini cables, fibres and bundle fibres. Suitable for all MicroJets and for MiniJet P 02. The external after cooler reduces the compressed air temperature approx. 8° C above ambient temperature. The compressor is equipped with a sound absorption cover. It is portable by two pneumatic wheels.

- With Honda-petrol engine 16 kW. Dimension: 1080x800x790 mm
- Flow rate 1000 l/min. at 15,0 bar working pressure.
- With separate after cooler electrical fed by the compressor.
- As accessory see tiltable support for after cooler, table below.

Code	Type	Air	Pressure	Duct-ID	Cable-D	kg
960118	MK 17.2	1,0 m³/min.	15 bar	3-12,0 mm	0,8-9,0 mm	206,00



Support for after cooler

Support for the after cooler on compressor MK 17.2. Steel frame hot galvanized. With this the after cooler is fixed safe and rubbery-elastic by four elements.

To transport the compressor in a van the after cooler is tiltable, please mind the total height of approx. 1,10 m. The after cooler can easily be dismantled from the support.

- Dimension with vertical positioned after cooler, L/W/H 1170/800/1220 mm
- Dimension for transportation with tilted after cooler, total height only 1100 mm

Code	Type	Material	kg
960145	KHN 17.2	Steel profiles, galvanized	8,50



Compressor diesel engine

High powered compressors for blowing-in bigger fibre optic cables. Suitable for MiniJet, for duct ID up to 20 mm. Mounted on single axle trailer with height adjustable drawbar, without overrun brake.

- Deutz Diesel-engine, 24,1 kW. Compressor dimension: 3190x1260x1300 mm
- Flow rate 1,90 m³, at 14 bar working pressure
- With integrated after cooler and water separator.

Code	Type	Air	Pressure	Duct-ID	Cable-D	kg
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Mini and micro cable blowing-in devices

960121	M 31	1,90 m³/min.	14 bar	3-16,0 mm	to 10 mm	580,00
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