

Machines & Tools

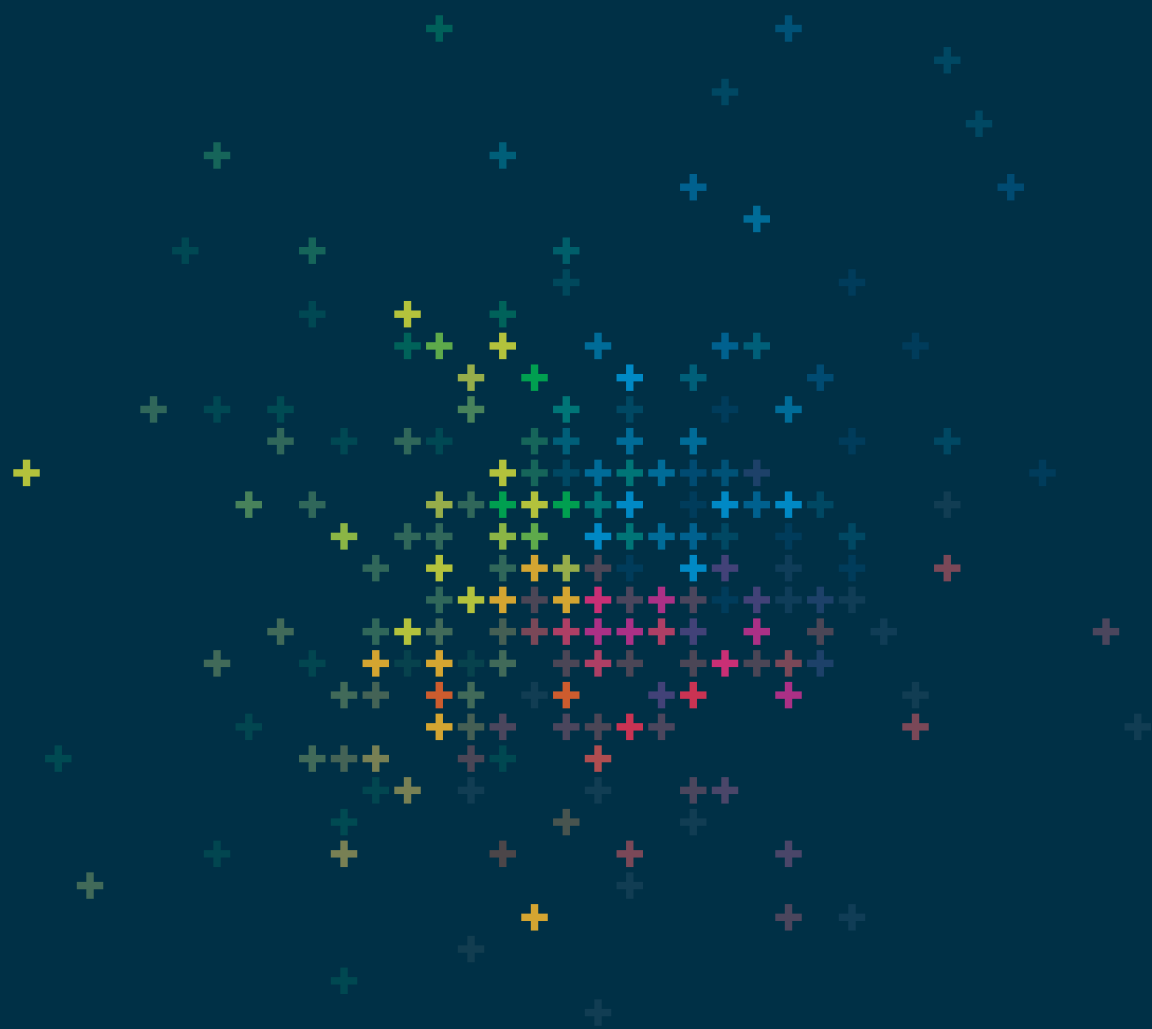
Product Range International 2015



Machines and Tools for Utility Applica- tions







Utility Range

Industry Range

Contents

Electrofusion units and accessories 6-15

- MSA machines
- Accessories

Tools and equipment for pipe installation 16-38

- Peeling tools
- Rerounding and clamping tools
- Drilling device W 410

Construction site butt fusion machines 39-60

- Butt fusion machines
- Accessories

Work shop butt fusion machines 61-73

- Work shop machines

Tools for installation of plastic pipes 74

- Tools for installation

Contents

Infrared fusion machines 75-86

- IR fusion machines
- Accessories

BCF fusion machines 87-93

- BCF fusion machines
- Accessories

Standart fusion machines 94-118

- Industry fusion machines
- Accessories
- Manual fusion tools

Index 119-122

Designed to make your job easier

Electrofusion Units

MSA 4.0, MSA 2.1 and MSA 2.0



MSA Machines

Working Range

[illegible]



MSA 4.0 Electrofusion unit with traceability and GPS function

High performance, light electro-fusion unit based on inverter technology, providing a complete documentation of the welding including operator badge, job codes, full traceability data (ISO 12176) and GPS coordinates added automatically to each fusion record.

All is meant to simplify the job: the barcode scanner, for long distance reading, the cooling system to joint in series, the icon system, to keep the interaction between user and machine intuitive, the configurable workflow to fit all needs, from the simplest to the most plenty of details.

The entire welding process is controlled and regulated with energy output compensation depending on ambient temperature and the indication of cooling time.

For operator identity card, job identification and fusion data input a 1D (or 2D in case of Unitary QR code availability) barcode scanner is connected.

The internal memory has a capacity of 5000 jointing records, which can be retrieved using a USB memory stick. The fusion protocols are delivered as PDF, CSV files (both manageable with standard and free PC software applications). For a more sophisticated usage, a BIN file is also available, compatible with the MSA Welding Book to sort, filter out and combine protocols and photos captured from multiple MSA units.

Robust aluminum die casting enclosures and comfortable plastic handle ensure a weight balanced carrying.

Rental time period programmable by the machine owner, unit blocks on expiring date, reset by a dynamic code can be activated.

Scope of delivery: transport case, scanner, 2 pairs of angle adapters (clips 4,0 mm and 4,7 mm), operation instructions, START/STOP badge, configuration chart and mini Welding Book CD including Rental Guardian application.

Technical Data:

- Mains frequency: 40-70 Hz
- Fusion data input mode: bar code, manual
- Mains voltage: 230 V (190V - 265V)
- Suggested power generators: 3.5 kVA
- Welding technique: Voltage controlled
- Fusion voltage: 8-48 V
- Fusion current: 110 A (max)
- Fittings range: d16-1400 mm
- USB Port: Type A
- Operating temperature: -20°C to +50°C
- Internal memory capacity: 5000 protocols
- Protocols format: PDF, CSV and BIN (compatible with MSA Welding Book)
- Protection factor: Class 1 / IP 65
- Mains cable: 4 m
- Fusion cable: 4 m
- Dimensions: 280 x 420 x 280 mm
- Weight: ca. 12.8 kg
- Display: Graphical LCD, adjustable contrast
- Languages support: 27

Type	Description	Code	PF	Weight [kg]
MSA 4.0	1D barcode scanner	790 156 011	3 10 588 200	18.000
MSA 4.0	2D barcode scanner (QR code reading)	790 156 012		18.000



MSA 2.1 Electrofusion unit with jointing date recording

The MSA 2.1 automatic electrofusion unit combines light weight and high efficiency, thanks to its inverter technology and furthermore provides fusion documentation in PDF. The unit is extremely fast and simple, with three basic operations required to operator: connect, scan, start the fusion.

It is robust, safe and ergonomic.

All is meant to simplify the job: the barcode scanner, for long distance reading, the cooling system to joint in series, the icon system, to keep the interaction between user and machine intuitive.

The entire welding process is controlled and regulated with energy output compensation depending on ambient temperature and the indication of cooling time.

The MSA 2.1 has 500 protocols permanently stored in the internal memory. The user can copy the fusion reports in an USB stick to print them out in PDF format.

Scope of delivery includes: transport box, 1 pair of angle adapter clips 4.0 mm, 1 pair of angle adapter clips 4.7 mm, operating instructions and START/STOP badge. The mini Welding Book is available as option.

Technical Data:

- Operating temperature: -20°C to +50°C
- Fusion data input mode: bar code, manual
- Mains voltage: 230 V (190V - 265V)
- Mains frequency: 40-70 Hz
- Welding technique: Voltage controlled
- Fusion voltage: 8-42 V (48 V)
- Fusion current: 90 A (max)
- Suggested power generators: 3.5 kVA
- Internal memory capacity: 500 protocols
- Fittings range: d16-1200 mm
- Protocols format: PDF and binary (compatible with mini Welding Book)
- USB Port: Type A
- Protection factor: Class 1 / IP 65
- Mains cable: 4 m
- Fusion cable: 4 m
- Weight: ca. 11.9 kg
- Display: Graphical LCD, adjustable contrast
- Languages support: all

Type	Code	PF	Weight [kg]
Barcode scanner, transport case	790 156 002	3 10 588 200	17.400
Barcode scanner, transport case, mini Welding Book	790 156 003	3 10 588 200	17.400



MSA 2.0 Electrofusion unit

The MSA 2.0 automatic electrofusion unit combines light weight and high efficiency, thanks to its inverter technology. The unit is extremely fast and simple, with three basic operations required to operator: connect, scan, start the fusion.

The MSA 2.0 has 350 protocols permanently stored in the internal memory.

It is robust, safe and ergonomic.

All is meant to simplify the job: the barcode scanner, for long distance reading, the cooling system to joint in series, the icon system, to keep the interaction between user and machine intuitive.

The entire welding process is controlled and regulated with energy output compensation depending on ambient temperature and the indication of cooling time.

Scope of delivery includes: transport box, 1 pair of angle adapter clips 4.0 mm and operating instructions.

Technical Data:

- Operating temperature: -20°C to +50°C
- Mains frequency: 40-70 Hz
- Mains voltage: 230 V (190V - 265V)
- Fusion current: 90 A (max)
- Suggested power generators: 3.5 kVA
- Welding technique: Voltage controlled
- Fusion voltage: 8-42 V (48 V)
- Fittings range: d16-1200 mm
- Fusion data input mode: bar code, manual
- Internal memory capacity: 350 protocols
- USB Port: Type A
- Protection factor: Class 1 / IP 65
- Mains cable: 4 m
- Fusion cable: 3 m
- Dimensions: 280 x 420 x 280 mm
- Weight: ca. 11.9 kg
- Display: Graphical LCD, adjustable contrast
- Languages support: all

Type	Code	PF	Weight [kg]	
Barcode scanner, transport case	790 156 001	3 10 588 200	17.400	



MSA 340 Electrofusion unit with traceability and GPS function

High performance electrofusion unit providing an entire documentation of fusion and traceability data (ISO 12176) including GPS coordinates added automatically to each fusion record. The internal memory has a capacity of 1000 jointing records, for data transfer the unit is equipped with an USB interface. The record is delivered as PDF or CSV format, both are manageable with common and free PC software applications. An intuitive operation menu guides you through the complete jointing process. For fusion data input a barcode scanner is connected. The entire welding process is controlled and regulated with energy output compensation depending on ambient temperature and indication of cooling time. Robust aluminum housing with convenient cable winding and handle for weight balanced transport. The unit is suitable for jointing in series. Rental time period programmable by the machine owner, unit blocks on expiring date, reset by password.

Scope of delivery: dedicated transport case, pouch for scanner, 2 pairs of angle adapter clips 4,0 mm and 4,7 mm, operation instructions and configuration chart.

Technical Data

Ambient temperature	-10°C to +45°C
Mains voltage	180 V - 265 V AC
Mains frequency	40 Hz - 70 Hz
Fusion voltage	8 - 48 V AC
Fusion current	max. 90 A
Suggested power generator	3,5 kVA (5,0 kVA for fittings with Ø>200mm)
Protection	Class 1 / IP 54
Mains cable	4 m
Fusion cable	4 m
Interface	USB (type A) for PC communication and software updates
Dimensions (WxHxD)	280 x 480 x 320 mm
Weight incl. cables	ca. 21,7 kg
Display	LCD (20 alphanumerical char. x 4 lines), contrast adjustment, blue background, white characters
Languages	10

PF 3 10 588 100

description	Code	Weight [kg]	
Barcode scanner, transport box	790 160 007	30.000	



MSA 330

Electrofusion unit with jointing data recording

The MSA 330 electrofusion unit combines high performance in jointing with easy and safe handling. The internal memory has a capacity of 500 jointing records, for data transfer the unit is equipped with an USB interface. The record is delivered as PDF or CSV format, both are manageable with common and free PC software applications. An intuitive operation menu guides you through the complete jointing process. For fusion data input a scanner is connected. The entire welding process is controlled and regulated with energy output compensation depending on ambient temperature and the indication of cooling time. Robust aluminum housing with convenient cable winding and handle for weight balanced transport. The unit is suitable for jointing in series. Scope of delivery: dedicated transport case, 2 pairs of angle adapter clips 4,0 mm and 4,7 mm, operation instructions and configuration chart.

Technical Data

Ambient temperature	-10°C to +45°C
Mains voltage	180 V - 265 V AC
Mains frequency	40 Hz - 70 Hz
Fusion voltage	8 - 48V AC
Fusion current	max. 90 A
Suggested power generator	3,5 kVA (5,0 kVA for fittings with >200mm)
Protection	Class 1 / IP 54
Mains cable	4 m
Fusion cable	4 m
Interface	USB (type A) for PC communication and software updates
Dimensions (WxHxD)	280 x 480 x 320 mm
Weight incl. cables	ca. 21,7 kg
Display	LCD (20 alphanumerical char. x 4 lines), contrast adjustment, blue background, white characters
Languages	10

description	Code	Weight [kg]	
Barcode scanner, transport case	790 160 005	30.00	

PF 3 10 588 100



MSA 230

Electrofusion unit with jointing data recording

Monovalent electrofusion unit (fusion voltage 39,0 40,0 Volt) equipped with barcode scanner for automated data entry. Recording of jointing data and operator identification code. Easy to handle, robust machine for the whole range of ELGEF fittings. The scanner supports the input of fusion barcodes even from non GF fittings requiring a fusion tension between 39,0 to 40,0 Volt.

Reliable process by controlled energy output, including ambient temperature correction factor. Suitable for jointing in series.

Easy interaction by choosing the favourite language of the operator. Scope of delivery includes: 1 pair of straight adapter clips 4.0 ->4.7 mm and operating instructions. To read out the fusion protocols, the data transfer cable (790 128 112) is required. No need for dedicated software, therefore no Windows compatibility issues.

Technical Data

Fusion data entry	barcode or manual
Ambient temperature	-10Cto +45C
Mains voltage	230 V(190 - 265 V)
Mains frequency	50 Hz (40 70 Hz)
Fusion voltage	39 40V AC
Internal Fuse	75 A (max. 90 A)
Power consumption	2.75 kW (max. 3.5 kW)
Protection	IP 54, Class 1
Interfaces	RS 232
Memory capacity	350 records
Mains cable	4 m
Fusion cable	3 m
Dimensions (WxHxD)	270 x 480 x 150 mm
Weight incl. cables	ca. 21 kg
Display	LCD graphic, background light
Size display (WxH)	60 x 17 mm
Character size	2.95 x 5.5 mm
Languages	EN, FR, DE, IT, PL, SP, RO, TR
Warranty	12 months

Scope of Delivery

MSA 230 Standard Scanner	Barcode scanner with pouch, straight adapter clips 4.0 - >4.7 mm
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PF 3 10 588 100

Type	Code	Weight [kg]	
MSA 230 Standard Scanner	790 128 029	22.000	



Adapters

- Compatible with electrofusion units MSA 210-230, MSA 330-340, MSA 250 – 400, MSA 250 – 400 PLUS.
- Adapters for Electrofusion units with 4 mm connectors.

Type	Code	SP	Weight [kg]	Description	
4,0 mm	799 350 340	1	0.058	Angle adapter, black	
4,7 mm	799 350 341	1	0.057	Angle adapter, grey	
4,0 mm	799 350 461	1	0.014	Adapter, black	
4,7 mm	799 350 462	1	0.014	Adapter, white	

PF 2 51 306 001



MSA applications suite

MSA Applications Suite

Software applications to assist Utility professionals during welding and asset maintenance

MSA Welding book

The application extends the jointing information beyond the protocols automatically captured by the MSA units adding the:

- Automatic generation of maps for the welding place
- Generation of protocols including photos of scraping activities and proper alignment
- PDF creation of books on project basis

Type	Code	Weight [kg]	
MSA Welding Book	790 160 201	0.100	

PF 3 10 588 900



MSA mini welding book

Software application to assist the installer to manage the welding results: PDF creation in local language from protocols exported by MSA3x0 and MSA 2.1 units Automatic merge of photos and fusion protocols Combination of fusion protocols retrieved from more than one unit Filter of fusion protocols per date, type of error, etc...

Type	Code	Weight [kg]	
MSA mini-Welding Book	790 156 030	0.050	

PF 3 10 588 500



MSA rent guardian

- Software application to unlock the MSA 330&340 when rental time is expired
- Generation of enabling code

Type	Code	Weight [kg]	
MSA Rent Guardian	790 160 154	0.001	

PF 3 10 588 900



Geothermal cables kit

- Ability to joint in parallel 2 couplers of a Y fitting
- Welding voltage: 0 – 48 Volt
- Welding current: 40 A (max.)
- Content of delivery: 2 cables, pouch, protection caps, operation manual
- Recommended in combination with ELGEF fittings
- Compatible with all MSA Units
- Connector: 4 mm (90°)
- Cable length: 290 mm

PF 3 10 588 900

Code	Weight [kg]	
790 160 176	0.385	



Data transfer cable

- RS 232 data transfer from MSA 230 to PC

PF 3 10 588 500

Type	Code	Weight [kg]	
MSA 230	790 128 112	0.125	



Transport box

- Large, robust transport box

Type	Dimension [mm]	Code	PF	Weight [kg]	
MSA 230	320x310x510	790 128 121	3 10 588 500	6.300	
MSA 330 / MSA 340	370x350x520	790 160 010	3 10 588 100	8.000	

Utility Range

Peeling Tools

Working Range

[illegible]



Rotary peeler RS

This innovative Rotary Peeler RS is designed for universal peeling at the pipe end for electrofusion couplings, tees and elbows and as well as for electrofusion saddles. Suitable for peeling PE80, PE100, PEX and PP pipes.

Features and your advantage:

Spring loaded peeling blade:Peeling quality independent of pipe ovality or tolerances

Pivoted mounted peeling blade:To compensate the shape of coiled pipe

Optimized cutting geometry:Defined chip thickness with cutting width overlap

One tool per dimension:Minimized swivel radius for peeling in narrow locations

Peeling length:No limitation of peeling length

Guidance rolls:3-point-support for dimensional optimized cutting feed

Time saving:Tool is always ready for use, it can be used for the next peeling without having to set the peeling blade back in its origin position

Your advantage:Time saving and highest repeatable peeling quality at smallest rotation radius. No operator errors possible when changing dimension

Included:1 x Rotary Peeler RS, Transport case, Operating manual, Spare parts list

Article	d [mm]	Code	Weight [kg]	
RS 40	40	790 136 001	1.310	
RS 50	50	790 136 002	1.310	
RS 63	63	790 136 003	1.310	
RS 75	75	790 136 004	1.540	
RS 90	90	790 136 005	1.540	
RS 110	110	790 136 006	1.540	
RS 125	125	790 136 007	1.730	
RS 140	140	790 136 008	1.730	
RS 160	160	790 136 009	1.730	
RS 180	180	790 136 010	2.030	
RS 200	200	790 136 011	2.030	
RS 225	225	790 136 012	2.030	
RS 250	250	790 136 013	2.440	
RS 280	280	790 136 014	2.440	
RS 315	315	790 136 015	2.440	

PF 3 25 879 100



Transport cases for rotary peeler RS

- Included in the scope of delivery of the Rotary Peeler RS

Article	Code	Weight [kg]	Description	Dimension [mm]	
RSTC 40-110	790 136 211	0.718	for RS 40-RS 110	326 - 222 - 116	
RSTC 125-160	790 136 212	1.212	for RS 125-RS 160	437 - 395 - 116	
RSTC 180-225	790 136 213	1.796	for RS 180-RS 225	450 - 360 - 132	
RSTC 250-315	790 136 214	2.901	for RS 250-RS 315	566 - 435 - 156	

PF 3 25 879 100



Replacement blade to rotary peeler RS

d-d [mm]	Description	Code	SP	Weight [kg]	
40 - 315	HSS	790 136 112	1	0.009	
40 - 315	Hard metal	790 136 100	0	0.005	

PF 3 25 118 906

Tools for preparing pipe surfaces

Peeling tool PT 1 E



- The rotating Peeling Tool PT 1 E is suitable for preparing pipe ends with diameters d 20 - 90 mm (when installing Electrofusion couplers and fittings). The tool ensures a constant peeling quality on the complete peeling surface and is suitable for PE80, PE100 and PEX.
- Scope of delivery: 1 basic tool in a plastic carrying case, without pipe inserts. The case has sufficient space for approximately 6 pipe inserts.

PF 2 51 305 004

d-d [mm]	Code	Weight [kg]	Description	
20 - 90	799 150 382	2.261	Basic Tool PT 1 E	

Pipe inserts for peeling tool PT 1 E



PF 2 51 305 004

d [mm]	e [mm]	Code	Weight [kg]	Description	
20	1.9	799 300 739	0.220	Pipe Insert SDR 11	
20	3.0	799 300 741	0.262	Pipe Insert SDR 7	
25	2.3	799 300 740	0.280	Pipe Insert SDR 11	
25	3.0	799 300 742	0.290	Pipe Insert SDR 9	
32	3.0	799 300 743	0.312	Pipe Insert SDR 11	
40	3.7	799 300 744	0.341	Pipe Insert SDR 11	
40	1.8	799 300 760	0.220	Pipe Insert SDR 26	
50	4.6	799 300 745	0.472	Pipe Insert SDR 11	
50	2.0	799 300 761	0.220	Pipe Insert SDR 26	
56	2.2	799 300 762	0.588	Pipe Insert SDR 26	
63	3.8	799 300 725	0.663	Pipe Insert SDR 17	
63	5.8	799 300 746	0.602	Pipe Insert SDR 11	
63	2.5	799 300 763	0.220	Pipe Insert SDR 26	
75	4.5	799 300 727	0.690	Pipe Insert SDR 17	
75	6.9	799 300 747	0.644	Pipe Insert SDR 11	
75	2.9	799 300 764	0.220	Pipe Insert SDR 26	
90	5.4	799 300 748	0.892	Pipe Insert SDR 17	
90	8.2	799 300 749	0.796	Pipe Insert SDR 11	

Replacement blade for peeling tool PT 1 E



PT 1 E

PF 2 51 305 004

d-d [mm]	Code	Weight [kg]	Description	
20 - 90	799 150 383	0.028	Replacement blade, 1 piece	



Peeling tool PT 2

- Scope of delivery: 1 tool (size 1, 2 or 3) in a metal carrying case.
- The rotating Peeling Tools PT 2 are suitable for preparing pipe ends (when installing Electrofusion couplers and fittings). The tool ensures a constant peeling quality on the complete peeling surface and is suitable for PE80, PE100 and PEX pipes.

d-d [mm]	Code	Weight [kg]	Description	
63 - 250	799 300 752	7.500	Size 1, peeling length 140 mm	
110 - 400	799 300 755	3.900	Size 2, peeling length 150 mm	
110 - 500	799 300 756	3.900	Size 3, peeling length 175 mm	

PF 2 51 305 004

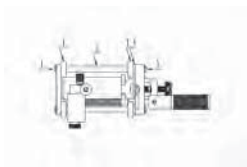


PT 2

PF 2 51 305 004

Replacement blade for peeling tool PT 2

d-d [mm]	Code	Weight [kg]	Description	
63 - 500	799 150 355	0.008	Replacement blade, 1 piece	

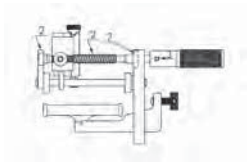


Spindles repair kit for peeling tool PT 2

- Consisting of 1 main spindle, 1 fixing bolt, 1 end plate, 2 rollers and 1 spacing disk

d-d [mm]	Code	SP	Weight [kg]	
90 - 250	799 150 360	0	1.000	
110 - 400	799 150 361	0	0.420	
110 - 500	799 150 362	0	1.000	

PF 2 51 305 004

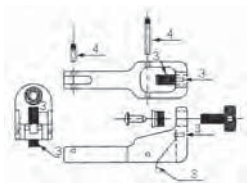


Feed repair kit feed for peeling tool PT 2

- Consisting of 1 carriage bolt, 1 guide unit and 1 guide end plate

d-d [mm]	Code	SP	Weight [kg]	
90 - 250	799 150 363	0	0.500	
110 - 400	799 150 364	0	0.346	
110 - 500	799 150 365	0	0.500	

PF 2 51 305 004

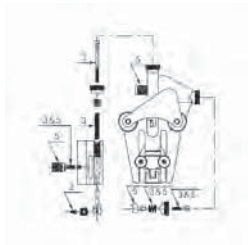


Screws and springs repair kit for peeling tool PT 2

- Consisting of 1 assembly screw long, 1 clamping screw, 1 handle, 1 screw for flat spring, 1 screw for cutting plate, 1 nut for feed, 1 flat spring, 1 spring for rapid adjustment and 1 clamping spring

d-d [mm]	Code	SP	Weight [kg]	
90 - 500	799 150 369	0	0.079	

PF 2 51 305 004



Tool holder repair kit for peeling tool PT 2

- 1 feed nut,
- 1 washer
- 1 fixing screw
- 1 nut for feed,
- 1 spring for rapid adjustment,

PF 2 51 305 004

d-d [mm]	Code	SP	Weight [kg]	
90 - 500	799 150 370	0	0.069	

Peeling tool PT 4



- The easy-to-use peeling tools PT 4 are suitable for preparing pipe ends (when installing Electrofusion couplers and fittings). The tools ensure a constant peeling quality on the whole peeled area and are suitable for PE80 and PE100 pipes.
- Scope of delivery: 1 tool with exchangeable blade (4 cutting surfaces).

PF 2 51 305 004

e [mm]	d [mm]	Code	Weight [kg]	Description	
1.9	20	799 300 704	0.303	Pipe Insert SDR 11	
3.0	20	799 300 705	0.296	Pipe Insert SDR 7	
2.3	25	799 300 706	0.320	Pipe Insert SDR 11	
3.0	25	799 300 707	0.314	Pipe Insert SDR 9	
3.0	32	799 300 708	0.340	Pipe Insert SDR 11	
3.7	40	799 300 709	0.437	Pipe Insert SDR 11	
4.6	50	799 300 710	0.502	Pipe Insert SDR 11	
5.8	63	799 300 711	0.541	Pipe Insert SDR 11	

Replacement blade for peeling tool PT 4



PT 4

PF 2 51 305 999

d-d [mm]	Piece	Code	Description	
20 - 63	1	799 150 275	Replacement blade with 4 cutting surfaces	



Peeling tool RTC-710

The peeling tool RTC-710 is suitable for preparing pipe ends in big dimensions (d 355-710 mm). The tool ensures a constant peeling quality on the complete peeling surface of max. 530 mm length and is suitable for PE 80 and PE 100 pipes.

Scope of delivery: 1 Scraper arm, 1 Self-centering chuck base, 2 Aluminium transport cases, 1 screwdriver, 1 spare blade, 1 deburring knife, 1 accessories bag.

PF 2 51 305 001

d-d [mm]	Code	Weight [kg]	Description	
355 - 710	799 300 757	31.400	max. working-range 530 mm	



PF 2 51 305 999

Replacement blade for peeling tool RTC-710

d-d [mm]	Piece	Code	Weight [kg]	Description	
355 - 710	1	799 300 586	0.020	Replacement blade, 1 piece	



Rotary peeling tool RST 1000

- The flexible peeling tool RST 1000 is suitable for preparing welding zones of saddle and coupler jointings for Electrofusion fittings
- To ensure the constant removal of the oxidation layer for PE80 and PE100, a long lasting peeling blade made of carbide is used
- Easy-to-hinge chain links enable the staged operation of pipes d250 to d1000 mm
- Compensation for ovality and variable pipe diameters with loaded spring component in the chain
- Scope of delivery includes: various chain links, spare blade, transport box

PF 2 51 305 001

d-d [mm]	Code	Weight [kg]	
250 - 1000	799 300 799	10.552	



Transportbox RST 1000 with inlays

- Included in the scope of delivery of the Rotary Peeler RST 1000

PF 2 51 305 001

d-d [mm]	Code	Weight [kg]	
250 - 1000	799 300 806	0.250	



Replacement blade for rotary peeling tool RST 1000

PF 2 51 305 001

d-d [mm]	Code	SP	Weight [kg]	Description	
250 - 1000	799 300 802	0	0.001	Replacement blade in carbide	



Hand scraper

- The Hand Scraper can be used to prepare the fusion zone on PE80 pipes.

PF 2 51 305 002

Code	Weight [kg]	Description	
799 198 094	0.143	Hand scraper with long handle	

Rerounding and Clamping Tools

[illegible]



PF 2 51 336 001

Multiple use assembly tool branch saddle d140mm

- Only to be used with Branch Saddle d140mm
- Delivered as complete Kit including screws and belt

d [mm]	Code	Weight [kg]	
140	193 281 027	0.724	



PF 2 51 305 008

Swivel clamp

- The Swivel Clamp centralises pipes with dimensions from d63 to 180 mm automatically. Suitable for coupler connections as well as reductions and bends. The 15° adjustment makes an exact positioning from 15° to 90° possible.

d-d [mm]	Code	Weight [kg]	
63 - 180	799 350 358	3.620	



PF 2 51 305 008

Double clamp

- The user-friendly Double Clamps are suitable for coupler connections. They are quickly and easily put into position and prevent pullout and pipe movements during the fusion time and cooling time.
- Scope of delivery: 1 tool consisting of 1 beam (compact), 2 V-clamps complete with ratchet and belt.

d-d [mm]	Code	Weight [kg]	
63 - 125	799 301 484	3.506	
110 - 225	799 301 486	7.918	
225 - 500	799 301 488	14.735	



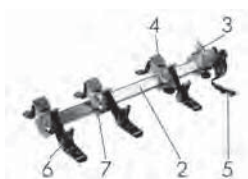
PF 2 51 305 008

Quadruple clamp

- The professional Quadruple Clamps are suitable for coupler connections. They are quickly and easily put into position and ensure a stress-free fusion. They prevent pull-out and pipe movements during the fusion and cooling times.
- Recommended for difficult site conditions with large installation-induced stresses.
- Scope of delivery: 1 tool consisting of 1 beam (long), 4 V-clamps complete with ratchet and belt.

d-d [mm]	Code	Weight [kg]	
63 - 125	799 301 459	7.142	
110 - 225	799 301 461	16.490	
225 - 500	799 301 463	28.500	

Spare parts for clamps



Pos	Dimension [mm]	Code	PF	SP	Weight [kg]	Description	
1	63-125, 45mm	799 900 414	2 51 305 008	0	1.700	square support short	
	110-225, 60mm	799 900 405	2 51 305 008	0	3.500	square support short	
	225-500, 80mm	799 900 394	2 51 305 999	0	6.000	square support short	
2	63-125, 45mm	799 900 413	2 51 305 008	0	3.600	square support long	
	110-225, 60mm	799 900 404	2 51 305 008	0	6.500	square support long	
	225-500, 80mm	799 900 387	2 51 305 999	0	11.500	square support long	
4	63-125	799 900 421	2 51 305 008	0	0.977	prism wide	
	110-225	799 900 423	2 51 305 008	0	2.000	prism wide	
	225-500	799 900 425	2 51 305 999	0	4.500	prism wide	
	63-125	799 150 312	2 51 305 008	0	0.270	ratch 25/15/0.7	
	110-225	799 150 313	2 51 305 008	0	0.232	ratch 25/25/0.7	
	110-225	799 150 315	2 51 305 008	0	0.496	ratch 35/35/1.1	
7	225-500	799 150 319	2 51 305 999	1	1.415	ratch 50/50/2.1	
		799 150 314	2 51 305 008	1	0.050	clamping screw	



Twin clamp

- The easy-to-use Twin Clamp is suitable for coupler connections on straight or coiled pipe. The clamps prevent pullout and pipe movements during the fusion and cooling time.
- Scope of delivery: 1 complete tool.

d [mm]	Code	Weight [kg]	
20	799 301 536	0.658	
25	799 301 537	0.471	
32	799 301 538	0.756	
40	799 301 539	1.079	
50	799 301 540	1.326	
63	799 301 541	1.618	

PF 2 51 305 003

Multi clamp

- This tool is quick and easy to use and is suitable for straight forward connections to straight lengths of pipe or saddle branch outlets with electrofusion couplers.
- Scope of delivery: 1 tool without accessories.



d-d [mm]	Code	Weight [kg]	
20 - 63	799 301 575	0.782	

PF 2 51 305 008



PF 2 51 305 008

Inserts for multi clamp

- The inserts are easily and quickly exchanged. A set consists of 4 inserts, each insert with 2 different dimensions.

d-d [mm]	Code	Weight [kg]	Description
25 - 20	799 150 385	0.488	Inserts, Sets
32 - 20	799 150 386	0.500	Inserts, Sets
32 - 25	799 150 387	0.520	Inserts, Sets
40 - 32	799 150 388	0.500	Inserts, Sets
50 - 40	799 150 389	0.500	Inserts, Sets
63 - 32	799 150 390	0.520	Inserts, Sets
63 - 40	799 150 391	0.520	Inserts, Sets
63 - 50	799 150 392	0.520	Inserts, Sets



PF 2 51 305 008

Clamping device Topload 400

- This clamp and mounting tool is used for top-load Saddles on pipes of dimensions d 280 - 400 mm.
- Scope of delivery: 1 base mounting clamp, 1 bracket, 2 clamping screws, 2 ratchet scraps, 1 transport box

d-d [mm]	Code	Weight [kg]
280 - 400	799 350 475	10.010



PF 2 51 305 008

Clamping device Topload 630

- This clamp and mounting tool is used for top-load Saddles on pipes of dimensions d 280 - 400 mm and branch fittings for dimensions d 280 mm – 630 mm.
- Scope of delivery: 1 base mounting clamp, 1 clamping attachment, 1 bracket, 2 clamping screws, 2 ratchet scraps, 1 transport box

d-d [mm]	Code	Weight [kg]
280 - 630	799 350 477	28.275

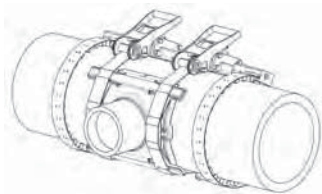


PF 2 51 305 008

Clamping attachment Topload 630

- Clamping attachment as single part for extension of Topload tool 400 (799 350 475)
- Suitable for Branch fittings dimension d 280 mm – 630 mm

d-d [mm]	Code	Weight [kg]
280 - 630	799 350 476	5.000

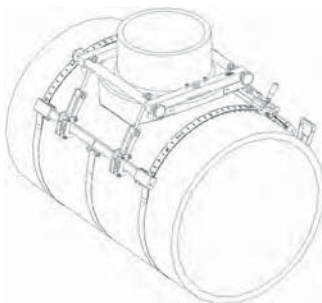


Installation set Topload 225

- Suitable for branch saddle d315-1000mm with spigot outlet d160/d225
- Use of set is mandatory for the installation of branch saddles
- Set includes frame with tension belts, peeling tool, clamp and transport box
- Patent pending

Code	SP	Weight [kg]	GP	
799 300 807	1	48.000	1	

PF 2 51 305 008

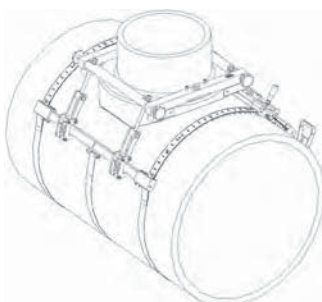


Installation set Topload 315

- Suitable for branch saddle d500-2000mm with spigot outlet d315
- Use of set is mandatory for the installation of branch saddles
- Set includes frame with tension belts, peeling tool, clamp for outlet d315mm and transport box
- For outlet d500 the clamp TL 500 is to be used, is not included in scope of delivery
- Patent pending

Code	SP	Weight [kg]	GP	
799 300 808	1	104.000	1	

PF 2 51 305 008



Installation set Topload 500

- Suitable for branch saddle d500-2000mm with spigot outlet d500
- Use of set is mandatory for the installation of branch saddles
- Set includes frame with tension belts, peeling tool, clamp for outlet d315mm/500mm and transport box
- Patent pending

Code	SP	Weight [kg]	GP	
799 300 809	1	124.000	1	

PF 2 51 305 008



Clamp set Topload 500

- Suitable for branch saddle d500-2000mm with spigot outlet d500
- Complementary set to Installation set Topload TL 315 for clamping branch saddles with outlet d500mm
- Use of set is mandatory for the installation of branch saddles
- Set includes clamp for spigot outlet d500 and transport box

PF 2 51 305 008

Code	Weight [kg]	
799 300 813	19.500	



Accessories / single parts for installation set Topload

PF 2 51 305 008

Code	Description	
799 300 923	Transport box TL 225 (860x700x180)	
799 300 820	Frame TL 225 incl. tension belt up to 1000mm	
799 300 835	Peeling tool TL 225	
799 300 920	Clamp TL 225	
799 300 831	Peel cutter TL	

table continued next page



Core cutter set for PE pipes

- Suitable for drilling of pressureless PE pipes
- Set includes core cutter, centre drill, adapter SDS max, ejector rod and transport box
- Suitable for branch saddle with spigot outlet (193135402 - 748)
- Core cutter is specially developed for plastic material
- Enables quick drilling
- Cutout stays in the core cutter

Technical information

Core cutter

L = 300 mm

d = spigot outlet fitting in mm

d1 = spot boring diameter in mm

Max. wall thickness = 120 mm

Pilot drill

d = 14mm, L = 400 mm

Ejector rod

d = 12mm, L = 500 mm

Connection drill machine

SDS max

Connection core cutter

G 1/2" (female thread) d160, 225, 315

G 1 1/4" (female thread) d500

Machine suggestion

Effective power minimum 1000 watt

Rotation speed 100-200 rpm

PF 2 51 305 008

d [mm]	d1 [mm]	Code	Weight [kg]	Description
160	123	799 198 101	7.200	Core cutter set in transport box
225	172	799 198 102	10.000	Core cutter set in transport box
315	238	799 198 103	13.400	Core cutter set in transport box
500	420	799 198 104	34.000	Core cutter set in transport box



Transport box for core cutter set

- Suitable for core cutter set (799198101 - 104)

d [mm]	Code	Description
160	799 198 121	Transport box 160; 565x170x180mm
225	799 198 122	Transport box 225; 565x220x230mm
315	799 198 123	Transport box 315; 280x280x565mm
500	799 198 124	Transport box 500; 465x465x565mm

PF 2 51 305 008

Accessories for core cutter set

- Suitable for core cutter set (799198101 - 104)

Code	Description
799 198 133	Pilot drill d = 14mm; L = 365 mm
799 198 131	Ejector rod d = 12mm; L = 500 mm
799 198 138	Adaptor 1 1/4" UNC-R- 1/2"
799 198 105	Adaptor drill chuck 13
799 198 106	Adaptor thread
799 198 107	Adaptor SDS-max

PF 2 51 305 008



Drill stand for core cutter set

- Suitable for safe and guided drilling of pressureless PE pipes
- Set includes drill stand, drilling machine, extension arm and standtracks
- Suitable for branch saddle with spigot outlet (193135402 - 748)
- Suitable for core cutter set (799198101 - 104)
- Tension belts for the fixation of the drill stand onto the PE pipe are not included in scope of delivery
- Use of Core cutters 160/225/315 requires additionally adaptor 1 1/4" - 1/2" (799198138)
- In case of using the pilot drill for core cutters 160/225/315 adaptor 1/2"M - 1/2" F (799198106) is required

Code	Description	
799 198 137	Drill stand BS400 with vulcanised-rubber bonded standtracks. Extension arm suitable for branch saddle 4-drift drill machine D38-BB	

PF 2 51 305 008



Pipe gauge

- Pipe gauge enables check of pipe ovality on existing pipelines
- Applicable on any user-defined spot within the pipeline
- Strongly recommended for all installations of brach saddles on pipes d315mm and above (193135402-748)
- Plug gauge (799350659) for exact measuring of out-of roundness deviations is not included in scope of delivery
- Material: aluminium

d [mm]	Code	Weight [kg]	
315	799 350 660	0.271	
355	799 350 661	0.255	
400	799 350 662	0.257	
450	799 350 663	0.245	
500	799 350 664	0.334	
560	799 350 665	0.324	
630	799 350 666	0.319	
710	799 350 667	0.310	
800	799 350 668	0.311	
900	799 350 669	0.425	
1000	799 350 670	0.420	
1200	799 350 671	0.413	
1400	799 350 672	0.410	
1600	799 350 673	0.407	
2000	799 350 674	0.403	

PF 2 51 305 008



Pipe gauge set

- Pipe gauge set enables check of pipe ovality on existing pipelines
- Applicable on any user-defined spot within the pipeline
- Strongly recommended for all installations of brach saddles on pipes d315mm and above (193135402-748)
- Scope of delivery: Pipe gauges of listed dimension range; plug gauge (799350659) for exact measuring of out-of roundness deviations
- Each with 1 pipe gauge per main dimension
- Material: aluminium

d [mm]	d1 [mm]	Code	Weight [kg]	Description	
315	450	799 350 681	0.800	Pipe gauge set 1; 4 pipe gauges, 1 plug gauge	
500	630	799 350 682	1.070	Pipe gauge set 2; 3 pipe gauges, 1 plug gauge	
710	1000	799 350 683	1.610	Pipe gauge set 3; 4 pipe gauges, 1 plug gauge	
1200	2000	799 350 684	1.810	Pipe gauge set 4; 4 pipe gauges, 1 plug gauge	
315	2000	799 350 685	12.200	Pipe gauge set complete; 15 pipe gauges, 1 plug gauge, 1 transport box	

PF 2 51 305 008



Single parts for pipe gauge

- Suitable for pipe gauge (799350660 - 685)

d [mm]	d1 [mm]	Code	Description	
315	2000	799 350 659	For exact measuring of out-of roundness deviations	
		799 350 686	Empty transport box for all pipe gauge set (1+2+3+4)	

PF 2 51 305 008

Tapping tools

Assembly and tapping key for saddles



PF 2 51 305 009

- Combination tool for tapping and tightening of fixation screws.

Type	Code	Weight [kg]	Description	
8/10/17	799 198 047	0.798	For all saddles	

Tapping key for saddles



- With adjustable tapping depth.

Type	Code	PF	Weight [kg]	
WS - 10	799 198 080	2 51 305 009	0.114	
WS - 17	799 198 079	2 51 305 009	0.556	
WS - 12.7	799 198 091	2 51 305 999	0.543	

Description

for Monobloc d 40 mm and d 50 mm
for Monobloc d 63 mm, d 90 - 160 mm and all
Duobloc saddles
for socket with cutter



Hexagon key for saddles and branch fittings

- For tightening fixation screws.

PF 2 51 305 009

Type	Code	Weight [kg]	Description	
SW8	799 150 378	0.129	For all saddles and branch fittings	

Tapping adapter for saddles



PF 2 51 305 002

- The Adapter is used for gas-free tapping under pressure. Type S 54 for tapping saddles with rotatable outlet d 20 - 40 mm (Tapping Tee d 32 mm). Type S 67 for tapping saddles with rotatable outlet d 50 - 63 mm (Tapping Tee d 63 mm).

Type	Code	Weight [kg]	Description	
S 54	799 100 061	0.785	for Tapping Tee d 32 mm	
S 67	799 100 062	1.011	for Tapping Tee d 63 mm	



Pressure test cap for tapping saddles

- The cap has a Rp 3/8" connection thread and is made from galvanised steel.
- **Overview of Tapping Adapter types and Pressure Test Cap**
- M For Monobloc d 40 and 50 mm (outlets d 20 - 32 mm)
- S 54 For all saddles with rotatable outlet (outlets d 20 - 40 mm) i.e. Tapping Tee d 20 - 40 mm.
- S 67 For all Saddles with rotatable outlet (outlets d 50 and 63 mm) i.e. Tapping Tee d 63 mm.

Type	Code	Weight [kg]	Description	
M	799 199 282	0.116	for Monobloc d 40 mm and d 50 mm	
S 54	799 199 283	0.260	for Tapping Tee d 20 - 40 mm	
S 67	799 199 286	0.430	for Tapping Tee outlet d 63 mm	
MB	799 199 287	0.037	for Monobloc d63-160 mm	

PF 2 51 305 002



Cutter for PE pipes

- This cutter is suitable for PE pipes and can be used on pipes of up to d 225 mm with a wall thickness of up to 21 mm.

d [mm]	Code	Weight [kg]	Description	
39	799 198 012	0.215	accessories Basic Tool Box	

PF 2 51 305 002



PE repair plug

- PE Repair Plugs are suitable for use with ELGEF® 24 V PE Reinforcement Saddles 53 127 000.

d [mm]	Code	SP	Weight [kg]	
30	799 199 088	10	0.012	
39	799 199 089	10	0.019	

PF 2 51 305 002



Hexagon key for PVC saddles

- The Hexagon Key is suitable for tapping water and gas mains under pressure.
- Scope of delivery: 1 hexagon key, protective cover, without rotating pin.

d-d [mm]	Code	SP	Weight [kg]	s [mm]	G [inch]	
16 - 25	799 150 007	1	0.342	19	30	
32 - 40	799 150 008	40	0.496	27	38	
50 - 63	799 150 009	24	0.690	27	47	

PF 2 51 305 002

Squeeze off and rerounding tools

Rerounding tool



- Enables mechanical re-rounding of out-of-roundness PE pipes for fusion preparation
- Recommended for installation of electrofusion couplers and electrofusion saddles
- We generally recommend the use of 2 re-rounding tools (1 x left and 1 x right of the installed fitting)
- Facilitates the installation and improves connection quality
- Pipe ovality before re-rounding max. 6% at +20°C (3% at ambient temperature of 0°C)
- Required ringspanner is not included in scope of delivery

¹ Material: Galvanized steel, Scope of delivery: 2 x Crossbar, 2 x Spindle, 2 x Nut AF 30, 2 x Spindle protection, Transport box

² Material: Aluminium, Scope of delivery: 2 x Crossbar, 2 x Spindle, 2 x Nut AF 55, 2 x Spindle protection

	d [mm]	d1 [mm]	Code	Weight [kg]	L [mm]	B [mm]	H [mm]	
1	280	450	799 350 688	25.000	650	290	260	
1	450	630	799 350 689	38.000	830	290	260	
1	630	900	799 350 690	49.000	1100	290	260	
2	900	1400	799 350 695	192.300	2000	650	600	
2	1400	2000	799 350 696	254.200	2650	650	600	

PF 2 51 305 005

Rerounding tool



- Re-rounding tools are used to re-round oval pipes during fusion as well as during the cooling time.

d [mm]	Code	Weight [kg]	Description	
25	799 199 127	0.577	Type nut cracker	
32	799 199 128	0.500	Type nut cracker	
40	799 199 129	1.500	Type nut cracker	
50	799 199 130	1.616	Type nut cracker	
63	799 199 131	0.742	Type hinged collar	
75	799 199 132	0.791	Type hinged collar	
90	799 199 133	1.690	Type hinged collar	
110	799 199 134	1.537	Type hinged collar	
125	799 199 135	1.917	Type hinged collar	
160	799 199 137	2.318	Type hinged collar	
180	799 199 138	2.493	Type hinged collar	
200	799 199 139	2.500	Type split collar	
225	799 199 140	3.361	Type split collar	
250	799 199 141	1.872	Type split collar	

PF 2 51 305 005

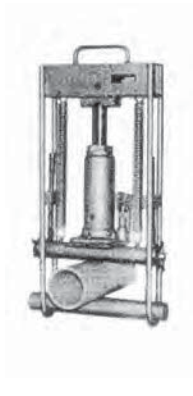
Squeeze off tool type S1



- This mechanical device is used to squeeze-off PE pipes during repair and extension work. In order not to over-stress the pipe, the tool is equipped with adjustable end stops for SDR 11 (ISO S5) pipes. Due to different wall thickness` of the pipes, the squeezing degree may differ up to 0,8.

d-d [mm]	Code	Weight [kg]	Description	
20 - 63	799 350 107	4.901	S1 for PE pipes SDR 11	

PF 2 51 305 005



PF 2 51 305 005

Squeeze off tool type S2

- This mechanical device is used to squeeze off PE pipes during repair and extension work. In order not to over-stress the pipe, the tool is equipped with adjustable end stops for SDR 11 (ISO S5) and SDR 17 (ISO S8) pipes.

d-d [mm]	Code	Weight [kg]	Description	
63 - 180	799 350 108	36.500	S2 for PE pipes SDR 11 and SDR 17	



PF 2 51 305 005

Squeeze off tool A25

- This mechanical device is used to squeeze off PE pipes during repair and extension work. In order not to over-stress the pipe, the tool is equipped with adjustable end stops for SDR 11 (ISO S5) and SDR 17 (ISO S8) pipes.

d-d [mm]	Code	Weight [kg]	Description	
160 - 250	799 350 270	60.000	A25 for PE pipes SDR 11 and SDR 17	

Accessories for job sites

KS Tangit cleaner



PF 2 28 473 002

- Special cleaner for plastic fusion connections in the material of PP, PE, PVDF and PB.

DVGW approved DW 5290 BR 0464

Code	SP	Weight [kg]	
799 298 023	8	0.872	

KS Tangit cleaning tissues



PF 2 28 473 002

Code	Weight [kg]	
799 298 024	0.333	



PF 2 51 305 001

Marker

Type	Code	Weight [kg]	
silver	799 350 364	0.010	



PF 3 25 117 328

Roller support 315

- For pipes up to d 315 mm, with base plate, galvanised
- The piping can be pulled with little effort
- Protects pipes from damage
- Reduces resistance during fusion
- Maximum load 300 kg

d-d [mm]	Code	Weight [kg]	
20 - 315	790 109 110	4.500	



PF 3 25 117 328

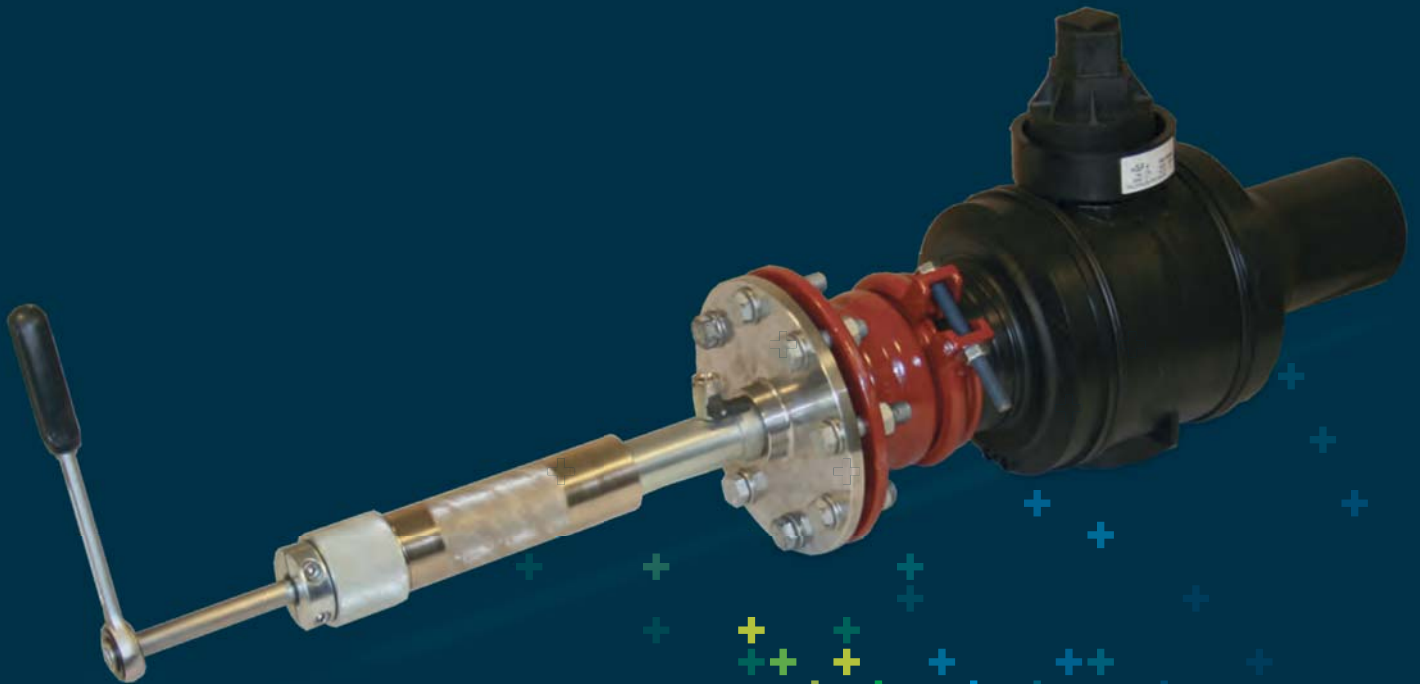
Roller support 630

- Up to d 630 mm, with base plate, galvanised
- **adjustable height** (60 mm)
- The piping can be pulled with little effort
- Protects pipes from damage
- Reduces resistance during fusion
- Maximum load 1000 kg

d-d [mm]	Code	Weight [kg]	
110 - 630	790 109 109	3.943	

Machines and Tools

Drilling Device W 410



W410 drilling device (3/4" - 8")

Drilling device W410, accessories need to be added



PF 1 54 326 005

Description	Code	Weight [kg]	
basic device including ratchet	709 700 100	7.800	



Drill shafts

Model:

- Drill shafts to be selected depending on build up length of your configuration

Description	Code	Weight [kg]	
drill shaft 620 mm	709 700 010	1.200	
drill shaft 775 mm	709 700 021	1.500	
drill shaft 920 mm	709 700 022	1.780	
drill shaft 1070 mm	709 700 023	2.070	

PF 1 54 326 005



Mandrel combined with pilot drill

Model:

- mandrel including special pilot drill 6mm with dual retention wires

Code	Weight [kg]	
709 701 260	0.085	
709 701 261	0.206	

PF 1 54 326 005



Flange adaptors

Model:

- Suitable for flange to flange connections
- Not included flange bolts / gasket
- Flange adaptor for W410
- Suitable for MULTI/JOINT® flange adaptor / connection to PE spigot

Description	Code	Weight [kg]	
flange adaptor DN50	709 702 045	1.850	
flange adaptor DN65	709 702 046	2.400	
flange adaptor DN80	709 702 047	3.090	
flange adaptor DN100	709 702 048	3.840	
flange adaptor DN125	709 702 049	4.870	
flange adaptor DN150	709 702 050	6.530	
flange adaptor DN200	709 702 051	8.800	

PF 1 54 326 005



Pilot drill

Model:

- pilot drill 6 mm with dual retention wires

Code	Weight [kg]	
709 800 006	0.042	

PF 1 54 326 005



Cup drill PE chipless Ø45, Ø60, Ø63, Ø80 and Ø84 mm

Model:

- Maximum PE pipe d630 SDR11
- Suitable for under pressure drilling
- Push rod for coupon release out of the cup drill
- For demanding drillings on PE

Description	Code	Weight [kg]	
PE cup drill chipless 45 mm x 60 mm	709 810 410	0.510	
PE cup drill chipless 60 mm x 60 mm	709 810 412	0.580	
PE cup drill chipless 63 mm x 60 mm	709 810 414	0.590	
PE cup drill chipless 80 mm x 60 mm	709 810 415	0.880	
PE cup drill chipless 84 mm x 60 mm	709 810 416	0.910	
PE cup drill chipless 45 mm x 120 mm	709 810 420	0.800	
PE cup drill chipless 60 mm x 120 mm	709 810 422	0.890	
PE cup drill chipless 63 mm x 120 mm	709 810 424	0.890	
PE cup drill chipless 80 mm x 120 mm	709 810 425	1.340	
PE cup drill chipless 84 mm x 120 mm	709 810 426	1.370	
PE cup drill push rod	709 700 024	0.400	

PF 1 54 326 005



Heavy duty transport and storage box

Model:

- Including: hex key 3 mm, hex key 6 mm and screwdriver
- Outside dimension transport / warehouse box: 120 x 40 x 40 cm

Code	Weight [kg]	Description	
709 706 414	15.000	Heavy duty transport / storage box for W410 drilling device	

PF 1 54 326 005

Butt Fusion Machines

[illegible]

Butt fusion machines 160 - 315 mm

TM 160 - 250 - 315 ECO



- Flexible and user-friendly heating element Butt Fusion machine for fusion jointing PE, PP, PB and PVDF pipes and fittings on building sites and in trenches
- Scope of delivery includes: lightweight ECO hydraulic unit, flexible base machine, powerful planer, high performance heating element with electronic temperature control box, storage case for the planer and heater
- Including transport packaging (carton pallet), without accessories and without reduction inserts
- 115 V on request!

Type	d-d [mm]	Performance	Code	PF	Weight [kg]	
TM 160 ECO	40 - 160	230V/1900W	790 150 010	3 10 597 001	64.000	
TM 250 ECO	75 - 250	230V/3270W	790 151 010	3 10 597 011	144.000	
TM 315 ECO	90 - 315	230V/3870W	790 152 010	3 10 597 021	113.000	



TM 160 - 250 - 315 TOP

- High quality, flexible and user-friendly heating element Butt Fusion machine for fusion jointing PE, PP, PB and PVDF pipes and fittings on building sites and in trenches
- Scope of delivery includes: innovative TOP hydraulic unit, flexible base machine, powerful planer, high performance heating element, storage case for the planer and heater
- Including transport packaging (wooden crate), without accessories and without reduction inserts

Type	d-d [mm]	Performance	Code	PF	Weight [kg]	
TM 160 TOP	40 - 160	230V/1900W	790 150 011	3 10 597 001	76.000	
TM 250 TOP	75 - 250	230V/3270W	790 151 011	3 10 597 011	114.000	
TM 315 TOP	90 - 315	230V/3870W	790 152 026	3 10 597 021	126.000	



TM 160 - 250 - 315 WR

- High quality, flexible and user-friendly heating element Butt Fusion machine for fusion jointing PE, PP, PB and PVDF pipes and fittings on building sites and in trenches
- Scope of delivery includes: innovative TOP hydraulic unit, flexible base machine, powerful planer, high performance heating element, storage case for the planer and heater
- Welding Recorder WR 200 configured to the machine and calibrated to the TOP hydraulic unit
- The WR 200 assists the welder to ensure the quality of the butt-fusion jointing according to country specific standards. The user is guided through all preparation and fusion steps. The complete fusion sequence is supervised and recorded for later print out or transfer to a data base. The recorder is equipped with on-board printer.
- Including transport packaging (wooden crate), without accessories and without reduction inserts

Type	d-d [mm]	Performance	Code	PF	Weight [kg]	
TM 160 WR	40 - 160	230V/1910W	790 150 015	3 10 597 001	136.000	
TM 160 WR CYRILLIC	40 - 160	230V/1910W	790 150 016	3 10 597 001	136.000	
TM 250 WR	75 - 250	230V/3280W	790 151 015	3 10 597 011	210.000	
TM 250 WR CYRILLIC	75 - 250	230V/3280W	790 151 016	3 10 597 011	210.000	
TM 315 WR	90 - 315	230V/3880W	790 152 025	3 10 597 021	224.000	
TM 315 WR CYRILLIC	90 - 315	230V/3880W	790 152 016	3 10 597 021	224.000	



TM 160 - 315 CNC

- High quality, reliable and user-friendly heating element butt fusion machine for automated fusion jointing of PE and PP pipes and fittings on building sites.
- Designed for applications in gas and water distribution.
- Machine equipped with innovative CNC hydraulic control unit and the machine components of the TM TOP machines: sturdy base machine, powerful planer, high performance heating element, storage case for the planer and heater.
- The distance control (potentiometer) mounted into the base machine grants control and safety throughout the complete welding process.
- Scope of delivery includes transport packaging (wooden crate), not the reduction inserts and other accessories !



CNC Control Unit

- Operator guidance from preparation to the end of the jointing process by use of symbols and graphics.
- Intuitive data input by touch screen operation (welding standard, material, diameter, SDR, traceability data).
- Automatic calculation, regulation and control of the fusion parameters - pressure, time and temperature - according to country specific guidelines.
- 10 freely programmable welding cycles available (e.g. for non standard dimensions (Relining), special materials etc.).
- Various configuration possibilities, such as cooling time reduction according to the measured ambient temperature (CTC) and automatic bead build-up phase.
- Selection of language.
- Welding report storage on removable standard USB memory key (memory key supplied with the machine).
- Operator ID (ISO 12176-3), job number and pipe codes (ISO 12176-4) could be added to each welding record by the use of the **optional** barcode scanner (790152052)
- Data transfer to PC (SUVI WIN-WELD software supplied with the machine) via USB interface.
- Shock absorbing plastic housing in attractive design.
- Integrated power outlets for planer and heating element.
- Preinstalled socket for connection of the barcode scanner (Accessory).
- Oil level control and refilling without disassembling the unit.
- Two handles to carry the hydraulic unit.

Type	d-d [mm]	Performance	Code	PF	Weight [kg]	
TM 160 CNC	40 - 160	230V/2000W	790 150 012	3 10 597 001	125.000	
TM 250 CNC	75 - 250	230V/3150W	790 151 012	3 10 597 011	195.000	
TM 315 CNC	90 - 315	230V/3750W	790 152 012	3 10 597 021	215.000	



TM 160 - 250 - 315 Barcode Scanner with pouch

- The pouch could be easily fixed to the handle of the hydraulic unit
- Input of additional information like operator identification badge or traceability codes of the pipes and fittings

Type	Code	Weight [kg]	
TM 160 - 250 - 315	790 152 052	0.370	

PF 3 10 597 022



TM 250 - 315 CNC with automatic heating element

- High quality, reliable and user-friendly heating element butt fusion machine for automated fusion jointing of PE and PP pipes and fittings on building sites.
- Designed for applications in gas and water distribution.
- Machine equipped with innovative CNC hydraulic control unit, sturdy base machine, powerful planer, high performance heating element, storage case for the planer and heater.
- The heating element is ejected automatically from the working position during change-over phase.
- Quick change of the heating element position from the central to the outer welding position when welding e.g. a T-Piece to a pipe.
- The distance control (potentiometer) mounted into the base machine grants control and safety throughout the complete welding process.
- Scope of delivery includes transport packaging (wooden crate), not the reduction inserts and other accessories!

CNC Control Unit

- Operator guidance from preparation to the end of the jointing process by use of symbols and graphics.
- Intuitive data input by touch screen operation (welding standard, material, diameter, SDR, traceability data).
- Automatic calculation, regulation and control of the fusion parameters - pressure, time and temperature - according to country specific guidelines.
- 10 freely programmable welding cycles available (e.g. for non standard dimensions (Relining), special materials etc.).
- Various configuration possibilities such as cooling time reduction according to the measured ambient temperature (CTC) and automatic bead build-up phase.
- Selection of language.
- Welding report storage on removable standard USB memory key (memory key supplied with the machine).
- Operator ID (ISO 12176-3), job number and pipe codes (ISO 12176-4) could be added to each welding record by the use of the **optional** barcode scanner (790152052)
- Data transfer to PC (SUVI WIN-WELD software supplied with the machine) via USB interface.
- Shock-absorbing plastic housing in attractive design.
- Integrated power outlets for planer and heating element.
- Preinstalled socket for connection of the barcode scanner (Accessory).
- Oil level control and refilling without disassembling the unit.
- Two handles to carry the hydraulic unit.

Type	d-d [mm]	Performance	Code	PF	Weight [kg]	
TM 250 CNC	75 - 250	230V/3150W	790 151 071	3 10 597 011	143.000	
TM 315 CNC	90 - 315	230V/3750W	790 152 071	3 10 597 021	160.000	

TM 160 - 250 - 315 Accessories

TM 160 Reduction clamping inserts



- d 40 - 140 mm
- Each code number represents 1 piece of reduction clamping insert. Per machine and dimension maximum 8 narrow or wide reduction clamping inserts are needed.
- We recommend 4 wide and 4 narrow half shells.
- Reductions in inch sizes or special diameters upon request

d [mm]	narrow Code	Weight [kg]	wide Code	Weight [kg]	
40	790 114 027	0.318	790 114 023	0.280	
50	790 114 016	0.323	790 114 009	0.326	
63	790 114 017	0.281	790 114 010	0.293	
75	790 114 018	0.276	790 114 011	0.290	
90	790 114 019	0.256	790 114 012	0.277	
110	790 114 020	0.227	790 114 013	0.260	
125	790 114 021	0.192	790 114 014	0.265	
140	790 114 022	0.134	790 114 015	0.178	

PF 3 25 117 316



TM 250 Reduction clamping inserts

- d 75 - 225 mm
- Each code number represents 1 piece of reduction clamping insert. Per machine and dimension maximum 8 narrow or wide reduction clamping inserts are needed.
- We recommend 4 wide and 4 narrow half shells.
- Reductions in inch sizes or special diameters upon request

d [mm]	narrow Code	Weight [kg]	wide Code	Weight [kg]	
75	790 115 029	0.768	790 115 028	0.902	
90	790 115 016	0.719	790 115 008	0.940	
110	790 115 017	0.734	790 115 009	0.841	
125	790 115 018	0.661	790 115 010	0.829	
140	790 115 019	0.762	790 115 011	0.647	
160	790 115 020	0.574	790 115 012	0.727	
180	790 115 021	0.561	790 115 013	0.676	
200	790 115 022	0.479	790 115 014	0.733	
225	790 115 023	0.385	790 115 015	0.477	

PF 3 25 117 305



TM 315 Reduction clamping inserts

- d 90 - 280 mm
- Each code number represents 1 piece of reduction clamping insert. Per machine and dimension maximum 8 narrow or wide reduction clamping inserts are needed.
- We recommend 4 wide and 4 narrow half shells.
- Reductions in inch sizes or special diameters upon request

d [mm]	narrow Code	Weight [kg]	wide Code	Weight [kg]	
90	790 112 098	1.265	790 112 088	1.000	
110	790 112 099	1.220	790 112 089	0.945	
125	790 112 100	1.215	790 112 090	0.957	
140	790 112 101	1.139	790 112 091	0.950	
160	790 112 102	1.080	790 112 092	0.980	
180	790 112 103	1.006	790 112 093	0.931	
200	790 112 104	0.945	790 112 094	0.880	
225	790 112 105	0.833	790 112 095	0.940	
250	790 112 106	0.712	790 112 096	0.754	
280	790 112 107	0.562	790 112 097	0.750	

PF 3 25 117 307



TM 160 - 250 - 315 Reduction clamping inserts-set

- 4 wide and 4 narrow clamping inserts of each dimension
- Reductions in inch sizes or special diameters upon request

d-d [mm]	Code	PF	Weight [kg]	
40 - 140	790 114 156	3 25 117 316	17.000	
75 - 225	790 115 156	3 25 117 305	63.000	
90 - 280	790 112 156	3 25 117 307	78.000	



TM 160 - 250 - 315 Chamfered upper clamp

- Necessary for welding short-leg bends having diameters equal of the machine dimension: e.g. bend Ø250 mm with a TM 250
- Left: bend is clamped left from the heating element position
- Right: bend is clamped right from the heating element position

Type	Left Code	PF	Right Code	PF	Weight [kg]	
TM 160	790 150 205	3 10 597 002	790 150 206	3 10 597 002	0.800	
TM 250	790 151 205	3 10 597 012	790 151 206	3 10 597 012	1.822	
TM 315	790 152 205	3 10 597 022	790 152 206	3 10 597 022	2.681	



TM 160 - 250 - 315 Flange adapter clamping units

- For correct clamping and fusion jointing of short-ended stub ends

d-d [mm]	Code	PF	Weight [kg]	
40 - 160	790 319 007	3 10 571 500	5.800	
75 - 250	790 115 044	3 25 117 305	5.594	
90 - 315	790 112 073	3 25 117 307	11.000	



TM 160 - 250 - 315 Pipe lifter

- Convenient movement of the welded pipes through the base machine
- Lifting the pipes out of the clamps or inserts, to let the bead pass without blocking
- Supporting the welded pipes on height adjustable rollers
- The pipe lifter could be easily assembled to the base machine
- The delivery contains one left and one right pipe lifter and one lever

Type	Code	PF	Weight [kg]	
TM 160	790 150 050	3 10 597 002	9.000	
TM 250	790 151 050	3 10 597 012	11.000	
TM 315	790 152 050	3 10 597 022	12.500	



TM 250 - 315 Pressure shut off valve

- Time saving in the butt fusion process, by working with 2 base machines
- Enabling to disconnect the base machine under pressure from the hydraulic unit during the cooling time
- Close the pressure valve, release pressure at the hydraulic unit, disconnect the hoses from the base machine. Keep the joint cooling down
- Use the cooling time for pipe preparation and welding of the next join by connecting the hydraulic unit hoses to a second base machine

Type	Code	Weight [kg]	
TM 250 - 315	790 151 002	1.500	

PF 3 10 597 012

Butt fusion machines 400 mm

GF 400, 400 V



- High quality, long-lasting heating element butt fusion machine for fusion jointing PP and PE pipes and fittings. For complete pressure range up to SDR 11.
- Assembled with control box to supply all components with power, only 1 power connection required !
- Including transport packaging (wooden crate), without accessories and without reduction inserts

PF 3 25 870 100

d-d [mm]	Performance	Code	Weight [kg]	
125 - 400	400 V/5700 W	790 127 010	243.000	

GF 400, 230 V



- High quality, long-lasting heating element butt fusion machine for fusion jointing PP and PE pipes and fittings. For complete pressure range up to SDR 11.
- Machine complete with remote control
- Including transport packaging (wooden crate), without accessories and without reduction inserts

PF 3 25 870 100

d-d [mm]	Performance	Code	Weight [kg]	
125 - 400	230 V/5700 W	790 127 001	355.000	

GF 400 CNC



- High quality, reliable and user-friendly heating element butt fusion machine for automated fusion jointing of PE and PP pipes and fittings on building sites.
- Designed for applications in gas and water distribution.
- Machine equipped with innovative CNC hydraulic control unit and the machine components of the GF 400 machine: sturdy base machine, powerful planer, high performance heating element, storage case for the planer and heater.
- The distance control (potentiometer) mounted into the base machine grants control and safety throughout the complete welding process.
- Scope of delivery includes transport packaging (wooden crate), not the reduction inserts and other accessories!

CNC Control Unit

- Operator guidance from preparation to the end of the jointing process by use of symbols and graphics.
- Intuitive data input by touch screen operation (welding standard, material, diameter, SDR, traceability data).
- Automatic calculation, regulation and control of the fusion parameters - pressure, time and temperature - according to country specific guidelines.
- 10 freely programmable welding cycles available (e.g. for non standard dimensions, special materials etc.).
- Selection of language.
- Welding report storage on removable standard USB memory key (memory key supplied with the machine) and for safety reasons additionally in the CNC unit.
- Data transfer to PC (SUVI WIN-WELD software supplied with the machine) via USB interface.
- Robust aluminium case with shock-absorbing plastic cover in attractive design.
- Integrated power outlets for planer and heating element.
- Easy oil-level-control and refilling without opening the unit.

PF 3 10 597 031

d-d [mm]	Performance	Code	Weight [kg]	
125 - 400	400 V/5700 W	790 153 001	205.000	



Reduction clamping inserts

- Each code number represents 1 piece of reduction clamping insert. Per machine and dimension maximum 8 narrow or wide reduction clamping inserts are needed.
- We recommend 4 wide and 4 narrow half shells.
- Reductions in inch sizes or special diameters upon request

In order to mount the inserts d 125/d 140/d 160/d 180/d 200/d 225/d 250/d 280, the reduction clamping insert d 315 mm, code 790 127 101, must also be used

d [mm]	narrow Code	PF	Weight [kg]	wide Code	PF	Weight [kg]	
125	790 112 100	3 25 117 307	1.215	790 112 090	3 25 117 307	0.957	
140	790 112 101	3 25 117 307	1.139	790 112 091	3 25 117 307	0.950	
160	790 112 102	3 25 117 307	1.080	790 112 092	3 25 117 307	0.980	
180	790 112 103	3 25 117 307	1.006	790 112 093	3 25 117 307	0.931	
200	790 112 104	3 25 117 307	0.945	790 112 094	3 25 117 307	0.880	
225	790 112 105	3 25 117 307	0.833	790 112 095	3 25 117 307	0.940	
250	790 112 106	3 25 117 307	0.712	790 112 096	3 25 117 307	0.754	
280	790 112 107	3 25 117 307	0.562	790 112 097	3 25 117 307	0.750	
315	790 127 111	3 25 117 332	1.830	790 127 101	3 25 117 332	1.830	
355	790 127 112	3 25 117 332	1.830	790 127 102	3 25 117 332	1.830	



Reduction clamping inserts set

- 4 wide and 4 narrow clamping inserts of each dimension
- 8 wide clamping inserts d 315 mm
- Reductions in inch sizes or special diameters upon request

d-d [mm]	Code	Weight [kg]	
125 - 355	790 127 156	95.000	

PF 3 25 117 332

Chamfered upper clamp

- Necessary for welding short-leg bends having diameters equal of the maximum machine dimension
- Right: bend is clamped right from the heating element position

Description	Code	Weight [kg]	
Right	790 127 113	7.000	



PF 3 25 117 332



Flange adapter clamping unit

- For correct clamping and fusion jointing of short-ended stub ends

d [mm]	Code	Weight [kg]	
400	790 127 045	24.600	

PF 3 25 117 332



PF 3 25 117 332

Hoist unit

- The crane is easily and fast installed and mounted to the base machine
- Rotating crane arm
- Weight compensator **not** included

Code	Weight [kg]	
790 127 028	85.000	

Butt fusion machines 500 mm

GF 500



- Including transport packaging (wooden crate), without accessories and without reduction inserts
- High quality, long-lasting heating element butt fusion machine for fusion jointing PP and PE pipes and fittings.

PF 3 25 126 200

d-d [mm]	Performance	Code	Weight [kg]	
200 - 500	400 V/6250 W	790 116 040	383.000	

GF 500 CNC



- High quality, reliable and user-friendly heating element butt fusion machine for automated fusion jointing of PE and PP pipes and fittings on building sites.
- Designed for applications in gas and water distribution.
- Machine equipped with innovative CNC hydraulic control unit and the machine components of the GF 500 machine: sturdy base machine, powerful planer, high performance heating element, storage case for the planer and heater.
- The distance control (potentiometer) mounted into the base machine grants control and safety throughout the complete welding process.
- Scope of delivery includes transport packaging (wooden crate), not the reduction inserts and other accessories!

CNC Control Unit



- Operator guidance from preparation to the end of the jointing process by use of symbols and graphics.
- Intuitive data input by touch screen operation (welding standard, material, diameter, SDR, traceability data).
- Automatic calculation, regulation and control of the fusion parameters - pressure, time and temperature - according to country specific guidelines.
- 10 freely programmable welding cycles available (e.g. for non standard dimensions, special materials etc.).
- Selection of language.
- Welding report storage on removable standard USB memory key (memory key supplied with the machine) and for safety reasons additionally in the CNC unit.
- Data transfer to PC (SUVI WIN-WELD software supplied with the machine) via USB interface.
- Robust aluminium case with shock-absorbing plastic cover in attractive design.
- Integrated power outlets for planer and heating element.
- Easy oil-level-control and refilling without opening the unit.

PF 3 10 597 041

d-d [mm]	Performance	Code	Weight [kg]	
200 - 500	400 V/6300 W	790 154 001	364.000	



KL 500 TOP1

- Compact and robust heating element-butt fusion machine for fusion jointing PP and PE pipes and fittings. For complete pressure range up to PN 16.
- Control box containing electronic temperature control and power distribution for heating element and planer
- Machine provided with Hydromat hydraulic unit
- Including transport packaging (wooden crate), without accessories and without reduction inserts

PF 3 10 574 100

d-d [mm]	Performance	Code	Weight [kg]	
200 - 500	400 V/6250 W	790 340 000	470.561	



KL 500 TOP2

- Compact and robust heating element-butt fusion machine for fusion jointing PP and PE pipes and fittings. For complete pressure range up to PN 16.
- Machine provided with Hydromat hydraulic unit and remote control
- Including transport packaging (wooden crate), without accessories and without reduction inserts

PF 3 10 574 100

d-d [mm]	Performance	Code	Weight [kg]	
200 - 500	400 V/6250 W	790 140 010	312.000	



Reduction clamping inserts

- Each code number represents 1 piece of reduction clamping insert. Per machine and dimension maximum 8 narrow or wide reduction clamping inserts are needed.
- We recommend 4 wide and 4 narrow half shells.
- Reductions in inch sizes or special diameters upon request

PF 3 25 117 306

d [mm]	narrow Code	Weight [kg]	wide Code	Weight [kg]	
200	790 116 016	3.714	790 116 008	3.650	
225	790 116 017	3.443	790 116 009	3.640	
250	790 116 018	3.936	790 116 010	3.569	
280	790 116 019	3.891	790 116 011	3.612	
315	790 116 020	3.622	790 116 012	3.698	
355	790 116 021	3.267	790 116 013	3.727	
400	790 116 022	2.508	790 116 014	3.836	
450	790 116 023	2.273	790 116 015	3.276	



Reduction clamping inserts set

- 4 wide and 4 narrow clamping inserts of each dimension

PF 3 25 117 306

d-d [mm]	Code	Weight [kg]	
250 - 450	790 116 156	165.000	
200 - 450	790 116 157	241.000	

Chamfered upper clamp



PF 3 25 117 306

- Necessary for welding short-leg bends having diameters equal of the maximum machine dimension
- Left: bend is clamped left from the heating element position
- Right: bend is clamped right from the heating element position

description	Code	Weight [kg]	
Right	790 116 268	7.330	
Left	790 116 269	7.330	



PF 3 25 117 306

Flange adapter clamping unit

- For correct clamping and fusion jointing of short-ended stub ends

d [mm]	Code	Weight [kg]	
500	790 116 045	22.000	



PF 3 25 117 332

Hoist unit

- The crane is easily and fast installed and mounted to the base machine
- Rotating crane arm
- Weight compensator included

Code	Weight [kg]	
790 116 066	66.579	

Butt fusion machines 630 mm

GF 630



- High quality, long-lasting heating element butt fusion machine for fusion jointing PP and PE pipes and fittings.
- Size range d 315-630 mm
- PE up to d 630 mm SDR 9, PP up to d 630 mm SDR 17.
- Including transport packaging (wooden crate), without accessories and without reduction inserts

PF 3 25 136 100

d-d [mm]	Performance	Code	Weight [kg]	
315 - 630	400 V/11000 W	790 117 032	617.000	

GF 630 CNC



- High quality, reliable and user-friendly heating element butt fusion machine for automated fusion jointing of PE and PP pipes and fittings on building sites.
- Designed for applications in gas and water distribution.
- Machine equipped with innovative CNC hydraulic control unit and the machine components of the GF 630 machine: sturdy base machine, powerful planer, high performance heating element, storage case for the planer and heater.
- The distance control (potentiometer) mounted into the base machine grants control and safety throughout the complete welding process.
- Scope of delivery includes transport packaging (wooden crate), not the reduction inserts and other accessories!

CNC Control Unit

- Operator guidance from preparation to the end of the jointing process by use of symbols and graphics.
- Intuitive data input by touch screen operation (welding standard, material, diameter, SDR, traceability data).
- Automatic calculation, regulation and control of the fusion parameters - pressure, time and temperature - according to country specific guidelines.
- 10 freely programmable welding cycles available (e.g. for non standard dimensions, special materials etc.).
- Selection of language.
- Welding report storage on removable standard USB memory key (memory key supplied with the machine) and for safety reasons additionally in the CNC unit.
- Data transfer to PC (SUVI WIN-WELD software supplied with the machine) via USB interface.
- Robust aluminium case with shock-absorbing plastic cover in attractive design.
- Integrated power outlets for planer and heating element.
- Easy oil-level-control and refilling without opening the unit.

PF 3 10 597 051

d-d [mm]	Performance	Code	Weight [kg]	
315 - 630	400 V/6300 W	790 155 001	615.000	



KL 630 TOP1

- Compact and robust heating element-butt fusion machine for fusion jointing PP and PE pipes and fittings. For complete pressure range up to PN 16.
- Control box containing electronic temperature control and power distribution for heating element and planer
- Machine provided with Hydromat hydraulic unit
- Including transport packaging (wooden crate), without accessories and without reduction inserts

PF 3 10 575 100

d-d [mm]	Performance	Code	Weight [kg]	
315 - 630	400 V/11000 W	790 345 000	478.000	



KL 630 TOP2

- Compact and robust heating element-butt fusion machine for fusion jointing PP and PE pipes and fittings. For complete pressure range up to PN 16.
- Machine provided with Hydromat hydraulic unit and remote control
- Including transport packaging (wooden crate), without accessories and without reduction inserts

PF 3 10 575 100

d-d [mm]	Performance	Code	Weight [kg]	
315 - 630	400 V/11000 W	790 345 012	454.000	

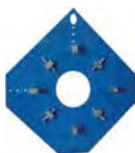


Reduction clamping inserts

- We recommend 4 wide and 4 narrow half shells.
- Each code number represents 1 piece of reduction clamping insert. Per machine and dimension maximum 8 narrow or wide reduction clamping inserts are needed.
- Reductions in inch sizes or special diameters upon request

In order to mount the inserts d 315/d 355/d 400/d 450 to the base clamp d 630, the reduction clamping insert d 500 mm, code 790 117 012, must also be used

d [mm]	narrow Code	PF	Weight [kg]	wide Code	PF	Weight [kg]	
315	790 116 020	3 25 117 306	3.622	790 116 012	3 25 117 306	3.698	
355	790 116 021	3 25 117 306	3.267	790 116 013	3 25 117 306	3.727	
400	790 116 022	3 25 117 306	2.508	790 116 014	3 25 117 306	3.836	
450	790 116 023	3 25 117 306	2.273	790 116 015	3 25 117 306	3.276	
500	790 117 238	3 25 117 319	3.700	790 117 012	3 25 117 319	4.500	
560	790 117 239	3 25 117 319	3.800	790 117 013	3 25 117 319	4.900	



Flange adapter clamping unit

- For correct clamping and fusion jointing of short-ended stub ends

PF 3 25 117 323

Code	Weight [kg]	
790 124 029	153.000	



Reduction clamping inserts set

- 4 wide and 4 narrow clamping inserts d 315, d 355, d 400, d 450
- 8 wide reduction inserts d 500, d 560

PF 3 25 117 319

d-d [mm]	Code	Weight [kg]	
315 - 560	790 117 021	201.000	



PF 3 10 575 900

Chamfered upper clamp

- Necessary for welding short-leg bends having diameters equal of the maximum machine dimension

Code	Weight [kg]	
790 345 233	0.001	



PF 3 25 117 319

Flange adapter clamping unit

- For correct clamping and fusion jointing of short-ended stub ends

d [mm]	Code	Weight [kg]	
630	790 117 029	29.000	



PF 3 25 117 927

Electric hoist unit

- Consisting of frame work, rotating arm and motor
- The column is divided in two parts
- Assembling: mount the lower column to the base machine, insert a bolt into the hinge, raise up the upper part including the rotating arm, fix the hinge with 4 screws
- Motor 400 V / 3 Ph with 2 hoisting speeds
- Maximum lifting weight 250 kg

Code	Weight [kg]	
790 117 102	137.000	



PF 3 25 117 927

Lifting cylinder

- Accessory to crane GF/KL 630
- Raising up the crane structure hydraulically by assembling the cylinder to the column
- Hydraulic unit of the GF/KL 630 connected to the cylinder during installing the crane

Code	Weight [kg]	
790 117 094	0.010	



GF 800

- Robust heating element-butt fusion machine for fusion jointing PP and PE pipes and fittings. Size range d 500-800 mm.
- The powerful hydraulic unit (max. hydraulic pressure 200 bar) allows jointing of big wall thickness pipes by keeping provision for dragging the pipes. Example: PE 100, SDR 11, dn 800 mm requires a fusion pressure of 106 bar according to DVS 2207 – 1 (0,15 MPa)
- For proper handling of the heating element and planer we recommend the assembling of the hoist unit (790123016)
- Including transport packaging (wooden crate), without accessories and without reduction inserts

PF 3 10 576 100

d-d [mm]	Performance	Code	Weight [kg]	
500 - 800	400 V/15000 W	790 123 025	1244.000	



Reduction clamping inserts

- d 500 - 710 mm
 - Each code number represents 1 piece of reduction clamping insert. Per machine and dimension maximum 8 narrow or wide reduction clamping inserts are needed.
 - Reductions in inch sizes or special diameters upon request
- In order to mount the inserts d 500/d 560, the reduction clamping insert d 630, code 790 123 011 must also be used

d [mm]	narrow Code	PF	Weight [kg]	wide Code	PF	Weight [kg]	
500	790 117 238	3 25 117 319	3.700	790 117 012	3 25 117 319	4.500	
560	790 117 239	3 25 117 319	3.800	790 117 013	3 25 117 319	4.900	
630	790 123 219	3 10 576 500	9.000	790 123 011	3 25 117 322	11.000	
710	790 123 220	3 10 576 900	9.000	790 123 012	3 25 117 322	12.500	



Reduction clamping inserts set

- 8 wide clamping inserts dn 500, 560, 630, 710 mm

PF 3 10 576 500

Breit Code	Weight [kg]	
790 350 019	0.001	



Flange adapter clamping unit

- For correct clamping and fusion jointing of short-ended stub ends

PF 3 25 117 322

d-d [mm]	Code	Weight [kg]	
500 - 800	790 123 029	120.000	



Electric hoist unit

- Hoist capacity 500 kg
- Arm length 2m, pivoting, back/forward, max. column height from floor 4.65 m, 2 hoisting speeds (2.5 m/min. and 5.5 m/min.)

PF 3 25 117 322

Code	Weight [kg]	
790 123 016	270.000	



GF 1000

- Robust heating element-butt fusion machine for jointing PP and PE pipes and fittings
- The powerful hydraulic unit (max. hydraulic pressure 200 bar) allows jointing of big wall thickness pipes by keeping provision for dragging the pipes. Example: PE 100 ,SDR 11, dn 1000 mm requires a fusion pressure of 130 bar according to DVS 2207 – 1 (0,15 MPa)
- For proper handling of the heating element and planer we recommend the assembling of the hoist unit (790124016)
- Including transport packaging (wooden crate), without accessories and without reduction inserts

PF 3 10 577 100

d-d [mm]	Performance	Code	Weight [kg]	
630 - 1000	400 V/19500 W	790 124 025	2053.000	



Reduction clamping inserts

- Each code number represents 1 piece of reduction clamping insert. Per machine and dimension maximum 8 narrow or wide reduction clamping inserts are needed.
 - Reductions in inch sizes or special diameters upon request
- In order to mount the inserts d 710, the reduction clamping insert d 800 mm, code 790 124 011, must also be used

d [mm]	narrow Code	PF	Weight [kg]	wide Code	PF	Weight [kg]	
630	790 123 219	3 10 576 500	9.000	790 123 011	3 25 117 322	11.000	
710	790 123 220	3 10 576 900	9.000	790 123 012	3 25 117 322	12.500	
800				790 124 011	3 25 117 323	18.000	
900				790 124 012	3 25 117 323	19.000	



Reduction clamping inserts set

- 8 wide clamping inserts dn 710, 800, 900 mm

Code	Weight [kg]	
790 355 019	0.001	

PF 3 10 577 500



Electric hoist unit

- Hoist capacity 500 kg
- Arm length 2m, pivoting, back/forward, max. column height from floor 4.65 m, 2 hoisting speeds (2.5 m/min. and 5.5 m/min.)

Code	Weight [kg]	
790 124 016	300.000	

PF 3 25 137 100



GF 1200

- Robust heating element-butt fusion machine for jointing PP and PE pipes and fittings
- The powerful hydraulic unit (max. hydraulic pressure 200 bar) allows jointing of big wall thickness pipes by keeping provision for dragging the pipes. Example: PE 100, SDR 17, dn 1200 mm requires a fusion pressure of 125 bar according to DVS 2207 – 1 (0,15 MPa)
- For proper handling of the heating element and planer we recommend the assembling of the hoist unit (790125016)
- Including transport packaging (wooden crate), without accessories and without reduction inserts

PF 3 10 578 100

d-d [mm]	Performance	Code	Weight [kg]	
710 - 1200	400 V/20500 W	790 125 025	2258.000	



Reduction clamping inserts

- Each code number represents 1 piece of reduction clamping insert. Per machine and dimension maximum 8 narrow or wide reduction clamping inserts are needed.
- Reductions in inch sizes or special diameters upon request

In order to mount the inserts d 710, the reduction clamping insert d 800 mm, code 790 124 011, must also be used

In order to mount the inserts d 800/d 900, the reduction clamping insert d 1000, code 790 125 011, must also be used.

d [mm]	narrow Code	Weight [kg]	wide Code	PF	Weight [kg]	
710	790 125 030	9.000	790 125 028		12.500	
800			790 124 011	3 25 117 323	18.000	
900			790 124 012	3 25 117 323	19.000	
1000			790 125 011	3 25 117 324	20.000	

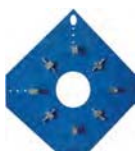


Reduction clamping inserts set

- 8 wide clamping inserts dn 710, 800, 900 mm

Code	Weight [kg]	
790 360 019	0.001	

PF 3 10 578 500



Flange adapter clamping unit

- For correct clamping and fusion jointing of short-ended stub ends

Code	Weight [kg]	
790 125 029	231.000	

PF 3 25 117 324



PF 3 25 117 324

Electric hoist unit

- Hoist capacity 500 kg
- Arm length 2m, pivoting, back/forward, max. column height from floor 4.65 m, 2 hoisting speeds (2.5 m/min. and 5.5 m/min.)

Code	Weight [kg]	
790 125 016	308.000	



GF 1600

- Robust heating element-butt fusion machine for jointing PP and PE pipes and fittings
- For proper handling of the heating element and planer we recommend the assembling of the hoist unit (790146018)
- Including transport packaging (wooden crate), without accessories and without reduction inserts

d-d [mm]	Performance	Code	PF	Weight [kg]	
1000 - 1600	400 V/55000 W	790 146 001	3 25 136 511	6900.000	



PF 3 25 136 513

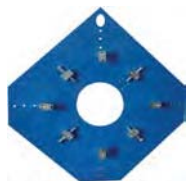
Reduction clamping inserts

- Each code number represents 1 piece of reduction clamping insert. Per machine and dimension maximum 8 narrow or wide reduction clamping inserts are needed.
- Reductions in inch sizes or special diameters upon request

d [mm]	Code	Weight [kg]	
1000	790 146 147	92.667	
1200	790 146 148	78.163	
1400	790 146 149	62.295	

Flange adapter clamping unit

- For correct clamping and fusion jointing of short-ended stub ends



PF 3 25 136 512

Code	Weight [kg]	
790 146 019	333.000	



PF 3 25 136 512

Reduction clamping inserts set

- 8 wide clamping inserts dn 1000, 1200, 1400 mm

Description	Code	Weight [kg]	
d 1000 mm	790 146 031	92.591	
d 1200 mm	790 146 032	78.088	
d 1400 mm	790 146 033	61.645	
d 1000 - 1200 - 1400 mm	790 146 030	1860.000	



PF 3 25 136 512

Electric hoist unit

- Hoist capacity 1000 kg
- Arm length 4 m, pivoting, back/forward, max. column height from floor 6.16 m, 2 hoisting speeds (2.5 m/min and 5.5 m/min)

Code	Weight [kg]	
790 146 018	1270.000	



Trolley for hydraulic unit

- For easier transportation on site, including support for WR 200 welding recorder

Code	Weight [kg]	
790 146 020	25.000	

WR 200

Fusion welding recording device



The WR 200 assists the welder to ensure the quality of the butt-fusion jointing according to country specific standards. The user is guided through all preparation and fusion steps. The selection of the fusion data like the used material, welding standard, diameter and wall thickness (SDR) is supported by a menu. The complete fusion sequence is supervised and recorded for later print out or transfer to a data base. The recorder with its on-board printer is protected by a hard plastic case of IP 65 protection class. The power and connecting cables are stored in a separate box.

The WR 200 can be connected to hydraulically operated butt-fusion machines, even by later retrofitting of machines in service centres .

Performance:

- Intuitive user guidance menu
- Welding standard selection e.g. DVS, UNI, WIS, ISO
- Welding process customisable: 4 user defined cycle available
- Additional input of joint number, user identity, job site, order number and GPS coordinates
- Internal memory capacity of up to 250 protocols
- Selection of operator language
- Battery support for an autonomy of 10 hours (no data loss during power interruption)
- Rental and revision period adjustable (CD content of delivery)
- Easy configuration by the end user to the connected GF/KL/TM machine
- Same electrical connections as SUVI® 50 and WR 100 – interchangeable
- Working range: -10°C to +50°C

Data Management:

- Internal memory of 250 protocols
- Print out of protocols directly from on-board printer
- Transfer of protocols to USB memory stick
- Protocols in CSV, TXT and SUVI® WIN-WELD compatible formats

Type	Performance	Dimensions	Code	Weight [kg]	
WR 200	230 V	350x300x250 mm	790 119 401	5.000	
WR 200 CYRILLIC	230 V	350x300x250 mm	790 119 425	5.500	

PF 3 25 132 100



Machines equipped with WR 200

Type	Performance	Code	PF	Weight [kg]	
TM 160 WR	230V/1910W	790 150 015	3 10 597 001	136.000	
TM 160 WR CYRILLIC	230V/1910W	790 150 016	3 10 597 001	136.000	
TM 250 WR	230V/3280W	790 151 015	3 10 597 011	210.000	
TM 250 WR CYRILLIC	230V/3280W	790 151 016	3 10 597 011	210.000	
TM 315 WR	230V/3880W	790 152 025	3 10 597 021	224.000	
TM 315 WR CYRILLIC	230V/3880W	790 152 016	3 10 597 021	224.000	
GF 400 WR	400V/5710W	790 127 015	3 25 870 600	350.000	
GF 400 WR	230V/5710W	790 127 020	3 25 870 600	350.000	
GF 400 WR CYRILLIC	230V/5710W	790 127 021	3 25 870 600	350.000	
GF 500 WR	400V/6260W	790 116 075	3 25 126 620	475.000	
GF 500 WR CYRILLIC	400V/6260W	790 116 074	3 25 126 620	475.000	
KL 500 TOP 1 WR	400V/6260W	790 340 008	3 10 574 600	475.000	
KL 500 TOP 2 WR	400V/6260W	790 340 035	3 10 574 600	475.000	
KL 500 TOP 2 WR CYRILLIC	400V/6260W	790 340 036	3 10 574 600	475.000	
GF 630 WR	400V/11010W	790 117 075	3 25 136 600	600.000	
GF 630 WR CYRILLIC	400V/11010W	790 117 074	3 25 136 600	600.000	
KL 630 TOP 1 WR	400V/11010W	790 345 008	3 10 575 600	600.000	
KL 630 TOP 1 WR CYRILLIC	400V/11010W	790 345 011	3 10 575 600	600.000	
KL 630 TOP 2 WR	400V/11010W	790 345 036	3 10 575 600	600.000	
GF 800 WR	400V/15010W	790 123 075	3 25 136 600	1550.000	
GF 800 WR CYRILLIC	400V/15010W	790 123 074	3 25 136 620	1550.000	
GF 1000 WR	400V/19510W	790 124 075	3 25 136 600	3000.000	
GF 1000 WR CYRILLIC	400V/19510W	790 124 074	3 25 136 640	3000.000	
GF 1200 WR	400V/20510W	790 125 075	3 25 136 600	3210.000	
GF 1200 WR CYRILLIC	400V/20510W	790 125 074	3 25 136 660	3210.000	
GF 1600 WR	400V/55000W	790 146 002	3 25 136 511	6900.000	
GF 1600 WR CYRILLIC	400V/55000W	790 146 003	3 25 136 511	6900.000	

Machines configured for use with WR 200

Type	Performance	Code	PF	Weight [kg]	
GF 400	400V/5710W	790 127 019	3 25 870 600	355.000	
GF 400	230V/5710W	790 127 018	3 25 870 100	355.000	
GF 500	400V/6260W	790 116 072	3 25 126 620	498.000	
KL 500 TOP 1	400V/6260W	790 340 007	3 10 574 600	470.000	
KL 500 TOP 2	400V/6260W	790 140 021	3 10 574 600	460.000	
GF 630	400V/11010W	790 117 071	3 25 136 600	617.000	
KL 630 TOP 1	400V/11010W	790 345 003	3 10 574 600	627.000	
KL 630 TOP 2	400V/11010W	790 345 013	3 10 574 600	617.000	
GF 800	400V/15010W	790 123 073	3 25 136 620	1545.000	
GF 1000	400V/19510W	790 124 073	3 25 136 640	2528.000	
GF 1200	400V/20510W	790 125 073	3 25 136 660	2932.000	

Work Shop Machines

Working Range

[illegible]



WM 315 fitting clamp

- Machine for jointing segmented fittings like bends for applications with pressure piping systems
- Equipped with narrow clamping units for fittings
- Maximum jointing angle 30°
- Dimensional range d90 - 315 mm
- To produce T and Y fittings in the dimensional range d90 - 250 mm, special accessories are required
- **Machine description**
- Distortion-free, sturdy machine frame
- Electric and hydraulic components separated in the frame
- Control panel assembled with pressure adjustment valve, pressure selection switch (planing or fusion pressure), gauge, joy stick and emergency stop
- The clamping units are mounted on supports, each of which can be adjusted transversely
- Each clamping unit can be turned up to 15°
- Each clamping unit is provided with a complete set of reductions d90 - 280 mm
- Precision heating element with electronic temperature control (3000 W)
- High-quality PTFE coating with long service life
- Heating element pull-off mechanism
- Powerful planer (1200 W) with optimized cutting geometry for even and chatter-free planing
- Load transfer via robust chain drive
- Mechanical stops to provide single sided planing and accurate facing depth
- Planer is secured with a mechanical locking system and a micro switch
- Including transport packaging, without accessories

d-d [mm]	Performance	Code	Weight [kg]	
90 - 315	400 V/4620 W	790 118 014	392.000	

PF 3 25 135 100



WM 315 CNC fitting clamp

- Machine for jointing segmented fittings like bends for applications with pressure piping systems
- Fully automated fusion process by the use of state of the art PLC and touch screen
- Equipped with narrow clamping units for fittings
- Maximum jointing angle 30°
- Dimensional range d90 - 315 mm
- To produce T and Y fittings in the dimensional range d90 - 250 mm, special accessories are required
- **Machine description**
- Highest flexibility in the pipe preparation process
- The heating element is removed automatically during the change-over phase
- Data storage and transfer via USB to the PC
- Data management by SUVI WIN-WELD
- Distortion-free, sturdy machine frame
- Electric and hydraulic components separated in the frame
- The clamping units are mounted on supports, each of which can be adjusted transversely
- Each clamping unit can be turned up to 15°
- Each clamping unit is provided with a complete set of reductions d90 - 280 mm
- Precision heating element with electronic temperature control (3000 W)
- High-quality PTFE coating with long service life
- Powerful planer (1200 W) with optimized cutting geometry for even and chatter-free planing
- Load transfer via robust chain drive
- Mechanical stops to provide single sided planing and accurate facing depth
- Planer is secured with a mechanical locking system and a micro switch
- Including transport packaging, without accessories

d-d [mm]	Performance	Code	Weight [kg]	
90 - 315	400 V/4620 W	790118016	465.000	

PF 3 25 135 100



WM 315 pipe clamp

- Machine for jointing segmented fittings like bends for applications with pressure piping systems
- Equipped with wide clamping units for pipes
- Maximum jointing angle 45°
- Dimensional range d90 - 315 mm
- To produce T and Y fittings in the dimensional range d90 - 250 mm, dedicated accessories are required
- **Machine description**
- Distortion-free, sturdy machine frame
- Electric and hydraulic components separated in the frame
- Control panel assembled with pressure adjustment valve, pressure selection switch (planing or fusion pressure), gauge, joy stick and emergency stop
- The clamping units are mounted on supports, each of which can be adjusted transversely
- Each clamping unit can be turned up to 22.5°
- Each clamping unit is provided with a complete set of reductions d90 - 280 mm
- Precision heating element with electronic temperature control (3000 W)
- High-quality PTFE coating with long service life
- Heating element pull-off mechanism
- Powerful planer (1200 W) with optimized cutting geometry for even and chatter-free planing
- Load transfer via robust chain drive
- Mechanical stops to provide single sided planing and accurate facing depth
- Planer is secured with a mechanical locking system and a micro switch
- Including transport packaging, without accessories

d-d [mm]	Performance	Code	Weight [kg]	
90 - 315	400 V/4620 W	790 118 060	392.000	

PF 3 25 135 100



WM 315 CNC pipe clamp

- Machine for jointing segmented fittings like bends for applications with pressure piping systems
- Fully automated fusion process by the use of state of the art PLC and touch screen
- Equipped with wide clamping units for pipes
- Maximum jointing angle 45°
- Dimensional range d90 - 315 mm
- To produce T and Y fittings in the dimensional range d90 - 250 mm, special accessories are required
- **Machine description**
- Highest flexibility in the pipe preparation process
- The heating element is removed automatically during the change-over phase
- Data storage and transfer via USB to the PC
- Data management by SUVI WIN-WELD
- Distortion-free, sturdy machine frame
- Electric and hydraulic components separated in the frame
- The clamping units are mounted on supports, each of which can be adjusted transversely
- Each clamping unit can be turned up to 22.5°
- Each clamping unit is provided with a complete set of reductions d90 - 280 mm
- Precision heating element with electronic temperature control (3000 W)
- High-quality PTFE coating with long service life
- Powerful planer (1200 W) with optimized cutting geometry for even and chatter-free planing
- Load transfer via robust chain drive
- Mechanical stops to provide single sided planing and accurate facing depth
- Planer is secured with a mechanical locking system and a micro switch
- Including transport packaging, without accessories

PF 3 25 135 100

d-d [mm]	Performance	Code	Weight [kg]	
90 - 315	400 V/4620 W	790 118 009	465.000	

WM 315 accessories

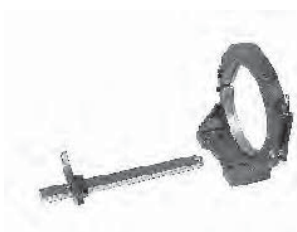


Flange adapter clamping unit

- For centric fusion of flange adapters
- Easy, correct attachment of clamping unit in the basic machine

PF 3 25 117 318

d-d [mm]	Code	Weight [kg]	
90 - 315	790 118 031	16.000	



Base clamping unit for fittings with adapter ring, wide

- For clamping fittings of d315 mm as well as for fastening reduction clamping inserts for fittings d90 to 280 mm. Guide shaft for pipe support und back stop, with pipe support d315 mm
- Each clamping unit can be turned up to 15°
- L = left
- R = right

PF 3 25 117 318

d [mm]	Type	Code	Weight [kg]	
315	L	790 118 011	15.000	
315	R	790 118 012	15.000	



Reduction clamping inserts, narrow

- d 90 - 280 mm
- Each code number defines 1 piece of reduction clamping insert.

d [mm]	Code	Weight [kg]	
90	790 112 098	1.265	
110	790 112 099	1.220	
125	790 112 100	1.215	
140	790 112 101	1.139	
160	790 112 102	1.080	
180	790 112 103	1.006	
200	790 112 104	0.945	
225	790 112 105	0.833	
250	790 112 106	0.712	
280	790 112 107	0.562	

PF 3 25 117 307



Clamping insert, narrow

- For clamping of elbows, flange adapters, etc., d = 315 mm, 1 piece = 1 Alu-half-shell
- Each code number defines 1 piece reduction clamping insert. Per outer base clamping unit 2 reduction clamping inserts are needed.

d [mm]	Code	Weight [kg]	
315	790 118 028	0.741	

PF 3 25 117 318



Set of pipe supports

d-d [mm]	Code	Weight [kg]	
90 - 280	790 118 025	6.700	

PF 3 25 117 318



T-fitting clamping unit

- For the rational manufacturing of 90° T-fittings in the sizes d 90 to 250 mm
- Three-piece, precise clamping tool for easy mounting on the machine bed
- Integrated eyelets for lifting
- **Complete** with reduction clamping inserts d 90 - 225 mm

d-d [mm]	Code Code	Weight [kg]	
90 - 250	790 118 032	120.000	

PF 3 25 117 318



Y-fitting clamping unit

- For the rational manufacturing of 30° to 45° Y-fittings in the sizes d 90 to 250 mm
- Three-piece, precise clamping tool for easy mounting on the machine bed
- **Complete** with reduction clamping inserts d 90 - 225 mm

d-d [mm]	Code	Weight [kg]	
90 - 250	790 118 033	179.000	

PF 3 25 117 318



PF 3 25 117 318

Back stop

- Prevents the components from slipping out of the clamping device during fusion.

Code	Weight [kg]	
790 118 026	4.000	



WM 630

- Machine for jointing segmented fittings like bends from d315 - 630 mm for high pressure applications
- To produce T and Y fittings from d315 - 500 mm, special accessories are required

Machine description:

- Distortion-free, sturdy machine frame
- Electric and hydraulic components separated in the frame
- Control panel assembled with pressure adjustment valve, pressure selection switch (planing or fusion pressure), selection switch for single or double sided planing process, gauge, joy stick and emergency stop
- The main clamping tools are mounted on supports each of which can be adjusted transversely to the pipe axis
- Each clamping tool can be turned max. 22.5° and assembled with a set of reductions d315 - 560 mm
- Hydraulically opening and closing of the upper clamping tools, manual locking with bolts and nuts
- Precision heating element with electronic temperature control (12000 W)
- High-quality PTFE coating with long service life
- Insertion hydraulically operated
- Powerful planer (1100 W) with optimized cutting geometry for even and chatter-free planing
- Load transfer via robust chain drive
- Insertion hydraulically operated
- During the planing process each slide could be moved separately (single sided planing)
- Including transport packaging, without accessories

d-d [mm]	Performance	Code Code	Weight [kg]	
315 - 630	400 V/15600 W	790 108 020	1946.000	

PF 3 25 138 100

table continued next page



WM 630 CNC

- Machine for jointing segmented fittings like bends from d315 - 630 mm for high pressure applications
- To produce T and Y fittings from d315 - 500 mm, special accessories are required

Machine description:

- Fully automated fusion process by the use of state of the art PLC and touch screen
- Highest flexibility in the pipe preparation process
- Data storage and transfer via USB to the PC
- Data management by SUVI® WIN-WELD
- Distortion - free, sturdy machine frame
- Electric and hydraulic components separated in the frame
- The main clamping tools are mounted on supports each of which can be adjusted transversely to the pipe axis
- Each clamping tool can be turned max. 22.5° and assembled with a set of reductions d315 - 560 mm
- Hydraulically opening and closing of the upper clamping tools, manual locking with bolts and nuts
- Precision heating element with electronic temperature control (12000 W)
- High-quality PTFE coating with long service life
- Insertion hydraulically operated
- Powerful planer (1100 W) with optimized cutting geometry for even and chatter-free planing
- Load transfer via robust chain drive
- Insertion hydraulically operated
- During the planing process each slide could be moved separately (single sided planing)
- Including transport packaging, without accessories

PF 3 25 138 100

d-d [mm]	Performance	Code	Weight [kg]	
315 - 630	400 V/15600 W	790 108 101	2300.000	

WM 630 accessories

Flange adapter clamping unit

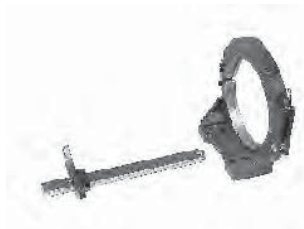


- For centric fusion of flange adapters
- Easy, correct attachment of clamping unit in the basic machine

d-d [mm]	Code	Weight [kg]	
315 - 630	790 108 031	194.000	

PF 3 25 117 321

Base clamping unit for fittings



- For clamping fittings of d500 mm as well as for the reduction clamping inserts for fittings of d315 to 450 mm. Guide shaft for pipe support and back stop, with pipe support d500 mm
- L = left
- R = right

d [mm]	Type	Code	Weight [kg]	
630	L	790 108 017	150.000	
630	R	790 108 018	150.000	

PF 3 25 117 321



Reduction clamping inserts, narrow

In order to mount the inserts d 315/d 355/d 400/d 450 to the base clamp d 630, the reduction clamping insert d 500 mm, code 790 117 012, must also be used

- Each code number defines 1 piece of reduction clamping insert.

d [mm]	smal Code	PF	SP	Weight [kg]	
315	790 116 020	3 25 117 306	0	3.622	
355	790 116 021	3 25 117 306	0	3.267	
400	790 116 022	3 25 117 306	0	2.508	
450	790 116 023	3 25 117 306	0	2.273	
500	790 117 238	3 25 117 319	0	3.700	
560	790 117 239	3 25 117 319	0	3.800	



Reduction clamping inserts, wide

- Each code number defines 1 piece of reduction clamping insert.

In order to mount the inserts d 315/d 355/d 400/d 450 to the base clamp d 630, the reduction clamping insert d 500 mm, code 790 117 012, must also be used

Code	PF	Weight [kg]	
790 116 012	3 25 117 306	3.698	
790 116 013	3 25 117 306	3.727	
790 116 014	3 25 117 306	3.836	
790 116 015	3 25 117 306	3.276	
790 117 012	3 25 117 319	4.500	
790 117 013	3 25 117 319	4.900	



PF 3 25 117 321

Set of pipe supports

d-d [mm]	Code	Weight [kg]	
315 - 450	790 108 025	6.000	
315 - 560	790 108 009	16.000	



PF 3 25 117 321

T-fitting clamping unit

- For the rational manufacturing of 90° T-fittings in the sizes d 315 to 500 mm
- Three-piece, precise clamping tool for easy mounting on the machine bed
- Integrated eyelets for lifting
- Complete with reduction clamping inserts

d-d [mm]	Code	Weight [kg]	
315 - 500	790 108 032	491.000	



PF 3 25 117 321

Y-fitting clamping unit

- For the rational manufacturing of 30° to 45° Y-fittings (branches) in the sizes d 315 - 500 mm
- Three-piece, precise clamping tool for easy mounting on the machine bed
- Integrated eyelets for lifting
- Complete with reduction clamping inserts

d-d [mm]	Code Code	Weight [kg]	
315 - 500	790 108 033	770.000	



PF 3 25 117 321

Back stop

- Prevents the components from slipping out of the clamping device during fusion.

Code	Weight [kg]	
790 108 026	32.000	



WM 1200 with data recorder

- Machine for joining segmented fittings like bends from d630 - 1200 mm for high pressure applications
- Professional data recording and operator guidance granted by the use of SUVI® 50
- To produce T and Y fittings from d630 - 900 mm, special accessories are required

Machine description:

- Dimensions: 2400 L x 1400 W x 2070 H in mm
- Distortion-free, sturdy machine frame
- Hardened, hard chrome plated linear guide rails for extreme loads
- Electric and hydraulic components separated in the frame
- Moveable control panel assembled with potentiometer to adjust the fusion and the planing pressure, selection switch for single or double sided planing process, gauge, Open, Close and pressure release button, emergency stop
- The data recorder SUVI® 50 is a component of the control panel
- The main clamping tools are mounted on supports each of which can be adjusted transversely to the pipe axis
- Each clamping tool can be turned max. 22.5° and assembled with a set of reductions d630 - 1000 mm
- Hydraulically opening and closing of the upper clamping tools
- Hydraulic locking mechanism of the main clamping tools
- Precision heating element with electronic temperature control (30000 W)
- High-quality PTFE coating with long service life
- Insertion hydraulically operated
- High speed extraction to grant fast change over times
- Powerful planer (2200 W) with optimized cutting geometry for even and chatter-free planing
- Load transfer via robust chain drive
- Insertion hydraulically operated
- During the planing process each slide could be moved separately (single sided planing)
- Including transport packaging, without accessories

d-d [mm]	Performance	Code	PF	Weight [kg]	
630 - 1200	400 V/41000 W	790 126 001	3 25 871 100	0.001	

WM 1200 accessories

T-fitting clamping unit



- For the rational manufacturing of 90° T-fittings in the sizes d 630 - 900 mm
- Three-piece, precise clamping tool for easy mounting on the machine bed
- Integrated eyelets for lifting
- Complete with reduction clamping inserts

d-d [mm]	Code	Weight [kg]	
630 - 900	790 126 011	2926.000	

PF 3 25 117 334



Y-fitting clamping unit

- For the rational manufacturing of 30° to 45° Y-fittings (branches) in the sizes d 630 - 900 mm
- Three-piece, precise clamping tool for easy mounting on the machine bed
- Integrated eyelets for lifting
- Complete with reduction clamping inserts

PF 3 25 117 334

d-d [mm]	Code	Weight [kg]	
630 - 900	790 126 012	0.100	

X-fitting clamping unit

- To weld a X-piece the T-piece unit is necessary

PF 3 25 117 334

d-d [mm]	Code	Weight [kg]	
630 - 900	790 126 013	2900.000	

Base Plate T-Y-X pieces

- To mount the T-Y-X pieces to the support plate

PF 3 25 117 334

Code	Weight [kg]	
790 126 014	1000.000	

Tools for installation of plastic pipes



KS 355 Plastic pipe cutter

- The KS 355 is the ideal tool for right-angled cuts with no misalignment of PE, PP and PVC pipes
- Unique clamping mechanism, no additional tools like belts, chains or reduction inserts necessary
- Weight of the saw: 13,0 kg
- Power: 1750 W ; 230 V 50 / 60 Hz
- Supplied with transport box: Dimension 700 x 350 x 500 mm; Weight 17,0 kg

d-d [mm]	Code	Weight [kg]	
160 - 355	790 202 001	35.000	

PF 3 25 129 760



Chamfering tools

Tool for beveling (15° angle) the outer diameter of the thermoplastic pipes (PVC, ABS, PB, PP, PE). Sliding surface out of industrial felt.

d-d [mm]	Code	Weight [kg]	
40 - 200	790 309 001	1.607	
50 - 315	790 309 002	3.265	

PF 3 10 590 100



Chamfering tools

- Chamfering tool (15° bevel) for plastic pipes (PVC, ABS, PB, PP, PE). Coated prism surface suitable for clean room applications. Fast and reliable adjustment to the different pipe diameters and wall thickness.

d-d [mm]	Code	Weight [kg]	
16 - 200	790 309 003	1.024	
63 - 400	790 309 004	2.548	

PF 3 25 117 906



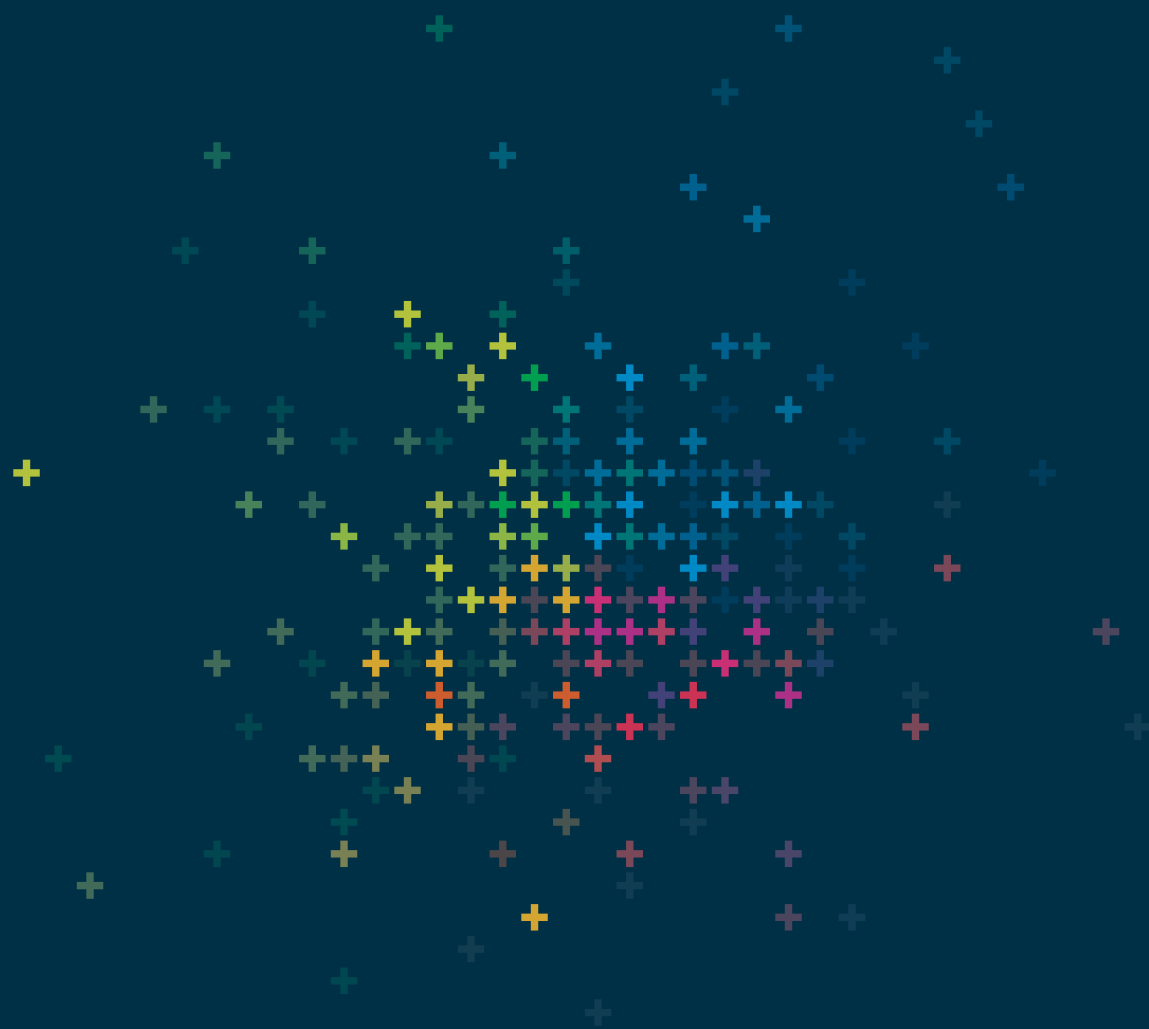
Outer bead remover

d-d [mm]	Code	Weight [kg]	
110 - 160	790 109 241	1.240	
140 - 250	790 109 242	1.950	
180 - 315	790 109 243	2.090	
280 - 450	790 109 244	2.700	

PF 3 25 117 330

Machines and Tools for Industrial Applications





Industry Range

Contents

Infrared fusion machines **75-86**

- IR fusion machines
- Accessories

BCF fusion machines **87-93**

- BCF fusion machines
- Accessories

Standart fusion machines **94-118**

- Industry fusion machines
- Accessories
- Manual fusion tools

Index **119-122**

IR and BCF Machines

[illegible]



IR 63 Plus machine

Model:

- Clamping inserts d 20-63 mm (8 pcs. per dimension)
- End caps PE d 20-63 mm (4 pcs. per dimension)
- Power supply cable 230 V (1 pcs.)
- Extension cable for remote weld device (1 pcs.)
- Extension cable for heater (1 pcs.)
- Extension cable for facing tool (1 pcs.)
- Cleaning brush No. 8 (1 pcs.)
- Hexagon key 3 mm (1 pcs.)
- Hexagon key 4 mm (1 pcs.)
- Heater protection shield (1 pcs.)
- Clamping unit extension (8 pcs.)
- Socket wrench (facing blades) (1 pcs.)
- Screw driver, Size 0 (1 pcs.)
- Accessory tray (1 pcs.)
- Manual (1 pcs.)
- Fully-equipped fusion jointing machine for welding SYGEF Standard, SYGEF Plus, PROGEF Standard, PROGEF Natural, PROGEF Plus, ecoFIT, PFA in dimensions d 20-63 mm with integrated remote welding unit, 2 USB interfaces, monochrome display with icons and 12 languages.
- 1-phase AC (50/60 Hz) 230 V L/N/PE
- Machine housing complete (1 pcs.)
- Heater assembly (1 pcs.)
- Remote weld device (1 pcs.)
- Facing tool (1 pcs.)
- Transport box (1 pcs.)
- Pipe stop (1 pcs.)

d-d [mm]	Code	SP	Weight [kg]	
20 - 63	790 131 005	1	35.000	

PF 2 43 412 001



Clamping inserts

- The clamping inserts are different for each dimension. They are used to clamp and position the pipe components.

d [mm]	Code	SP	Weight [kg]	Pieces	
20	790 131 038	0	0.090	1	
25	790 131 039	1	0.090	1	
32	790 131 040	1	0.052	1	
40	790 131 041	1	0.074	1	
50	790 131 042	0	0.100	1	
63	790 131 043	1	0.035	1	

PF 2 43 412 002



One set of planer blades

- A set includes two facing knives. Each facing knife has four blades. The blade may be turned three times before it must be replaced.

d-d [mm]	Code	SP	Weight [kg]	Pieces	
20 - 63	790 131 045	0	0.016	2	

PF 2 43 412 002



Set of end caps

- A set includes 4 end caps. The end caps are different for each dimension. The ends of the pipe **must** be closed. The caps prevent heat loss due to airflow in the fusion zone and guarantee optimum fusion results of the pipe components.

d [mm]	Code	SP	Weight [kg]	Pieces	
20	790 131 030	0	0.002	4	
25	790 131 031	0	0.010	4	
32	790 131 032	0	0.001	4	
40	790 131 033	0	0.005	4	
50	790 131 034	0	0.005	4	
63	790 131 035	0	0.023	4	

PF 2 43 412 002



Pipe stop

- The pipe stop defines the allowance when the pipes are clamped into position.

d-d [mm]	Code	Weight [kg]	Pieces	
20 - 63	790 131 046	0.430	1	

PF 2 43 412 002



Heater protection shield

- Protects the heater from plastic chips during the facing process.

Code	SP	Weight [kg]	Pieces	
790 131 051	1	0.205	1	

PF 2 43 412 002



Extension cable for facing tool

- The extension cable enables the fusion e. g. under the ceiling.

d-d [mm]	Code	SP	Weight [kg]	Pieces	
20 - 63	790 131 048	0	0.438	1	

PF 2 43 412 002



Extension cable for heater

- The extension cable enables the fusion e. g. under the ceiling.

d-d [mm]	Code	SP	Weight [kg]	Pieces	
20 - 63	790 131 049	0	0.767	1	

PF 2 43 412 002



Extension cable for clamping slide

- The extension cable enables the fusion e. g. under the ceiling.

d-d [mm]	Code	SP	Weight [lb]	Pieces	
20 - 63	790 131 047	0	1.764	1	

PF 2 43 412 002



IR 110 Plus machine

Model:

- Fully-equipped fusion jointing machine for welding SYGEF Standard, SYGEF Plus, PROGEF Standard, PROGEF Natural, PROGEF Plus, ecoFIT, PFA, ECTFE in dimensions d 20-110 mm, 2 USB interfaces, monochrome display with icons and 12 languages.
- 1-phase AC (50/60 Hz) 230 V L/N/PE
- Machine housing complete (1 pcs.)
- Heater and facing tool assembly (1 pcs.)
- Transport box (1 pcs.)
- Pipe stop (1 pcs.)
- Clamping inserts d 20-90 mm (8 pcs. per dimension)
- End caps PE d 20-110 mm (4 pcs. per dimension)
- Power supply cable 230 V (1 pcs.)
- Cleaning brush No. 8 (1 pcs.)
- Hexagon keys 4 mm (1 pcs.), 5 mm (1 pcs.), 6 mm (1 pcs.)
- Socket wrench (facing blades) (1 pcs.)
- Accessory tray (1 pcs.)
- Manual (1 pcs.)

d-d [mm]	Code	SP	Weight [kg]	
20 - 110	790 132 001	1	75.000	

PF 2 43 770 001



Clamping inserts

- The clamping inserts are different for each dimension. They are used to clamp and position the pipe components.

d [mm]	Code	SP	Weight [kg]	Pieces	
20	790 132 051	0	0.108	1	
25	790 132 052	0	0.106	1	
32	790 132 053	0	0.104	1	
40	790 132 054	0	0.100	1	
50	790 132 055	0	0.095	1	
63	790 132 056	0	0.085	1	
75	790 132 057	0	0.087	1	
90	790 132 058	0	0.064	1	

PF 2 43 770 002



Clamping inserts PFA Sch. 40 rigid pipe

- The clamping inserts are different for each dimension. They are used to clamp and position the pipe components.

d [inch]	Code	SP	Weight [kg]	Pieces	
¼	790 132 062	0	0.109	1	
½	790 132 063	0	0.107	1	
¾	790 132 064	0	0.106	1	
1	790 132 065	0	0.103	1	
2	790 132 066	0	0.088	1	

PF 2 43 770 002



One set of planer blades

- A set includes two facing knives. Each facing knife has four blades. The blade may be turned three times before it must be replaced.

d-d [mm]	Code	SP	Weight [kg]	Pieces	
20 - 110	790 132 061	0	0.007	2	

PF 2 43 460 902



Set of end caps

- A set includes 4 end caps. The end caps are different for each dimension. The ends of the pipe **must** be closed. The caps prevent heat loss due to airflow in the fusion zone and guarantee optimum fusion results of the pipe components.

d [mm]	Code	PF	Weight [kg]	Pieces	
20	790 131 030	2 43 412 002	0.002	4	
25	790 131 031	2 43 412 002	0.010	4	
32	790 131 032	2 43 412 002	0.001	4	
40	790 131 033	2 43 412 002	0.005	4	
50	790 131 034	2 43 412 002	0.005	4	
63	790 131 035	2 43 412 002	0.023	4	
75	790 133 036	2 43 414 002	0.095	4	
90	790 133 037	2 43 414 002	0.110	4	
110	790 133 038	2 43 414 002	0.180	4	



Pipe stop

- The pipe stop defines the allowance when the pipes are clamped into position.

d-d [mm]	Code	SP	Weight [kg]	Pieces	
20 - 110	790 132 059	0	0.700	1	

PF 2 43 460 902



IR 225 Plus machine with high purity working table

Model:

- Fully-equipped fusion jointing machine for welding SYGEF Standard, SYGEF Plus, PROGEF Standard, PROGEF Natural, PROGEF Plus, ecoFIT in dimensions d 63-225 mm, 2 USB interfaces, monochrome display with icons and 12 languages.
- Machine base (1 pcs.)
- Heater assembly (1 pcs.)
- Facing tool (1 pcs.)
- Movable clamping units (1 pcs.)
- Clamping inserts d 63-225 mm (8 pcs. per dimension)
- End caps PE d 63-225 mm (4 pcs. per dimension)
- Transportation lock (1 pcs.)
- Combination ring /open-jaw wrench 13 mm (1 pcs.)
- Cleaning brush (1 pcs.)
- Connecting cable 400 V - 230 V (1 pcs.)
- Ball for lever (1 pcs.)
- Manual (1 pcs.)
- 1-phase AC (50/60 Hz) 230 V L/N/PE or 3-phase AC (50/60 Hz) 400 V/230 V L1/L2/L3/N/PE
- Working table, HP (1 pcs.)
- Pipe stop (1 pcs.)
- Hexagon key 5 mm (1 pcs.)
- Hexagon key 6 mm (1 pcs.)

d-d [mm]	Code	Weight [kg]	
63 - 225	790 133 009	453.000	

PF 2 43 414 001



Clamping inserts

- The clamping inserts are different for each dimension. They are used to clamp and position the pipe components.

d [mm]	Code	PF	SP	Weight [kg]	Pieces	
63	790 133 026	2 43 414 002	0	0.771	1	
75	790 133 027	2 43 414 002	0	0.747	1	
90	790 133 028	2 43 414 002	1	0.691	1	
110	790 133 029	2 43 414 002	1	0.644	1	
125	790 133 030	2 43 414 002	1	0.500	1	
140	790 133 031	2 43 414 002	1	0.600	1	
160	790 133 032	2 43 414 002	1	0.600	1	
180	790 133 463	2 43 460 903	1	0.560	1	
200	790 133 033	2 43 414 002	1	0.700	1	
225	790 133 034	2 43 414 002	1	0.270	1	



Pipe stop

- The pipe stop defines the allowance when the pipes are clamped into position.

d-d [mm]	Code	SP	Weight [kg]	Pieces	
63 - 225	790 133 047	0	0.150	1	

PF 2 43 414 002



PF 2 43 414 002

One set of planer blades

- A set includes two facing knives. Each facing knife has four blades. The blade may be turned three times before it must be replaced.

d-d [mm]	Code	SP	Weight [kg]	Pieces	
63 - 225	790 133 046	0	0.125	2	



Set of end caps

- A set includes 4 end caps. The end caps are different for each dimension. The ends of the pipe **must** be closed. The caps prevent heat loss due to airflow in the fusion zone and guarantee optimum fusion results of the pipe components.

d [mm]	Code	PF	SP	Weight [kg]	Pieces	
63	790 131 035	2 43 412 002	0	0.023	4	
75	790 133 036	2 43 414 002	4	0.095	4	
90	790 133 037	2 43 414 002	0	0.110	4	
110	790 133 038	2 43 414 002	4	0.180	4	
125	790 133 039	2 43 414 002	0	0.170	4	
140	790 133 040	2 43 414 002	0	0.185	4	
160	790 133 041	2 43 414 002	0	0.212	4	
180	790 133 494	2 43 460 903	0	0.090	4	
200	790 133 042	2 43 414 002	0	0.450	4	
225	790 133 043	2 43 414 002	0	0.365	4	



IR 315 Plus machine with high purity working table

Fully-equipped fusion jointing machine for welding SYGEF and SYGEF Plus, in dimensions d 225-315 mm, 2 USB interfaces, monochrome display with icons and 12 languages. **Supply:** 1-phase AC (50/60 Hz) 230 V L/N/PE or 3-phase AC (50/60 Hz) 400 V/230 V L1/L2/L3/N/PE **Delivery includes:** Machine base (1 pcs.) Heater assembly (1 pcs.) Facing tool (1 pcs.) Working table, HP (1 pcs.) Movable clamping units (1 pcs.) Clamping inserts d 225-315 mm (8 pcs. per dimension) End caps PE d 225-315 mm (4 pcs. per dimension) Transportation lock (1 pcs.) Pipe stop (1 pcs.) Hexagon key 5 mm (1 pcs.) Hexagon key 6 mm (1 pcs.) Combination ring /open-jaw wrench 13 mm (1 pcs.) Cleaning brush (1 pcs.) Connecting cable 400 V - 230 V (1 pcs.) Ball for lever (1 pcs.) Manual (1 pcs.)

d-d [mm]	Code	SP	Weight [kg]	
225 - 315	790 134 001	0	466.000	

PF 2 43 649 001



IR 450 machine

Model:

- Fully-equipped semi automated fusion jointing machine for welding SYGEF Plus in dimension d 315-450, USB interfaces and touch screen with icons
- Only a rental pool machine**

d-d [mm]	Code	
315 - 450		



IR-Plus Win Weld

- The PC data transfer software makes it possible to manage and evaluate easily the recorded fusion data as required.
- **incl. Recordcard / USB stick**

	Code	Weight [kg]	Description	Pieces	
WIN 2000/XP/7	790 131 471	0.150	works with USB stick up to max. 2 GB	1	

PF 2 43 412 002

BCF fusion machines

BCF Plus machine d 20 - 63 mm



Fully-equipped machine for bead and crevice free jointing of SYGEF Standard, SYGEF Plus, PROGEF Natural of the dimensions d 20-63 mm with integrated remote welding unit, 2 USB interfaces, monochrome display with icons and 12 languages.

Supply:

1-phase AC (50/60 Hz) 115 / 230 V L/N/PE

Delivery includes:

- Machine housing (1 pcs.) incl. remote welding unit (1 pcs.)
- Transport box (1 pcs.)
- HP working table (1 pcs.)
- Heating stations d 20-63 mm (6 pcs.)
- Clamping units small (2 pcs.) with clamping inserts d 20-63 mm (24 pcs.)
- Facing tool small (1 pcs.) with facing inserts d 20-63 mm (6 pcs.)
- Facing tool support (1 pcs.)
- Hose box (1 pcs.) incl. air hose (1 pcs.)
- Supporting tools small d 20-63 mm (2 pcs.)
- BReT (1 pcs.)
- Hose cutter (1 pcs.)
- Air hose reducer (6-4 mm) (1 pcs.), air hose socket (4-4 mm) (1 pcs.)
- Extension cable (1 pcs.)
- Manual (1 pcs.)

PF 2 43 654 001

d-d [mm]	Code	SP	Weight [kg]	
20 - 63	790 121 002	0	153.000	

table continued next page



BCF Plus machine d 20 -110 mm

Fully-equipped machine for bead and crevice free jointing of SYGEF Standard, SYGEF Plus, PROGEF Natural of the dimensions d 20-110 mm with integrated remote welding unit.

Bladders to be ordered separately.

Supply:

1-phase AC (50/60 Hz) 115 / 230 V L/N/PE

Delivery includes:

- Machine housing (1 pcs.) incl. remote welding unit (1 pcs.)
- Transport box (1 pcs.)
- HP working table (1 pcs.)
- Heating stations d 20-110 mm (9 pcs.)
- Clamping units small (2 pcs.) with clamping inserts d 20-63 mm (24 pcs.)
- Clamping units big (2 pcs.) with clamping inserts d 75-110 mm (12 pcs.)
- Adapter for clamping unit d 75-110 mm (2 pcs.)
- Facing tool small (1 pcs.) with facing inserts d 20-63 mm (6 pcs.)
- Facing tool big (1 pcs.) with facing inserts d 75-110 mm (3 pcs.)
- Facing tool support (1 pcs.)
- Hose box (1 pcs.) incl. air hose (1 pcs.)
- Supporting tools small d 20-63 mm (2 pcs.)
- Supporting tools big d 75-110 mm (2 pcs.)
- BReT (1 pcs.)
- Hose cutter (1 pcs.)
- Air hose reducer (6-4 mm) (1 pcs.), air hose socket (4-4 mm) (1 pcs.)
- Extension cable (1 pcs.)
- Manual (1 pcs.)

PF 2 43 654 001

d-d [mm]	Code	SP	Weight [kg]	
20 - 110	790 121 001	0	188.000	



BCF Plus heating stations

d [mm]	Code	Weight [kg]	Pieces	
20	790 121 211	1.800	1	
25	790 121 212	1.820	1	
32	790 121 213	1.890	1	
40	790 121 214	2.396	1	
50	790 121 215	2.400	1	
63	790 121 216	2.500	1	
75	790 121 217	3.600	1	
90	790 121 218	3.600	1	
110	790 121 219	3.600	1	



BCF bladder for SYGEF PVDF

- Only suitable for welding SYGEF PVDF and not for PROGEF Natural. **Silver bladder head!**

d [mm]	Code	PF	SP	Weight [kg]	Pieces	
20	790 122 041	2 43 410 002	1	0.014	1	
25	790 122 042	2 43 410 002	1	0.020	1	
32	790 122 043	2 43 410 002	1	0.037	1	
40	790 122 044	2 43 410 002	1	0.078	1	
50	790 122 045	2 43 410 002	1	0.132	1	
63	790 122 046	2 43 410 002	1	0.138	1	
75	790 121 047	2 43 654 002	1	0.203	1	
90	790 121 048	2 43 654 002	1	0.204	1	
110	790 121 049	2 43 654 002	1	0.552	1	



BCF Plus bladder for PROGEF Natural

- Only suitable for welding PROGEF Natural and not for SYGEF PVDF . **Blue bladder head!** d75 - 110 same as bladder for SYGEF PVDF (silver bladder head).

d [mm]	Code	PF	SP	Weight [kg]	Pieces	
20	790 122 091	2 43 410 002	1	0.038	1	
25	790 122 092	2 43 410 002	1	0.021	1	
32	790 122 093	2 43 410 002	1	0.040	1	
40	790 122 094	2 43 410 002	1	0.050	1	
50	790 122 095	2 43 410 002	1	0.105	1	
63	790 122 096	2 43 410 002	1	0.138	1	
75	790 121 047	2 43 654 002	1	0.203	1	
90	790 121 048	2 43 654 002	1	0.204	1	
110	790 121 049	2 43 654 002	1	0.552	1	



BCF Plus facing tool

- Inclusive crank handle, mounting material and clamping inserts. Suitable for SYGEF (PVDF) as well as PROGEF Natural.

d-d [mm]	Code	SP	Weight [kg]	Pieces	
20 - 63	790 121 052	0	1.400	1	
75 - 110	790 121 053	0	3.000	1	

PF 2 43 654 002



BCF Plus clamping inserts for the facing tool

- These dimension-specific parts are inserted into the facing tool, in order to be able to face the end of the pipes smoothly and parallel.

d [mm]	Code	SP	Weight [kg]	Pieces	
20	790 121 061	0	0.160	1	
25	790 121 062	0	0.150	1	
32	790 121 063	0	0.132	1	
40	790 121 064	0	0.125	1	
50	790 121 065	0	0.100	1	
63	790 121 066	0	0.050	1	
75	790 121 067	0	0.300	1	
90	790 121 068	0	0.200	1	
110	790 121 069	0	0.090	1	

PF 2 43 654 002



BCF Plus facing tool mounting plate

- To fix the facing tool on the workbench.

d-d [mm]	Code	SP	Weight [kg]	Pieces	
20 - 110	790 121 055	0	1.200	1	

PF 2 43 654 002



BCF Plus clamping units

- The clamping units are adjustable, so that all types of pipes and fittings can be clamped.

d-d [mm]	Code	SP	Weight [kg]	Pieces	
20 - 63	790 121 034	0	0.001	1	
75 - 110	790 121 035	0	0.900	1	

PF 2 43 654 002



BCF Plus clamping inserts

- The clamping inserts are suitable for the clamping units of the BCF Plus machine. They are used to clamp the piping components.
- **No** clamping inserts are needed for **d 110 mm**!

d [mm]	Code	PF	SP	Weight [kg]	Pieces	
20	790 131 038	2 43 412 002	0	0.090	1	
25	790 131 039	2 43 412 002	1	0.090	1	
32	790 131 040	2 43 412 002	1	0.052	1	
40	790 131 041	2 43 412 002	1	0.074	1	
50	790 131 042	2 43 412 002	0	0.100	1	
63	790 131 043	2 43 412 002	1	0.035	1	
75	790 121 036	2 43 654 002	0	0.143	1	
90	790 121 037	2 43 654 002	0	0.095	1	



PF 2 43 654 002

BCF Plus adapter for clamping unit d 75-110 mm

- The adapter makes it possible, to insert clamping inserts with d 20-63 mm in clamping units with d 75-110 mm to be able to clamp pipes and fittings with d 20-63 mm with these clamping units.

d-d [mm]	Code	SP	Weight [kg]	Pieces	
75 - 110	790 121 038	0	0.250	1	



PF 2 43 460 901

BCF Plus hose box incl. hose

- For the clean and professional storage of the air hose.

d [mm]	Code	Weight [kg]	Length [m]	Pieces	
4	790 121 151	1.114	11	1	



PF 2 43 410 002

BCF Plus hose

- Connection hose for the BCF Plus bladder.

d [mm]	Code	Weight [kg]	Length [m]	
4	790 122 087	0.121	11	



PF 2 43 654 002

BCF Plus supporting tool

- Helpful to fix 45° - angle components.

d-d [mm]	Code	SP	Weight [kg]	Pieces	
20 - 63	790 121 072	0	0.542	1	
75 - 110	790 121 073	0	0.942	1	



PF 2 43 654 002

BCF Plus bladder/ hose remove tool (BReT)

- Helpful to remove bladders easily.

Code	SP	Weight [kg]	Pieces	
790 121 075	0	0.079	1	



PF 2 43 460 901

BCF Plus extension cable

- The extension cable enable the fusion e. g. under the ceiling.

Code	SP	Weight [kg]	Length [mm]	
790 122 989	1	1.000	8	

Accessories BCF Plus machines

Hose cutter



PF 2 43 410 002

d-d [mm]	Code	SP	Weight [kg]	Pieces	
4 - 6	790 122 106	1	0.031	1	

Socket for compressed air hose



PF 2 43 410 002

d [mm]	Code	Weight [kg]	Pieces	
4	790 122 104	0.002	1	

BCF Plus Win Weld



PF 2 43 412 002

- incl. Recordcard / USB stick
- The PC data transfer software makes it possible to manage and evaluate easily the recorded fusion data as required.
- Works with USB stick up to max. 2 GB

	Code	Weight [kg]	Pieces	
WIN 2000/XP/7	790 121 471	0.080	1	

Accessories for the IR Plus and BFC Plus Machines

Thermal Printer Ribbon for TLP-2742 / TLP-2844



PF 2 43 412 002

- The thermal transfer ribbon is specially suited for printing polyester labels.

Code	SP	Weight [kg]	Pieces	
790 131 029	1	0.076	1	

Thermal Transfer Labels



PF 2 43 412 002

- Label size: 38 x 19 mm
- Specification information available on request from George Fischer.
- The labels are made of white polyester. The printing, as well as the labels themselves, are resistant against:
 - UV resistant
 - Temperatures up to 140 °C (284 °F)
 - Up to 95% humidity
 - Cleaning agents (Isopropylalcohol etc.)
- Two identical labels are printed for each weld. Each roll contains 2500 labels.

Code	SP	Weight [kg]	Pieces	
790 131 028	1	0.400	1	



PF 2 43 410 002

Power supply lead

Performance	Code	SP	Weight [kg]	Pieces	
230V	790 122 246	0	0.301	1	
115V	790 122 248	0	0.188	1	



PF 2 28 473 002

KS Tangit cleaner

- special cleaner for plastic welding joints of PP, PE, PVDF, PB
- 1 litre container

Code	Weight [kg]	
799 298 023	0.872	



PF 2 43 410 002

Cleaning tissue KO-TON-R

¹⁾ Minimum order quantity 50 pieces

- This cleaning tissue is suitable for the cleaning of the welding zone of piping components, because it is lint free and clean room checked.

Code	Weight [kg]	
790 122 085	0.005	

Industry Fusion Machines

[illegible]

Socket fusion machine

SG 125



- Portable heating element - socket fusion machine for use in the workshop and on job sites.
- For fusion jointing of PP, PE, PB and PVDF pipes and fittings; dimension 20 - 125 mm
- **Base machine**
- Compact, sturdy design, distortion-free machine bed
- Handwheel with torque locking mechanism for the slide movement
- Fast selection of insertion depth according to the pipe dimension
- **Heater**
- With electronic temperature control
- High temperature accuracy over the entire heating surface
- **Additional standard equipment on the basic model**
- Universal, left and right prismatic clamping devices, complete, for clamping pipe and fittings. Additional set of prismatic clamping devices for outer clamping of pipes available as an option.
- V-shaped pipe support d 20 - 125 mm
- Back stop
- Machine specific tool set
- Timer to clock fusion times
- Including transport packaging, without accessories

PF 3 10 594 100

d-d [mm]	Performance	Code	Weight [kg]	
20 - 125	230 V/1500 W	790 310 034	50.000	

Heating spigots and bushes



- For socket fusion systems in PP, PE and PVDF
- Always delivered in pairs (also usable for SG 110, SG 125, not for SG 160)
- Type B according to DVS 2208-1 (mechanical calibrated pipe ends)

d [mm]	Code	PF	Weight [kg]	
20	799 300 156	3 25 117 302	0.090	
25	799 300 157	3 25 117 302	0.154	
32	799 300 158	3 25 117 302	0.211	
40	799 300 159	3 25 117 302	0.309	
50	799 300 160	3 25 117 302	0.434	
63	799 300 161	3 25 117 302	0.594	
75	799 300 162	3 25 117 302	0.981	
90	799 300 163	3 25 117 302	1.452	
110	799 300 164	3 25 117 302	2.008	
125	799 300 165	3 10 592 900	2.200	

Heating spigots and bushes set



- For socket fusion systems in PP, PE and PVDF
- Always delivered in pairs (also usable for SG 110, SG 125, not for SG 160)
- Type B according to DVS 2208-1 (mechanical calibrated pipe ends)

PF 3 10 583 500

d-d [mm]	Code	Weight [kg]	
20 - 125	790 310 023	8.600	



Manual pipe peeling and chamfering tools

d [mm]	Code	SP	Weight [kg]	
20	799 300 260	0	0.087	
25	799 300 270	0	0.080	
32	799 300 280	0	0.099	
40	799 300 290	0	0.240	
50	799 300 300	0	0.244	
63	799 300 310	0	0.507	
75	799 300 320	0	0.680	
90	799 300 330	0	1.006	
110	799 300 340	0	1.355	

PF 2 51 305 001



One set face chucks

- For back and front prismatic clamping device (set of 2 pieces)

Code	Weight [kg]	
790 310 018	1.100	

PF 3 25 117 317



Universal prismatic clamping device, complete

- For correct clamping of long pipes, fittings
- 1 set = 2 pieces (1 back and 1 front prismatic clamping device) for mounting on left or right side, as well as for inner and outer mounting

d-d [mm]	Code	SP	Weight [kg]	
20 - 125	790 310 040	0	3.300	

PF 3 10 594 500



Backstop, complete

- Prevents the components from slipping out of the clamping device during fusion.

Code	Weight [kg]	
790 310 012	0.600	

PF 3 25 117 317



V-shaped pipe support, complete

d-d [mm]	Code	SP	Weight [kg]	
20 - 125	790 310 041	0	0.700	

PF 3 10 594 500



Heating element

d-d [mm]	description	Performance	Code	SP	Weight [kg]	
20 - 125	electronic	230 V/1500 W	790 310 043	0	2.700	
20 - 125	thermostatic	230 V/1500 W	790 310 044	0	2.700	
20 - 125	thermostatic	115 V/1500 W	790 310 046	0	2.700	

PF 3 10 594 500



Tempil sticks

PF 2 15 073 104

Temperature [°C]	Code	SP	Weight [kg]	
253	761 066 796	1	0.012	
274	761 066 797	1	0.014	



Gloves

PF 2 15 073 104

Code	SP	Weight [kg]	
761 066 799	1	0.115	



PF 3 25 117 317

Special transport crate

Code	Weight [kg]	
790 310 099	26.000	

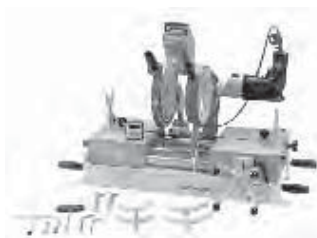
Socket and butt fusion machines

SG 160

Mobile, very compact and universal plastic fusion machine for PP, PE and PVDF pipes and fittings for use in the workshop and on job sites.

Butt fusion d 32 - 160 mm, all pressure ratings up to PE/PP SDR 11; PVDF SDR 21.

Socket fusion d 16 - 110 mm



Base machine

- high precision, distortion-free and robust machine base
- handwheel for easy moving of machine carriage
- exact pressure adjustment via direct load transfer
- hardened, hard-chrome plated guide shafts for extreme loads
- handle for safe transport of machine
- All clamping possibilities for base clamping plates, pipe supports, back stop and prismatic clamping devices.

Planer

- planing device made of light cast aluminium
- optimised cutting geometry for even and chatter-free planing
- powerful parallel planer, swivels in and out for single or double-sided facing of pipe ends 620 W
- integrated pick up for easy mounting of calibration tools for machining of pipe ends in socket fusion

Heater

- high-performance and precision heater with electronic temperature control 1500 W
- high accuracy of +/- 4C over the entire heating surface
- heater temperature can be set exactly with digital LCD
- high quality, non-stick, easy to change PTFE fabric

Additional standard equipment on the basic model

- V-shaped pipe supports d 16 - 160 mm for fittings
- timer to clock fusion times
- tool set specified to machine
- Including transport packaging, without accessories

d-d [mm]	Performance	Code	PF	Weight [kg]	
16 - 160	230 V	790 103 031	3 25 123 100	44.900	
16 - 160	115 V	790 103 033	3 25 123 300	45.000	

SG 160 Accessories

Base clamping plates



PF 3 25 117 303

- In order to improve the quality of the fusion joint, and for reliable clamping of long pipes, we recommend using the maximum number of clamping devices.
- For welding of long pipes we recommend to use the outer left and outer right base clamping plates as well.
- L = left
- R = right

d [mm]	Type	Code	Weight [kg]	
160	L	790 103 010	2.508	
160	R	790 103 011	2.549	

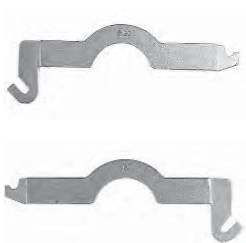


Inserts, left/right

- For base clamping plate or bracket
- Left or right

d [mm]	Code	Weight [kg]	
32	790 103 019	0.315	
40	790 103 020	0.303	
50	790 103 021	0.302	
63	790 103 022	0.277	
75	790 103 023	0.250	
90	790 103 024	0.219	
110	790 103 025	0.178	
125	790 103 026	0.132	
140	790 103 027	0.079	

PF 3 25 117 303



Clamping bracket, left/right

- For base clamping plate or bracket
- L = left
- R = right
- * Threaded clamping bracket, for mounting inserts d 32 - 140 mm. An additional insert must be used instead of clamping brackets d 32 - 140 mm, i.e. twice the number of inserts listed must be ordered.

d [mm]	Type	Code	Weight [kg]	
32	L	790 103 039	1.076	
40	L	790 103 040	0.530	
50	L	790 103 041	0.537	
63	L	790 103 042	0.531	
75	L	790 103 043	0.530	
90	L	790 103 044	0.580	
110	L	790 103 045	0.580	
125	L	790 103 046	0.606	
140	L	790 103 047	0.650	
* 160	L	790 103 048	0.669	
32	R	790 103 059	0.530	
40	R	790 103 060	0.530	
50	R	790 103 061	0.530	
63	R	790 103 062	0.530	
75	R	790 103 063	1.042	
90	R	790 103 064	1.174	
110	R	790 103 065	0.590	
125	R	790 103 066	0.605	
140	R	790 103 067	0.530	
* 160	R	790 103 068	0.679	

PF 3 25 117 303



PF 3 25 117 304

Back stop

- Prevents the components from slipping out of the clamping device during fusion.

d-d [mm]	Code	Weight [kg]	
20 - 250	790 101 045	1.394	



PF 3 25 117 303

Clamping bracket, right

- For base clamping plate or bracket
- R = right

Code	Weight [kg]	
790 103 059	0.530	
790 103 060	0.530	
790 103 061	0.530	
790 103 062	0.530	
790 103 063	1.042	
790 103 064	1.174	
790 103 065	0.590	



PF 3 25 117 303

Prismatic clamping device

- Prismatic clamping device for pick up of clamping jaws for exact alignment of fusion components
- L = left
- R = right
- *Horizontal adjustable

Type	Code	Weight [kg]	
L	790 103 080	5.849	
R	790 103 081	5.839	

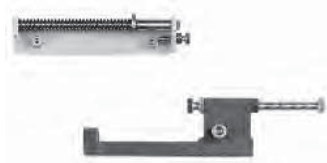


PF 3 25 117 303

Clamping jaws

- For prismatic base units, left/right
- Each code number defines 1 piece prismatic clamping device. For socket fusion 4 pieces are needed.

d [mm]	Code	Weight [kg]	
16-32 / 90-110	790 103 085	0.310	
30-50 / 50-90	790 103 086	0.330	



PF 3 25 117 303

Depth stop, complete

- Warrants the correct insertion depth of the pipe in the fittings socket
- Built-in spring for easier removal of fusion components from the heater. Damage to the plastified fusion surfaces is prevented.

Code	Weight [kg]	
790 103 090	0.610	



PF 3 25 117 304

Stiffener plate

- Warrants consistent heat transfer from heater plate to heating bush 110 mm
- Is recommended for socket fusion in the dimension 110 mm
- For heating bush d 110 mm

d [mm]	Code	Weight [kg]	
110	790 101 098	0.264	



PF 3 25 117 303

Calibration tool

- For mechanical, standardised calibration of pipe ends in PE, PP and PVDF (to be used with planer)
- easy and time-saving removal of oxide film
- Consistent peeling quality over the entire pipe circumference

d [mm]	Code	Weight [kg]	
20	790 103 160	0.950	
25	790 103 161	0.950	
32	790 103 162	0.950	
40	790 103 163	0.930	
50	790 103 164	0.950	
63	790 103 165	1.000	
75	790 103 166	1.150	
90	790 103 167	1.250	
110	790 103 168	1.344	



PF 3 25 117 304

Heating spigots and bushes

- 1 pair is always delivered
- Aluminium, PTFE coated

d [mm]	Code	Weight [kg]	
16	790 101 086	0.310	
20	790 101 087	0.315	
25	790 101 088	0.313	
32	790 101 089	0.316	
40	790 101 090	0.330	
50	790 101 091	0.475	
63	790 101 092	0.858	
75	790 101 093	1.164	
90	790 101 094	1.688	
110	790 101 095	2.071	



PF 2 15 073 104

Gloves

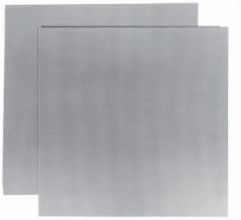
Code	SP	Weight [kg]	
761 066 799	1	0.115	



PF 2 15 073 104

Tempil sticks

Temperature [°C]	Code	SP	Weight [kg]	
253	761 066 796	1	0.012	
274	761 066 797	1	0.014	



PF 3 25 117 303

One set PTFE fabric sheets

- (set of 2 pieces)
- High-quality, easy to replace, non-stick PTFE fabric for the heater

d [mm]	Code	SP	Weight [kg]	
160	790 103 306	0	0.023	



PF 3 25 117 303

One set planer blades

- (1 set = 2 blades)

Code	SP	Weight [kg]	
790 103 548	0	0.039	



PF 3 25 117 303

Special transport crate

- Compact and sturdy for proper transportation and safe storage
- Multifunctional, can be used as a workbench for ergonomic working position
- Two integrated drawers to store all accessories
- Dimensions 1 m height x 1,2 m length x 0.8 m width

Code	Weight [kg]	
790 103 099	108.000	

Butt fusion machine 250 mm

IM 250



- Butt fusion machine for PP, PE, PB and PVDF pipes and fittings for industrial applications with pressure piping systems.
- Extremely sturdy design for use in the workshop and on job sites.
- Designed to provide the highest flexibility to adapt to different sizes or shapes of fittings.
- Angular jointing provided up to 30° (2x15°) for prefabrication of segmented fittings.
- Dimensional range: d75 - 250 mm, from SDR 41 up to SDR 11 with PE, PP d250 mm.
- **Base machine**
 - High precision, distortion-free and robust machine base
 - Integrated swivel tables for angular jointing up to 30° (2x15°)
 - Handwheel for easy moving of machine carriage
 - Exact pressure adjustment via direct spring load transfer
 - Fusion pressure is maintained with a user friendly fast-locking handle
 - Optional outer, horizontally removable clamping devices available
- **Planer**
 - Optimized cutting geometry for even and chatter-free planing
 - Swivel mounted for ergonomic handling
 - Mechanical stop to provide single sided planing and defined facing depth
 - Integrated safety switch to prevent unintentional start-up
 - Self-locking mechanism in working position
- **Heater**
 - High-performance and precision heater with electronic temperature control (2000 W)
 - High accuracy of +/- 4°C over the entire heating surface
 - High quality, non-stick PTFE coating
 - Pull-off mechanism to automatically detach the heating plate from pipe ends
 - Metal sheet cover to protect the heating plate in idle position
 - Integrated thermometer for fast visual check of plate temperature
- **Additional standard equipment**
 - Reduction clamping inserts set d 75-250 mm
 - Reduction pipe supporting inserts set d 75-250 mm
 - Timer to clock fusion times
 - Machine specific tool set

d-d [mm]	Performance	Description	Code	Weight [kg]	
75 - 250	230 V / 3000 W	Without transport crate	790 142 005	152.000	
75 - 250	230 V / 3000 W	With standard transport crate	790 142 001	152.000	
75 - 250	230 V / 3000 W	With special transport crate	790 142 003	283.000	

PF 3 10 598 013



IM 250 with digital display

- Butt fusion machine for PP, PE, PB and PVDF pipes and fittings for industrial applications with pressure piping systems.
- Equipped with a load cell and digital display for easy viewing and precise indication of the welding force.
- Extremely sturdy design for use in the workshop and on job sites.
- Designed to provide the highest flexibility to adapt to different sizes or shapes of fittings.
- Angular jointing provided up to 30° (2x15°) for prefabrication of segmented fittings.
- Dimensional range: d 75-250 mm from SDR 41 up to SDR 11 with PE, PP d 250 mm.

Base machine

- high precision, distortion-free and robust machine base
- integrated swiveling tables for angular jointing up to 30° (2x15°)
- handwheel for easy moving of machine carriage
- exact pressure adjustment via direct spring load transfer
- digital display for force indication
- fusion pressure is maintained with a user friendly fast-locking handle
- optional outer, horizontally removable clamping devices available

Inclusive:

- optimized cutting geometry for even and chatter-free planing
- swivel mounted for ergonomic handling
- mechanical stop to provide single sided planing and defined facing depth
- integrated safety switch to prevent unintentional start-up
- self-locking mechanism in working position
- high-performance and precision heater with electronic temperature control (2000 W)
- high accuracy of +/- 4°C over the entire heating surface
- pull-off mechanism to automatically detach the heating plate from pipe ends
- metal sheet cover to protect the heating plate in idle position
- high quality, non-stick PTFE coating
- integrated thermometer for fast visual check of plate temperature
- reduction clamping inserts set d 75-250 mm
- reduction pipe supporting inserts set d 75-250 mm
- timer to clock fusion times
- specific tool set
- wooden transport crate, also usable as working bench

d-d [mm]	Performance	Code	Weight [kg]	
75 - 250	230 V / 3000 W	790 142 002	152.000	
75 - 250	230 V / 3000 W	790 142 004	283.000	

PF 3 10 598 013



Outer base clamping devices

d [mm]	Type	Code	Weight [kg]	
250	L	790 142 030	15.700	
250	R	790 142 031	15.700	

PF 3 10 598 013



PF 3 10 598 013

Reduction clamping inserts set

- Dedicated to a single clamping device: 2 clamping inserts of each dimension.

d-d [mm]	Code	Weight [kg]	
75 - 225	790 142 032	16.800	



PF 3 10 598 013

Back stop

- Prevents the components from slipping out of the clamping device during fusion.

Code	Weight [kg]	
790 142 061	3.200	



PF 3 10 598 012

Tool box

- Wooden case designed for storage and transportation of machine standard reduction inserts set and tools.

Code	Weight [kg]	
790 142 066	22.017	



PF 3 10 598 013

Special transport crate

- Especially designed for easy transportation of the machine with standard equipment and complete accessories set, providing the most comfortable working position for the operator.

Code	Weight [kg]	
790 142 065	131.000	

Butt fusion machine 315 mm

IM 315



- Butt fusion machine for PP, PE, PB and PVDF pipes and fittings for industrial applications with pressure piping systems.
- Extremely sturdy design for use in the workshop and on job sites.
- Designed to provide the highest flexibility to adapt to different sizes or shapes of fittings.
- Angular jointing provided up to 30° (2x15°) for prefabrication of segmented fittings.
- Dimensional range: d90-315 mm, from SDR 41 up to SDR 11 with PE,PP d315 mm
- **Base machine**
 - High precision, distortion-free and robust machine base
 - Integrated swivel tables for angular jointing up to 30° (2x15°)
 - Handwheel for easy moving of machine carriage
 - Exact pressure adjustment via direct spring load transfer
 - Fusion pressure is maintained with a user friendly fast-locking handle
 - Optional outer, horizontally removable clamping devices available
- **Planer**
 - Optimized cutting geometry for even and chatter-free planing
 - Swivel mounted for ergonomic handling
 - Mechanical stop to provide single sided planing and defined facing depth
 - Integrated safety switch to prevent unintentional start-up
 - Self-locking mechanism in working position
- **Heater**
 - High-performance and precision heater with electronic temperature control (2500W)
 - High accuracy of +/- 4°C over the entire heating surface
 - High quality, non-stick PTFE coating
 - Pull-off mechanism to automatically detach the heating plate from pipe ends
 - Metal sheet cover to protect the heating plate in idle position
 - Integrated thermometer for fast visual check of plate temperature
- **Additional standard equipment**
 - Inner left and right clamping elements, for picking up reduction clamping inserts d 90-315 mm, with fast-locking handle
 - Reduction clamping inserts set d 90-315 mm
 - Pipe supports for picking up reduction supporting inserts d 90-315 mm
 - Reduction pipe supporting inserts set d 90-315 mm
 - Timer to clock fusion times
 - Machine specific tool set

d-d [mm]	Performance	Description	Code	Weight [kg]	
90 - 315	230 V / 3500 W	Without transport crate	790 143 005	173.000	
90 - 315	230 V / 3500 W	With standard transport crate	790 143 001	218.000	
90 - 315	230 V / 3500 W	With special transport crate	790 143 003	303.000	



IM 315 with digital display

- Butt fusion machine for PP, PE, PB and PVDF pipes and fittings for industrial applications with pressure piping systems.
- Equipped with a load cell and digital display for easy viewing and precise indication of the welding force.
- Extremely sturdy design for use in the workshop and on job sites.
- Designed to provide the highest flexibility to adapt to different sizes or shapes of fittings.
- Angular jointing provided up to 30° (2x15°) for prefabrication of segmented fittings.
- Dimensional range: d90-315 mm, from SDR 41 up to SDR 11 with PE, PP d315 mm
- **Base machine**
 - High precision, distortion-free and robust machine base
 - Integrated swivel tables for angular jointing up to 30° (2x15°)
 - Handwheel for easy moving of machine carriage
 - Exact pressure adjustment via direct spring load transfer
 - Digital display for force indication
 - Fusion pressure is maintained with a user friendly fast-locking handle
 - Optional outer, horizontally removable clamping devices available
- **Planer**
 - Optimized cutting geometry for even and chatter-free planing
 - Swivel mounted for ergonomic handling
 - Mechanical stop to provide single sided planing and defined facing depth
 - Integrated safety switch to prevent unintentional start-up
 - Self-locking mechanism in working position
- **Heater**
 - High-performance and precision heater with electronic temperature control (2500W)
 - High accuracy of +/- 4°C over the entire heating surface
 - High quality, non-stick PTFE coating
 - Pull-off mechanism to automatically detach the heating plate from pipe ends
 - Metal sheet cover to protect the heating plate in idle position
 - Integrated thermometer for fast visual check of plate temperature
- **Additional standard equipment**
 - Inner left and right clamping elements, for picking up reduction clamping inserts d 90-315 mm, with fast-locking handle
 - Reduction clamping inserts set d 90-315 mm
 - Pipe supports for picking up reduction supporting inserts d 90-315 mm
 - Reduction pipe supporting inserts set d 90-315 mm
 - Timer to clock fusion times
 - Machine specific tool set

d-d [mm]	Performance	Description	Code	Weight [kg]	
90 - 315	230 V / 3500 W	With standard transport crate	790 143 002	218.000	
90 - 315	230 V / 3500 W	With special transport crate	790 143 004	303.000	



Outer base clamping devices

d [mm]	Type	Code	Weight [kg]	
315	L	790 143 030	15.900	
315	R	790 143 031	15.900	



Reduction clamping inserts set

- Dedicated to a single clamping device: 2 clamping inserts of each dimension.

d-d [mm]	Code	Weight [kg]	
90 - 280	790 143 032	16.800	



Back stop

- Prevents the components from slipping out of the clamping device during fusion.

Code	Weight [kg]	
790 142 061	3.200	

PF 3 10 598 013

Machines for low and noun pressuer applications

MC 110



- Portable butt fusion machine for use in the workshop and on job sites. For fusion jointing of PP and PE pipes and fittings as well as prefabrication of segments in the size range d 20 - 110 mm and up to SDR 11.
- Machine MC 110 complete includes: machine mounting, base machine, 2 base clamping plates (wide), base clamping plate (left narrow), electrically operated planer, electronic controlled heater, table clamp and transport box
- Including transport packaging, without accessories

PF 3 25 368 100

d-d [mm]	Performance	Code	Weight [kg]	
20 - 110	230V/1360W	790 109 347	0.001	



MC 110 manual planer

- Portable butt fusion machine for use in the workshop and on job sites. For fusion jointing of PP and PE pipes and fittings as well as prefabrication of segments in the size range d 20 - 110 mm and up to SDR 11.
- Machine MC 110 complete includes: machine mounting, base machine, 2 base clamping plates (wide), base clamping plate (left narrow), manually operated planer, electronic controlled heater, table clamp and transport box
- Including transport packaging, without accessories

PF 3 25 368 100

d-d [mm]	Performance	Code	Weight [kg]	
20 - 110	230V/800W	790 109 348	0.001	



Reduction clamping inserts

- 20 - 90 mm
- Each code number defines 1 half shell. Per wide base clamping plate 2 reduction half-shells are needed.

PF 3 25 117 327

d [mm]	wide Code	Weight [kg]	narrow Code	Weight [kg]	
20	790 109 326	0.150	790 109 334	0.263	
25	790 109 327	0.139	790 109 335	0.279	
32	790 109 328	0.133	790 109 336	0.136	
40	790 109 329	0.130	790 109 337	0.258	
50	790 109 330	0.113	790 109 338	0.239	
56	790 109 342	0.137	790 109 343	0.115	
63	790 109 331	0.120	790 109 339	0.108	
75	790 109 332	0.110	790 109 340	0.193	
90	790 109 333	0.100	790 109 341	0.148	



Reduction clamping inserts set

- The set for the wide clamps contains 4 half shells of each dimension
- The set for the narrow clamp contains 2 half shells of each dimension

PF 3 10 583 500

d-d [mm]	wide Code	Weight [kg]	narrow Code	Weight [kg]	
20 - 90	790 300 019	4.532	790 300 029	3.478	



PF 3 25 117 327

Flange adapter clamping unit

- For correct clamping and fusion jointing of short-ended stub ends

d-d [mm]	Code	Weight [kg]	
25 - 110	790 109 316	1.630	



PF 3 25 117 327

Base clamping plate, right narrow

- 110 mm for fitting/pipe joints
- For mounting the narrow reduction clamping inserts
- Freely adjustable (max. 15°)

d [mm]	Code	Weight [kg]	
110	790 109 310	0.945	

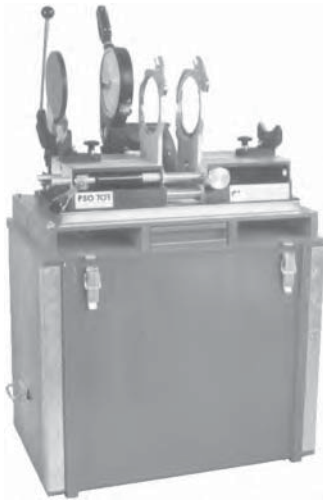


PF 3 25 117 318

One set planer blades

- Sharpened on both sides (1 set = 2 pieces)

description	Code	SP	Weight [kg]	
short	790 118 043	0	0.045	

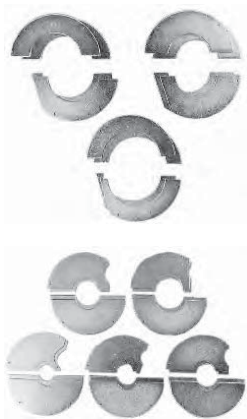


PSO 701

- Compact and mobile butt fusion machine for PE and PP and fittings for the use in the work-shop and on the building site. Perfect for sanitary installations and wastepipes. The wooden box is usable as working bench as well as for transportation.
- Pressure adjustment via direct load transfer (max. force 100 kp). SDR 11 d 160 mm (PE and PP)
- Planer and heating element could be swivelled in and out
- High performance heating element thermostatic controlled (PTFE coated)
- The heating element can be used as manual fusion tool
- **Complete reduction clamping inserts** set d 40 - 140 mm
- **V-shaped pipe support** with inserts d 40 - 140 mm
- **Base clamping plates** right and left, d 160 mm
- Machine specific tool set

PF 3 10 585 100

d-d [mm]	Performance	Code	Weight [kg]	
40 - 160	230 V/1360 W	790 301 000	95.000	



PF 3 25 117 311

Reduction clamping inserts

- 1 Code Nr. includes 4 half-shells

d [mm]	Code	SP	Weight [kg]	
40	790 113 031	0	1.380	
50	790 113 032	0	1.395	
56	790 113 033	0	1.385	
63	790 113 034	0	1.360	
75	790 113 035	0	1.290	
90	790 113 036	0	1.170	
110	790 113 037	0	1.055	
125	790 113 038	0	0.885	
140	790 113 039	0	0.795	

Reduction clamping inserts set

- Set reduction inserts dn 40 – 140 mm

PF 3 10 584 500

Code	Weight [kg]	
790 301 006	0.001	



PF 3 25 117 311

Inserts for pipe support

- 1 Code Nr. Includes 2 supports

d [mm]	Code	SP	Weight [kg]	
40	790 113 041	0	0.570	
50	790 113 042	0	0.545	
56	790 113 043	0	0.520	
63	790 113 044	0	0.520	
75	790 113 045	0	0.500	
90	790 113 046	0	0.460	
110	790 113 047	0	0.370	
125	790 113 048	0	0.340	
140	790 113 049	0	0.275	

Inserts for pipe support set

- Set inserts dn 40 – 140 mm

Code	Weight	
	[kg]	
PF 3 25 117 311	790 113 050	0.001



One set planer blades

- (1 set = 2 blades)

Code	Weight	
	[kg]	
PF 3 25 117 311	790 113 056	0.059

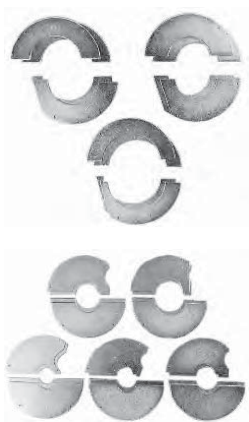


PF 3 10 584 100

WELD 160

- Economical, lightweight plastic fusion machine for PE pipes and fittings for mobile use. Suitable for plumbing installations, roof drainage systems and drainage pipes.
- **Base machine** for butt fusion d 40 up to 160 mm. PE max. d 160 mm SDR 26, PP max. d 160 mm SDR 17,6. Sliding carriages, pressure device 600 N scale. Support for heating element.
- **Base clamping plates** right and left, d 160 mm
- **Complete reduction clamping inserts** set d 40 - 140 mm
- **V-shaped pipe support** with inserts d 40 - 140 mm
- **Compact Planer** with reversible plates.
- **Heating element** thermostatic controlled, PTFE coated, electric cable with plug. Can also be used as a manual tool.
- **Steel frame** used for operation and transportation protection.

d-d [mm]	Performance	Code	Weight [kg]	
40 - 160	230 V/1350 W	790 301 020	55.000	



PF 3 25 117 311

Reduction clamping inserts

- 1 Code Nr. includes 4 half-shells

Code	Weight [kg]	
790 113 031	1.380	
790 113 032	1.395	
790 113 033	1.385	
790 113 034	1.360	
790 113 035	1.290	
790 113 036	1.170	
790 113 037	1.055	
790 113 038	0.885	
790 113 039	0.795	

Reduction clamping inserts set

- Set reduction inserts dn 40 – 140 mm

PF 3 10 584 500

d-d [mm]	Code	SP	Weight [kg]	
40 - 140	790 301 006	0	0.001	



PF 3 25 117 311

Inserts for pipe support

- 1 Code Nr. Includes 2 supports

Code	Weight [kg]	
790 113 041	0.570	
790 113 042	0.545	
790 113 043	0.520	
790 113 044	0.520	
790 113 045	0.500	
790 113 046	0.460	
790 113 047	0.370	
790 113 048	0.340	
790 113 049	0.275	

Inserts for pipe support set

- Set inserts dn 40 – 140 mm

	d-d [mm]	Code	SP	Weight [kg]	
PF 3 25 117 311	40 - 140	790 113 050	0	0.001	



One set planer blades

- (1 set = 2 blades)

	Code	Weight [kg]	
PF 3 25 117 311	790 113 056	0.059	

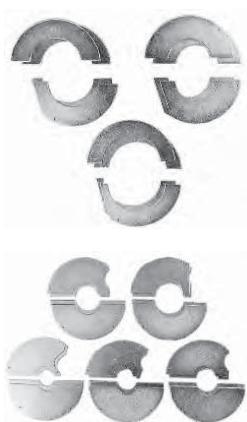


WELD 250

- Economical, lightweight plastic fusion machine for PE pipes and fittings for mobile use. Suitable for plumbing installations, roof drainage systems and drainage pipes.
- **Base machine** for butt fusion d 90 up to 250 mm. PE max. d 250 mm SDR 33, PP max. d 250 mm SDR 26. Sliding carriages, pressure device 1000 N scale. Support for heating element.
- Base clamping plates right and left, d 250 mm
- Complete reduction clamping inserts set d 90 - 225 mm
- V-shaped pipe support with inserts d 90 - 225 mm
- **Compact Planer** with reversible plates.
- **Heating element** thermostatic controlled, PTFE coated, electric cable with plug. Can also be used as a manual tool.
- **Steel frame** used for operation and transportation protection.

PF 3 10 584 200

d-d [mm]	Performance	Code	Weight [kg]	
90 - 250	230 V/2070 W	790 311 020	100.000	



Reduction clamping inserts

- 1 Code Nr. includes 4 half-shells

d [mm]	Code	SP	Weight [kg]	Weight [kg]	
90	790 311 050	0	0.001	3	
110	790 311 051	0	0.001	3	
125	790 311 052	0	0.001	2	
140	790 311 053	0	0.001	2	
160	790 311 054	0	0.001	2	
180	790 311 055	0	0.001	2	
200	790 311 056	0	0.001	2	
225	790 311 057	0	0.001	1	

PF 3 10 586 500

Reduction clamping inserts set

- Set reduction inserts dn 90 – 225 mm

d-d [mm]	Code	SP	Weight [kg]	
90 - 225	790 311 071	0	0.001	

PF 3 10 586 500



Inserts for pipe support

- 1 Code Nr. Includes 2 supports

d [mm]	Code	SP	Weight [kg]	Weight [kg]	
90	790 311 060	0	0.001	1	
110	790 311 061	0	0.001	1	
125	790 311 062	0	0.001	1	
140	790 311 063	0	0.001	1	
160	790 311 064	0	0.001	1	
180	790 311 065	0	0.001	1	
200	790 311 066	0	0.001	1	
225	790 311 067	0	0.001	1	

PF 3 10 586 500

Inserts for pipe support set

- Set inserts dn 90 – 225 mm

d-d [mm]	Code	SP	Weight [kg]	Weight [kg]	
90 - 225	790 311 072	0	0.001	1	



One set planer blades

- (set of 2 blades)

Code	Weight [kg]	
790 115 024	0.083	

Manual fusion tools

SSE butt fusion tools



- All devices equipped with on/off switch, mains and temperature control lamp
- Choice of electronic or thermostatic temperature control
- Heating element diameter 120 mm, 200 mm and 300 mm
- The SSE 120 heater plate is bent 45°
- Pick up for floor stand or table clamp
- High-quality, non-stick PTFE-coating with long service life
- Monitoring and setting of heating element temperature
- High temperature accuracy over the entire heating surface
- T = thermostatic temperature control / E = electronic temperature control

Type	d [mm]	Performance	Code	Weight [kg]	
SSE 120 T	110	230 V/400 W	790 105 051	3.300	
SSE 120 E	110	230 V/400 W	790 105 058	2.400	
SSE 200 T	180	230 V/800 W	790 105 052	3.000	
SSE 200 E	180	230 V/800 W	790 105 059	3.000	
SSE 300 T	280	230 V/1500 W	790 105 053	4.780	
SSE 300 E	280	230 V/1500 W	790 105 060	5.640	

PF 3 25 117 315

SSE 200 butt fusion tool set



- All devices equipped with on/off switch, mains and temperature control lamp
- Choice of electronic or thermostatic temperature control
- Pick up for floor stand or table clamp
- High-quality, non-stick PTFE-coating with long service life
- Monitoring and setting of heating element temperature
- High temperature accuracy over the entire heating surface
- Available as a complete set in a practical metal case
- Heating element-diameter 200 mm
- Table clamp
- T = thermostatic temperature control / E = electronic temperature control

Type	d [mm]	Performance	Code	Weight [kg]	
SSE 200 T	180	230 V/800 W	790 105 054	7.800	
SSE 200 E	180	230 V/800 W	790 105 061	7.700	

PF 3 25 122 500

SSE 300 butt fusion tool set



- All devices equipped with on/off switch, mains and temperature control lamp
- Choice of electronic or thermostatic temperature control
- Pick up for floor stand or table clamp
- High-quality, non-stick PTFE-coating with long service life
- Monitoring and setting of heating element temperature
- High temperature accuracy over the entire heating surface
- Available as a complete set in a practical metal case
- Heating element-diameter 300 mm
- Table clamp
- T = thermostatic temperature control / E = electronic temperature control

Type	d [mm]	Performance	Code	Weight [kg]	
SSE 300 T	280	230 V/1500 W	790 105 055	12.200	
SSE 300 E	280	230 V/1500 W	790 105 062	12.500	

PF 3 25 122 500



PF 3 25 117 314

MSE 63 / 110 socket fusion tool

- For fusion jointing of PP, PE and PVDF pipes and fittings
- Choice of electronic or thermostatic temperature control
- Support for heating bushes and spigots of d 16 to 63 mm (110 mm)
- Pick up for floor stand or table clamp
- Monitoring and setting of heating element temperature
- High temperature accuracy over the entire heating surface
- T = thermostatic temperature control / E = electronic temperature control

d-d [mm]	Type	Performance	Code	Weight [kg]	
16 - 63	MSE 63 T	230 V/800 W	790 105 081	1.700	
16 - 63	MSE 63 E	230 V/800 W	790 105 082	1.800	
16 - 110	MSE 110 T	230 V/1500 W	790 105 083	3.200	
16 - 110	MSE 110 E	230 V/1500 W	790 105 084	3.200	



MSE 63 / 110 socket fusion tool set

- For fusion jointing of PP, PE and PVDF pipes and fittings
- All devices equipped with on/off switch, mains and temperature control lamp
- Choice of electronic or thermostatic temperature control
- Support for heating bushes and spigots of d 16 to 63 mm (110 mm)
- Pick up for floor stand or table clamp
- Monitoring and setting of heating element temperature
- High temperature accuracy over the entire heating surface
- High-quality, non-stick PTFE-coating with long service life
- Heating bushes and spigots
- Available as a complete set in a practical metal case
- Table clamp
- Floor stand for MSE 63
- Allen screws and key
- T = thermostatic temperature control / E = electronic temperature control

Type	d-d [mm]	Performance	Code	PF	Weight [kg]	
MSE 63 T	16 - 63	230 V/800	790 105 085	3 25 122 200	8.700	
MSE 63 E	16 - 63	230 V/800	790 105 086	3 25 122 200	8.700	
MSE 110 T	16 - 110	230 V/1500	790 105 087	3 25 122 200	17.700	
MSE 110 E	16 - 110	230 V/1500	790 105 088	3 25 122 200	16.523	

Index

Code	Page
193 281 027	23
709 700 010	37
709 700 021	37
709 700 022	37
709 700 023	37
709 700 024	38
709 700 100	37
709 701 260	37
709 701 261	37
709 702 045	37
709 702 046	37
709 702 047	37
709 702 048	37
709 702 049	37
709 702 050	37
709 702 051	37
709 706 414	38
709 800 006	37
709 810 410	38
709 810 412	38
709 810 414	38
709 810 415	38
709 810 416	38
709 810 420	38
709 810 422	38
709 810 424	38
709 810 425	38
709 810 426	38
761 066 796	97, 101
761 066 797	97, 101
761 066 799	97, 101
790 101 045	100
790 101 086	101
790 101 087	101
790 101 088	101
790 101 089	101
790 101 090	101
790 101 091	101
790 101 092	101
790 101 093	101
790 101 094	101
790 101 095	101
790 101 098	101
790 103 010	99
790 103 011	99
790 103 019	99
790 103 020	99
790 103 021	99
790 103 022	99
790 103 023	99
790 103 024	99
790 103 025	99
790 103 026	99
790 103 027	99
790 103 031	98
790 103 033	98
790 103 039	99
790 103 040	99
790 103 041	99
790 103 042	99
790 103 043	99
790 103 044	99
790 103 045	99
790 103 046	99
790 103 047	99
790 103 048	99
790 103 059	99, 100
790 103 060	99, 100

Code	Page
790 103 061	99, 100
790 103 062	99, 100
790 103 063	99, 100
790 103 064	99, 100
790 103 065	99, 100
790 103 066	99
790 103 067	99
790 103 068	99
790 103 080	100
790 103 081	100
790 103 085	100
790 103 086	100
790 103 090	100
790 103 099	102
790 103 160	101
790 103 161	101
790 103 162	101
790 103 163	101
790 103 164	101
790 103 165	101
790 103 166	101
790 103 167	101
790 103 168	101
790 103 306	102
790 103 548	102
790 105 051	117
790 105 052	117
790 105 053	117
790 105 054	117
790 105 055	117
790 105 058	117
790 105 059	117
790 105 060	117
790 105 061	117
790 105 062	117
790 105 081	118
790 105 082	118
790 105 083	118
790 105 084	118
790 105 085	118
790 105 086	118
790 105 087	118
790 105 088	118
790 108 009	70
790 108 017	69
790 108 018	69
790 108 020	68
790 108 025	70
790 108 026	71
790 108 031	69
790 108 032	70
790 108 033	70
790 108 101	69
790 109 109	35
790 109 110	35
790 109 241	74
790 109 242	74
790 109 243	74
790 109 244	74
790 109 310	110
790 109 316	110
790 109 326	109
790 109 327	109
790 109 328	109
790 109 329	109
790 109 330	109
790 109 331	109
790 109 332	109

Code	Page
790 109 333	109
790 109 334	109
790 109 335	109
790 109 336	109
790 109 337	109
790 109 338	109
790 109 339	109
790 109 340	109
790 109 341	109
790 109 342	109
790 109 343	109
790 109 347	109
790 109 348	109
790 112 073	44
790 112 088	43
790 112 089	43
790 112 090	43, 46
790 112 091	43, 46
790 112 092	43, 46
790 112 093	43, 46
790 112 094	43, 46
790 112 095	43, 46
790 112 096	43, 46
790 112 097	43, 46
790 112 098	43, 66
790 112 099	43, 66
790 112 100	43, 46, 66
790 112 101	43, 46, 66
790 112 102	43, 46, 66
790 112 103	43, 46, 66
790 112 104	43, 46, 66
790 112 105	43, 46, 66
790 112 106	43, 46, 66
790 112 107	43, 46, 66
790 112 156	44
790 113 031	111, 113
790 113 032	111, 113
790 113 033	111, 113
790 113 034	111, 113
790 113 035	111, 113
790 113 036	111, 113
790 113 037	111, 113
790 113 038	111, 113
790 113 039	111, 113
790 113 041	111, 113
790 113 042	111, 113
790 113 043	111, 113
790 113 044	111, 113
790 113 045	111, 113
790 113 046	111, 113
790 113 047	111, 113
790 113 048	111, 113
790 113 049	111, 113
790 113 050	112, 114
790 113 056	112, 114
790 114 009	43
790 114 010	43
790 114 011	43
790 114 012	43
790 114 013	43
790 114 014	43
790 114 015	43
790 114 016	43
790 114 017	43
790 114 018	43
790 114 019	43
790 114 020	43
790 114 021	43

Index

Code	Page	Code	Page	Code	Page
790 114 022	43	790 118 026	67	790 123 029	54
790 114 023	43	790 118 028	66	790 123 073	60
790 114 027	43	790 118 031	65	790 123 074	60
790 114 156	44	790 118 032	66	790 123 075	60
790 115 008	43	790 118 033	66	790 123 219	54, 55
790 115 009	43	790 118 043	110	790 123 220	54, 55
790 115 010	43	790 118 060	64	790 124 011	55, 56
790 115 011	43	790 119 401	59	790 124 012	55, 56
790 115 012	43	790 119 425	59	790 124 016	55
790 115 013	43	790 121 001	88	790 124 025	55
790 115 014	43	790 121 002	87	790 124 029	52
790 115 015	43	790 121 034	90	790 124 073	60
790 115 016	43	790 121 035	90	790 124 074	60
790 115 017	43	790 121 036	90	790 124 075	60
790 115 018	43	790 121 037	90	790 125 011	56
790 115 019	43	790 121 038	91	790 125 016	57
790 115 020	43	790 121 047	89, 89	790 125 025	56
790 115 021	43	790 121 048	89, 89	790 125 028	56
790 115 022	43	790 121 049	89, 89	790 125 029	56
790 115 023	43	790 121 052	89	790 125 030	56
790 115 024	116	790 121 053	89	790 125 073	60
790 115 028	43	790 121 055	90	790 125 074	60
790 115 029	43	790 121 061	90	790 125 075	60
790 115 044	44	790 121 062	90	790 126 001	72
790 115 156	44	790 121 063	90	790 126 011	72
790 116 008	49	790 121 064	90	790 126 012	73
790 116 009	49	790 121 065	90	790 126 013	73
790 116 010	49	790 121 066	90	790 126 014	73
790 116 011	49	790 121 067	90	790 127 001	45
790 116 012	49, 52, 70	790 121 068	90	790 127 010	45
790 116 013	49, 52, 70	790 121 069	90	790 127 015	60
790 116 014	49, 52, 70	790 121 072	91	790 127 018	60
790 116 015	49, 52, 70	790 121 073	91	790 127 019	60
790 116 016	49	790 121 075	91	790 127 020	60
790 116 017	49	790 121 151	91	790 127 021	60
790 116 018	49	790 121 211	89	790 127 028	47
790 116 019	49	790 121 212	89	790 127 045	46
790 116 020	49, 52, 70	790 121 213	89	790 127 101	46
790 116 021	49, 52, 70	790 121 214	89	790 127 102	46
790 116 022	49, 52, 70	790 121 215	89	790 127 111	46
790 116 023	49, 52, 70	790 121 216	89	790 127 112	46
790 116 040	48	790 121 217	89	790 127 113	46
790 116 045	50	790 121 218	89	790 127 156	46
790 116 066	50	790 121 219	89	790 128 029	13
790 116 072	60	790 121 471	92	790 128 112	15
790 116 074	60	790 122 041	89	790 128 121	15
790 116 075	60	790 122 042	89	790 131 005	79
790 116 156	49	790 122 043	89	790 131 028	92
790 116 157	49	790 122 044	89	790 131 029	92
790 116 268	50	790 122 045	89	790 131 030	80, 83
790 116 269	50	790 122 046	89	790 131 031	80, 83
790 117 012	52, 54, 70	790 122 085	93	790 131 032	80, 83
790 117 013	52, 54, 70	790 122 087	91	790 131 033	80, 83
790 117 021	52	790 122 091	89	790 131 034	80, 83
790 117 029	53	790 122 092	89	790 131 035	80, 83, 85
790 117 032	51	790 122 093	89	790 131 038	79, 90
790 117 071	60	790 122 094	89	790 131 039	79, 90
790 117 074	60	790 122 095	89	790 131 040	79, 90
790 117 075	60	790 122 096	89	790 131 041	79, 90
790 117 094	53	790 122 104	92	790 131 042	79, 90
790 117 102	53	790 122 106	92	790 131 043	79, 90
790 117 238	52, 54, 70	790 122 246	93	790 131 045	79
790 117 239	52, 54, 70	790 122 248	93	790 131 046	80
790 118 009	65	790 122 989	91	790 131 047	81
790 118 011	65	790 123 011	54, 55	790 131 048	80
790 118 012	65	790 123 012	54, 55	790 131 049	80
790 118 014	62	790 123 016	54	790 131 051	80
790 118 025	66	790 123 025	54	790 131 471	86

Index

Code	Page
790 132 001	82
790 132 051	82
790 132 052	82
790 132 053	82
790 132 054	82
790 132 055	82
790 132 056	82
790 132 057	82
790 132 058	82
790 132 059	83
790 132 061	82
790 132 062	82
790 132 063	82
790 132 064	82
790 132 065	82
790 132 066	82
790 133 009	84
790 133 026	84
790 133 027	84
790 133 028	84
790 133 029	84
790 133 030	84
790 133 031	84
790 133 032	84
790 133 033	84
790 133 034	84
790 133 036	83, 85
790 133 037	83, 85
790 133 038	83, 85
790 133 039	85
790 133 040	85
790 133 041	85
790 133 042	85
790 133 043	85
790 133 046	85
790 133 047	84
790 133 463	84
790 133 494	85
790 134 001	85
790 136 001	17
790 136 002	17
790 136 003	17
790 136 004	17
790 136 005	17
790 136 006	17
790 136 007	17
790 136 008	17
790 136 009	17
790 136 010	17
790 136 011	17
790 136 012	17
790 136 013	17
790 136 014	17
790 136 015	17
790 136 100	17
790 136 112	17
790 136 211	17
790 136 212	17
790 136 213	17
790 136 214	17
790 140 010	49
790 140 021	60
790 142 001	103
790 142 002	104
790 142 003	103
790 142 004	104
790 142 005	103
790 142 030	104

Code	Page
790 142 031	104
790 142 032	105
790 142 061	105, 108
790 142 065	105
790 142 066	105
790 143 001	106
790 143 002	107
790 143 003	106
790 143 004	107
790 143 005	106
790 143 030	107
790 143 031	107
790 143 032	108
790 146 001	58
790 146 002	60
790 146 003	60
790 146 018	58
790 146 019	58
790 146 020	59
790 146 030	58
790 146 031	58
790 146 032	58
790 146 033	58
790 146 147	58
790 146 148	58
790 146 149	58
790 150 010	40
790 150 011	40
790 150 012	41
790 150 015	40, 60
790 150 016	40, 60
790 150 050	44
790 150 205	44
790 150 206	44
790 151 002	44
790 151 010	40
790 151 011	40
790 151 012	41
790 151 015	40, 60
790 151 016	40, 60
790 151 050	44
790 151 071	42
790 151 205	44
790 151 206	44
790 152 010	40
790 152 012	41
790 152 016	40, 60
790 152 025	40, 60
790 152 026	40
790 152 050	44
790 152 052	41
790 152 071	42
790 152 205	44
790 152 206	44
790 153 001	45
790 154 001	48
790 155 001	51
790 156 001	10
790 156 002	9
790 156 003	9
790 156 011	8
790 156 012	8
790 156 030	14
790 160 005	12
790 160 007	11
790 160 010	15
790 160 154	14
790 160 176	15

Code	Page
790 160 201	14
790 202 001	74
790 300 019	109
790 300 029	109
790 301 000	111
790 301 006	111, 113
790 301 020	113
790 309 001	74
790 309 002	74
790 309 003	74
790 309 004	74
790 310 012	96
790 310 018	96
790 310 023	95
790 310 034	95
790 310 040	96
790 310 041	96
790 310 043	96
790 310 044	96
790 310 046	96
790 310 099	97
790 311 020	115
790 311 050	115
790 311 051	115
790 311 052	115
790 311 053	115
790 311 054	115
790 311 055	115
790 311 056	115
790 311 057	115
790 311 060	115
790 311 061	115
790 311 062	115
790 311 063	115
790 311 064	115
790 311 065	115
790 311 066	115
790 311 067	115
790 311 071	115
790 311 072	116
790 319 007	44
790 340 000	49
790 340 007	60
790 340 008	60
790 340 035	60
790 340 036	60
790 345 000	52
790 345 003	60
790 345 008	60
790 345 011	60
790 345 012	52
790 345 013	60
790 345 036	60
790 345 233	53
790 350 019	54
790 355 019	55
790 360 019	56
790118016	63
799 100 061	31
799 100 062	31
799 150 007	32
799 150 008	32
799 150 009	32
799 150 275	20
799 150 312	24
799 150 313	24
799 150 314	24
799 150 315	24

Index

Code	Page
799 150 319	24
799 150 355	19
799 150 360	19
799 150 361	19
799 150 362	19
799 150 363	19
799 150 364	19
799 150 365	19
799 150 369	19
799 150 370	20
799 150 378	31
799 150 382	18
799 150 383	18
799 150 385	25
799 150 386	25
799 150 387	25
799 150 388	25
799 150 389	25
799 150 390	25
799 150 391	25
799 150 392	25
799 198 012	32
799 198 047	31
799 198 079	31
799 198 080	31
799 198 091	31
799 198 094	21
799 198 101	28
799 198 102	28
799 198 103	28
799 198 104	28
799 198 107	28
799 198 121	28
799 198 122	28
799 198 123	28
799 198 124	28
799 199 088	32
799 199 089	32
799 199 127	33
799 199 128	33
799 199 129	33
799 199 130	33
799 199 131	33
799 199 132	33
799 199 133	33
799 199 134	33
799 199 135	33
799 199 137	33
799 199 138	33
799 199 139	33
799 199 140	33
799 199 141	33
799 199 282	32
799 199 283	32
799 199 286	32
799 199 287	32
799 298 023	35, 93
799 298 024	35
799 300 156	95
799 300 157	95
799 300 158	95
799 300 159	95
799 300 160	95
799 300 161	95
799 300 162	95
799 300 163	95
799 300 164	95
799 300 165	95

Code	Page
799 300 260	96
799 300 270	96
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799 350 270	34
799 350 340	14
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Code	Page
799 350 358	23
799 350 364	35
799 350 461	14
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799 900 423	24
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General Condition of Supply of Georg Fischer Piping Systems Limited, Schaffhausen

1 General

- 1.1 These General Conditions shall apply to all Products supplied by Georg Fischer Piping Systems Limited («Georg Fischer») to the Purchaser.
They shall also apply to all future business even when no express reference is made to them.
- 1.2 Any deviating or supplementary conditions especially Purchaser's general conditions of purchase and verbal agreements shall only be applicable if accepted in writing by Georg Fischer.
- 1.3 The written form shall be deemed to be fulfilled by all forms of transmission, evidenced in the form of text, such as telefax, e-mail, etc.

2 Tenders

Tenders shall only be binding if they contain a specifically stated period for acceptance.

3 Scope of Delivery

- 3.1 Georg Fischer's product range is subject to change.
- 3.2 The confirmation of order shall govern the scope and execution of the contract.

4 Data and Documents

- 4.1 Technical documents such as drawings, descriptions, illustrations and data on dimensions, performance and weight as well as the reference to standards are for information purposes only. They are not warranted characteristics and are subject to change.
- 4.2 All technical documents shall remain the exclusive property of Georg Fischer and may only be used for the agreed purposes or as Georg Fischer may consent.

5 Confidentiality, Protection of Personal Data

- 5.1 Each party shall keep in strict confidence all commercial or technical information relating to the business of the other party, of which it has gained knowledge in the course of its dealing with the other party. Such information shall neither be disclosed to third parties nor used for other purposes than those for which the information has been supplied.
- 5.2 In the context of the contractual relation with the Purchaser personal data may be processed. The Purchaser agrees to the disclosure of said data to third parties such as foreign subcontractors and suppliers etc.

6 Local Laws and Regulations, Export Controls

- 6.1 The Purchaser shall bring to the attention of Georg Fischer all local laws and regulations at the place of destination which bear connection with the execution of the contract and the adherence to relevant safety regulations and approval procedures.
- 6.2 In case of re-exports, Purchaser shall be responsible for compliance with pertinent export control regulations.

7 Price

- 7.1 Unless agreed otherwise, the prices shall be deemed quoted net ex works (according to Incoterms 2010 of the ICC, or latest version) including standard packing. All supplementary costs such as the cost of carriage, insurance, export-, transit- and import- licences etc. shall be borne by the Purchaser. The Purchaser shall also bear the costs of all taxes, fees, duties etc. connected with the contract.
- 7.2 If the costs of packing, carriage, insurance, fees and other supplementary costs are included in the tender price or contract price or are referred to specifically in the tender or confirmation of order, Georg Fischer reserve the right to revise their prices accordingly should any change occur in the relevant tariffs.

8 Terms of Payment

- 8.1 The Purchaser shall make payment in the manner agreed by the parties without any deductions such as discounts, costs, taxes or dues.
- 8.2 The Purchaser may only withhold or off-set payments due against counter claims which are either expressly acknowledged by Georg Fischer or finally awarded to the Purchaser.
In particular, payment shall still be made when unessential items are still outstanding provided that the Products already delivered are not rendered unusable as a result.

9 Retention of Title

- 9.1 The Products shall remain the property of Georg Fischer until the Purchaser shall have settled all claims, present and future, which Georg Fischer may have against him.
- 9.2 Should the Purchaser resell Products to which title is reserved, in the ordinary course of business, he shall hereby be deemed to have tacitly assigned to Georg Fischer the proceeds deriving from their sale together with all collateral rights, securities and reservations of title until all claims held by Georg Fischer shall have been settled. Until revoked by Georg Fischer, this assignment shall not preclude Purchaser's right to collect the assigned receivables.
- 9.3 To the extent the value of the Products to which title is reserved together with collateral securities exceeds Georg Fischer's claims against the Purchaser by more than 20%, Georg Fischer shall re-assign the above proceeds to Purchaser at his request.

10 Delivery

- 10.1 The term of delivery shall commence as soon as the contract has been entered into, all official formalities such as import and payment permits have been obtained and all essential technical issues have been settled. The term of delivery shall be deemed duly observed when, upon its expiry, the Products are ready for despatch.
- 10.2 Delivery is subject to the following conditions, i.e. the term of delivery shall be reasonably extended:
- a) if Georg Fischer are not supplied in time with the information necessary for the execution of the contract or if subsequent changes causing delays are made by the Purchaser.
- b) if Georg Fischer are prevented from performing the contract by force majeure. Force majeure shall equally be deemed to be any unforeseeable event beyond Georg Fischer's control which renders Georg Fischer's performance commercially impractical or impossible, such as delayed or defective supplies from sub contractors labour disputes, governmental orders or regulations, shortages in materials or energy, serious disturbances in Georg Fischer's works, such as the total or partial destruction of plant and equipment or the breakdown of essential facilities, serious disruptions in transport facilities, e.g. impassable roads.
Should the effect of force majeure exceed a period of six (6) months, either party may cancel the contract forthwith.
Georg Fischer shall not be liable for any damage or loss of any kind whatsoever resulting the reform, any suspension or cancellation being without prejudice to Georg Fischer's right to recover all sums due in respect of consignments delivered and costs incurred to date.
- c) if the Purchaser is in delay with the fulfilment of his obligations under the contract, in particular, if he does not adhere to the agreed conditions of payment or if he has failed to timely provide the agreed securities.
- 10.3 If for reasons attributable to Georg Fischer the agreed term of delivery or a reasonable extension thereof is exceeded, Georg Fischer shall not be deemed in default until the Purchaser has granted to Georg Fischer in writing a reasonable extension thereof of not less than one (1) month which equally is not met.
The Purchaser shall then be entitled to the remedies provided at law, it being however understood that, subject to limitations of Art. 16, damage claims shall be limited to max. 10% of the price of the delayed delivery.
- 10.4 Part shipments shall be allowed and Georg Fischer shall be entitled to invoice for such partial deliveries.
- 10.5 If the Purchaser fails to take delivery within a reasonable time of Products notified as ready for despatch, Georg Fischer shall be entitled to store the Products at the Purchaser's expense and risk and to invoice them as delivered. If Purchaser fails to effect payment, Georg Fischer shall be entitled to dispose of the Products.
- 10.6 Should Purchaser cancel an order without justification and should Georg Fischer not insist on the performance of the contract, Georg Fischer shall be entitled to a penalty amounting to 10% of the contract price, Georg Fischer's right to prove and claim higher damages remaining reserved.

Purchaser shall be entitled to prove, that Georg Fischer has suffered no or a considerably lower damage than the penalty forfeited.

11 Packing

If the Products are provided with additional packing over and above the standard packing, such packing shall be charged additionally.

12 Passing of Risk

- 12.1 The risk in the Products shall pass to the Purchaser as soon as they have left Georg Fischer's works (EX WORKS, Incoterms 2010 ICC, or latest version), even if delivery is made carriage-paid, under similar clauses or including installation or when carriage is organized and managed by Georg Fischer.
- 12.2 If delivery is delayed for reasons beyond Georg Fischer's control, the risk shall pass to the Purchaser when he is notified that the Products are ready for despatch.

13 Carriage and Insurance

- 13.1 Unless agreed otherwise, the Purchaser shall bear the cost of carriage.
- 13.2 The Purchaser shall be responsible for transport insurance against damage of whatever kind. Even when such insurance is arranged by Georg Fischer it shall be deemed taken out by the order of and for the account of the Purchaser and at his risk.
- 13.3 Special requests regarding carriage and insurance shall be communicated to Georg Fischer in due time. Otherwise carriage shall be arranged by Georg Fischer at their discretion, but without responsibility, by the quickest and cheapest method possible.
In case of carriage-paid delivery transport arrangements shall be made by Georg Fischer. If the Purchaser specifies particular requirements, any extra costs involved shall be borne by him.
- 13.4 In the event of damage or loss of the Products during carriage the Purchaser shall mark the delivery documents accordingly and immediately have the damage ascertained by the carrier. Not readily ascertainable damages sustained during carriage shall be notified to the carrier within six (6) days after receipt of the Products.

14 Inspection, Notification of Defects and Damages

- 14.1 The Products will be subject to normal inspection by Georg Fischer during manufacture. Additional tests required by the Purchaser shall be agreed upon in writing and shall be charged to the Purchaser.
- 14.2 It shall be a condition of Georg Fischer's obligation under the warranties stated hereinafter that Georg Fischer be notified in writing by the Purchaser of any purported defect immediately upon discovery. Notice concerning weight, numbers or apparent defects is to be given latest within 30 days from receipt of the Products, notice of other defects immediately latest within seven (7) working days after discovery, in any event within the agreed warranty period.
- 14.3 Purchaser shall not dispose of allegedly defective Products until all warranty and/or damage claims are finally settled. At its request, defective Products are to be placed at Georg Fischer's disposal.
- 14.4 At its request, Georg Fischer shall be given the opportunity to inspect the defect and/or damage, prior to commencement of remedial work, either itself or by third party experts.

15 Warranty

- 15.1 At the written request of the Purchaser, Georg Fischer undertakes to repair or replace at its discretion, as quickly as possible and free of charge, all Products supplied which demonstrably suffer from faulty design, materials or workmanship, from faulty operating or installation instructions or which become defective or unusable due to faulty advice.
In order to protect employees from toxic or radioactive substances which may have been transported through defective parts returned to Georg Fischer's sales organisation, said parts must be accompanied by a Material Safety Disclosure Form. The form may be obtained from Georg Fischer's local sales company or via www.piping.georgfischer.com.
Replaced parts shall become property of Georg Fischer, unless Georg Fischer waives such claim.
- 15.2 For Products which are manufactured to specifications, drawings or patterns supplied by the Purchaser, Georg Fischer's warranty shall be restricted to proper materials and workmanship.
- 15.3 The Purchaser shall be entitled to rescind the contract or to demand a reduction of the contract price if
- the repair or replacement of the defective Product is impossible
 - the defective Product is not repaired or replaced within a reasonable period
 - Georg Fischer refuses the repair or replacement or if for reasons attributable to Georg Fischer the repair or replacement is delayed.
- 15.4 For Products or essential components manufactured by a third party and supplied by Georg Fischer under this contract, Georg Fischer's warranty is limited to the warranty provided by said third party.
- 15.5 This warranty shall not apply to damage resulting from normal wear and tear, improper storage and maintenance, failure to observe the operating instructions, overstressing or overloading, unsuitable operating media, unsuitable construction work or unsuitable building ground, improper repairs or alterations by the Purchaser or third parties, the use of other than original spare parts and other reasons beyond Georg Fischer's control.
- 15.6 No action or claim may be brought by the Purchaser on account of any alleged breach of warranty or any other obligation of Georg Fischer after the expiration of twelve (12) months from receipt of the Products by the end user or at the latest within eighteen (18) months of the Products being despatched by Georg Fischer.
- 15.7 In case of Products for use in domestic installations or in utilities
- Georg Fischer will assume the costs of dismantling the defective Product and restoring the damaged object up to CHF 1'000'000 per occurrence.
 - warranty or damage claims - contrary to Section 15.6 - are time-barred five (5) years from the date of installation or seven (7) years from the production date, whichever is earlier.

16 Limitation of Liability

The rights and remedies of the customer shall be exclusively governed by these General Conditions of Supply and shall be in lieu of any remedies at law. All further claims for damages, reduction of the purchase price, termination of or rescission of the contract are excluded. In no case whatsoever shall the customer be entitled to claim damages other than compensation for costs of remedying defects in the supplies. This in particular refers, but shall not be limited, to loss of production, loss of use, loss of orders, loss of profit, third party recovery claims and other direct or indirect or consequential damages.
This limitation of liability equally applies to the extent Georg Fischer is liable for acts or omissions of its employees or third parties engaged for the performance of its obligations. It does not apply in case unlawful intent or gross negligence on the part of Georg Fischer's management and in case of Georg Fischer's statutory liability, in particular under applicable product liability laws.

17 Severability

Should any term or clause of these General Conditions in whole or in part be found to be unenforceable or void, all other provisions shall remain in full force and effect and the unenforceable or void provision shall be replaced by a valid provision, which comes closest to the original intention of the unenforceable or invalid provision.

18 Place of Performance and Jurisdiction

- 18.1 Place of performance for the Products shall be the Georg Fischer works from which the Products are despatched.
- 18.2 The contract shall be governed by Swiss law without regard to conflict of law provisions that would require the application of another law.
- 18.3 Any civil action based upon any alleged breach of this contract shall be filed and prosecuted exclusively in the courts of Schaffhausen, Switzerland.
Georg Fischer however reserves the right to file actions in any court having jurisdiction over controversies arising out of or in connection with the present contract.

Worldwide at home

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