

Brugg Cables High Voltage Accessories.

Tool catalogue.



Cutting and peeling device of type EH130

for cutting the insulation of polymer cables with a maximum diameter of 130 mm to a specific shape.

Scope of supply:

- Main tool
- Slot knife with a width of 10 mm (Item no. 75962)
- Taper knife of 45 degree (Item no. 76367)
- 1 hexagonal key, size 4x150
- Set of axle extensions with a length of 184 mm
- Instruction manual in English
- Packaging

Application:

- The cutting and peeling device is applied to cut the insulation of polymer cables with a maximum diameter of 130 mm. Shapes like a slot, a taper of 45 degrees or curved tapers can be achieved with the individual knives.

Miscellaneous:

- Optional and spare knives:
 - Slot knife with a width of 10 mm (Item no. 75962)
 - Slot knife with a width of 5 mm (Item no. 75961)
 - Taper knife 45 degree (Item no. 76367)
 - Peeling knife part 1 (Item no. 75963)
 - Peeling knife part 2 (Item no. 75964)
 - Grooving knife with a width of 26 mm (Item no. 62521)
 - Grooving knife with a width of 49 mm (Item no. 76329)

Packaging:

- Plastic box



Technical data:

Item number	Type	Max. cable diameter	Max. adjusting range	Feed per turn	Max. cutting depth in the insulation	Width between rollers		Weight
						without extension	with extension	
88265	EH130	130 mm	50 mm	approx. 1 mm	30 mm	84 mm	262 mm	8 kg

Cutting and peeling device of type EH150

for cutting the insulation of polymer cables with a maximum diameter of 150 mm to a specific shape.

Scope of supply:

- Main tool
- Extension piece to main tool
- Slot knife with a width of 10 mm (Item no. 75962)
- Taper knife of 45 degree (Item no. 76367)
- 1 hexagonal key 4 x 150
- Manual
- Packaging

Application:

- The cutting and peeling device is applied to cut the insulation of polymer cables with a maximum diameter of 150 mm. Shapes like a slot, a taper of 45 degrees or curved tapers can be achieved with the individual knives.

Miscellaneous:

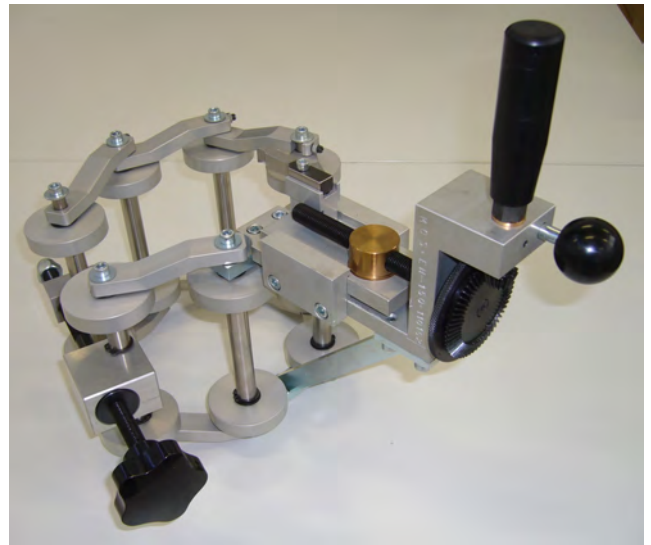
- Optional and spare knives:
 - Slot knife with a width of 10 mm (Item no. 75962)
 - Slot knife with a width of 5 mm (Item no. 75961)
 - Taper knife 45 degree (Item no. 76367)
 - Peeling knife part 1 (Item no. 75963)
 - Peeling knife part 2 (Item no. 75964)
 - Grooving knife with a width of 26 mm (Item no. 62521)
 - Grooving knife with a width of 49 mm (Item no. 76329)

Packaging:

- Plastic box

Technical data:

Item number	Type	Max. cable diameter	Max. adjusting range of the knife	Feed per turn	Max. cutting depth in the insulation	Width between rollers	Weight
88468	EH150	150 mm	60 mm	approx. 1 mm	40 mm	106 mm	8.5 kg



Peeling & stripping tool of type SH, hand driven

is applied to remove the outer semiconducting layer, for stripping and chamfering the polymer insulation.

Scope of supply:

- Base tool with 2 knives
- 3 hexagonal keys
- 1 spare knife for peeling-off the semiconducting layer
- 1 spare knife for cutting the main insulation
- 1 guide bracket for the peeling strip
- Instruction manual in English and German
- Packaging

Application:

- Is applied to remove the bonded outer semiconducting layer, for stripping off the polymer insulation and for chamfering the insulation



Miscellaneous:

- Spare parts for the tool of type SH50
 - Knife for peeling-off the semiconducting layer (Item no 11.040)
 - Knife for cutting the main insulation (Item no. 11.043)
- Spare parts for the tool of type SH80
 - Knife for peeling-off the semiconducting layer (Item no 78820)
 - Knife for cutting the main insulation (Item no. 78821)
- Spare parts for the tool of type SH130
 - Knife for peeling-off the semiconducting layer (Item no 78617)
 - Knife for cutting the main insulation (Item no. 78618)
- Spare parts for the tool of type SH160
 - Knife for peeling-off the semiconducting layer (Item no 11.044)
 - Knife for cutting the main insulation (Item no. 11.053)

Packaging:

- Plastic box

Technical data:

Item number	Type	Cable diameter	Maximum peeling depth	Cutting depth of insulation	Weight
65030	SH50	15 – 50 mm	2.5 mm	0 – 20 mm	4.6 kg
65031	SH80	30 – 80 mm	3.0 mm	0 – 30 mm	5.6 kg
65032	SH130	70 – 130 mm	3.0 mm	0 – 35 mm	6.9 kg
79066	SH160	100 – 160 mm	3.0 mm	0 – 35 mm	8.2 kg

Peeling tool of type S, motor drive

is applied for removing the semiconductor layers of XLPE cables.

Scope of supply:

- 1 Base tool with motor
- 1 Instruction manual in English and German
- 1 Set of tools consisting of:
 - Hexagon wrench 2.5
 - Hexagon wrench 5
 - Hexagon wrench 8
 - Combination wrench 8
 - Combination wrench 10
 - Combination wrench 13
- 1 knife with stilt to cut open the peeled off semi-conducting layer
- 1 Spare peeling blade
- 1 Spare belt
- Packaging



Application:

- For removing the bonded outer and the inner semiconductor layers.

Miscellaneous:

- Optional items:
 - Tripod with swivel castors (Item no. 62514)
- Spare parts:
 - Belt to tool type S50 (Item no. 66220)
 - Belt to tool type S80 (Item no. 66221)
 - Belt to tool type S125 (Item no. 76120)
 - Belt to tool type S150 (Item no. 66302)
 - Peeling knife-head (Item no. 62515)
 - Peeling blade for XLPE cables (Item no. 62513)
 - Peeling blade for EPR cables (Item no. 76119)
 - Knife with stilt (Item no. 04539)

Packaging:

- Plastic box

Technical data:

Item number	Type	Cable diameter	Peeling depth with peeling blade	Weight
65503	S50	15 – 50 mm	0.1 - 5 mm	8.0 kg
65504	S80	30 – 80 mm	0.1 - 5 mm	9.6 kg
65505	S125	70 – 125 mm	0.1 - 5 mm	12.2 kg
65506	S150	90 – 150 mm	0.1 - 5 mm	17.2 kg
Electric motor: Rated voltage 230 V 50/60 Hz, rated power 470 – 750 W				

Heating tube of type 150

for heating the cable for installation purposes.

Scope of supply:

- Heating tube complete
- Packaging

Application:

- The heating tube is applied to heat the cable ends of polymer cables for installation purposes.

Packaging:

- Covering box

**Technical data:**

Item number	Diameter	Length	Resulting heating temperature	Rated voltage	Rated power	Weight
88279	250/150 mm	980 mm	80 – 100 °C	230 V 50/60 Hz	Max. 400 W	11 kg

Insulation pushing device

for pushing back the polymer insulation for cables with conductor cross-sections of $\leq 800 \text{ mm}^2$.

Scope of supply:

- 2 Basic tools
- 6 Pair of pressure discs
- 5 pair of adapter sleeves
- Lubricant of type Molikote P 40
- Packaging

Application:

- The insulation pushing device is applied to push back the polymer insulation for installation purposes of slip-on insulation bodies.

Required items (to be ordered separately):

- Spare parts:
 - Sliding disc (Item no. 78179)
 - Handle bar complete (Item no. 78183)
 - Lubricant of type Molikote P 40, 50 g (Item no. 62604)

Miscellaneous:

- The box consists of two complete sets of insulation pushing devices, which allow preparing one cable with one joint at once (one tool for each end).

Packaging:

- Wooden box (Item no.78184)



Technical data of tool:

Item number	Conductor cross-section	Material	Weight
88957	240 - 800 mm ²	Stainless steel	17 kg

Technical data of pressure disc:

Item number	Conductor cross-section	Inner diameter	Weight
78168	240 mm ²	19.8 mm	0.24 kg
78169	300 mm ²	22.5 mm	0.23 kg
78170	400 mm ²	25.5 mm	0.26 kg
78171	500 mm ²	28.5 mm	0.28 kg
78172	630 mm ²	32.5 mm	0.38 kg
78173	800 mm	38.0 mm	0.32 kg

Technical data of adapter sleeve:

Item number	Conductor cross-section	Inner diameter	Weight
78159	240 mm ²	19.8 mm	0.43 kg
78160	300 mm ²	22.5 mm	0.40 kg
78161	400 mm ²	25.5 mm	0.33 kg
78162	500 mm ²	28.5 mm	0.26 kg
78163	630 mm ²	32.5 mm	0.16 kg
*	800 mm ²	38.0mm	*

* No adapter sleeve is required; diameter of the basic tool is applicable.

Insulation pushing device

for pushing back the polymer insulation for cables with conductor cross sections of $\geq 1000 \text{ mm}^2$.

Scope of supply:

- 2 Basic tools
- 5 Pair of pressure discs
- 4 Pair of adapter sleeves
- Lubricant of type Molikote P 40
- Packaging

Application:

- The insulation pushing device is applied to push back the polymer insulation for installation purposes of slip-on insulations bodies.

Required items (to be ordered separately):

- Spare parts:
 - Sliding disc (Item no. 78180)
 - Handle bar complete (Item no. 78183)
 - Lubricant of type Molikote P 40, 50 g (Item no. 62604)

Miscellaneous:

- The box consists of two complete sets of insulation pushing devices, which allow preparing one cable with one joint at once (one tool for each end).

Packaging:

- Wooden box (Item no.78185)



Technical data of tool:

Item number	Conductor cross-section	Material	Weight
88958	1000 - 2500 mm ²	Stainless steel	25 kg

Technical data of pressure disc:

Item number	Conductor cross-section	Inner diameter	Weight
78174	1000 mm ²	42.0 mm	0.36 kg
78175	1200 mm ²	45.5 mm	0.38 kg
78176	1600 mm ²	51.0 mm	0.40 kg
78177	2000 mm ²	58.0 mm	0.46 kg
78178	2500 mm ²	65.0 mm	0.48 kg

Technical data of adapter sleeve:

Item number	Conductor cross-section	Inner diameter	Weight
78164	1000 mm ²	42.0 mm	1.12 kg
78165	1200 mm ²	45.5 mm	0.96 kg
78166	1600 mm ²	51.0 mm	0.70 kg
78167	2000 mm ²	58.0 mm	0.30 kg
*	2500 mm ²	64.0 mm	* kg

* No adapter sleeve is required; diameter of the basic tool is applicable.

Electro-hydraulic high-pressure pump of type EHP 850

is applied for the pressing of bolts and crimp sleeves.

Scope of supply:

- Basic tool

Application:

- For pressing of bolts and crimp sleeves for cable diameters of 120 to 1000 mm²

Required other tools (to be ordered separately):

- Press head 35 t, size IV (Item no. 65417)
- Hexagonal press dies of required dimension(s)

Miscellaneous:

- Handy carrying case
- Hydraulic hose fix connected
- Spare parts:
 - Standard hydraulic oil

Packaging:

- None

Technical data:

Item number	Type	Max. working pressure	Hydraulic oil content	Hose length	Rated voltage	Rated power	Cable length	Weight
65416	EHP 850	850 bar	650 cm ³	3 m	220 V / 50 Hz	500 W	5 m	9.6 kg



Press head 35 t, size IV

is applied for the pressing of bolts and crimp sleeves.

Scope of supply:

- Basic tool

Application:

- For pressing of bolts and crimp sleeves for cable diameters of 120 to 1000 mm²

Required other tools (to be ordered separately):

- Electro-hydraulic high-pressure pump of type EHP 850 (Item no. 65416)
- Hexagonal press dies of required dimension(s)

Miscellaneous:

- Repair and maintenance through manufacturer only
- The pressing of steel pulling heads is also possible, separate technical information is required for this.

Packaging (to be ordered separately):

- Wooden box (Item no. 62311)



Technical data:

Item number	Size	Max. working pressure	Max. working force	Max. working stroke	Compressible conductor cross section (nontension)		Weight
					Copper	Aluminum	
65417	IV	850 bar	380 kN	30 mm	120 – 1000 mm ²	95 – 1000 mm ²	11 kg

Hexagonal press dies 35 t, size IV

are applied for the pressing of bolts and crimp sleeves.

Scope of supply:

- 1 pair of hexagonal press dies

Application:

- For pressing bolts and crimp sleeves for copper and aluminium conductors with cross sections of 120 to 1000 mm²

Required other tools (to be ordered separately):

- Electro-hydraulic high-pressure pump of type EHP 850 (Item no. 65416)
- Press head 35 t, size IV (Item no. 65417)



Miscellaneous:

- Selection of tools according to separate technical instructions
- The pressing of steel pulling heads is also possible, separate technical information is required for this.

Packaging:

- In box of press head

Technical data:

Item number	Conductor cross section mm ² (copper cables)	Section no.	Type (Size IV)	Number of pressings	Weight
66025	120	1	KZ 20	1	*
65419	150	2	KZ 22	1	*
66026	185	3	KZ 25	1	*
66027	240	4	KZ 28	2	*
66028	300	5	KZ 32	2	*
65418	400	6	KZ 38	2	2.8 kg
62270	500	7	KU 42	3	*
62271	630	8	KZ 44	3	2.3 kg
62272	800	9	KZ 52	3	2.3 kg
76148	1000	10	KZ 58	3	2.0 kg

* Available upon request

Electro-hydraulic high-pressure pump of type PE 172 AM 50-220

is applied for the pressing of bolts and crimp sleeves.

Scope of supply:

- Basic tool
- Foot switch

Application:

- For pressing of bolts and crimp sleeves for cable diameters of 185 to 2500 mm²

Required other tools (to be ordered separately):

- Press head 60 t, type H240K (Item no. 76692)
- Hydraulic pipe (Item no. 76693)
- Hexagonal press dies of required dimension(s)

Miscellaneous:

- Foot switch with on/off function and cable of length 3.1 m
- Spare parts:
 - Standard hydraulic oil
 - Please see separate list of spare part (Item no. 100585)

Packaging:

- According to order in a separate box or together with other items in a box



Technical data:

Item number	Type	Max. working pressure	Hydraulic oil content	Material of oil reservoir	Rated voltage	Rated power	Weight with oil
76691	PE 172 AM	700 bar	6 l	Aluminium	220 V / 50/60 Hz	370 W	30 kg

Press head 60 t of type H240K

is applied for the pressing of bolts and crimp sleeves.

Scope of supply:

- Basic tool

Application:

- For pressing of bolts and crimp sleeves for cable diameters of 185 to 2500 mm²

Required other tools (to be ordered separately):

- Electro-hydraulic high-pressure pump of type PE 172 AM 50-220 (Item no. 76691)
- Hydraulic pipe (Item no. 76693)
- Hexagonal press dies of required dimension(s)

Miscellaneous:

- Repair and maintenance through manufacturer only
- Set of sealings (Item no. 62525)
- The pressing of steel pulling heads is also possible, separate technical information is required for this.

Packaging (to be ordered separately):

- Wooden box (Item no. 62267)



Technical data:

Item number	Max. working pressure	Maximum force	Type of connection	Max. conductor cross section	Weight
76692	700 bar	600 kN	PVVM38	2500 mm ²	34 kg

Hydraulic tube to press head of type H240K

is applied for the pressing of bolts and crimp sleeves.

Scope of supply:

- Basic tool

Application:

- For pressing of bolts and crimp sleeves for cable diameters of 185 to 2500 mm²

Required other tools (to be ordered separately):

- Electro-hydraulic high-pressure pump of type PE 172 AM 50-220 (Item no. 76691)
- Press head 60 t of type H240K (Item no. 76692)
- Hexagonal press dies of required dimension(s)

Miscellaneous:

- Hydraulic tube with nonelectrical conductivity

Packaging:

- According to order in a separate box or together with other items in a box



Technical data:

Item number	Max. working pressure	Length	Type of connection	Weight
76693	700 bar	2.5 m	CEJN 115 6404	1 kg

Hexagonal press dies 60 t for press head of type H240K

are applied for the pressing of bolts.

Scope of supply:

- 1 pair of press dies

Application:

- For pressing bolts for copper and aluminum conductors with cross sections of 185 to 2500 mm².

Required other tools (to be ordered separately):

- Press head 60 t of type H240K (Item no. 76692)
- For a cross section of 185 to 800 mm²
 - Electro-hydraulic high pressure pump of type EHP 850 (Item no. 65416)
- For a cross section of 185 to 2500 mm²
 - Electro-hydraulic high-pressure pump of type PE 172 AM 50-220 (Item no. 76691)
 - Hydraulic pipe (Item no. 76693)



Miscellaneous:

- Selection of tools according to separate instructions
- The pressing of steel pulling heads is also possible, separate technical information is required for this.

Packaging (to be ordered separately):

- Wooden box for:
 - 4 pair of press dies (Item no: 47980)
 - 1 pair of press dies (Item no: 47981)

Technical data of tools for polymer cables:

Item number	Conductor cross section mm ²	Type	Number of pressings	Standard	Applicable type of hydraulic pump	Weight
65975	185	SK 25	1	DIN	EHP 850 and PE 172 AM	4.7 kg
65976	240	SK 28	2	DIN	EHP 850 and PE 172 AM	4.7 kg
65977	300	SK 32	2	DIN	EHP 850 and PE 172 AM	4.9 kg
65978	400	SK 38	2	DIN	EHP 850 and PE 172 AM	4.9 kg
65979	500	SK 42	3	DIN	EHP 850 and PE 172 AM	4.8 kg
62188	630	SK 44	3	DIN	EHP 850 and PE 172 AM	4.7 kg
62364	800	SK 52	3	DIN	EHP 850 and PE 172 AM	4.9 kg
62016	1000	SK 58	3	DIN	PE 172 AM	4.9 kg
76698	1200	SK 60	3	Brugg	PE 172 AM	4.8 kg
65980	1400 (2750 kcmil)	SK 65	3	Brugg	PE 172 AM	4.7 kg
62017	1600	SK 70	3	Brugg	PE 172 AM	4.7 kg
62608	2000	SK 75	3	Brugg	PE 172 AM	4.5 kg
64413	2500	SK 80	3	Brugg	PE 172 AM	4.5 kg

Technical data of tools for oil-filled cables:

Item number	Conductor cross section mm ²	Type	Number of pressings	Standard	Applicable type of hydraulic pump	Weight
65976	185	SK 28	2	DIN	EHP 850 and PE 172 AM	4.7 kg
65977	240	SK 32	2	DIN	EHP 850 and PE 172 AM	4.9 kg
65978	300	SK 38	2	DIN	EHP 850 and PE 172 AM	4.9 kg
65979	400	SK 42	3	DIN	EHP 850 and PE 172 AM	4.8 kg
62188	500	SK 44	3	DIN	EHP 850 and PE 172 AM	4.7 kg
62364	630	SK 52	3	DIN	EHP 850 and PE 172 AM	4.9 kg
62016	800	SK 58	3	DIN	EHP 850 and PE 172 AM	4.9 kg
76698	1000	SK 60	3	Brugg	PE 172 AM	4.8 kg
65980	1200	SK 65	3	Brugg	PE 172 AM	4.7 kg
62017	1400	SK 70	3	Brugg	PE 172 AM	4.5 kg
62608	1600	SK 75	3	Brugg	PE 172 AM	4.5 kg
62608	2000	SK 75	3	Brugg	PE 172 AM	4.5 kg

Hexagonal and round press dies 60 t for press head of type H240K

are applied for pressing crimp sleeves of type PHSD and PHSD-H.

Scope of supply:

- 1 pair of press dies

Application:

- For pressing crimp sleeves for copper and aluminum conductors with cross sections of 240 to 2000 mm².
(For a conductor cross section of 2500 mm² screwed- or welded connections are used)

Required other tools (to be ordered separately):

- Electro-hydraulic high-pressure pump of type PE 172 AM 50-220 (Item no. 76691)
- Press head 60t of type H240K (Item no. 76692)
- Hydraulic pipe (Item no. 76693)

Miscellaneous:

- Selection of tools according to separate technical instructions
- Each of the five pressings must be made with the corresponding press dies as given in the table below
- The pressing of steel pulling heads is also possible, separate technical information is required for this.

Packaging (to be ordered separately):

- Wooden box for:
 - 4 pair of press dies (Item no. 47980)
 - 1 pair of press dies (Item no. 47981)



Technical data:

Cross section mm ²	1. Pressing		2. Pressing		3. Pressing		4. + 5. Pressing	
	Item number	Press dies	Item number	Press dies	Item number	Press dies	Item number	Press dies
240	65986	SK 26 - 23*	65982	R 23**	65985	SK 23 - 20	65981	R 20
300	64554	SK 29 - 26	64577	R 26	65986	SK 26 - 23	65982	R 23
400	64541	SK 33 - 29	64576	R 29	64554	SK 29 - 26	64577	R 26
500	76832	SK 38 - 33	62186	R 33	64541	SK 33 - 29	64576	R 29
630	62132	SK 43 - 38	62133	R 38	76832	SK 38 - 33	62186	R 33
800	76728	SK 49 - 43	62009	R 43	62132	SK 43 - 38	62133	R 38
1000	76729	SK 54 - 49	76697	R 49	76728	SK 49 - 43	62009	R 43
1200	76694	SK 61 - 54	76695	R 54	76729	SK 54 - 49	76697	R 49
1600	76730	SK 68 - 61	62011	R 61	76694	SK 61 - 54	76695	R 54
2000	65987	SK 76 - 68	65983	R 68	76730	SK 68 - 61	62011	R 61

*: SK = hexagonal; **: R = round

Slide-on device

is applied to slide-on the silicone slip-on bodies of type ASMK on the polymer cable with insulation diameters in the range of 56 – 109 mm.

Scope of supply of complete set (Item no. 88474):

- Basic equipment
 - Carrier for slip-on body (Item no. 88294)
 - Set of grease-sticks (Item no. 88138)
 - Pressure reduction valve for nitrogen, for smooth pressure setting (Item no. 88285)
 - Baseplate (Item no. 76197)
 - Guide rod of Ø 15 mm x 230 mm (Item no. 78047)
 - Guide rod of Ø 15 mm x 550 mm (Item no. 76213)
 - Threaded rod M 16 x 480 mm (Item no. 76238)
 - Wingnut M 16 (Item no. 76233)
 - Sheath tube KIR PG 16 x 350 mm (Item no. 76231)
 - Cable stripping knife (Item no. 04627)
 - Filament adhesive tape "Scotchpro 8956", 18 pieces (Item no. 76295)
 - Rubber gasket 10 x 12.5 mm, 15 m (Item no. 76226)
 - Adhesive tape of type 228-20/30 black, 18 pieces (Item no. 14955)
 - Self-vulcanising insulation tape of type B 50 – 19/9.1, 18 pieces (Item no. 54197)
 - Cylindrical screw with internal hexagon of type DIN 912-M 10 x 45 A2, 2 pieces (Item no. 15486)
 - Packaging
- All item numbers as given in the three tables below



Application:

- Set of tools that is used to slide-on the silicon slip-on bodies of type ASMK on the polymer cable with insulation diameters in the range of 56 – 109 mm and a cross section of 240 – 2000 mm²

Required items (to be ordered separately):

- The slide-on cone for slip-on bodies of type ASMK must be ordered separately for cables with a rated voltage of 72 kV (specification of insulation diameter and conductor cross section is necessary)
- Diameter measuring tape
- Bottle of nitrogen with pressure control unit with filter and hose (not in the scope of delivery, has to be ordered on site)

Miscellaneous:

- Spare parts and additional expandable items must be ordered separately
- To add a separate slide-on device of one size a set may be ordered separately (Item no. 88297)
- Assembling and testing instructions and packing list are available separately

Packaging:

- In a wooden box (Item no. 15753)
- The weight of the complete set of slide-on devices with box is 113 kg

Technical data of centrepiece, centre disc and O-ring:

Centrepiece		Centre disc		O-ring		
Item number	Ø	Item number	Ø	Item number	Ø inner	Pieces
76198	38 mm M 42 x 2	76193	46/100 mm	76237	37.47 mm	5
76199	38 mm M 50 x 2	76194	55/100 mm	35679	47.00 mm	5
76200	62.5 mm M 65 x 2	76195	67/100 mm	65711	62.87 mm	5
76201	72.5 mm M 75 x 2	76196	81/150 mm	35622	72.40 mm	5

Technical data of screw pin zinc-plated and hexagon wrench:

Screw pin zinc-plated			Hexagon wrench		
Item number	Dimension	Pieces	Item number	Dimension	Pieces
76236	M 6 x 6 mm	24	76246	3 mm	2
76244	M 6 x 10 mm	24	76247	5 mm	2
76245	M 6 x 12 mm	24	76248	8 mm	2

Technical data of auxiliary ring for slip-on device, cone and conductor ring:

Auxiliary ring for slip-on device		Cone		Conductor ring		
Item number	Ø	Item number	Ø	Item number	Ø	Conductor cross section
76166	60 mm	76179	56 mm A	76202	19.5 mm	240 mm ² A
76167	65 mm	76180	59 mm A	76203	21.8 mm	300 mm ² A
76168	70 mm	76181	64 mm B	76259	24.9 mm	400 mm ² A
76169	75 mm	76182	69 mm B	76204	24.9 mm	400 mm ² B
76170	80 mm	76183	74 mm B	76205	27.8 mm	500 mm ² B
76171	85 mm	64250	74 mm C	76206	32.0 mm	630 mm ² B
76172	90 mm	76184	79 mm C	76207	32.0 mm	630 mm ² C
76173	95 mm	76185	84 mm C	76208	36.8 mm	800 mm ² C
76174	100 mm	76186	89 mm C	76209	42.5 mm	1000 mm ² C
76175	105 mm	76187	94 mm C	76210	46.0 mm	1200 mm ² C
76176	110 mm	76188	99 mm C	62155	46.0 mm	1200 mm ² D
		76189	104 mm D	64249	52.2 mm	1600 mm ² C
		76190	109 mm D	76211	52.2 mm	1600 mm ² D
				76212	62.0 mm	2000 mm ² D

Size of threads of the cone and the conductor ring: A = M42 x 2; B = M50 x 2; C = M65 x 2; D = M75 x 2

Slide-on device

is applied to slide-on the silicone slip-on body of type ASMK with one size on the polymer cable with insulation diameters in the range diameters of 56 – 109 mm.

Scope of supply of a set for one size (Item no. 88295):

- Basic equipment
 - Carrier for slip-on body (Item no. 88294)
 - Set of grease-sticks (Item no. 88138)
 - Pressure reduction valve for nitrogen, for smooth pressure setting (Item no. 88285)
 - Baseplate (Item no. 76197)
 - Guide rod Ø 15 mm x 230 mm (Item no. 78047)
 - Guide rod Ø 15 mm x 550 mm (Item no. 76213)
 - Threaded rod M 16 x 480 mm (Item no. 76238)
 - Wingnut M 16 (Item no. 76233)
 - Sheath tube KIR PG 16 x 350 mm (Item no. 76231)
 - Cable stripping knife (Item no. 04627)
 - Filament adhesive tape "Scotchpro 8956", 5 pieces (Item no. 76295)
 - Rubber gasket 10 x 12.5 mm, 3 m (Item no. 76226)
 - Adhesive tape of type 228-20/30 black, 5 pieces (Item no. 14955)
 - Self-vulcanising insulation tape of type B 50 – 19/9.1, 5 pieces (Item no. 54197)
 - Cylindrical screw with internal hexagon of type DIN 912-M 10 x 45 A2, 2 pieces (Item no. 15486)
 - Hexagon wrench 3 mm (Item no. 76246)
 - Hexagon wrench 5 mm (Item no. 76247)
 - Hexagon wrench 8 mm (Item no. 76248)
 - Screw pin zinc-plated M 6 x 6 mm, 8 pieces (Item no. 76236)
 - Screw pin zinc-plated M 6 x 10 mm, 8 pieces (Item no. 76244)
 - Screw pin zinc-plated M 6 x 12 mm, 8 pieces (Item no. 76245)
 - Packaging
- One item number per individual article as given in the two tables below



Application:

- Set of tools that is used to slide-on the silicon slip-on bodies of type ASMK on the polymer cable with insulation diameters in the range of 56 – 109 mm and a cross section of 240 – 2000 mm²

Required items (to be ordered separately):

- The slide-on cone for slip-on bodies of type ASMK must be ordered separately for cables with a rated voltage of 72 kV (specification of insulation diameter and conductor cross section is necessary)
- Diameter measuring tape
- Bottle of nitrogen with pressure control unit with filter and hose (not in the scope of delivery, has to be ordered on site)

Miscellaneous:

- Spare parts and additional expandable items must be ordered separately
- To add a separate slide-on device of one size a set may be ordered separately (Item no. 88297)
- Assembling and testing instructions and packing list are available
- Please notice that in this device only one item number per individual article is included as given in the two tables below. For a complete set, please see item number 88474

Packaging:

- In a wooden box (Item no. 15753)
- Weight of the set of slide on device with box available upon request

Technical data of centrepiece, centre disc and O-ring:

Centrepiece		Centre disc		O-ring		
Item number	Ø	Item number	Ø	Item number	Ø inner	Pieces
76198	38 mm M 42 x 2	76193	46/100 mm	76237	37.47 mm	5
76199	38 mm M 50 x 2	76194	55/100 mm	35679	47.00 mm	5
76200	62.5 mm M 65 x 2	76195	67/100 mm	65711	62.87 mm	5
76201	72.5 mm M75 x 2	76196	81/150 mm	35622	72.40 mm	5

Technical data of auxiliary ring for slip-on device, cone and conductor ring:

Auxiliary ring for slip-on device		Cone			Conductor ring		
Item number	Ø	Item number	Ø	Pieces	Item number	Ø	Conductor cross section
76166	60 mm	76179	56 mm A	2	76202	19.5 mm	240 mm ² A
76167	65 mm	76180	59 mm A	2	76203	21.8 mm	300 mm ² A
76168	70 mm	76181	64 mm B	2	76259	24.9 mm	400 mm ² A
76169	75 mm	76182	69 mm B	2	76204	24.9 mm	400 mm ² B
76170	80 mm	76183	74 mm B	2	76205	27.8 mm	500 mm ² B
76171	85 mm	64250	74 mm C	2	76206	32.0 mm	630 mm ² B
76172	90 mm	76184	79 mm C	2	76207	32.0 mm	630 mm ² C
76173	95 mm	76185	84 mm C	2	76208	36.8 mm	800 mm ² C
76174	100 mm	76186	89 mm C	2	76209	42.5 mm	1000 mm ² C
76175	105 mm	76187	94 mm C	2	76210	46.0 mm	1200 mm ² C
76176	110 mm	76188	99 mm C	2	62155	46.0 mm	1200 mm ² D
		76189	104 mm D	2	64249	52.2 mm	1600 mm ² C
		76190	109 mm D	2	76211	52.2 mm	1600 mm ² D
					76212	62.0 mm	2000 mm ² D

Size of the threads of the cone and the conductor ring: A = M42 x 2; B = M50 x 2; C = M65 x 2; D = M75 x 2

Set of additional slide-on devices

is applied for additional use of slide-on devices for cables with insulation diameters in the range of 56 – 109 mm.

Scope of supply (Item no. 88297):

- Basic equipment
 - Filament adhesive tape "Scotchpro 8956", 3 pieces (Item no. 76295)
 - Rubber gasket 10 x 12.5 mm, 3 m (Item no. 76226)
 - Adhesive tape of type 228-20/30 black, 3 pieces (Item no. 14955)
 - Self-vulcanising insulation tape of type B 50 – 19/9.1, 3 pieces (Item no. 54197)
 - Screw pin zinc-plated M 6 x 6 mm, 8 pieces (Item no. 76236)
 - Screw pin zinc-plated M 6 x 10 mm, 8 pieces (Item no. 76244)
 - Screw pin zinc-plated M 6 x 12 mm, 8 pieces (Item no. 76245)
- One item number per individual article as given in the two tables below
- Packaging



Application:

- The set of additional slide-on devices is used to add a separate slide-on device of one size to the complete set of slid-on devices. For proper installation the basic tools as specified under item number 88474 or 88295 are required.

Required items (to be ordered separately):

- Slide-on device as specified under item number 88474
- or slide-on device as specified under item number 88295

Miscellaneous:

- Spare parts and additional expandable items must be ordered separately

Packaging:

- Covering box
- Weight of the set of slide on device available upon request

Technical data of centrepiece, centre disc and O-ring:

Centrepiece		Centre disc		O-ring		
Item number	Ø	Item number	Ø	Item number	Ø inner	Pieces
76198	38 mm M 42 x 2	76193	46/100 mm	76237	37.47 mm	2
76199	38 mm M 50 x 2	76194	55/100 mm	35679	47.00 mm	2
76200	62.5 mm M 65 x 2	76195	67/100 mm	65711	62.87 mm	2
76201	72.5 mm M 75 x 2	76196	81/150 mm	35622	72.40 mm	2

Technical data of auxiliary ring for slip-on device, cone and conductor ring:

Auxiliary ring for slip-on device		Cone			Conductor ring		
Item number	Ø	Item number	Ø	Pieces	Item number	Ø	Conductor cross section
76166	60 mm	76179	56 mm A	2	76202	19.5 mm	240 mm ² A
76167	65 mm	76180	59 mm A	2	76203	21.8 mm	300 mm ² A
76168	70 mm	76181	64 mm B	2	76259	24.9 mm	400 mm ² A
76169	75 mm	76182	69 mm B	2	76204	24.9 mm	400 mm ² B
76170	80 mm	76183	74 mm B	2	76205	27.8 mm	500 mm ² B
76171	85 mm	64250	74 mm C	2	76206	32.0 mm	630 mm ² B
76172	90 mm	76184	79 mm C	2	76207	32.0 mm	630 mm ² C
76173	95 mm	76185	84 mm C	2	76208	36.8 mm	800 mm ² C
76174	100 mm	76186	89 mm C	2	76209	42.5 mm	1000 mm ² C
76175	105 mm	76187	94 mm C	2	76210	46.0 mm	1200 mm ² C
76176	110 mm	76188	99 mm C	2	62155	46.0 mm	1200 mm ² D
		76189	104 mm D	2	64249	52.2 mm	1600 mm ² C
		76190	109 mm D	2	76211	52.2 mm	1600 mm ² D
					76212	62.0 mm	2000 mm ² D

Size of the threads of the cone and the conductor ring A = M42 x 2; B = M50 x 2; C = M65 x 2; D = M75 x 2

Slide-on device

is applied to slide-on the silicone slip-on bodies of type ASMK with insulation diameters in the range of 99 – 129 mm.

Scope of supply of complete set (Item no. 88475):

- Basic equipment
 - Carrier for slip-on body (Item no. 88294)
 - Set of grease-sticks (Item no. 88138)
 - Pressure reduction valve for nitrogen, for smooth pressure setting (Item no. 88285)
 - Baseplate (Item no. 76197)
 - Guide rod Ø 15 mm x 230 mm (Item no. 78047)
 - Guide rod Ø 15 mm x 550 mm (Item no. 76213)
 - Threaded rod M 16 x 480 mm (Item no. 76238)
 - Wingnut M 16 (Item no. 76233)
 - Sheath tube KIR PG 16 x 350 mm (Item no. 76231)
 - Cable stripping knife (Item no. 04627)
 - Filament adhesive tape "Scotchpro 8956", 12 pieces (Item no. 76295)
 - Rubber gasket 10 x 12.5 mm, 12 m (Item no. 76226)
 - Adhesive tape of type 228-20/30 black, 12 pieces (Item no. 14955)
 - Self-vulcanising insulation tape of type B 50 – 19/9.1, 12 pieces (Item no. 54197)
 - Cylindrical screw with internal hexagon of type DIN 912-M 10 x 45 A2, 2 pieces (Item no. 15486)
- All item numbers as given in the three tables below
- Packaging



Application:

- Set of tools that is used to slide-on the silicon slip-on bodies of type ASMK on the polymeric cable with insulation diameters in the range of 99 – 129 mm and a cross section of 1600 – 2500 mm²

Required items (to be ordered separately):

- Diameter measuring tape
- Bottle of nitrogen with pressure control unit with filter and hose (not in the scope of delivery, has to be ordered on site)

Miscellaneous:

- Spare parts and additional expandable items must be ordered separately
- To add a separate slide-on device of one size a set may be ordered separately (Item no. 88298)
- Assembling and testing instructions and packing list are available

Packaging:

- In a wooden box (Item 15751)
- Weight of the complete set of slide-on device with box is 113 kg

Technical data of centrepiece, centre disc and O-ring:

Centrepiece		Centre disc			O-Ring		
Item number	Ø	Item number	Ø	Pieces	Item number	Ø inner	Pieces
76201	72.5 mm M 75 x 2	76196	81/150 mm	2	35622	72.4 mm	5
64242	77.5 mm M 80 x 2				11381	75.57 mm	3

Technical data of screw pin zinc-plated and hexagon wrench:

Screw pin zinc-plated			Hexagon wrench		
Item number	Dimension	Pieces	Item number	Dimension	Pieces
76236	M 6 x 6 mm	12	76246	3 mm	2
76244	M 6 x 10 mm	12	76247	5 mm	2
76245	M 6 x 12 mm	12	76248	8 mm	2

Technical data of auxiliary ring for slip-on device, cone and conductor ring:

Auxiliary ring for slip-on device		Cone		Conductor ring		
Item number	Ø	Item number	Ø	Item number	Ø	Conductor cross section
64240	115 mm	64251	99 mm M75 x 2	76211	52.2 mm	1600 mm ² M75 x 2
64241	120 mm	76189	104 mm M75 x 2	76212	62.0 mm	2000 mm ² M75 x 2
64199	125 mm	76190	109 mm M75 x 2	64195	64.0 mm	2500 mm ² M 75 x 2
64200	130 mm	76191	114 mm M75 x 2	64196	64.0 mm	2500 mm ² M 80 x 2
		76192	119 mm M75 x 2			
		64252	119 mm M80 x 2			
		64197	124 mm M80 x 2			
		64198	129 mm M80 x 2			

Set of additional slide-on devices

is applied for additional use of slide-on devices for polymer cables with insulation diameters in the range of 99 – 129 mm.

Scope of supply (Item no. 88298):

- Basic equipment
 - Filament adhesive tape "Scotchpro 8956", 3 pieces (Item no. 76295)
 - Rubber gasket 10 x 12.5 mm, 3 m (Item no. 76226)
 - Adhesive tape of type 228-20/30 black, 3 pieces (Item no. 14955)
 - Self-vulcanising insulation tape of type B 50 – 19/9.1, 3 pieces (Item no. 54197)
 - Screw pin zinc-plated M 6 x 6 mm, 8 pieces (Item no. 76236)
 - Screw pin zinc-plated M 6 x 10 mm, 8 pieces (Item no. 76244)
 - Screw pin zinc-plated M 6 x 12 mm, 8 pieces (Item no. 76245)
- 1 item number per individual article as given in the two tables below
- Packaging



Application:

- The set of additional slide-on devices is used to add a separate slide-on device of one size to the complete set of slide-on devices. For proper installation the basic tool as specified under item number 88475 is required

Required items (to be ordered separately):

- Slide on device as specified under item number 88475

Miscellaneous:

- Spare parts and additional expandable items must be ordered separately

Packaging:

- Wooden box
- Weight of the set of slide-on device with box available upon request

Technical data of centrepiece, centre disc and O-ring:

Centrepiece		Centre disc		O-Ring		
Item number	Ø	Item number	Ø	Item number	Ø inner	Pieces
76201	72.5 mm M 75 x 2	76196	81/150 mm	35622	72.4 mm	2
64242	77.5 mm M 80 x 2			11381	75.57 mm	2

Technical data of auxiliary ring for slip-on device, cone and conductor ring:

Auxiliary ring for slip-on device		Cone			Conductor ring		
Item number	Ø	Item number	Ø	Pieces	Item number	Ø	Conductor cross section
64240	115 mm	64251	99 mm M75 x 2	2	76211	52.2 mm	1600 mm ² M 75 x 2
64241	120 mm	76189	104 mm M75 x 2	2	76212	62.0 mm	2000 mm ² M 75 x 2
64199	125 mm	76190	109 mm M75 x 2	2	64195	64.0 mm	2500 mm ² M 75 x 2
64200	130 mm	76191	114 mm M75 x 2	2	64196	64.0 mm	2500 mm ² M 80 x 2
		76192	119 mm M 75 x 2	2			
		64252	119 mm M 80 x 2	2			
		64197	124 mm M 80 x 2	2			
		64198	129 mm M 80 x 2	2			

Set of additional slide-on devices

is applied for additional use of slide-on devices for cables with insulation diameters in the range of 114 – 134 mm.

Scope of supply (Item no. 89391):

- Basic equipment
 - Filament adhesive tape "Scotchpro 8956", 3 pieces (Item no. 76295)
 - Rubber gasket 10 x 12.5 mm, 3 m (Item no. 76226)
 - Adhesive tape of type 228-20/30 black, 3 pieces (Item no. 14955)
 - Self-vulcanising insulation tape of type B 50 – 19/9.1, 3 pieces (Item no. 54197)
 - Screw pin zinc-plated M 6 x 6 mm, 8 pieces (Item no. 76236)
 - Screw pin zinc-plated M 6 x 10 mm, 8 pieces (Item no. 76244)
 - Screw pin zinc-plated M 6 x 12 mm, 8 pieces (Item no. 76245)
- One item number per individual article as given in the two tables below
- Packaging



Application:

- The set of additional slide-on devices is used to add a separate slide-on device of one size to the complete set of slid-on devices. For proper installation the basic tools as specified under item number 88475 or 88298 are required.

Required items (to be ordered separately):

- Slide-on device as specified under item number 88475
- or slide-on device as specified under item number 88298

Miscellaneous:

- Spare parts and additional expandable items must be ordered separately

Packaging:

- Covering box
- Weight of the set of slide on device available upon request

Technical data of centrepiece, centre disc and O-ring:

Centrepiece		Centre disc		O-ring		
Item number	Ø	Item number	Ø	Item number	Ø inner	Pieces
76201	72.5 mm M 75 x 2	76196	81/150 mm	35622	72.40 mm	2
64242	77.5 mm M 80 x 2			11381	75.57 mm	2

Technical data of auxiliary ring for slip-on device, cone and conductor ring:

Auxiliary ring for slip-on device		Cone			Conductor ring		
Item number	Ø	Item number	Ø	Pieces	Item number	Ø	Conductor cross section
64240	115 mm	76191	114 mm D	2	62155	46.0 mm	1200 mm ² M75 x 2
64241	120 mm	76192	119 mm D	2	76211	52.2 mm	1600 mm ² M75 x 2
64199	125 mm	64252	119 mm E	2	76212	62.0 mm	2000 mm ² M75 x 2
64200	130 mm	64197	124 mm E	2	64195	65.0 mm	2500 mm ² M75 x 2
77154	132 mm	77127	128 mm E	2	64196	65.0 mm	2500 mm ² M80 x 2
77128	135 mm	64198	129 mm E	2			
		77126	134 mm E	2			

Size of the threads of the cone and the conductor ring: D = M75 x 2; E = M80 x 2

Stress cone pulling device

is applied to slide-on the silicone stress cones of type STRC.

Scope of supply (Item no. 88299):

- 2 pieces of manual hoists of type "Habegger Hit-6", (Item no. 76155)
- Set of slip-on tubes consisting of:
 - Slip-on tube Ø 50 mm (Item no. 62313)
 - Slip-on tube Ø 63 mm (Item no. 62314)
 - Slip-on tube Ø 75 mm (Item no. 62315)
- Box with adaptation rings to pull-on the stress cones of type STRC (Item no. 88284) consisting of:
 - Adaptation ring Ø 58 mm (Item no. 76283)
 - Adaptation ring Ø 62 mm (Item no. 76289)
 - Adaptation ring Ø 66 mm (Item no. 76284)
 - Adaptation ring Ø 70 mm (Item no. 76290)
 - Adaptation ring Ø 74 mm (Item no. 76285)
 - Adaptation ring Ø 78 mm (Item no. 76291)
 - Adaptation ring Ø 82 mm (Item no. 76286)
 - Adaptation ring Ø 86 mm (Item no. 76292)
 - Adaptation ring Ø 90 mm (Item no. 76287)
 - Adaptation ring Ø 94 mm (Item no. 76293)
 - Adaptation ring Ø 98 mm (Item no. 76288)
 - Adaptation ring Ø 102 mm (Item no. 76294)
 - Adaptation ring Ø 110 mm (Item no. 62126)
 - Adaptation ring Ø 118 mm (Item no. 78058)
 - Adaptation ring Ø 126 mm (Item no. 78059)
 - Retaining ring (Item no. 76282)
 - Plastic box (Item no. 62056)
- Packaging



Application:

- The set of tools is used to pull-on the silicon stress cones of type STRC on the polymer cables.

Miscellaneous:

- Spare parts must be ordered separately

Packaging:

- In a wooden box (Item 62522)
- Weight of the complete set with wooden box is 40 kg

Technical data of manual hoist:

Item number	Rated force	Overload protection	Wire feed per double stroke	Load on lever at rated load	Wire diameter	Wire length	Length of wire rope strap	Weight with wire
76155	600 kg	900 kg	30 mm	25 kg	6.4 mm	10 m	1 m	7.4 kg

Cable grinding machine

is applied for grinding the insulation surface of polymeric cables.

Scope of supply:

- 1 Basic tool complete
- 1 Spanner wrench M 17
- 1 Technical document (various languages)
- 1 Safety instruction (various languages)
- 1 List of spare parts (English, German and French)
- Packaging

Application:

- The cable grinding machine is applied to grind the insulation surface of polymeric cables.

Required items (to be ordered separately):

- Emery papers, 29 mm wide, with the following grading:
 - 150 (Item no. 76094)
 - 180 (Item no. 76095)
 - 220 (Item no. 76096)
 - 320 (Item no. 76098)
 - 400 (Item no. 62371)

Miscellaneous:

- Spare parts
 - Driving mechanism without mechanical fittings (Item no. 78867)
 - Holder with rollers (Item no. 78868)
 - Mechanical drive with handle bar (Item no. 78869)
 - Adapter piece for fastening the holder with rollers consisting of:
 - a) Adapter (Item no. 52000280)
 - b) Socket head cap screws, 2 pieces (Item no. 52000292)
 - c) Spring lock washer, 2 pieces

Packaging:

- Plastic toolbox (Item 52000250)

Technical data of tool:

Item number	Type	Rated voltage	Rated power	Engine idling speed (continuously adjustable)	Dimension of tool box	Weight
88964	UPC 2-R	220/230 V 50/60 Hz	500 W	1000 – 2000 /min	510 x 260 x 250 mm	4.5 kg



Sheath cutter

for cutting all types of sheath materials of high voltage cables.

Scope of supply:

- 1 Basic tool
- 10 Knives with cutting depth of 3 – 12 mm
- Packaging

Application:

- The sheath cutter is applied to cut single layers- or the total depth of the outer sheath of high voltage cables. This might be thermoplastic outer sheaths of PE or PVC, coated aluminium sheaths, copper laminated sheaths, copper- or aluminium corrugated sheaths or lead sheaths.

Required other tools (to be ordered separately):

- 1 pair of tongs (Item no. 62520)

Miscellaneous:

- Spare parts
 - Set of knives, 5 pieces (Item no. 88459)

Packaging:

- Metal box



Technical data:

Item number	Type	Rated voltage	Rated power	Cutting speed	Cutting depth	Dimension of box	Weight
65502	MS2000	230 V / 50 Hz*	700 W	1 m/min.	3 - 12 mm	500 x 320 x 100 mm	8 kg

* Also available with 110 V / 60 Hz

Electric hand mixer of type CX 40

for mixing material of high viscosity.

Scope of supply:

- 1 hand mixer of type CX 40
- 1 mixing tool of type MK 140
- Packaging

Application:

- The electric hand mixer is applied to mix the 2-component material of high viscosity.

Miscellaneous:

- Motor with electronic speed controls
- Spare parts:
 - Mixing tool of type MK 140 (Item no. 64040)
 - Separate list of spare parts available on request

Packaging:

- Cardboard box



Technical data:

Item number	Type	Maximum mixable volume	Rated voltage	Rated power	Speed	Dimensions of mixing tool	Weight
64039	CX 40	65 l	230 V / 50 Hz	1200 W	Revolutions gear I 450/min Revolutions gear II 600/min	Diameter 140 mm Length 590 mm	9 kg

3-arm puller

for pull-off insulation parts of the polymer cable.

Scope of supply:

- Main tool
- Spanner "Kukko" for adjusting the legs of the tool
- Packaging

Application:

- The 3-arm puller is applied to pull-off insulation parts of the polymer cable.

Required other tools (to be ordered separately):

- Wrench for the spindle 19 mm / 24 mm
- Pressure disk

Packaging:

- Cardboard box



Technical data of 3-arm puller:

Item number	Type	Pulling width	Pulling depth	Pulling power	Wrench for spindle	Weight
76117	12-2	150 mm	125 mm	8 t	19 mm	1.7 kg
76118	12-3	200 mm	165 mm	10 t	24 mm	3.4 kg

Technical data of pressure disk:

Item num-	Conductor cross section	Diameter of disk	Thickness of disk	Weight
66416	400 mm ²	20 mm	13 mm	0.2 kg
66417	500 mm ²	22 mm	13 mm	0.2 kg
66418	630 mm ²	26 mm	13 mm	0.3 kg
66419	800 mm ²	30 mm	13 mm	0.3 kg
66420	1000 mm ²	35 mm	13 mm	0.4 kg
66421	1200 mm ²	40 mm	13 mm	0.6 kg
66422	1600 mm ²	45 mm	13 mm	*
66423	2000 mm ²	50 mm	13 mm	*
66424	2500 mm ²	60 mm	13 mm	*

* Available upon request

Pump for silicone oil D 40

for filling silicone oil.

Scope of supply:

- Base tool
- Extension to drum pump (Item no. 62231)
- Extract air tube with hose clamp (Item no. 88004)
- Packaging (Item no. 62265)

Application:

The pump for silicone oil is a double acting air operated oil pump, which is applied to fill silicone oil from drums of 50 – 60 l or containers with 25 l content. This oil pump is recommended for:

- Outdoor terminations of voltages < 220 kV and
- GIS terminations



Required other tools (to be ordered separately):

- Compressor with air hose and pressure limiting valve with connections of 0 – 12 bar of type "AIRBO" or
- Bottle of nitrogen bottle with pressure limiting valve of 200 bar with connections and pipes (not in the scope of delivery, has to be ordered on site)

Miscellaneous:

- Please beware that silicone oil must be stored in metal bins only
- Spare parts
 - Insulating sleeve, "Nylaflo 3/8" (Item no. 64648)
 - "Selfa-valve, RM 112 3/8" (Item no. 14721)
 - Diminishing piece G3/8" – G1/4" (Item no. 14726)

Packaging:

- Wooden box

Technical data:

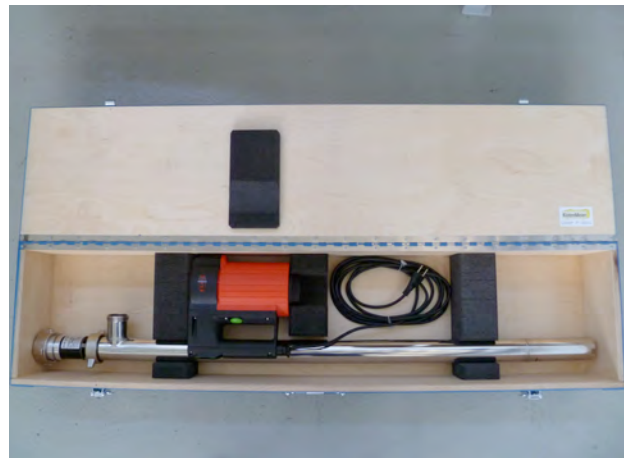
Item number	Type	Max. flow rate	Air pressure	Compression ratio	Pipe length	Connection	Suction pipe	Weight
88000	2030	14 l/min	3 - 8 bar	3 : 1	2 m	G 1/4" and G 3/8	Length 750 mm Diameter 40 mm	18 kg

Pump for silicone oil D 50

for filling silicone oil.

Scope of supply (Item no 88010):

- Electric motor of type F 457 EL to pump
- High viscosity liquid pump of type 550 GS complete with hose fitting
- Fabric tube of type Tricolair, Ø 32 — 42 mm, 3 m (Item no. 78914)
- Hose clamp of type Mikalor, Ø 32 — 50 mm, 4 pieces (Item no. 15671)
- Hose fitting of type IG-BSP MS-11/4BF-DN32 (Item no. 78915)
- Rubber gasket of 28 x 38 (Item no. 78917)
- Operating instruction to pump in English, German and French
- Operating instruction to motor in English, German and French
- List of spare parts to motor in English, German and French
- Packaging (Item no. 78913)



Application:

The high viscosity liquid pump with commutator motor according to the eccentric screw principle is applied to fill silicon oil from drums of 50 – 60 l or containers with 25 l content. It is recommended for outdoor terminations of voltages ≥ 220 kV

Packaging:

- Wooden box

Technical data of motor:

Type	Rated voltage	Rated power	Number of revolutions	Protection	Length of connecting cable
F 457 EL	230 V, 50 Hz	800 W	Continuously adjustable	IP 24	4.7 m

Technical data of pump:

Type	Type of stator	Gear ratio	Applicable power at the pump	Length of suction pipe	Weight of complete set
F 550 GS	PTFE	1 : 15.9	Maximum 1500 W	1 m	25.6 kg

Vacuum pump D 2.5

for pumping of gases and vapors.

Scope of supply (Item no. 88682):

- Basic tool (Item no. 64400)
 - Dirt sieve, 1 additional piece for replacement (Item no. 30214)
 - O-ring, 1 additional piece for replacement (Item no. 30215)
 - Adapter piece to vacuum pump (Item no. 88671)
 - Hexagon coupling nut 1/4 " (Item no. 30192)
 - Blind nipple 1/4 " with length of shaft of 6 mm (Item no. 30191)
 - Blind flange of type DN 16 KF, (Item no. 30213)
 - Centering ring with O-ring of type DN 16 KF, 3 pieces (Item no. 30211)
 - Clamping ring of type DN 16 KF, 3 pieces (Item no. 30210)
 - Pipe bend of type DN 16 KF (Item no. 184 36)
 - Exhaust filter of type AF 8 (Item no. 64401)
- Separately supplied oil filling with content of 1 l of type N62 (Item no. L 100 01)
- Operating instruction and list of spare parts in English and German
- 3-pin fixed adapter to plugs of type CEE7 — SEV Type 12
- Packaging (Item no. 75956)



Application:

The dual-stage rotary vane vacuum pump is applied to pump gases and vapors out of insulators for terminations. This vacuum pump is recommended for:

- Outdoor terminations of voltages < 220 kV and
- GIS terminations

Required other tools (to be ordered separately):

- Inspection class D 140 (Item no. 88681)
- Vacuum measuring set (Item no. 88683)

Complete system (Item no. 88680):

- The complete system consists of the following items:
 - Inspection glass D 140 (Item no. 88681)
 - Vacuum pump D 2.5 (Item no. 88682)
 - Vacuum measuring set (Item no. 88683)

Miscellaneous:

- Expandable items:
 - Oil to vacuum pump of type N62, content of 1 l (Item no. 100 01)

Packaging:

- Wooden box, ISPM Standard

Technical data of vacuum pump:

Item number	Type	Rated voltage	Power consumption	Oil filling max./min.	Pumping speed 50/60 Hz	Weight
64400	Trivac D 2.5 E	220 V – 240/230 V, 50/60 Hz	250/300W	0.7/0.4 l	2.7/3.3 m ³ · h ⁻¹	15.3 kg

Inspection glass D 140

is applied to inspect the oil level.

Scope of supply (Item no. 88681):

- Basic equipment (Item no. 88684)
- Hose clamps for diameters up to 20 mm, 5 pieces (Item no. 64319)
- Fabric tube with diameter of 8 x 14 mm, 2 hose nipples and coupling nuts of size $\frac{1}{4}$ ", length 3 m
- Fabric tube with diameter of 8 x 14 mm, 2 hose nipples and coupling nuts of size $\frac{1}{4}$ ", length 1 m, 3 pieces
- Blind nipples of size $\frac{1}{4}$ ", 3 pieces (Item no. 30190)
- Coupling nuts of size $\frac{1}{4}$ ", 3 pieces (Item no. 30192)
- Threaded nipples of size $\frac{1}{4}$ ", 3 pieces (Item no. 30195)
- Copper seal 17/23, 5 x 5 (Item no. 11679)
- Threaded nipple of size $\frac{3}{8}$ ", 5 pieces (Item no. 11676)
- Coupling nut of size $\frac{3}{8}$ ", 2 pieces (Item no. 11280)
- Blind nipple of size $\frac{3}{8}$ ", 2 pieces (Item no. 11281)
- Reducing pieces with coupling nuts of size $\frac{3}{8}$ " and $\frac{1}{4}$ ", 3 pieces (Item no. 14726)
- Packaging (Item no. 65646)

Application:

The inspection glass is applied to inspect the filling level of the oil. The upper flange of the inspection glass is applied as a connector of the tubes and the measuring gauge. This inspection glass is recommended for:

- Outdoor terminations of voltages < 220 kV and
- GIS terminations

Required items (to be ordered separately):

- Vacuum pump D 2.5 (Item no. 88682)
- Vacuum measuring set (Item no. 88683)

Complete system (Item no. 88680):

- The complete system consists of the following items:
 - Inspection glass D 140 (Item no. 88681)
 - Vacuum pump D 2.5 (Item no. 88682)
 - Vacuum measuring set (Item no. 88683)

Miscellaneous:

- Spare parts:
 - Hose nipple to $\frac{1}{4}$ " (Item no. 30196)
 - Glass cylinder (Item no. 64304)
 - Flat gasket to glass cylinder (Item no. 64311)

Packaging:

- Wooden box, ISPM Standard

Technical data of inspection glass:

Item number	Dimensions (glass cylinder only)	Weight (with screwed fittings and wooden box)
88684	Ø 150/140 x 200 mm	11.1 kg



Vacuum measuring set

is applied for measuring the vacuum.

Scope of supply (Item no. 88683):

- Basic equipment (Item no. 66402)
- Gauge complete with coupling nut, ball valve of type DN 16 KF and "Pirani Gauge" of type TPR 280
- Additional "Pirani Gauge" of type TPR 280 for replacement
- Operating instructions with list of spare parts to "Pirani Gauge" in English and German (hard copy)
- Operating instructions to vacuum controller and list of spare parts in English and German (compact disc)
- Safety guide to vacuum gauge and vacuum controller in English and German (hard copy)
- Packaging (Item no. 75997)

Application:

- The vacuum measuring set is applied to measure the vacuum in the inspection glass and for this reason in the insulator during the process of assembling.

Required items (to be ordered separately):

- Inspection glass D 140 (Item no. 88681) or inspection glass D 200 (Item no. 88661)
- Vacuum pump D 2.5 (Item no. 88682) or vacuum pump D 16 (Item no. 88662)

Miscellaneous:

- Spare parts:
 - "Pirani gauge" of type TPR 280 (Item no. 64403)
 - Clamping ring of type DN 16 KF (Item no. 30210)
 - Centering ring with O-ring of type DN 16 KF (Item no. 30211)
 - Adapter with hexagonal coupling nut 1/4 " and small flange DN 16 (Item no. 88685)

Packaging:

- Wooden box



Technical data of vacuum controller:

Item number	Type	Voltage	Frequency	Operating temperature	Gauge connection	Weight of complete set
64402	TPG 261	90 ...250 V AC	50 ... 60 Hz	+ 5 °C ... + 50 °C	1	8.6 kg

Vacuum pump D16

for pumping of gases and vapors.

Scope of supply (Item no. 88662):

- Rotary vane vacuum pump of type Trivac D 16 B (Item no. 78900)
 - Motor overload switch
 - Electric cable, length 5 m; connector of type CEE 16 A / 5-pole with phase changing switch
 - Exhaust filter of type 16-25, (Item no. 18811)
 - Centering ring DN 25 ISO-KF; stainless steel/Viton, 3 pieces (Item no. 88347)
 - Centering ring with fine filter DN 25 ISO-KF; stainless steel/Viton, 2 pieces (Item no. 88397)
 - Clamping ring DN 20/25 ISO-KF; Aluminum, 3 pieces (Item no. 18342)
 - Vacuum pump oil of type Leybonol LVO 100; mineral oil, content 1 liter (Item no. L10001)
- O-ring DN 25 ISO-KF; Viton, 2 additional piece for replacement (Item no. 78903)
- Adapter piece to vacuum pump (Item no. 88672)
- Blind nipple ¼" with length of shaft of 6 mm (Item no. 30191)
- Hexagon coupling nut ¼" (Item no. 30192)
- Dirt trap (Item no. 78902)
- Supporting ring and diaphragm to protect ports
- Documentation in English and German
 - Operating instructions to vacuum pump
 - Safety information on contamination of the pump
 - Spare parts lists to vacuum pump and exhaust filter
 - Operating instruction for the vacuum pump with motor overload switch (German only)
- Packaging (Item no. 78904)



Application:

The rotary vane vacuum pump is applied to pump gases and vapors out of insulators for terminations. It is recommended for outdoor terminations of voltages ≥ 220 kV.

Required other tools (to be ordered separately):

- Inspection class D 200 (Item no. 88661)
- Vacuum measuring set (Item no. 88683)

Complete system (Item no. 88660):

- The complete system consists of the following items:
 - Inspection glass D 200 (Item no. 88661)
 - Vacuum pump D 16 (Item no. 88662)
 - Vacuum measuring set (Item no. 88683)

Miscellaneous:

- Expandable items:
 - Vacuum pump mineral oil of type Leybonol LVO 100

Packaging:

- Wooden box, ISPM Standard

Technical data of vacuum pump:

Item number	Type	Rated voltage	Power consumption	Oil filling max./min.	Pumping speed 50/60 Hz	Weight
88662	Trivac D 16 B	3 ~ 230/400 V, 50 Hz; 250/440 V 60 Hz	550/750 W	1.0/0.5 l	16,5/19.8 m ³ · h ⁻¹	53.4 kg

Inspection glass D 200

is applied to inspect the oil level.

Scope of supply (Item no. 88661):

- Basic equipment (Item no. 88664)
- Hose clamps for diameters up to 20 mm, 5 pieces (Item no. 64319)
- Fabric tube with diameter of 8 x 14 mm, 2 hose nipples and coupling nuts of size 1/4", length 3 m
- Fabric tube with diameter of 8 x 14 mm, 2 hose nipples and coupling nuts of size 1/4", length 1 m, 3 pieces
- Blind nipples of size 1/4", 6 pieces (Item no. 30190)
- Coupling nuts of size 1/4", 6 pieces (Item no. 30192)
- Threaded nipples of size 1/4", 6 pieces (Item no. 30195)
- Copper seal 13/20 x 1.5, 6 pieces (Item no. 58608)
- Threaded nipple of size 3/8" for the oil drain (Item no. 11676)
- Coupling nut of size 3/8", (Item no. 11280)
- Blind nipple of size 3/8", (Item no. 11281)
- Copper seal 17/23,5 x 2 (Item no. 11679)
- Reducing pieces with coupling nuts of size 3/8" and 1/4", 3 pieces (Item no. 14726)
- Packaging (Item no. 78889)

Application:

The inspection glass is applied to inspect the filling level of the oil. The upper flange of the inspection glass is applied as a connector of the tubes and the measuring gauge. This inspection glass is recommended for outdoor terminations of voltages ≥ 220 kV.



Required items (to be ordered separately):

- Vacuum pump D 16 (Item no. 88622)
- Vacuum measuring set (Item no. 88683)

Complete system (Item no. 88660):

- The complete system consists of the following items:
 - Inspection glass D 200 (Item no. 88661)
 - Vacuum pump D 16 (Item no. 88662)
 - Vacuum measuring set (Item no. 88683)

Miscellaneous:

- Spare parts:
 - Hose nipple to 1/4" (Item no. 30196)
 - Glass cylinder (Item no. 78884)
 - Flat gasket to glass cylinder (Item no. 78885)

Packaging:

- Wooden box, ISPM Standard

Technical data of inspection glass:

Item number	Dimensions (glass cylinder only)	Weight (with screwed fittings and wooden box)
78884	Ø 215/200 x 300 mm	26.8 kg

Cable bandsaw

is applied for sawing polymeric cables.

Scope of supply (Item no. 88880):

- 1 Basic tool (Item no. 64912)
- 1 Holding device consisting of aluminum holder and tighten clamp (Item no. 64987)
- 1 hexagonal key 6 mm
- Instruction manual including list of spare parts in English, German, French, Spanish and Italian
- Packaging (Item no. 65732)

Application:

- The cable bandsaw is used to cut polymeric cables.

Miscellaneous:

- Spare parts:
 - Aluminum holder (Item no. 65029)
 - Tighten clamp (Item no. 65554)
 - Endless saw blade (Dimension 1440 x 13 x 0.65 x 8/12 Z)

Packaging:

- Wooden box



Technical data of basic tool:

Item number	Type	Rated voltage	Rated power	Cutting depth	Engine speed (continuously adjustable)	Dimension of tool box	Weight
64912	MP 88	230 V 50 Hz	1800 W	Max. 150 mm	20 – 110 m/min	71 x 37 x 29 cm	30 kg

Cable bending device

is applied for bending of polymeric cables.

Scope of supply:

- 1 Basic tool
- 1 Hydraulic tube
- Instruction sheet to pull cylinder in English, German, French and five other languages
- Packaging (Item no. 15754)

Application:

- The cable bending device is used to bend polymeric cables with an outer diameter between 80 and 160 mm.

Required other tools (to be ordered separately):

- Electro-hydraulic high-pressure pump of type PE 172 AM 50-220 (Item no. 76691)

Miscellaneous:

- Minimum radius to be applied according to separate instructions of the cable manufacturer.
- Spare parts:
 - Hydraulic pull cylinder of type BRC-46 (Item no. 65948)
 - Hydraulic tube (Item no. 76693)

Packaging:

- Wooden box



Technical data:

Item number	Cable diameter	Cylinder capacity	Stroke of cylinder	Dimension of box	Weight
88675	80 – 160 mm	5 T	140 mm	137 x 38 x 26 cm	39 kg

Dismantling fork

for removing of copper corrugated sheath and lead sheath of cables.

Scope of supply:

- Main tool
- Packaging

Application:

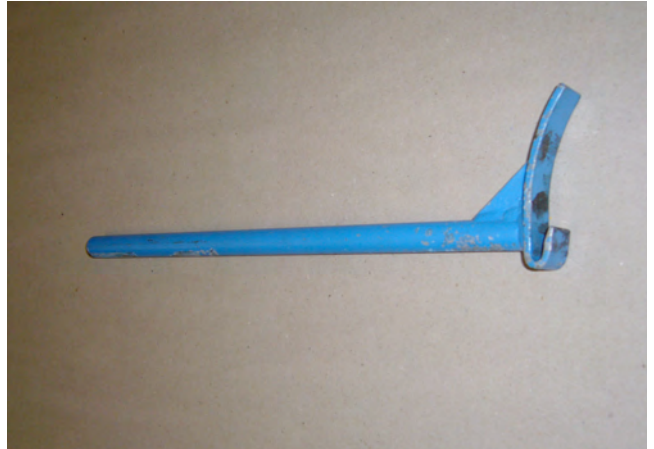
- The dismantling fork is applied to remove the copper corrugated and lead sheath of polymer cables.

Miscellaneous:

- Please note that two dismantling forks are necessary for a proper dismantling procedure.

Packaging:

- Covering box

**Technical data:**

Item number	Material	Length of steel pipe	Width of tool	Weight
76631	Steel	350 mm	25 mm	0.45 kg

Hand workshop and measuring tools of type A

for common applications.

Scope of supply:

- Caliper rule 150 mm (Item no. 64359)
- Folding rule (Item no. 09255)
- Diameter tape rule up to Ø 115 mm (Item no. 53889)
- Combination plier, length 180 mm (Item no. 76215)
- Snipe nose side cutting plier, 160 mm (Item no. 76216)
- Cutting plier, length 160 mm (Item no. 76216)
- Carpenter's pincer length 250 mm (Item no. 76218)
- Plier wrench, length 250 mm (Item no. 76219)
- Hammer with timber needle, 600 gr. (Item no. 76220)
- Hammer with nylon inserts, 650 gr. (Item no. 76221)
- Palette-knife, width 50 mm (Item no. 76222)
- Flat brush, width 30 mm (Item no. 76223)
- Tape rule, length 3 m (Item no. 76227)
- Steel brush; steel facing 140 mm (Item no. 76228)
- Hex key L-wrench set, 1.5 – 10 mm (Item no. 64351)
- Ball point hex keys with handle for hexagon socket screws, dimensions 5x140, 6x160, 8x180
- Phillips screwdrivers, size 0x60, 1x80, 2x100, 3x150
- Screwdrivers for slotted screws, size 0.5x3.5x90, 0.6x4.0x100, 0.8x5.5x120, 1.0x6.5x140, 1.2x8x160
- Set of tubular socket wrenches, 90° offset, width across flats 10, 13, 16, 17, 18, 19
- Adjustable spanners with jaw capacity of 19 and 30 mm
- Screw wrench of type Reishauer, size of wrench 85 mm (Item no. 66049)
- Centre punches, octagonal, 120 mm (Item no. 66050)
- Parallel pin punches, octagonal, 150 mm, Ø 4, 6, 8 mm
- Flat chisels, octagonal, size 14 x 150 mm, 25 x 175 mm
- Paper and fabric scissor, 180 mm (Item no. 66056)
- Multi-purpose shear, length 190 mm (Item no. 66057)
- Ideal snip, length 280 mm (Item no. 66058)
- Combination spanners of type open box, size 8, 10, 13, 16, 17, 18, 19, 24, 27
- Cable stripping knife, length of aquiline blade 54 mm, 2 pieces (Item no. 09257)
- Cable stripping knife, length of the blade 78 mm, 2 pieces (Item no. 04627)
- Cable stripping knife, blade with shoe, length 40 mm, 2 pieces (Item no. 04539)
- Sheet steel tool box (Item no. 64361)

Application:

- The hand workshop and measuring tools are applied for general operations and general measuring processes.

Technical data of the hand workshop- and measuring tools:

Item number	Dimensions of sheet steel box	Number of items	Weight (complete set)
88927	530 x 200 x 200 mm	59	16.8 kg

Miscellaneous:

- The complete set of general mounting tools of type ABC (Item no. 88926) consists of the following items:
 - Hand workshop and measuring tools of type A (Item no. 88927)
 - Special tools and tools for soldering of type B (Item no. 88928)
 - Socket set of type C (Item no. 64350)

Packaging:

- Sheet steel tool box



Special tools and tools for soldering of type B

for mechanical operations, brazing, soldering and heating shrinking tubes.

Scope of supply:

- Hand file rasp (cut 1), length without tang 250 mm (Item no. 66068)
- Hand file 2nd cut (cut 2), length without tang 250 mm (Item no. 66069)
- Hand file smooth (cut 3), length without tang 250 mm (Item no. 66070)
- Round file 2nd cut (cut 2), length without tang 250 mm (Item no. 66071)
- Half-round file rasp (cut 1), length without tang 250 mm (Item no. 66072)
- Three-edge hollow scraper, blade length 100 mm (Item no. 66073)
- File handle, length 120 mm, 6 pieces (Item no. 66074)
- Hacksaw blade, 24 TPI, length 300 mm, 5 pieces (Item no. 66075)
- Saw with straight frame and blade backing, length of tool 350 mm, length of blade 190 mm (Item no. 54062)
- Gas lighter with fire stone (Item no. 64360)
- Replacement fire stones, 10 pieces (Item no. 66076)
- Roller chain cutter for cable armors with diameters between 20 – 76 mm. (Item no. 54357)
- Replacement chain to roller chain cutter (Item no. 64515)
- Cable cutter, max. cable Ø of 52 mm (Item no. 64339)
- Pliers of type LIGAREX for tensioning band hose clamps (Item no. 04788)
- Stainless band of type LIGAREX, dimension 10 x 0.3 mm, length 25 m (Item no. 47983)
- Stainless fastener of type LIGAREX for stainless bands, width of 10 mm, 100 pieces (Item no. 47984)
- Pliers for opening polyethylene-cables, blades for radial- and longitudinal cut, maximum diameter 30 mm, length 310 mm (Item no. 71706)
- Torch grip, coupling connection $\frac{3}{8}$ " (Item no. 53584)
- Soldering/heating torch, flame Ø 9mm (Item no. 53587)
- Soldering/heating torch, flame Ø 20mm (Item no. 53588)
- Soldering/heating torch, flame Ø 40mm (Item no. 53590)
- Propane gas hose, coupling connections $\frac{3}{8}$ ", length 3 m (Item no. 53595)
- Regulator with hose break safety and leak test, gas output $\frac{3}{8}$ ", gas feed according to Swiss Standards (Item no. 53593)
- Tee-fitting connector with 3 coupling connections $\frac{3}{8}$ " (Item no. 53600)
- Sheet steel tool box (Item no. 64361)

Application:

- The special tools are applied for general mechanical operations and to process cross-bonding cables. The brazing and soldering tools are applied for heating shrinking tubes.

Miscellaneous:

- The complete set of general mounting tools of type ABC (Item no. 88926) consists of the following items:
 - Hand workshop and measuring tools of type A (Item no. 88927)
 - Special tools and tools for soldering of type B (Item no. 88928)
 - Socket set of type C (Item no. 64350)
- The connection between the regulator with hose break safety and leak test with the gas feed according to Swiss Standards and the gas bottle possibly will require an adapter piece considering local standards too. This needs to be provided locally.

Packaging:

- Sheet steel tool box



Technical data of special tools and tools for brazing and soldering:

Item number	Dimensions of sheet steel box	Number of items	Weight (complete set)
88928	530 x 200 x 200 mm	26	13.4 kg

Socket set of type C

for tightening screws and nuts.

Scope of supply:

- 17 sockets of type bi-hexagon, number 50: Sizes 8; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 21; 22; 24; 27; 30; 32 mm
- 8 INHEX sockets, number 54: Sizes 4; 5; 6; 7; 8; 10; 12; 14 mm
- 1 ratchet, number 512
- 3 extensions with a length of:
 - 75 mm, number 509/3
 - 130 mm, number 509/5
 - 255 mm, number 509/10
- 1 T-handle, number 506
- 1 universal joint, number 510
- Packaging

Application:

- This set of socket spanners consists of 31 pieces and is applied to tighten screws and nuts.

Miscellaneous:

- The complete set of general mounting tools of type ABC (Item no. 88926) consists of the following items:
 - Hand workshop and measuring tools of type A (Item no. 88927)
 - Special tools and tools for soldering of type B (Item no. 88928)
 - Socket set of type C (Item no. 64350)

Packaging:

- Sheet steel case

Technical data of socket set:

Item number	Four cornered shaft	Dimensions	Number of pieces	Weight
64350	1/2 "	50/54/25/6	32	6.2 kg



Torque wrench

is applied for controlling the torque of a screwed fastening.

Scope of supply (Item no 76149):

- Main tool
- Certificate of calibration
- Instruction manual
- Ratchet insert tool with a size of ½"
- Packaging

Application:

- The adjustable torque handle with a ratchet insert is applied to control the torque in both, clockwise and anti-clockwise directions.

Packaging:

- Plastic box for the main tool



Technical data of the torque wrench:

Type	Operates between	Operates between	Female part	Length of main tool	Weight
60	5 - 60 Nm	3.7 - 44 lbf.ft	9 x 12 mm	280 mm	0.8 kg

Hot air blower

is applied for heating of any plastic parts.

Scope of supply:

- Basic tool
- Wide nozzle 50 mm
- Glass protection nozzle 75 mm
- Operating instruction manual (German, French, Italian, English, Spanish and 24 other languages)
- Packaging

Application:

- The hot air blower with four preset programs is applied to be used for any hot air application during cable installation, such as shaping plastic tubes, shrinking fittings, soft soldering and smoothing the polymeric cable surface.

Miscellaneous:

- List of spare parts is available on request

Packaging:

- Plastic box

Technical data:

Item number	Type	Rated voltage	Rated power	Temperature at nozzle	Air flow	Weight
62465	GHG 660 LCD	220 – 240 V	2300 W	Approx. 50 ... 660 °C	Approx. 250... 500 l/min	1.0 kg



BAND-IT clamping hand tool

is applied for tightening of metal bands.

Scope of supply:

- Main tool
- Instruction sheet in German and French
- Packaging

Application:

- The BAND-IT hand tool is applied for tightening of metal bands and clamping with steel loops or preformed clamps.

Required other material (to be ordered separately):

- Stainless steel-loops, ½" for the fixation of the steel band (Item no. 65243)
- Stainless steel-band, ½" (12.7 mm x 0.76 mm) (Item no. 65244)
- Jr. Adapter Accessory Tool of type J00169 for the fixation of preformed clamps (Item no. 65800)

Miscellaneous:

- BAND-IT preformed clamps must be applied with the tool of type C00169 and in addition with the Jr. Adapter Accessory Tool of type J00169 (Item no. 65800). The accessory tool and the preformed clamps must be ordered separately.
- Spare parts:
 - Separate list of spare parts is available on request

Packaging:

- Cardboard box

Technical:

Item number	Type	Width of band	Width of band	Weight
65799	C00169	6.3 mm - 19 mm	¼" – ¾"	1.8 kg



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