

Product Catalogue 2012

Machines & Tools
for Installation of
Plastic Pipes



NEW



GF 400 - 500 - 630 CNC

Automated Butt-Fusion Machines providing high repetitive accuracy in joining PE and PP according to the country specific guidelines.

An innovative CNC hydraulic control unit guides the operator through all preparation and fusion steps. The machines have been designed for water as well as gas applications.

GF 400: Ø 125 – 400 mm

GF 500: Ø 200 – 500 mm

GF 630: Ø 315 – 630 mm

Selection of fusion parameters is intuitive and time saving by using industrially proven touch-screen technology.

Pressure, time and temperature are automatically calculated, regulated and controlled according to the valid national guidelines or following freely programmable welding cycles by the operator.

The welding reports can be stored on a standard USB memory key, which is supplied with the machine as well as the SUVI® WIN-WELD software.



GF 630 CNC



GF 400 CNC



GF 500 CNC

**Industrial and plant
construction machines**

**Page
4**

SSE/MSE MC 110 WELD 160/250 PSO 701 SG 125 - 315

**Workshop
Butt fusion machines**

**Page
30**

WM 315 WM 630 WM 1200

**Construction site
Butt fusion machines**

**Page
40**

TM 160 - 315 GF 400 - 1200 KL 500 - 630

**Electro fusion
units**

**Page
86**

MSA 210 MSA 230 MSA 330 MSA 340

**Tools
and special machines**

**Page
97**

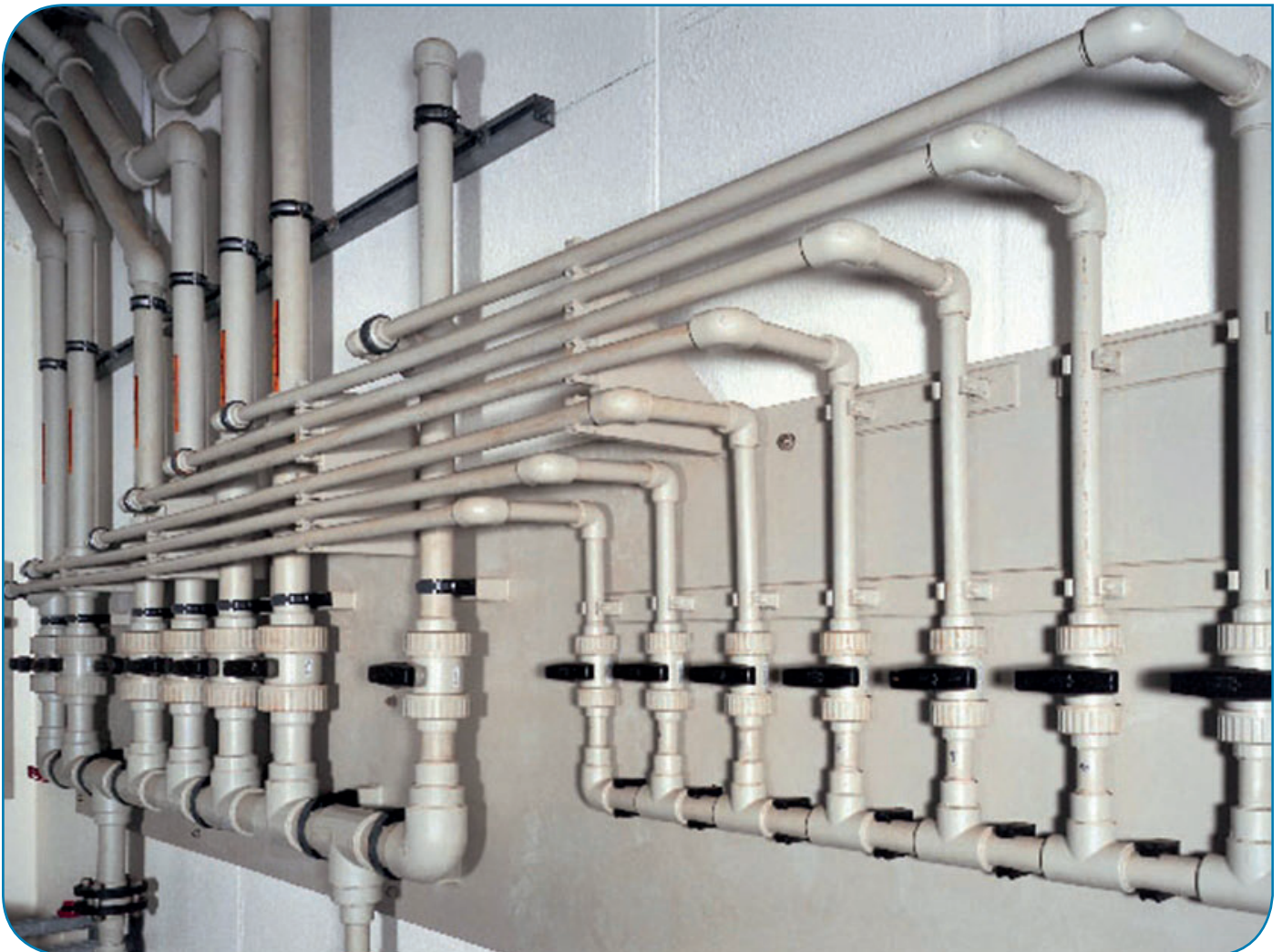
Saws Cutter Chamfering tools Outer bead remover

Industrial and plant construction machines

- **SSE/MSE** Manual fusion tools
- **MC 110** Butt fusion machine
- **Weld 160/250** Butt fusion machines
- **PSO 701** Butt fusion machine
- **SG 125** Socket fusion machine

Universal machines and tools for the use in industrial, building technology and sanitary applications.

The machines are portable and due to the design (e.g. MC 110) suitable to weld in difficult locations.



Manual fusion tools

SSE Butt fusion tool



- 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

d [mm]	Type	Performance	Code	kg
110	SSE 120 T	230 V/400 W	790 105 051	3.300
110	SSE 120 E	230 V/400 W	790 105 058	2.400
110	SSE 120 T	115 V/400 W	790 105 136	1.492
180	SSE 200 T	230 V/800 W	790 105 052	3.000
180	SSE 200 E	230 V/800 W	790 105 059	3.000
180	SSE 200 T	115 V/800 W	790 105 137	3.000
280	SSE 300 T	230 V/1500 W	790 105 053	4.780
280	SSE 300 E	230 V/1500 W	790 105 060	5.640
280	SSE 300 T	115 V/1500 W	790 105 138	5.540

SSE 200 -Set- Butt fusion tool



- 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

d [mm]	Type	Performance	Code	kg
180	SSE 200 T	230 V/800 W	790 105 054	7.800
180	SSE 200 E	230 V/800 W	790 105 061	7.700
180	SSE 200 T	115 V/800 W	790 105 139	8.000

SSE 300 -Set- Butt fusion tool



- 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

d [mm]	Type	Performance	Code	kg
280	SSE 300 T	230 V/1500 W	790 105 055	12.200
280	SSE 300 E	230 V/1500 W	790 105 062	12.500
280	SSE 300 T	115 V/1500 W	790 105 140	0.001



MSE 63/MSE 110 Socket fusion tools

- 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	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 - 63	MSE 63 T	115 V/800 W	790 105 096	2.075
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
16 - 110	MSE 110 T	115 V/1500 W	790 105 126	3.200



MSE 63/MSE 110 - Set - Socket fusion tools

- 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

d-d [mm]	Type	Performance	Code	kg
16 - 63	MSE 63 T	230 V/800	790 105 085	8.700
16 - 63	MSE 63 E	230 V/800	790 105 086	8.700
16 - 63	MSE 63 T	115 V/800	790 105 098	8.600
16 - 110	MSE 110 T	230 V/1500	790 105 087	17.700
16 - 110	MSE 110 E	230 V/1500	790 105 088	16.523
16 - 110	MSE 110 T	115 V/1500	790 105 128	17.700

Accessories/Wearing parts for manual fusion tools

Metal case



Article	Code	kg
SSE 200	790 105 056	4.421
SSE 300	790 105 057	4.700
MSE 63	790 105 089	4.000
MSE 110	790 105 090	7.000

Floor stand for manual fusion tools SSE/MSE



Code	kg
790 105 063	0.380

Table clamp for SSE/MSE

- For correct placement of heater



Code	kg
790 109 315	0.660

Heating spigots and bushes

- High-quality, non-stick PTFE-coating with long service life
- Type B according to DVS 2208-1 (mechanical calibrated pipe ends)
- Always delivered in pairs (also usable for SG 110, SG 125, not for SG 160)



d [mm]	Code	kg
16	799 300 155	0.085
20	799 300 156	0.090
25	799 300 157	0.154
32	799 300 158	0.211
40	799 300 159	0.230
50	799 300 160	0.434
63	799 300 161	0.594
75	799 300 162	0.981
90	799 300 163	1.440
110	799 300 164	2.210

MC 110 Butt fusion machine

Machine MC 110, with electric planer, thermostatic heater



- 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, thermostatic controlled heater, table clamp and transport box.
- Including transport packaging, without accessories

d-d [mm]	Performance	Code	kg
20 - 110	230V/1360W	790 109 303	31.000
20 - 110	115V/1360W	790 109 321	31.000

Machine MC 110, with electric planer, electronic heater



- 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

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

Machine MC 110, with manual planer, thermostatic heater



- 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, thermostatic controlled heater, table clamp and transport box
- Including transport packaging, without accessories

d-d [mm]	Performance	Code	kg
20 - 110	230V/800W	790 109 301	31.000
20 - 110	115V/800W	790 109 320	310.000

Machine MC 110, with manual planer, electronic heater



- 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

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



Machine mounting

- For mounting the basic machine and fastening the complete MC 110 on the work-bench

d-d [mm]	Code	kg
20 - 110	790 109 306	0.851



Base machine

- With spring resistance for pressure build-up and tool set

d-d [mm]	Code	kg
20 - 110	790 109 307	6.034



Base clamping plate, wide

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

d [mm]	Code	kg
110	790 109 308	2.312



Base clamping plate, left narrow

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

d [mm]	Code	kg
110	790 109 309	0.945



Planer, electrically operated

- Centre of planing radial adjustable.

d-d [mm]	Performance	Code	kg
20 - 110	230V/560W	790 109 312	4.845
20 - 110	115V/560W	790 109 324	4.900



Planer, manually operated

- With ratchet mechanism
- Stops on guide shaft can be locked
- Cutting blades sharpened on both sides

d-d [mm]	Code	kg
20 - 110	790 109 311	2.266



Heater

- Thermostatic or electronic temperature control
- Including machine mounting
- Control lamps (power, status)
- PTFE coating

d-d [mm]	Performance	description	Code	kg
20 - 110	230V/800W	thermostatic	790 109 313	2.556
20 - 110	230V/800W	electronic	790 109 314	2.556
20 - 110	115V/800W	thermostatic	790 109 322	2.600
20 - 110	115V/800W	electronic	790 109 323	2.600



Table clamp

Code	kg	
790 109 315	0.660	



Transport crate

Code	kg	
790 109 317	14.000	

MC 110 Accessories

Set reduction clamping inserts



- 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

d-d [mm]	wide Code	narrow Code	kg
20 - 90	790 300 019	790 300 029	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.

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

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	kg
110	790 109 310	0.945

Flange adapter clamping unit



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

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

Replacement blades



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

description	Code	kg
short	790 118 043	0.045

Weld 160 - 250 Butt fusion machine

For fusion jointing of PP and PE pipes and fittings, size range d 40 - 160 mm



- Economical, lightweight plastic fusion machine 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
- **Reduction clamping inserts** 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	kg
40 - 160	230 V/1350 W	790 301 020	51.900
40 - 160	115 V/1350 W	790 301 021	65.000

For fusion jointing of PP and PE pipes and fittings, size range d 90 - 250 mm



- Economical, lightweight plastic fusion machine 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
- Reduction clamping inserts 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.

d-d [mm]	Performance	Code	kg
90 - 250	230 V/2070 W	790 311 020	107.800
90 - 250	115 V/2070 W	790 311 021	72.000



Weld 160 Accessories Reduction clamping inserts

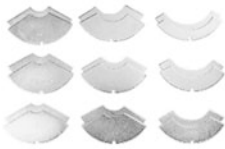
- 1 Code Nr. includes 4 half-shells

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

Set reduction clamping inserts

- Set reduction inserts dn 40 – 140 mm

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



Inserts for pipe support

- 1 Code Nr. Includes 2 supports

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

Set inserts for pipe support

- Set inserts dn 40 – 140 mm

d-d [mm]	Code	kg
40 - 140	790 113 050	0.001



1 Set planer blades

- (1 set = 2 blades)

Code	kg
790 113 056	0.059



Weld 250 Accessories Reduction clamping inserts

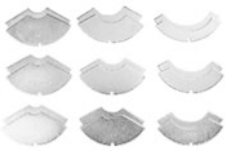
- 1 Code Nr. includes 4 half-shells

d [mm]	Code	kg
90	790 311 050	3.000
110	790 311 051	2.750
125	790 311 052	2.350
140	790 311 053	2.200
160	790 311 054	2.100
180	790 311 055	1.800
200	790 311 056	1.500
225	790 311 057	1.000

Set reduction clamping inserts

- Set reduction inserts dn 90 – 225 mm

d-d [mm]	Code
90 - 225	790 311 071



Inserts for pipe support

- 1 Code Nr. Includes 2 supports

d [mm]	Code	kg
90	790 311 060	1.400
110	790 311 061	1.350
125	790 311 062	1.150
140	790 311 063	1.100
160	790 311 064	1.000
180	790 311 065	0.900
200	790 311 066	0.750
225	790 311 067	0.500

Set inserts for pipe support

- Set inserts dn 90 – 225 mm

d-d [mm]	Code	kg
90 - 225	790 311 072	1.400



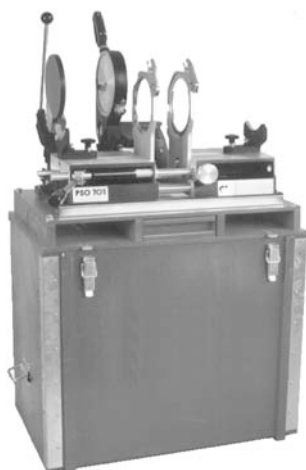
1 set planer blades

- (set of 2 blades)

Code	kg
790 115 024	0.083

PSO 701 Butt fusion machine

For fusion jointing of PP and PE pipes and fittings, size range d 40 - 160 mm



- Compact and mobile butt fusion machine for PE and PP pipes for the use in the workshop 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
- **V-shaped pipe support** with inserts d 40 - 140 mm
- **Reduction clamping inserts** d 40 - 140 mm
- **Base clamping plates** right and left, d 160 mm
- Machine specific tool set

d-d [mm]	Performance	Code	kg
40 - 160	230 V/1360 W	790 301 000	95.500

PSO 701 Accessories Reduction clamping inserts

- 1 Code Nr. includes 4 half-shells



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

Set reduction clamping inserts

- Set reduction inserts dn 40 – 140 mm

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

Inserts for pipe support

- 1 Code Nr. Includes 2 supports



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

Set inserts for pipe support

- Set inserts dn 40 – 140 mm

d-d [mm]	Code	kg	
40 - 140	790 113 050	0.001	



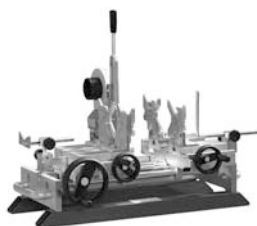
1 Set planer blades

- (1 set = 2 blades)

Code	kg	
790 113 056	0.059	

SG 125 Socket fusion machine

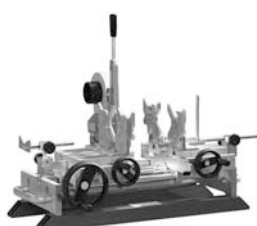
For fusion jointing of PP, PE, PB and PVDF pipes and fittings



- Portable heating element - socket fusion machine for use in the workshop and on job sites.
- 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

d-d [mm]	Performance	Code	kg
20 - 125	230 V/1500 W	790 310 034	65.000

For fusion jointing of PP, PE, PB and PVDF pipes and fittings



- Portable heating element - socket fusion machine for use in the workshop and on job sites.
- Dimension 20 - 90
- **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**
- Thermostatic 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

d-d [mm]	Performance	Code	kg
20 - 90	115 V/1500 W	790 310 036	65.000



SG 125 Accessories

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	kg	
20	799 300 156	0.090	
25	799 300 157	0.154	
32	799 300 158	0.211	
40	799 300 159	0.230	
50	799 300 160	0.434	
63	799 300 161	0.594	
75	799 300 162	0.981	
90	799 300 163	1.440	
110	799 300 164	2.210	
125	799 300 165	2.200	



Set heating spigots and bushes Type B

- 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-d [mm]	Code	kg	
20 - 125	790 310 023	0.100	



1 set face chucks

d-d [mm]	Code	kg	
20 - 110	790 310 018	1.100	



Universal prismatic clamping device, complete

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



Backstop, complete

d-d [mm]	Code	kg	
20 - 110	790 310 012	0.600	



V-shaped pipe support, complete

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



Heating element

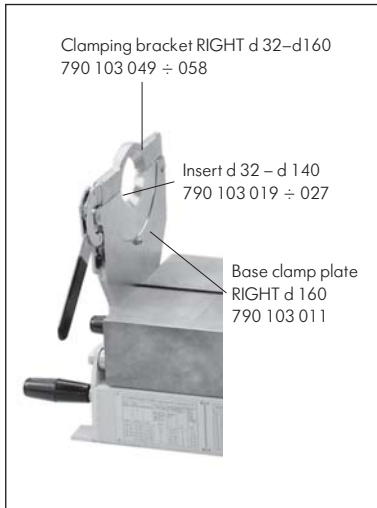
d-d [mm]	Performance	description	Code	kg	
20 - 125	230 V/1500 W	electronic	790 310 043	2.700	
20 - 125	230 V/1500 W	thermostatic	790 310 044	2.700	
20 - 125	115 V/1500 W	thermostatic	790 310 046	2.700	



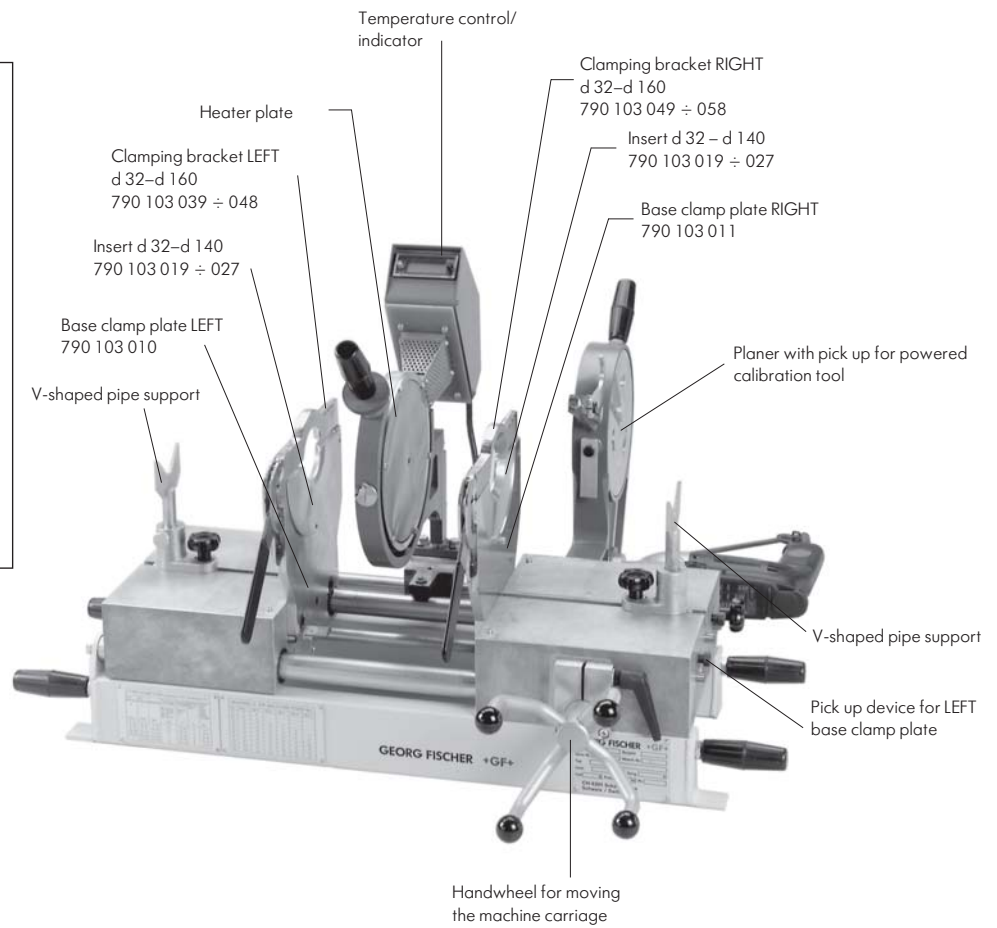
Special transport crate

Code	kg	
790 310 099	26.000	

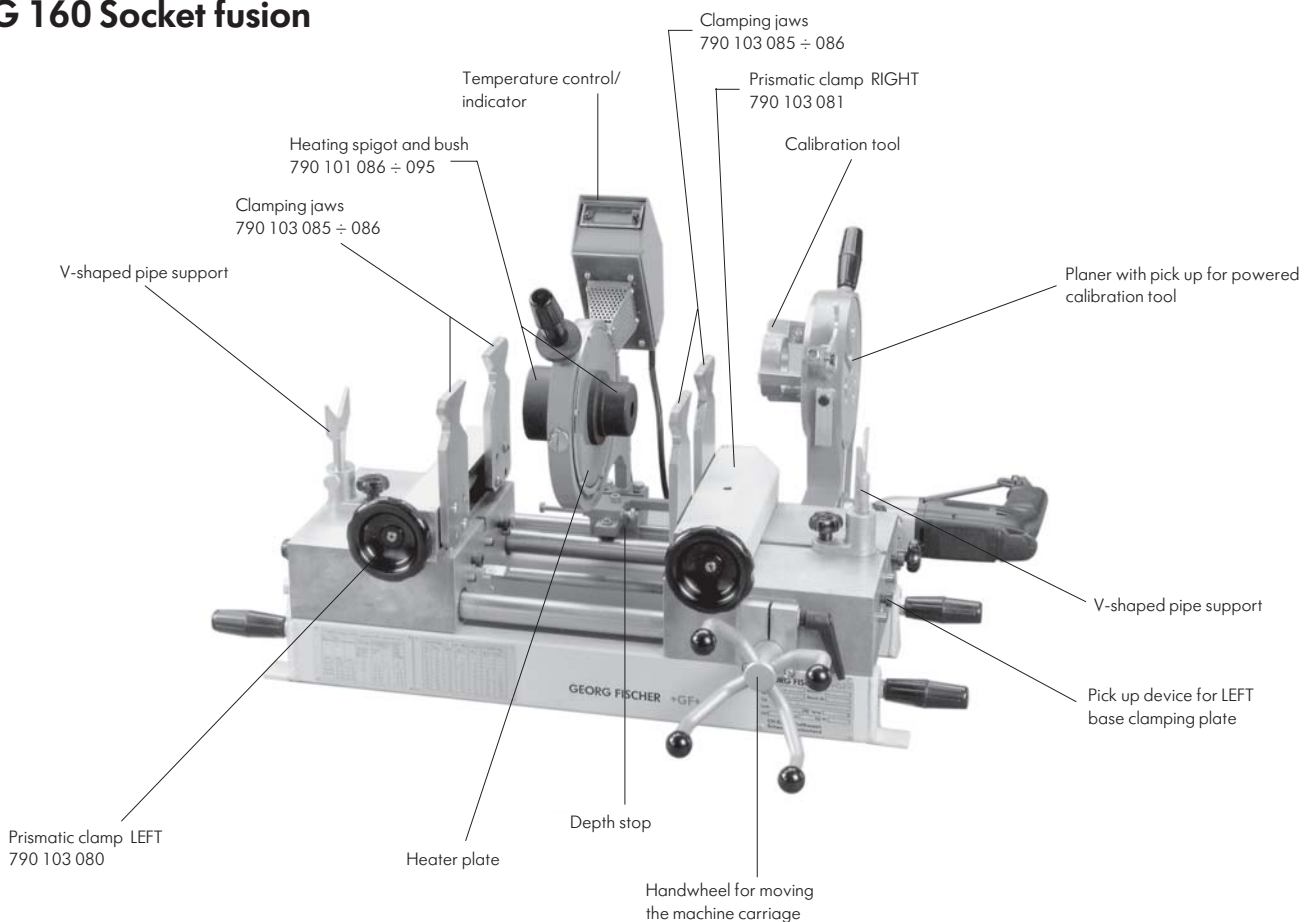
SG 160 Butt fusion



Version with outer base clamp plate
RIGHT (outer left side)



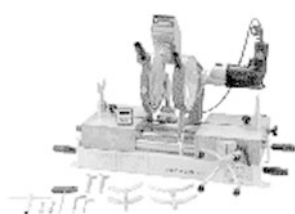
SG 160 Socket fusion



SG 160

Combined butt and socket fusion machine

for fusion jointing PP, PE and PVDF pipes and fittings size range for butt fusion d 32 - 160



Mobile, very compact and universal plastic fusion machine 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 +/- 4°C 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	kg	
16 - 160	230 V	790 103 031	44.900	
16 - 160	115 V	790 103 033	45.000	

SG 160 Accessories for butt fusion

Base clamping plates



- 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	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	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



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	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

SG 160 Accessories for socket fusion

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	kg
L	790 103 080	5.849
R	790 103 081	5.839

Clamping jaws



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

Depth stop, complete



Code	kg
790 103 090	0.610

Heating spigots and bushes



d [mm]	Code	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	1.157
90	790 101 094	1.697
110	790 101 095	2.090

Stiffener plate



d [mm]	Code	kg
110	790 101 098	0.264



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	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



Back stop

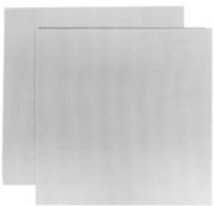
- Prevents the components from slipping out of the clamping device during fusion.

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



SG 160 Special accessories for butt and socket fusion Special transport crate

Code	kg
790 103 099	108.000



SG 160 Wearing parts Set PTFE fabric sheets

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

d [mm]	Code	kg
160	790 103 306	0.023



Set planer blades

Code	kg
790 103 548	0.039

SG 315 Butt fusion machine

for butt fusion jointing of PP, PE and PVDF pipes and fittings



The industrial butt fusion machine for pressure piping systems. Extremely sturdy design use in the workshop and on job sites.

Sizes d 90-315 mm, all pressure ratings up to max. PE d 280 SDR 11; PP d 280 SDR 7.25 and PVDF d 315 SDR 21.

Base machine

- high precision, distortion-free and robust machine base
- handwheel for easy moving of machine carriage
- fusion pressure is maintained with a user friendly torque limiter
- exact pressure adjustment via direct load transfer
- hardened, hard-chrome plated guide shafts for extreme loads
- handle for safe transport of machine
- optional outer, horizontally removeable clamping devices available

Planer

- 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, 1100 W
- for your personal safety, a safety switch has been integrated to prevent unintentional start-up in the working position

Heater

- high-performance and precision heater with electronic temperature control 1700 W
- high accuracy of +/- 4°C over the entire heating surface
- heater temperature can be set exactly with digital LCD
- high quality, non-stick, easy to change PTFE coating
- with digital temperature indicator

Additional standard equipment included in the base model

- inner left and right clamping plates, d 315 mm, for pick up of reduction clamping inserts d 90 - 280 mm
- pipe supports d 315 mm for support of fittings
- timer to clock fusion times
- tool set specified to machine
- Including transport packaging, without accessories

d-d [mm]	Performance	Code	kg	
90 - 315	230 V	790 130 001	128.000	
90 - 315	115 V	790 130 002	128.000	

SG 315-S Butt fusion machine

for butt fusion jointing of PP, PE and PVDF pipes and fittings



The industrial butt fusion machine for pressure piping systems. The S-version (S = segment) additionally allows prefabrication of segments. Sizes d 90-315 mm, all pressure ratings up to max. PE d 280 SDR 11; PP d 280 SDR 7.25 and PVDF d 315 SDR 21.

Base machine

- integrated swivel tables for equalization of wall offset transverse to axial direction, for segment fusion up to 30°
- optional outer, horizontally removeable clamping devices available
- high precision, distortion-free and robust machine base
- handwheel for easy moving of machine carriage
- fusion pressure is maintained with a user friendly torque limiter
- exact pressure adjustment via direct load transfer
- hardened, hard-chrome plated guide shafts for extreme loads
- handle for safe transport of machine

Planer

- 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, 1100 W
- for your personal safety, a safety switch has been integrated to prevent unintentional start-up in the working position

Heater

- high-performance and precision heater with electronic temperature control 1700 W
- high accuracy of +/- 4°C over the entire heating surface
- heater temperature can be set exactly with digital LCD
- high quality, non-stick, easy to change PTFE coating
- with digital temperature indicator

Additional standard equipment included in the base model

- inner left and right clamping plates, d 315 mm, for pick up of reduction clamping inserts d 90 - 280 mm
- pipe supports d 315 mm for support of fittings
- timer to clock fusion times
- tool set specified to machine
- Including transport packaging, without accessories

d-d [mm]	Performance	Code	kg	
90 - 315	230 V	790 130 003	150.000	
90 - 315	115 V	790 130 004	143.000	

SG 315-D Butt fusion machine

for butt fusion jointing of PP, PE and PVDF pipes and fittings



The industrial butt fusion machine for pressure piping systems. Extremely sturdy design use in the workshop and on job sites.

Equipped with a load cell and a digital display of the fusion force.
Sizes d 90-315 mm, all pressure ratings up to max. PE d 280 SDR 11;
PP d 280 SDR 7.25 and PVDF d 315 SDR 21.

Base machine

- high precision, distortion-free and robust machine base
- handwheel for easy moving of machine carriage
- fusion pressure is maintained with a user friendly torque limiter
- exact pressure adjustment via direct load transfer
- hardened, hard-chrome plated guide shafts for extreme loads
- handle for safe transport of machine
- digital display
- optional outer, horizontally removeable clamping devices available

Planer

- 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, 1100 W
- for your personal safety, a safety switch has been integrated to prevent unintentional start-up in the working position

Heater

- high-performance and precision heater with electronic temperature control 1700 W
- high accuracy of +/- 4°C over the entire heating surface
- heater temperature can be set exactly with digital LCD
- high quality, non-stick, easy to change PTFE coating
- with digital temperature indicator

Additional standard equipment included in the base model

- inner left and right clamping plates, d 315 mm, for pick up of reduction clamping inserts d 90 - 280 mm
- pipe supports d 315 mm for support of fittings
- timer to clock fusion times
- tool set specified to machine
- Including transport packaging, without accessories

d-d [mm]	Performance	Code	kg	
90 - 315	230 V	790 130 031	150.000	
90 - 315	115 V	790 130 032	128.000	

SG 315-SD Butt fusion machine

for butt fusion jointing of PP, PE and PVDF pipes and fittings



The industrial butt fusion machine for pressure piping systems.
The S-version (S = segment) additionally allows prefabrication of segments.
Sizes d 90-315 mm, all pressure ratings up to max. PE d 280 SDR 11;
PP d 280 SDR 7.25 and PVDF d 315 SDR 21.

Base machine

- integrated swivel tables for equalization of wall offset transverse to axial direction, for segment fusion up to 30°
- optional outer, horizontally removeable clamping devices available
- high precision, distortion-free and robust machine base
- handwheel for easy moving of machine carriage
- fusion pressure is maintained with a user friendly torque limiter
- exact pressure adjustment via direct load transfer
- hardened, hard-chrome plated guide shafts for extreme loads
- handle for safe transport of machine
- load cell
- digital display

Planer

- 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, 1100 W
- for your personal safety, a safety switch has been integrated to prevent unintentional start-up in the working position

Heater

- high-performance and precision heater with electronic temperature control 1700 W
- high accuracy of +/- 4°C over the entire heating surface
- heater temperature can be set exactly with digital LCD
- high quality, non-stick, easy to change PTFE coating
- with digital temperature indicator

Additional standard equipment included in the base model

- inner left and right clamping plates, d 315 mm, for pick up of reduction clamping inserts d 90 - 280 mm
- pipe supports d 315 mm for support of fittings
- timer to clock fusion times
- tool set specified to machine
- Including transport packaging, without accessories

d-d [mm]	Performance	Code	kg	
90 - 315	230 V	790 130 033	143.000	
90 - 315	115 V	790 130 034	145.000	

SG 315 / SG 315 - S Accessories

Outer base clamping plates



d [mm]	Type	Code	kg	
315	L	790 130 011	6.203	
315	R	790 130 012	6.191	



Reduction clamping inserts

d [mm]	narrow Code	wide Code	kg	
90	790 112 098	790 112 088	1.000	
110	790 112 099	790 112 089	0.945	
125	790 112 100	790 112 090	0.957	
140	790 112 101	790 112 091	0.950	
160	790 112 102	790 112 092	0.980	
180	790 112 103	790 112 093	0.931	
200	790 112 104	790 112 094	0.880	
225	790 112 105	790 112 095	0.940	
250	790 112 106	790 112 096	0.760	
280	790 112 107	790 112 097	0.750	



Back stop

Code	kg	
790 130 013	2.750	



Set planer blades

Code	kg	
790 130 023	0.044	



Special transport crate

Code	kg	
790 130 026	143.000	

Workshop butt fusion machines

- **WM 315** (90 mm - 315 mm)
- **WM 630** (315 mm - 630 mm)
- **WM 1200** (630 mm - 1200 mm)

Butt fusion machines for the jointing of PP, PE and PVDF pipes and fittings.

Accurate single or series prefabrication of segmented fittings like bends, Y, X and T- fittings for high pressure applications.

The sturdy clamping units are assembled with the reduction inserts according the specific machine range, both clamps are from 0° to maximum 22,5° turnable.

Automated machines with data recording and touch screen operation are available.



WM 315 Workshop butt fusion machine

Machine WM 315



- Machine for jointing segmented fittings like bends from d90 - 315 mm for high pressure applications
- To produce T and Y fittings from 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 main clamping tools are mounted on supports each of which can be adjusted transversely
- Each clamping tool can be turned a max. 22.5° and assembled with a set of reductions d90 - 280mm
- 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	kg
90 - 315	400 V/4620 W	790 118 060	464.000

Machine WM 315 CNC



- Machine for jointing segmented fittings like bends from d90 - 315 mm for high pressure applications
- To produce T and Y fittings from d90 - 250 mm, special accessories are required
- Fully automated fusion process by the use of state of the art PLC and touch screen

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 main clamping tools are mounted on supports each of which can be adjusted transversely to the pipe axis
- Each clamping tool can be turned a max. 22.5° and assembled with a set of reductions d90 - 280mm
- 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	kg
90 - 315	400 V/4620 W	790 118 009	465.000

WM 315 Accessories

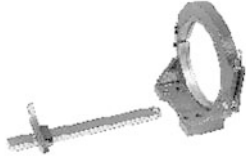
Flange adapter clamping unit



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

d-d [mm]	Code	kg
90 - 315	790 118 031	24.000

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
- L = left
- R = right

d [mm]	Type	Code	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	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

Clamping insert, narrow, d 315



- 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	kg
315	790 118 028	0.741

Set of pipe supports



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

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	kg
90 - 250	790 118 032	140.000



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	kg
90 - 250	790 118 033	175.000



Back stop

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

Code	kg
790 118 026	4.000



Set planer of blades

- Blade has 2 cutting edges (1 set = 2 pieces)

description	Code	kg
long	790 118 042	0.220
short	790 118 043	0.045

WM 630 Plus Workshop butt fusion machine

Machine WM 630 Plus



- 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	kg	
315 - 630	400 V/15600 W	790 108 020	2300.000	



Machine 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

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

WM 630 Plus Accessories

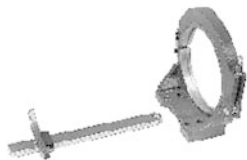
Flange adaptor clamping unit



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

d-d [mm]	Code	kg
315 - 630	790 108 031	235.000

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	kg
630	L	790 108 017	150.000
630	R	790 108 018	150.000

Reduction clamping inserts, narrow



- 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

d [mm]	Code	kg
315	790 116 020	3.622
355	790 116 021	3.267
400	790 116 022	2.508
450	790 116 023	2.273
500	790 117 238	3.700
560	790 117 239	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

d [mm]	Code	kg
315	790 116 012	3.698
355	790 116 013	3.727
400	790 116 014	3.836
450	790 116 015	3.276
500	790 117 012	4.500
560	790 117 013	4.900

Set of pipe supports



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



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	kg
315 - 500	790 108 032	570.000



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	kg
315 - 500	790 108 033	770.000



Back stop

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

Code	kg
790 108 026	32.000



1 Set planer blades

- (1 set = 4 blades)

Code	kg
790 108 043	0.518

WM 1200 Workshop butt fusion machine

Machine WM 1200 with SUVI®50



- Machine for jointing 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	kg	
630 - 1200	400 V/41000 W	790 126 001	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	kg	
630 - 900	790 126 011	2926.000	

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

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

X-fitting clamping unit

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

d-d [mm]	Code	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

Code	kg	
790 126 014	1000.000	



1 Set planer blades

- 4 blades mounted on each planer disk
- (1 set = 4 blades)

Code	kg	
790 126 043	0.500	

Construction Site Machines

TM 160 - 315	(40 mm - 315 mm)
KL 500 - 630	(200 mm - 630 mm)
GF 400 - 1200	(125 mm - 1200 mm)

Heating element butt fusion machines for pipes and fittings made of PE, PP, PB and PVDF for use on building sites.

Robust, reliable design for use in hard conditions, like gas and water distribution, water treatment or mining projects.

The machines could be equipped with the welding recorder WR 200, comfortable automatic CNC machines up to 630 mm are available. Additional to the machines displayed in this catalogue, different power supplies could be offered on request (e.g. 115 Volt, 230 Volt triple phase).

The presented accessories are providing proper solutions for the various demands on construction site.



TM 160 - 250 - 315 ECO Butt fusion machines

TM 160 - 250 - 315 ECO Machine complete



- 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	kg
TM 160 ECO	40 - 160	230V/1900W	790 150 010	86.000
TM 250 ECO	75 - 250	230V/3270W	790 151 010	144.000
TM 315 ECO	90 - 315	230V/3870W	790 152 010	157.000

TM 160 - 250 - 315 Base machine



- Tubular frame provides increased rigidity and easy movement of the machine on the ground
- 4 lifting lugs
- Metal shield provides protection of the main welding area
- The movable (sliding) 3rd clamp allows easy and time-saving fixation of bends or tees without need of additional tools
- Double-sided heating element pull-off mechanism to optimise the change-over phase
- Clamps are hinged on the top side and tilting. Whenever necessary, the four clamps can be quickly removed
- Quick-action and drip-proof oil connections located in a protected position
- The base machine can be tilted to achieve a second operating position

Type	d-d [mm]	Code	kg
TM 160	40 - 160	790 150 001	22.000
TM 250	75 - 250	790 151 001	47.000
TM 315	90 - 315	790 152 001	52.500

TM 160 - 250 - 315 ECO Planer



- Powerful parallel planer for single or double-sided facing of pipe ends
- Reliable torque transmission via robust worm-gear device
- Ergonomic, weight-balanced handling
- Optimised cutting geometry for even and chatter-free planing
- Safety switch to prevent undesired start-up
- Self-locking mechanism in working position
- 115 V on request!

Type	d-d [mm]	Performance	Code	kg
TM 160 ECO	40 - 160	230V/630W	790 150 014	7.000
TM 250 ECO	75 - 250	230V/1200W	790 151 014	14.000
TM 315 ECO	90 - 315	230V/1200W	790 152 014	17.000



TM 160 - 250 - 315 Heating element

- High performance, electronically controlled heating element
- Uniform temperature distribution over the entire heating surface
- High-quality, non-stick PTFE-coating with long service life
- Temperature indicator integrated into the handle
- Easy placement in the correct working position with automatic heater release mechanism
- 115 V on request!

Type	d-d [mm]	Performance	Code	kg
TM 160	40 - 160	230V/1200W	790 114 004	5.402
TM 250	75 - 250	230V/2000W	790 115 004	7.800
TM 315	90 - 315	230V/2500W	790 112 083	9.800



TM 160 - 250 - 315 Case

- For safe storage of planer and heating element

Type	d-d [mm]	Code	kg
TM 160	40 - 160	790 150 295	4.800
TM 250	75 - 250	790 151 027	8.000
TM 315	90 - 315	790 152 027	8.800



TM 160 - 250 - 315 ECO Hydraulic unit

- Clearly visible, vibration-free pressure gauge with precision scaling
- Compact construction with protection frame
- Fine adjustment of pressure
- High pressure consistency during cooling phase
- Fix attached hydraulic hose
- 115 V on request!

Type	Performance	Code	kg
TM 160 ECO	230V/370W	790 150 013	21.500
TM 250 - 315 ECO	230V/370W	790 152 009	22.000



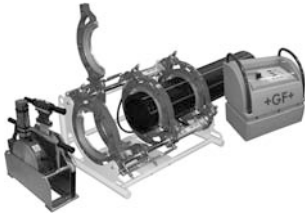
TM 160 - 250 - 315 Temperature controller

- Electronic temperature control
- Accurate adjustment (set point) of heating element temperature
- Digital display of current and set-point temperature
- 115 V on request!

Type	Performance	Code	kg
TM 160- 315 ECO	230V/3000W	790 152 006	2.000

TM 160 - 250 - 315 TOP Butt fusion machines

TM 160 - 250 - 315 TOP Machine complete



- High quality, flexible and user-friendly heating element Butt Fusion machine for fusion joining 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	kg
TM 160 TOP	40 - 160	230V/1900W	790 150 011	125.000
TM 250 TOP	75 - 250	230V/3270W	790 151 011	204.000
TM 315 TOP	90 - 315	230V/3870W	790 152 026	217.000

TM 160 - 250 - 315 Base machine



- Tubular frame provides increased rigidity and easy movement of the machine on the ground
- 4 lifting lugs
- Metal shield provides protection of the main welding area
- The movable (sliding) 3rd clamp allows easy and time-saving fixation of bends or tees without need of additional tools
- Double-sided heating element pull-off mechanism to optimise the change-over phase
- Clamps are hinged on the top side and tilting. Whenever necessary, the four clamps can be quickly removed
- Quick-action and drip-proof oil connections located in a protected position
- The base machine can be tilted to achieve a second operating position

Type	d-d [mm]	Code	kg
TM 160	40 - 160	790 150 001	22.000
TM 250	75 - 250	790 151 001	47.000
TM 315	90 - 315	790 152 001	52.500

TM 160 - 250 - 315 TOP Planer



- Powerful parallel planer for single or double-sided facing of pipe ends
- Reliable torque transmission via robust worm-gear device
- Optimised cutting geometry for even and chatter-free planing
- Ergonomic, weight-balanced handling
- Safety microswitch to prevent undesired start-up
- Self-locking mechanism in working position

Type	Performance	Code	kg
TM 160 TOP	230V/630W	790 150 000	7.000
TM 250 TOP	230V/1200W	790 151 000	14.000
TM 315 TOP	230V/1200W	790 152 000	17.000

TM 160 - 250 - 315 Heating element



- High performance, electronically controlled heating element
- Uniform temperature distribution over the entire heating surface
- High-quality, non-stick PTFE-coating with long service life
- Temperature indicator integrated into the handle
- Easy placement in the correct working position with automatic heater release mechanism

Type	d-d [mm]	Performance	Code	kg
TM 160	40 - 160	230V/1200W	790 114 004	5.402
TM 250	75 - 250	230V/2000W	790 115 004	7.800
TM 315	90 - 315	230V/2500W	790 112 083	9.800



TM 160 - 250 - 315 Case

- For safe storage of planer and heating element

Type	d-d [mm]	Code	kg
TM 160	40 - 160	790 150 295	4.800
TM 250	75 - 250	790 151 027	8.000
TM 315	90 - 315	790 152 027	8.800



TM 160 - 250 - 315 TOP Hydraulic unit

- Shock-absorbing plastic housing in attractive design
- Internal aluminium frame providing high rigidity and resistance
- Intuitive control panel provided with digital indication of hydraulic pressure, electronic heating element temperature controller, 2-channel welding timer
- Precise pressure setting and fine adjusting
- Push-button operation of machine carriage
- Pressure release button for safe changeover from equalization to heat soak phase
- Integrated power outlets for planer, heating element
- Integrated additional power socket (230V-AC)
- Integrated interface for welding recorder
- Oil level control and refilling without disassembling the unit

Type	Performance	Code	kg
TM 160 - 315 TOP	230V/370W	790 151 004	31.000



TM 160 - 250 - 315 TOP Hydraulic hose package

- Flexible hydraulic hoses, with drip-proof, quick-coupling action

Type	Code	kg
TM 160 - 315 TOP	790 152 003	4.000



TM 160 - 250 - 315 TOP Clamp tightening knobs

Type	Code	kg
TM 160 TOP	790 150 225	1.000
TM 250 - 315 TOP	790 152 225	0.198

TM 160 - 250 - 315 WR



TM 160 - 250 - 315 WR Machine complete

- 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
- Including transport packaging (wooden crate), without accessories and without reduction inserts

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



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

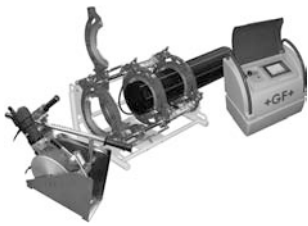
Data Management:

- 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 [mm]	Code	kg
WR 200	230 V	350x300x250 mm	790 119 401	5.000
WR 200 CYRILLIC	230 V	350x300x250 mm	790 119 425	5.500

TM 160 - 250- 315 CNC

Machine complete



- 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	kg	
TM 160 CNC	40 - 160	230V/2000W	790 150 012	125.000	
TM 250 CNC	75 - 250	230V/3150W	790 151 012	195.000	
TM 315 CNC	90 - 315	230V/3750W	790 152 012	215.000	

TM 250 –315 CNC Machine with automatic heating element

Machine complete



- 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	kg	
TM 250 CNC	75 - 250	230V/3150W	790 151 071	195.000	
TM 315 CNC	90 - 315	230V/3750W	790 152 071	230.000	

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	wide Code	kg
40	790 114 027	790 114 023	0.280
50	790 114 016	790 114 009	0.326
63	790 114 017	790 114 010	0.305
75	790 114 018	790 114 011	0.290
90	790 114 019	790 114 012	0.277
110	790 114 020	790 114 013	0.260
125	790 114 021	790 114 014	0.265
140	790 114 022	790 114 015	0.178



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	wide Code	kg
75	790 115 029	790 115 028	0.902
90	790 115 016	790 115 008	0.940
110	790 115 017	790 115 009	0.841
125	790 115 018	790 115 010	0.829
140	790 115 019	790 115 011	0.647
160	790 115 020	790 115 012	0.727
180	790 115 021	790 115 013	0.676
200	790 115 022	790 115 014	0.733
225	790 115 023	790 115 015	0.477



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	wide Code	kg
90	790 112 098	790 112 088	1.000
110	790 112 099	790 112 089	0.945
125	790 112 100	790 112 090	0.957
140	790 112 101	790 112 091	0.950
160	790 112 102	790 112 092	0.980
180	790 112 103	790 112 093	0.931
200	790 112 104	790 112 094	0.880
225	790 112 105	790 112 095	0.940
250	790 112 106	790 112 096	0.760
280	790 112 107	790 112 097	0.750



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

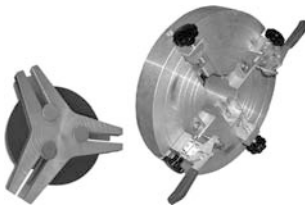
d-d [mm]	Code	kg	
40 - 140	790 114 156	17.000	
75 - 225	790 115 156	63.000	
90 - 280	790 112 156	78.000	



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	Right Code	kg	
TM 160	790 150 205	790 150 206	0.800	
TM 250	790 151 205	790 151 206	1.822	
TM 315	790 152 205	790 152 206	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	kg	
40 - 160	790 319 007	5.800	
75 - 250	790 115 044	5.594	
90 - 315	790 112 073	11.000	



TM 160 - 250 - 315 TOP Clamp tightening knobs

Type	Code	kg	
TM 160 TOP	790 150 225	1.000	
TM 250 - 315 TOP	790 152 225	0.198	



TM 160 - 250 - 315 Hydraulic adapter hose package

- Flexible hydraulic hoses, with drip-proof, quick-coupling action
- Required when assembling a TM base machine to GF or KL hydraulic units
- Required when connecting a GF or KL base machine to the TM TOP hydraulic unit
- Hoses with quick action couplers (M3/8" – F 1/4" , F 3/8" – M 1/4")

Code	kg	
790 150 003	3.862	



TM 160 - 250 - 315 Set planer blades

- (1 set = 2 blades)

d-d [mm]	Code	kg	
40 - 160	790 113 056	0.059	
75 - 250	790 115 024	0.083	
90 - 315	790 112 110	0.056	



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	kg	
TM 160	790 150 050	9.000	
TM 250	790 151 050	11.000	
TM 315	790 152 050	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 joint by connecting the hydraulic unit hoses to a second base machine

Type	Code	kg	
TM 250 - 315	790 151 002	1.500	



TM 160 - 250 - 315 RU Repair unit

- Repair unit with 2 clamping devices and a pair of cylinders, especially convenient for butt-fusion joints in narrow trenches or inside of buildings and industrial plants.
- Heating element, planer, hydraulic unit and reduction inserts could be used from the corresponding TM machine.

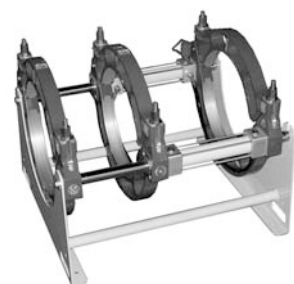
Type	Code	kg	
RU 160	790 150 045	8.800	
RU 250	790 151 045	18.000	
RU 315	790 152 045	20.000	



TM 160 - 250 - 315 RU Outer Clamp

- An additional clamping device can be mounted on the cylinders to improve the alignment of the components to be welded.

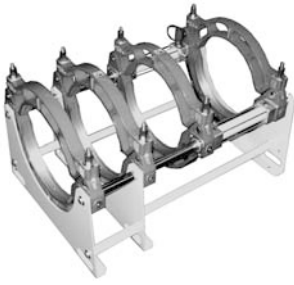
Type	Code	kg	
RU 160	790 150 046	2.000	
RU 250	790 151 046	4.400	
RU 315	790 152 046	5.400	



FL 250 - 315 Base Machine

- Consisting of robust welded frame, 3 horizontally mounted clamping devices and two hydraulic cylinders with quick-action couplers to connect the flexible hoses
- Clamps are hinged and tilting, whenever necessary the clamps can be quickly removed
- The machine-core, formed by the 3 clamps and the cylinders can also be easily removed from the frame, allowing to use the machine for repair works or in narrow trenches
- Heating element, planer, hydraulic unit and reduction inserts could be used from the corresponding TM machine

Description	Code	kg	
FL 250	790 151 051	34.500	
FL 315	790 152 051	39.500	



FL 250 – 315 Outer Clamp

- The FL 250 – 315 base machine can be fitted with an additionally outer clamping device
- Improves the alignment of the components to be welded

Description	Code	kg	
FL 250	790 151 303	13.000	
FL 315	790 152 303	14.000	



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	kg	
TM 160 - 250 - 315	790 152 052	0.370	

GF 400 Butt fusion machine

Machine GF 400 complete, 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

d-d [mm]	Performance	Code	kg
125 - 400	400 V/5700 W	790 127 010	355.000

Base machine



- High precision design, distortion-free and sturdy machine frame
- Good accessibility thanks to 35° inclination
- Hardened and hard chrome-plated guide shafts for extreme loads
- Smooth-running cylinder guides with mechanical seals
- Hydraulic connections protected and integrated in base clamping unit for more flexibility when clamping piping components
- Heater release mechanism to optimize the changeover phase
- For the purpose of welding bends and T-pieces the 2. clamping element is fast and relocatable without losing stability on the guiding shafts
- Double clamping device for secure hold and exact radial and axial alignment of components
- Machine specific tool set

d-d [mm]	Code	kg
125 - 400	790 127 002	95.000

Planer



- Powerful parallel planer for single or double-sided facing of pipe ends
- Right-angled facing due to wide bedding, with side stop for single-sided facing
- Optimised cutting geometry for even and chatter-free planing
- Planer with Stop mechanism for safety
- Safety microswitch to prevent undesired start-up

d-d [mm]	Performance	Code	kg
125 - 400	230 V/1100 W	790 127 003	47.500

Heating element



- High temperature accuracy over the entire heating surface
- High-quality, non-stick PTFE-coating with long service life
- Easy placement in the correct working position with heater release mechanism

d-d [mm]	Performance	Code	kg
125 - 400	230 V/3500 W	790 127 004	15.800

Hydraulic unit



- Compact and robust with two handles for carrying
- Precise hydraulic control for consistent fusion pressure
- Variable, fine adjustment of pressure
- Clearly visible, vibration-free pressure gauge with precision scaling
- Accumulator for pressure equalization during the cooling phase
- Easy level control and refilling of hydraulic oil

Performance	Code	kg
400 V/1500 W	790 127 006	40.000



Control box

- Contains all safety and functional components such as static relay, FI protective switch, temperature control
- Compact unit in steel box with enamel-coated protective frame

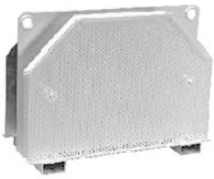
Performance	Code	kg	
400 V	790 127 008	15.500	



Hydraulic hose package

- Flexible hydraulic hoses, with drip-proof, quick-coupling action

Code	kg	
790 112 085	4.000	



Case

- For safe storage of planer and heating element

Code	kg	
790 127 005	30.000	



Machine GF 400 complete, 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

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

GF 400 CNC Butt fusion machine

Machine complete



- 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.

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

GF 400 Accessories

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	wide Code	kg
125	790 112 100	790 112 090	0.957
140	790 112 101	790 112 091	0.950
160	790 112 102	790 112 092	0.980
180	790 112 103	790 112 093	0.931
200	790 112 104	790 112 094	0.880
225	790 112 105	790 112 095	0.940
250	790 112 106	790 112 096	0.760
280	790 112 107	790 112 097	0.750
315	790 127 111	790 127 101	1.830
355	790 127 112	790 127 102	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	kg
125 - 355	790 127 156	30.000

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	kg
Right	790 127 113	7.000

Flange adapter clamping unit



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

d [mm]	Code	kg
400	790 127 045	24.600

Crane



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

Code	kg
790 127 027	66.579



Weight compensator

- Spring loaded weight compensator
- Force adjustable from 22 to 25 kg
- Use with crane GF 400 (790127027)

Code	kg	
790 127 269	0.001	



1 Set planer blades

- Blade has 2 cutting edges (1 set = 2 blades)

Code	kg	
790 112 110	0.056	

GF 500 Butt fusion machine

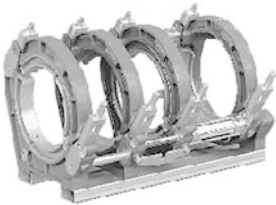
Machine GF 500 complete



- High quality, long-lasting heating element butt fusion machine for fusion jointing PP and PE pipes and fittings. Size range d 200-500 mm, for complete pressure range up to PN 16.
- Including transport packaging (wooden crate), without accessories and without reduction inserts

d-d [mm]	Performance	Code	kg
200 - 500	400 V/6250 W	790 116 040	498.000

Base machine



- High precision design, distortion-free and sturdy machine frame
- Good accessibility thanks to 35° inclination
- Hardened and hard chrome-plated guide shafts for extreme loads
- Smooth-running cylinder guides with mechanical seals
- Hydraulic connections protected and integrated in base clamping unit for more flexibility when clamping piping components
- Heater release mechanism to optimize the changeover phase
- For the purpose of welding bends and T-pieces the 2. clamping element is fast and relocatable without losing stability on the guiding shafts
- Double clamping device for secure hold and exact radial and axial alignment of components
- Machine specific tool set

d-d [mm]	Code	kg
200 - 500	790 116 002	169.000

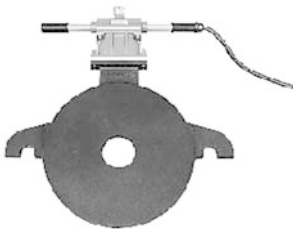
Planer



- Powerful parallel planer for single or double-sided facing of pipe ends
- Right-angled facing due to wide bedding, with side stop for single-sided facing
- Optimised cutting geometry for even and chatter-free planing
- Planer with Stop mechanism for safety
- Safety microswitch to prevent undesired start-up

d-d [mm]	Performance	Code	kg
200 - 500	400 V/750 W	790 116 003	58.000

Heating element



- High temperature accuracy over the entire heating surface
- High-quality, non-stick PTFE-coating with long service life
- Easy placement in the correct working position with heater release mechanism

d-d [mm]	Performance	Code	kg
200 - 500	400 V/4000 W	790 116 004	25.900

Hydraulic unit



- Compact and robust with two handles for carrying
- Precise hydraulic control for consistent fusion pressure
- Variable, fine adjustment of pressure
- Clearly visible, vibration-free pressure gauge with precision scaling
- Accumulator for pressure equalization during the cooling phase
- Easy level control and refilling of hydraulic oil

Performance	Code	kg
400 V/1500 W	790 116 039	41.000



Control box

- Contains all safety and functional components such as static relay, FI protective switch, temperature control
- Compact unit in steel box with enamel-coated protective frame

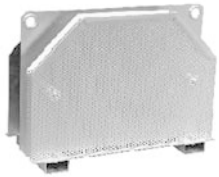
Voltage	Code	kg	
400 V	790 116 038	15.500	



Hydraulic hose package

- Flexible hydraulic hoses, with drip-proof, quick-coupling action

Code	kg	
790 112 085	4.000	



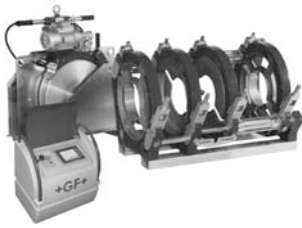
Case

- For safe storage of planer and heating element

Code	kg	
790 116 006	38.000	

GF 500 CNC Butt fusion machine

Machine complete



- 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.

Type	d-d [mm]	Performance	Code	kg	
GF 500 CNC	200 - 500	400 V/6300 W	790 154 001	480.000	

GF 500 Accessories

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 200/d 225, the reduction clamping insert 790 116 015 must also be used

d [mm]	narrow Code	wide Code	kg
200	790 116 016	790 116 008	4.217
225	790 116 017	790 116 009	4.172
250	790 116 018	790 116 010	3.569
280	790 116 019	790 116 011	3.612
315	790 116 020	790 116 012	3.698
355	790 116 021	790 116 013	3.727
400	790 116 022	790 116 014	3.836
450	790 116 023	790 116 015	3.276



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	kg
250 - 450	790 116 156	162.000

Chamfered upper clamp

- 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	kg
Right	790 116 268	0.001
Left	790 116 269	0.001



Flange adapter clamping unit

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

d [mm]	Code	kg
500	790 116 045	22.000



Crane

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

Code	kg
790 116 064	66.579



Weight compensator

- Spring loaded weight compensator
- Force adjustable from 35 to 45 kg
- Use with crane GF/KL 500

Code	kg	
790 116 027	12.500	



1 Set planer blades

- Blade has 2 cutting edges (1 set = 2 blades)

Code	kg	
790 340 045	157.000	

KL 500 Butt fusion machine

KL 500 TOP2 Machine complete



- 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

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

Base machine



- Double clamping device for secure hold and exact radial and axial alignment of components
- Good accessibility thanks to 45° inclination
- drip-proof quick action coupling for the connection of the hydraulic hoses

d-d [mm]	Code	kg
200 - 500	790 340 001	157.000

Planer



- Powerful parallel planer for single or double-sided facing of pipe ends
- Load transfer via maintenance-free, robust chain
- Optimised cutting geometry for even and chatter-free planing
- Planer with Stop mechanism for safety
- Safety microswitch to prevent undesired start-up

d-d [mm]	Performance	Code	kg
200 - 500	400 V/750 W	790 340 002	55.000

Heating element



- High performance, electronically controlled heating element
- High temperature accuracy over the entire heating surface
- High-quality, non-stick PTFE-coating with long service life

d-d [mm]	Performance	Code	kg
200 - 500	400 V/4000 W	790 116 004	25.900

Remote control



- Electronic temperature control
- Accurate adjustment of heating element temperature

Code	kg
790 340 011	3.800

Hydraulic hose package



- Flexible hydraulic hoses, with drip-proof, quick-coupling action

Code	kg
790 112 085	4.000



Case

- For safe storage of planer and heating element

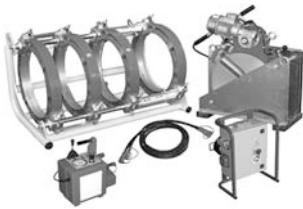
Code	kg	
790 116 006	38.000	



Hydromat

- Clearly visible, vibration-free pressure gauge with precision scaling
- Fine adjustment of pressure
- High pressure consistency during cooling phase

Performance	Code	kg	
230 V/1500 W	790 340 005	31.000	



KL 500 TOP1 Machine complete

- 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

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

KL 500 Accessories

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 200/d 225, the reduction clamping insert 790 116 015 must also be used

d [mm]	narrow Code	wide Code	kg
200	790 116 016	790 116 008	4.217
225	790 116 017	790 116 009	4.172
250	790 116 018	790 116 010	3.569
280	790 116 019	790 116 011	3.612
315	790 116 020	790 116 012	3.698
355	790 116 021	790 116 013	3.727
400	790 116 022	790 116 014	3.836
450	790 116 023	790 116 015	3.276

Reduction clamping inserts-set



- 4 wide and 4 narrow clamping inserts of each dimension

d-d [mm]	Code	kg
250 - 450	790 116 156	162.000

Chamfered upper clamp



- Necessary for welding short-leg bends dn 500 mm

Code	kg
790 340 261	8.000

Flange adapter clamping unit



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

d [mm]	Code	kg
500	790 116 045	22.000

Crane



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

Description	Code	kg
Electrical motor	790 340 064	0.010

Weight compensator



- Spring loaded weight compensator
- Force adjustable from 35 to 45 kg
- Use with crane GF/KL 500

Code	kg
790 116 027	12.500



Control box

- Contains all safety and functional components such as static relay, FI protective switch, temperature control
- Compact unit in steel box with enamel-coated protective frame

Voltage	Code	kg	
400 V	790 116 038	15.500	



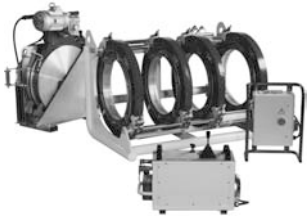
1 Set planer blades

- Blade has 2 cutting edges (1 set = 2 blades)

Code	kg	
790 340 045	157.000	

GF 630 Butt fusion machine

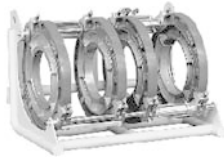
Machine GF 630 complete



- High quality, long-lasting heating element butt fusion machine for fusion jointing PP, PE pipes and fittings. Size range d 315-630 mm, for complete pressure range up to PN 16.
- Including transport packaging (wooden crate), without accessories and without reduction inserts

d-d [mm]	Performance	Code	kg
315 - 630	400 V/11000 W	790 117 001	617.000

Base machine



- High precision design, distortion-free and sturdy machine frame
- Good accessibility thanks to 45° inclination
- Hardened and hard chrome-plated guide shafts for extreme loads
- Smooth-running cylinder guides with mechanical seals
- Hydraulic connections protected and integrated in base clamping unit for more flexibility when clamping piping components
- Heater release mechanism
- Double clamping device for secure hold and exact radial and axial alignment of components
- Machine specific tool set

d-d [mm]	Code	kg
315 - 630	790 117 002	222.000

Planer



- Powerful parallel planer for single or double-sided facing of pipe ends
- Right-angled facing due to wide bedding, with side stop for single-sided facing
- Optimised cutting geometry for even and chatter-free planing
- Planer with Stop mechanism for safety
- Safety microswitch to prevent undesired start-up

d-d [mm]	Performance	Code	kg
315 - 630	400 V/1500 W	790 117 003	99.000

Heating element



- High performance heating element with electronic, continuously adjustable temperature control
- High temperature accuracy over the entire heating surface
- High-quality, non-stick PTFE-coating with long service life
- Easy placement in the correct working position with heater release mechanism

d-d [mm]	Performance	Code	kg
315 - 630	400 V/8000 W	790 117 004	39.000

Hydraulic unit



- Compact and robust with two handles for carrying
- Precise hydraulic control for consistent fusion pressure
- Variable, fine adjustment of pressure
- Clearly visible, vibration-free pressure gauge with precision scaling
- Accumulator for pressure equalization during the cooling phase
- Easy level control and refilling of hydraulic oil

Code	kg
790 116 039	41.000



Control box

- 400 V
- Contains all safety and functional components such as static relay, FI protective switch, temperature control
- Compact unit in steel box with enamel-coated protective frame

Code	kg	
790 117 038	27.600	



Case

- For safe storage of planer and heating element

Code	kg	
790 117 006	55.000	



Hydraulic hose package

- Flexible hydraulic hoses, with drip-proof, quick-coupling action

Code	kg	
790 112 085	4.000	

GF 630 CNC Butt fusion machine

Machine complete



- 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.

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

GF 630 Accessories

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 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	wide Code	kg
315	790 116 020	790 116 012	3.698
355	790 116 021	790 116 013	3.727
400	790 116 022	790 116 014	3.836
450	790 116 023	790 116 015	3.276
500	790 117 238	790 117 012	4.500
560	790 117 239	790 117 013	4.900

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

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

Chamfered upper clamp



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

Code	kg
790 345 233	0.001

Flange adapter clamping unit



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

d [mm]	Code	kg
630	790 117 029	29.000

Hoist unit, complete



- 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	kg
790 117 102	206.000

Crane

- Consisting of frame work, rotating arm, and cabling to connect a 400 V / 3 Ph hoist 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
- The motor is **not** content of the delivery

Code	kg	
790 117 087	173.000	

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	kg	
790 117 094	0.010	



1 Set planer blades

- Blade has 2 cutting edges (1 set = 2 blades)

Code	kg	
790 117 041	0.229	

KL 630 Butt fusion machine

KL 630 TOP2 Machine complete



- 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

d-d [mm]	Performance	Code	kg
315 - 630	400 V/11000 W	790 345 012	627.000

Base machine



- Double clamping device for secure hold and exact radial and axial alignment of components
- Good accessibility thanks to 45° inclination
- drip-proof quick action coupling for the connection of the hydraulic hoses

d-d [mm]	Code	kg
315 - 630	790 117 002	222.000

Planer



- Powerful parallel planer for single or double-sided facing of pipe ends
- Load transfer via maintenance-free, robust chain
- Optimised cutting geometry for even and chatter-free planing
- Planer with Stop mechanism for safety
- Safety microswitch to prevent undesired start-up

d-d [mm]	Performance	Code	kg
315 - 630	400 V/1500 W	790 117 003	99.000

Heating element



- High performance, electronically controlled heating element
- High temperature accuracy over the entire heating surface
- High-quality, non-stick PTFE-coating with long service life

d-d [mm]	Performance	Code	kg
315 - 630	400 V/8000 W	790 117 004	39.000

Remote control



- Electronic temperature control
- Accurate adjustment of heating element temperature

Code	kg
790 340 003	3.800

Case



- For safe storage of planer and heating element

Code	kg
790 117 006	55.000



Hydraulic hose package

- Flexible hydraulic hoses, with drip-proof, quick-coupling action

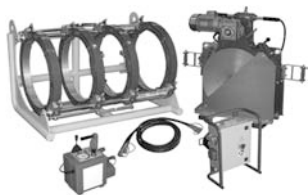
Code	kg	
790 112 085	4.000	



Hydromat

- Clearly visible, vibration-free pressure gauge with precision scaling
- Fine adjustment of pressure
- High pressure consistency during cooling phase

Performance	Code	kg	
230 V/1500 W	790 340 005	31.000	



KL 630 TOP1 Machine complete

- 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 plunger
- Machine provided with Hydromat hydraulic unit
- Including transport packaging (wooden crate), without accessories and without reduction inserts

d-d [mm]	Performance	Code	kg	
315 - 630	400 V/11000 W	790 345 000	627.000	

KL 630 Accessories

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 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	wide Code	kg
315	790 116 020	790 116 012	3.698
355	790 116 021	790 116 013	3.727
400	790 116 022	790 116 014	3.836
450	790 116 023	790 116 015	3.276
500	790 117 238	790 117 012	4.500
560	790 117 239	790 117 013	4.900

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

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

Chamfered upper clamp



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

Code	kg
790 345 233	0.001

Flange adapter clamping unit



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

d [mm]	Code	kg
630	790 117 029	29.000

Control box



- 400 V
- Contains all safety and functional components such as static relay, FI protective switch, temperature control
- Compact unit in steel box with enamel-coated protective frame

Code	kg
790 117 038	27.600

Hoist unit, complete



- 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	kg
790 117 102	206.000

Crane

- Consisting of frame work, rotating arm, and cabling to connect a 400 V / 3 Ph hoist 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
- The motor is **not** content of the delivery

Code	kg	
790 117 087	173.000	

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	kg	
790 117 094	0.010	



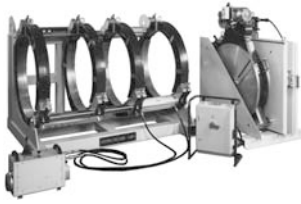
1 Set planer blades

- Blade has 2 cutting edges (1 set = 2 blades)

Code	kg	
790 117 041	0.229	

GF 800 Butt fusion machine

Machine GF 800 complete



- 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

d-d [mm]	Performance	Code	kg
500 - 800	400 V/15000 W	790 123 025	1546.000

Base machine



- Heater release mechanism
- High precision design, distortion-free and sturdy machine frame
- Good accessibility thanks to 45° inclination
- Hardened and hard chrome-plated guide shafts for extreme loads
- Smooth-running cylinder guides with mechanical seals
- Hydraulic connections protected and integrated in base clamping unit for more flexibility when clamping piping components
- Double clamping device for secure hold and exact radial and axial alignment of components
- Machine specific tool set

d-d [mm]	Code	kg
500 - 800	790 123 023	0.001

Planer



- Powerful parallel planer for single or double-sided facing of pipe ends 400 V/1500 W
- Load transfer via maintenance-free chain drive
- Right-angled facing due to wide bedding, with side stop for single-sided facing
- Optimised cutting geometry for even and chatter-free planing
- Planer with Stop mechanism for safety
- Safety microswitch to prevent undesired start-up

d-d [mm]	Performance	Code	kg
500 - 800	400 V/1500 W	790 123 003	185.000

Heating element



- High temperature accuracy over the entire heating surface
- High-quality, non-stick PTFE-coating with long service life
- Easy placement in the correct working position with heater release mechanism

d-d [mm]	Performance	Code	kg
500 - 800	400 V/12000 W	790 123 004	56.000



Hydraulic unit

- Maximum pressure 200 bar
- Compact and robust with two handles for carrying
- Precise hydraulic control for consistent fusion pressure
- Variable, fine adjustment of pressure
- Clearly visible, vibration-free pressure gauge with precision scaling
- Accumulator for pressure equalization during the cooling phase
- Easy level control and refilling of hydraulic oil

Performance	Code	kg
400 V/1500 W	790 123 010	41.000



Control box

- Contains all safety and functional components such as static relay, FI protective switch, temperature control
- Compact unit in steel box with enamel-coated protective frame

Performance	Code	kg
400 V	790 123 009	29.000



Hydraulic hose package

- Flexible hydraulic hoses, with drip-proof, quick-coupling action

Code	kg
790 123 020	0.001



Case

- For safe storage of planer and heating element

Code	kg
790 123 007	226.000

GF 800 Accessories

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	wide Code	kg
500	790 117 238	790 117 012	4.500
560	790 117 239	790 117 013	4.900
630	790 123 219	790 123 011	11.000
710	790 123 220	790 123 012	12.500

Reduction clamping inserts-set

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

Code	kg
790 350 019	0.001



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	kg
790 123 016	270.000



Flange adapter clamping unit

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

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



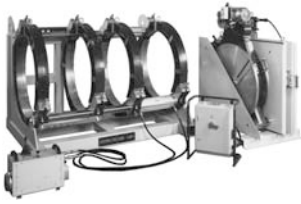
1 Set planer blades

- Blade has 2 cutting edges (1 set = 2 blades)

Code	kg
790 117 041	0.229

GF 1000 Butt fusion machine

Machine GF 1000 complete



- Robust heating element-but fusion machine for jointing PP and PE pipes and fittings
- Size range dn 710 – 1000 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 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

d-d [mm]	Performance	Code	kg
710 - 1000	400 V/19500 W	790 124 025	2528.000

Base machine



- High precision design, distortion-free and sturdy machine frame
- Heater release mechanism
- Good accessibility thanks to 45° inclination
- Hardened and hard chrome-plated guide shafts for extreme loads
- Smooth-running cylinder guides with mechanical seals
- Hydraulic connections protected and integrated in base clamping unit for more flexibility when clamping piping components
- Double clamping device for secure hold and exact radial and axial alignment of components
- Machine specific tool set

d-d [mm]	Code	kg
710 - 1000	790 124 023	0.001

Planer



- Powerful parallel planer for single or double-sided facing of pipe ends
- Right-angled facing due to wide bedding, with side stop for single-sided facing
- Optimised cutting geometry for even and chatter-free planing
- Planer with Stop mechanism for safety
- Safety microswitch to prevent undesired start-up

d-d [mm]	Performance	Code	kg
710 - 1000	400 V/3000 W	790 124 003	308.000

Heating element



- High performance heating element with electronic, continuously adjustable temperature control
- High temperature accuracy over the entire heating surface
- High-quality, non-stick PTFE-coating with long service life

d-d [mm]	Performance	Code	kg
710 - 1000	400 V/15000 W	790 124 004	88.000



Hydraulic unit

- Maximum pressure 200 bar
- Compact and robust with two handles for carrying
- Precise hydraulic control for consistent fusion pressure
- Variable, fine adjustment of pressure
- Clearly visible, vibration-free pressure gauge with precision scaling
- Accumulator for pressure equalization during the cooling phase
- Easy level control and refilling of hydraulic oil

Performance	Code	kg
400 V/1500 W	790 123 010	41.000



Control box

- 400 V
- Contains all safety and functional components such as static relay, FI protective switch, temperature control
- Compact unit in steel box with enamel-coated protective frame

Code	kg
790 123 009	29.000



Case

- For safe storage of planer and heating element

Code	kg
790 124 006	341.000



Hydraulic hose package

- Flexible hydraulic hoses, with drip-proof, quick-coupling action

Code	kg
790 123 020	0.001

GF 1000 Accessories

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	wide Code	kg
710	790 123 220	790 123 012	12.500
800		790 124 011	18.000
900		790 124 012	19.000

Reduction clamping inserts-set

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

Code	kg
790 355 019	0.001



Flange adapter clamping unit

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

Code	kg
790 124 029	153.000



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.)

Code	kg
790 124 016	300.000

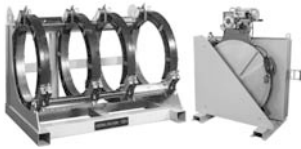


1 Set planer blades

- (1 set = 4 blades)

Code	kg
790 124 021	0.299

GF 1200 Butt fusion machine



Machine GF 1200 complete

- 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

d-d [mm]	Performance	Code	kg
800 - 1200	400 V/20500 W	790 125 025	2932.000



Base machine

- High precision design, distortion-free and sturdy machine frame
- Heater release mechanism
- Good accessibility thanks to 45° inclination
- Hardened and hard chrome-plated guide shafts for extreme loads
- Smooth-running cylinder guides with mechanical seals
- Hydraulic connections protected and integrated in base clamping unit for more flexibility when clamping piping components
- Double clamping device for secure hold and exact radial and axial alignment of components
- Tool set specified to machine

d-d [mm]	Code	kg
800 - 1200	790 125 023	0.001



Planer

- Powerful parallel planer for single or double-sided facing of pipe ends
- Load transfer via maintenance-free chain drive
- Right-angled facing due to wide bedding, with side stop for single-sided facing
- Optimised cutting geometry for even and chatter-free planing
- Planer with Stop mechanism for safety
- Safety microswitch to prevent undesired start-up

d-d [mm]	Performance	Code	kg
800 - 1200	400 V/3000 W	790 125 003	335.000



Heating element

- High performance heating element with electronic, continuously adjustable temperature control
- High temperature accuracy over the entire heating surface

d-d [mm]	Performance	Code	kg
800 - 1200	400V/16000 W	790 125 004	101.000



Case

- For safe storage of planer and heating element

Code	kg
790 125 006	412.000



Hydraulic unit

- Maximum pressure 200 bar
- Compact and robust with two handles for carrying
- Precise hydraulic control for consistent fusion pressure
- Variable, fine adjustment of pressure
- Clearly visible, vibration-free pressure gauge with precision scaling
- Accumulator for pressure equalization during the cooling phase
- Easy level control and refilling of hydraulic oil

Performance	Code	kg
400 V/1500 W	790 123 010	41.000



Control box

- Contains all safety and functional components such as static relay, FI protective switch, temperature control
- Compact unit in steel box with enamel-coated protective frame

Performance	Code	kg
400 V	790 123 009	29.000

GF 1200 Accessories



Reduction clamping inserts, wide

- 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 800/d 900, the reduction clamping insert d 1000, code 790 125 011, must also be used.

d [mm]	Code	kg	
800	790 124 011	18.000	
900	790 124 012	19.000	
1000	790 125 011	20.000	

Reduction clamping inserts-set

- 8 wide clamping inserts dn 800, 900, 1000 mm

Code	kg	
790 360 019	0.001	



Flange adapter clamping unit

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

Code	kg	
790 125 029	231.000	



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.)

Code	kg	
790 125 016	308.000	



1 Set planer blades

- (1 set = 4 blades)

Code	kg	
790 125 021	0.405	

WR 200

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



Machines fitted with WR 200

Type	Performance	Code	kg
TM 160 WR	230V/1910W	790 150 015	136.000
TM 160 WR CYRILLIC	230V/1910W	790 150 016	136.000
TM 250 WR	230V/3280W	790 151 015	210.000
TM 250 WR CYRILLIC	230V/3280W	790 151 016	210.000
TM 315 WR	230V/3880W	790 152 025	224.000
TM 315 WR CYRILLIC	230V/3880W	790 152 016	224.000
GF 400 WR	400V/5710W	790 127 015	350.000
GF 400 WR	230V/5710W	790 127 020	350.000
GF 400 WR CYRILLIC	230V/5710W	790 127 021	350.000
GF 500 WR	400V/6260W	790 116 075	475.000
GF 500 WR CYRILLIC	400V/6260W	790 116 074	475.000
KL 500 TOP 1 WR	400V/6260W	790 340 008	475.000
KL 500 TOP 2 WR	400V/6260W	790 340 035	475.000
KL 500 TOP 2 WR CYRILLIC	400V/6260W	790 340 036	475.000
GF 630 WR	400V/11010W	790 117 075	600.000
GF 630 WR CYRILLIC	400V/11010W	790 117 074	600.000
KL 630 TOP 1 WR	400V/11010W	790 345 008	600.000
KL 630 TOP 1 WR CYRILLIC	400V/11010W	790 345 011	600.000
KL 630 TOP 2 WR	400V/11010W	790 345 036	600.000
GF 800 WR	400V/15010W	790 123 075	1550.000
GF 800 WR CYRILLIC	400V/15010W	790 123 074	1550.000
GF 1000 WR	400V/19510W	790 124 075	3000.000
GF 1000 WR CYRILLIC	400V/19510W	790 124 074	3000.000
GF 1200 WR	400V/20510W	790 125 075	3210.000
GF 1200 WR CYRILLIC	400V/20510W	790 125 074	3210.000

Electro fusion units

MSA 210 monovalent (39,5 V fusion voltage)

MSA 230 monovalent (39 – 40 V fusion voltage)

MSA 330 polyvalent (8 – 48 V fusion voltage)

MSA 340 polyvalent (8 – 48 V fusion voltage)

Reliable and easy to operate electro fusion units for various applications like water and gas distribution, irrigation or industrial applications.

The range of machines includes monovalent (limited fusion tension range) and polyvalent welding units. Manual fusion data input or comfortable and safe bar code reading is provided by the units. The functionality to trace the welding and component data - including automatic recording of geo data - is supported within the product line.



MSA 210

MSA 210 Manual Electrofusion Unit



Monovalent electrofusion unit (fusion voltage 39,5 Volt) with easy manual entry of fusion time by the operator according to the fitting requirements. The unit can be used to weld +GF+ electrofusion fittings up to a nominal diameter of 500 mm SDR 17. Suitable for jointing in series, temperature excess protected. The unit stores the last fusion time and generates a consecutive fusion counter. A buzzer indicates the start and the end of the fusion cycle.

Technical Data

Ambient temperature	-10°C to +40°C
Mains voltage	180 V - 250 V AC
Mains frequency	45 Hz - 65 Hz
Fusion voltage	39,5 V
Internal Fuse	20 A
Power consumption	max. 2750 W
Protection	IP 65
Mains cable	4 m
Fusion cable	3 m
Connector	4,0 mm / 90
Dimensions (WxHxD)	270 x 480 x 150 mm
Weight incl. cables	ca. 21 kg
Display	LED 1 x 4 N, 7 segments
Size display	50 x 18 mm
Type size	14 mm
Warranty	12 months

Description	Code	kg	
Standard edition	790 128 001	22.879	

MSA 230 family

MSA 230 Basic

Manual Electrofusion unit with jointing data recording



Monovalent electrofusion unit (fusion voltage 39,0 – 40,0 Volt) with manual data entry and recording of jointing data and operator identification code. Easy to handle, robust machine for the whole product range of ELGEF fittings (diameter up to dn 630). 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, operating instructions.

To read out the fusion protocols the data transfer cable (790 128 112) is required. No need for dedicated software, therefore no XP/VISTA compatibility issues.

Technical Data

Fusion data entry	manual
Ambient temperature	-10°C - +45°C
Mains voltage	230 V (190 - 265 V)
Mains frequency	50 Hz (40 ÷ 70 Hz)
Fusion voltage	39 ÷ 40 V 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
Warranty	12 months

Type	Description	Code	kg	
MSA 230 Basic	straight adapter clips 4.0 -> 4.7 mm	790 128 006	22.000	



MSA 230 Standard Electrofusion unit with jointing data recording

Monovalent electrofusion unit (fusion voltage 39,0 – 40,0 Volt) equipped with barcode reader pen or 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 Polybrand version supports the input of fusion barcodes 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 XP/VISTA compatibility issues.

Technical Data

Fusion data entry	barcode or manual
Ambient temperature	-10°C to +45°C
Mains voltage	230 V (190 - 265 V)
Mains frequency	50 Hz (40 ÷ 70 Hz)
Fusion voltage	39 ÷ 40 V 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
Warranty	12 months

Scope of Delivery

MSA 230 Standard Pen	Barcode reader pen with pouch, straight adapter clips 4.0 ->4.7 mm
MSA 230 Standard Scanner	Barcode scanner with pouch, straight adapter clips 4.0 ->4.7 mm

Type	Code	kg
MSA 230 Standard Pen	790 128 007	22.000
MSA 230 Standard Scanner	790 128 009	22.616
MSA 230 Standard Pen Polybrand	790 128 027	22.000
MSA 230 Standard Scanner Polybrand	790 128 029	22.000



MSA 230 All-In Electrofusion unit with jointing data recording

Monovalent electrofusion unit (fusion voltage 39,0 – 40,0 Volt) equipped with barcode reader pen or 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 Polybrand version supports the input of fusion barcodes 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. To the “All-In” version a cable drum for safe and time-saving cable storage is already assembled, also the data transfer cable is in the scope of delivery. No need for dedicated software, therefore no XP/VISTA compatibility issues. Inclusive 1 pair of straight adapter clips 4.0 ->4.7 mm, operating instructions.

Technical Data

Fusion data entry	barcode or manual
Ambient temperature	-10°C to +45°C
Mains voltage	230 V (190 - 265 V)
Mains frequency	50 Hz (40 ÷70 Hz)
Fusion voltage	39 ÷ 40 V AC
Internal Fuse	75 A (max. 90 A)
Power consumption	2.75 kW (max. 3.5 kW)
Power plug	Schuko
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
Warranty	12 months

Scope of Delivery

MSA 230 All-In Pen	Barcode reader pen with pouch, data transfer cable, cables drum, straight adapter clips 4.0 -> 4.7 mm
MSA 230 All-In Scanner	Barcode scanner with pouch, data transfer cable, cables drum, straight adapter clips 4.0 ->4.7 mm

Type	Code	kg
MSA 230 All-In Pen	790 128 008	23.000
MSA 230 All-In Scanner	790 128 010	23.000
MSA 230 All-In Pen Polybrand	790 128 028	23.000
MSA 230 All-In Scanner Polybrand	790 128 030	23.000

MSA 330

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 barcode reader pen or 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, pouch for optical pen or 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

description	Code	kg
Barcode reader pen, transport case	790 160 004	30.000
Barcode scanner, transport case	790 160 005	30.000
Barcode reader pen, transport case, Russian language	790 160 020	30.000
Barcode scanner, transport case, Russian language	790 160 021	30.000



MSA 330 - 115 Volt 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 is guiding through the complete jointing process. For fusion data input a barcode scanner is connected (manual data input configurable). The entire welding process is controlled and regulated with energy output compensation depending on ambient temperature and indication of cooling time. The unit is suitable for jointing in series. Robust aluminum housing with convenient cable rewind and handle for weight balanced transport. Fusion cable detachable with military connector. Inclusive 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	90 V - 135 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	10 m
Fusion cable	3 m
Interface	USB (type A) for PC communication and software updates
Dimensions (WxHxD)	280 x 480 x 320 mm
Weight incl. cables	25 kg
Display	LCD (20 alphanumerical char. x 4 lines), contrast adjustment, blue background, white characters
Languages	10

description	Code	kg
Barcode scanner, transport case	790 160 017	32.000

MSA 340

MSA 340 Traceability Electrofusion unit with 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

description	Code	kg
Barcode scanner, transport case	790 160 007	30.000
Barcode scanner, transport case, Russian language	790 160 022	30.000



MSA 340 - 115 Volt Traceability Electrofusion unit with GPS function

High performance electrofusion unit providing an entire documentation of fusion and traceability data (ISO 12176). GPS coordinates of fusion location added automatically to each fusion record. Optional ability of operator ID and job number recognition. 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. Rental time period programmable by the machine owner, unit blocks on expiring date, reset by password. An intuitive operation menu is guiding through the complete jointing process. For fusion data input a barcode scanner is connected (manual data input configurable). The entire welding process is controlled and regulated with energy output compensation depending on ambient temperature and indication of cooling time. The unit is suitable for jointing in series. Robust aluminum housing with convenient cable rewind and handle for weight balanced transport. Fusion cable detachable with military connector. Inclusive 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	90 V - 135 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	10 m
Fusion cable	3 m
Interface	USB (type A) for PC communication and software updates
Dimensions (WxHxD)	280 x 480 x 320 mm
Weight incl. cables	ca. 25 kg
Display	LCD (20 alphanumerical char. x 4 lines), contrast adjustment, blue background, white characters
Languages	10

description	Code	kg
Barcode scanner, transport case	790 160 014	32.000

MSA 210 - 230 - 330 - 340 Accessories

MSA Rent Guardian Installation CD



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

Code	kg	
790 160 154	0.001	

Geothermal cables kit



- Ability to joint in parallel 2 couplers of a Y fitting
- Recommended in combination with ELGEF fittings
- Compatible with MSA 210-230, MSA 330-340, MSA 250 – 400, MSA 250 – 400 PLUS
- Connector: 4 mm (90°)
- Cable length: 290 mm
- Welding voltage: 0 – 48 Volt
- Welding current: 40 A (max.)
- Content of delivery: 2 cables, pouch, protection caps, operation manual

Code	kg	
790 160 176	0.385	

Cables Drum



- Fast and safe cable winding
- Easy to fix to MSA 210 and MSA 230 units
- MSA 230 All-In already assembled with the cables drum

Type	Code	kg	
MSA 210 / MSA 230	790 128 117	0.700	

Data Transfer Cable



- RS 232 data transfer from MSA 230 to PC

Type	Code	kg	
MSA 230	790 128 112	0.125	

Barcode Reader Pen



- Automated data entry to MSA 230 / MSA 330 Electrofusion units

Type	Code	kg	
MSA 230 / MSA 330	790 128 111	0.125	

Pouch For Barcode Reader Pen



- Suitable for barcode reader pens MSA 230 – 330 and others like 799350335 used with MSA PLUS and SUVI units
- 2 separate pockets for storage of reader and adapter clips

Type	Code	kg	
MSA 230 / MSA 330	790 128 110	0.075	

Barcode Scanner



- Automated data entry to MSA 230 / MSA 330 Electrofusion units

Type	Code	kg	
MSA 230 / MSA 330 / MSA 340	790 128 119	0.250	



Pouch For Barcode Scanner

- Suitable for barcode scanner MSA 230 (790128119) and MSA 330/340 (790160003)
- 2 separate pockets for storage of reader and adapter clips

Type	Code	kg	
MSA 230 / MSA 330 / MSA 340	790 128 120	0.125	



Transport Box

- Large, robust transport box

Type	Dimension	Code	kg	
MSA 230	320x310x510	790 128 121	6.300	
MSA 330 / MSA 340	370x350x520	790 160 010	8.000	



Adapter

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

Type	Code	kg	Description	
4,0 mm	799 350 340	0.058	Angle adapter, black	
4,7 mm	799 350 341	0.057	Angle adapter, grey	
4,7 mm	799 350 462	0.014	Adapter, white	

Tools for Installation of Plastic Pipes

Pipe Cutter

Chamfering tools

Outer bead remover

Roller supports

Alignment tools

Correct installation of piping systems needs professional accessories and equipment.

A rectangular, smooth cut of the pipe ends is a must by using electro fusion technology.

Roller supports could reduce the dragging pressure during the butt-fusion process to a minimum.



Saws



KS 355 Plastic pipe cutter

- The KS 355 is the ideal tool for simple right angle precision cutting of PVC, PE and PP pipes, Size range d 160 to 355 mm with a wall thickness up to 40 mm. Including transport box.
- Unique clamping mechanism, no additional tools like belts, chains or reduction inserts necessary

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



KS 355 Saw blade Ø 180x30

Code	kg	
790 202 011	0.450	

Tools for pipeline construction

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	kg
40 - 200	790 309 001	1.607
50 - 315	790 309 002	3.265

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	kg
16 - 200	790 309 003	1.024
63 - 400	790 309 004	2.548

Spare blade for chamfering tool



Description	d-d [mm]	Code	kg
Spare blade	16 - 400	790 309 015	0.010
Counter blade	16 - 400	790 309 016	0.012

Outer bead remover



d-d [mm]	Code	kg
110 - 160	790 109 241	1.850
140 - 250	790 109 242	1.950
180 - 315	790 109 243	2.697
280 - 450	790 109 244	2.700

Replacement blades



d-d [mm]	Code	kg
110 - 160	790 109 233	0.004
140 - 315	790 109 234	0.020

Accessories for job sites



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	kg	
20 - 315	790 109 110	3.599	



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	kg	
110 - 630	790 109 109	3.943	



Alignment Tool

- To align and position pipes in the dimension range d 110 - 400 mm. The pipes are clamped in the vice, the axial movement takes place by a chain drive. The chain is rotated by the ratcheted (square 19 mm).

Article	Code	kg	
Alignment Tool	790 109 108	15.000	
Ratch	790 109 107	1.220	

Code-Index

Code	Page	Code	Page	Code	Page
790 101 045	24	790 105 057	7	790 109 328	11
790 101 086	23	790 105 058	5	790 109 329	11
790 101 087	23	790 105 059	5	790 109 330	11
790 101 088	23	790 105 060	5	790 109 331	11
790 101 089	23	790 105 061	5	790 109 332	11
790 101 090	23	790 105 062	5	790 109 333	11
790 101 091	23	790 105 063	7	790 109 334	11
790 101 092	23	790 105 081	6	790 109 335	11
790 101 093	23	790 105 082	6	790 109 336	11
790 101 094	23	790 105 083	6	790 109 337	11
790 101 095	23	790 105 084	6	790 109 338	11
790 101 098	23	790 105 085	6	790 109 339	11
790 103 010	22	790 105 086	6	790 109 340	11
790 103 011	22	790 105 087	6	790 109 341	11
790 103 019	22	790 105 088	6	790 109 342	11
790 103 020	22	790 105 089	7	790 109 343	11
790 103 021	22	790 105 090	7	790 109 347	8
790 103 022	22	790 105 096	6	790 109 348	8
790 103 023	22	790 105 098	6	790 112 073	49
790 103 024	22	790 105 126	6	790 112 083	42
790 103 025	22	790 105 128	6	790 112 085	53
790 103 026	22	790 105 136	5	790 112 088	29
790 103 027	22	790 105 137	5	790 112 089	29
790 103 031	21	790 105 138	5	790 112 090	29
790 103 033	21	790 105 139	5	790 112 091	29
790 103 039	22	790 105 140	5	790 112 092	29
790 103 040	22	790 108 009	36	790 112 093	29
790 103 041	22	790 108 017	36	790 112 094	29
790 103 042	22	790 108 018	36	790 112 095	29
790 103 043	22	790 108 020	34	790 112 096	29
790 103 044	22	790 108 025	36	790 112 097	29
790 103 045	22	790 108 026	37	790 112 098	29
790 103 046	22	790 108 031	36	790 112 099	29
790 103 047	22	790 108 032	37	790 112 100	29
790 103 048	22	790 108 033	37	790 112 101	29
790 103 059	22	790 108 043	37	790 112 102	29
790 103 060	22	790 108 101	35	790 112 103	29
790 103 061	22	790 109 107	100	790 112 104	29
790 103 062	22	790 109 108	100	790 112 105	29
790 103 063	22	790 109 109	100	790 112 106	29
790 103 064	22	790 109 110	100	790 112 107	29
790 103 065	22	790 109 233	99	790 112 110	49
790 103 066	22	790 109 234	99	790 112 156	49
790 103 067	22	790 109 241	99	790 113 031	13
790 103 068	22	790 109 242	99	790 113 032	13
790 103 080	23	790 109 243	99	790 113 033	13
790 103 081	23	790 109 244	99	790 113 034	13
790 103 085	23	790 109 301	8	790 113 035	13
790 103 086	23	790 109 303	8	790 113 036	13
790 103 090	23	790 109 306	9	790 113 037	13
790 103 099	24	790 109 307	9	790 113 038	13
790 103 160	24	790 109 308	9	790 113 039	13
790 103 161	24	790 109 309	9	790 113 041	13
790 103 162	24	790 109 310	11	790 113 042	13
790 103 163	24	790 109 311	9	790 113 043	13
790 103 164	24	790 109 312	9	790 113 044	13
790 103 165	24	790 109 313	9	790 113 045	13
790 103 166	24	790 109 314	9	790 113 046	13
790 103 167	24	790 109 315	7	790 113 047	13
790 103 168	24	790 109 316	11	790 113 048	13
790 103 306	24	790 109 317	10	790 113 049	13
790 103 548	24	790 109 320	8	790 113 050	13
790 105 051	5	790 109 321	8	790 113 056	13
790 105 052	5	790 109 322	9	790 114 004	42
790 105 053	5	790 109 323	9	790 114 009	48
790 105 054	5	790 109 324	9	790 114 010	48
790 105 055	5	790 109 326	11	790 114 011	48
790 105 056	7	790 109 327	11	790 114 012	48

Code-Index

Code	Page	Code	Page	Code	Page
790 114 013	48	790 117 003	66	790 125 075	85
790 114 014	48	790 117 004	66	790 126 001	38
790 114 015	48	790 117 006	67	790 126 011	39
790 114 016	48	790 117 012	36	790 126 012	39
790 114 017	48	790 117 013	36	790 126 013	39
790 114 018	48	790 117 021	69	790 126 014	39
790 114 019	48	790 117 029	69	790 126 043	39
790 114 020	48	790 117 038	67	790 127 001	53
790 114 021	48	790 117 041	70	790 127 002	52
790 114 022	48	790 117 074	85	790 127 003	52
790 114 023	48	790 117 075	85	790 127 004	52
790 114 027	48	790 117 087	70	790 127 005	53
790 114 156	49	790 117 094	70	790 127 006	52
790 115 004	42	790 117 102	69	790 127 008	53
790 115 008	48	790 117 238	36	790 127 010	52
790 115 009	48	790 117 239	36	790 127 015	85
790 115 010	48	790 118 009	31	790 127 020	85
790 115 011	48	790 118 011	32	790 127 021	85
790 115 012	48	790 118 012	32	790 127 027	55
790 115 013	48	790 118 025	32	790 127 045	55
790 115 014	48	790 118 026	33	790 127 101	55
790 115 015	48	790 118 028	32	790 127 102	55
790 115 016	48	790 118 031	32	790 127 111	55
790 115 017	48	790 118 032	32	790 127 112	55
790 115 018	48	790 118 033	33	790 127 113	55
790 115 019	48	790 118 042	33	790 127 156	55
790 115 020	48	790 118 043	11	790 127 269	56
790 115 021	48	790 118 060	31	790 128 001	87
790 115 022	48	790 119 401	45	790 128 006	88
790 115 023	48	790 119 425	45	790 128 007	89
790 115 024	14	790 123 003	75	790 128 008	90
790 115 028	48	790 123 004	75	790 128 009	89
790 115 029	48	790 123 007	76	790 128 010	90
790 115 044	49	790 123 009	76	790 128 027	89
790 115 156	49	790 123 010	76	790 128 028	90
790 116 002	57	790 123 011	77	790 128 029	89
790 116 003	57	790 123 012	77	790 128 030	90
790 116 004	57	790 123 016	77	790 128 110	95
790 116 006	58	790 123 020	76	790 128 111	95
790 116 008	60	790 123 023	75	790 128 112	95
790 116 009	60	790 123 025	75	790 128 117	95
790 116 010	60	790 123 029	77	790 128 119	95
790 116 011	60	790 123 074	85	790 128 120	96
790 116 012	36	790 123 075	85	790 128 121	96
790 116 013	36	790 123 219	77	790 130 001	25
790 116 014	36	790 123 220	77	790 130 002	25
790 116 015	36	790 124 003	78	790 130 003	26
790 116 016	60	790 124 004	78	790 130 004	26
790 116 017	60	790 124 006	79	790 130 011	29
790 116 018	60	790 124 011	80	790 130 012	29
790 116 019	60	790 124 012	80	790 130 013	29
790 116 020	36	790 124 016	80	790 130 023	29
790 116 021	36	790 124 021	80	790 130 026	29
790 116 022	36	790 124 023	78	790 130 031	27
790 116 023	36	790 124 025	78	790 130 032	27
790 116 027	61	790 124 029	80	790 130 033	28
790 116 038	58	790 124 074	85	790 130 034	28
790 116 039	57	790 124 075	85	790 140 010	62
790 116 040	57	790 125 003	81	790 150 000	43
790 116 045	60	790 125 004	81	790 150 001	41
790 116 064	60	790 125 006	81	790 150 003	49
790 116 074	85	790 125 011	83	790 150 010	41
790 116 075	85	790 125 016	83	790 150 011	43
790 116 156	60	790 125 021	83	790 150 012	46
790 116 268	60	790 125 023	81	790 150 013	42
790 116 269	60	790 125 025	81	790 150 014	41
790 117 001	66	790 125 029	83	790 150 015	45
790 117 002	66	790 125 074	85	790 150 016	45

Code-Index

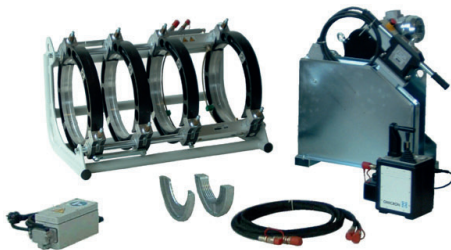
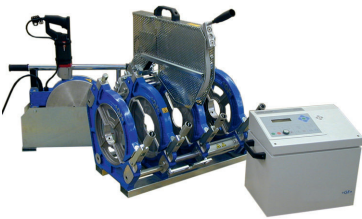
Code	Page
790 150 045	50
790 150 046	50
790 150 050	50
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790 150 206	49
790 150 225	44
790 150 295	42
790 151 000	43
790 151 001	41
790 151 002	50
790 151 004	44
790 151 010	41
790 151 011	43
790 151 012	46
790 151 014	41
790 151 015	45
790 151 016	45
790 151 027	42
790 151 045	50
790 151 046	50
790 151 050	50
790 151 051	50
790 151 071	47
790 151 205	49
790 151 206	49
790 151 303	51
790 152 000	43
790 152 001	41
790 152 003	44
790 152 006	42
790 152 009	42
790 152 010	41
790 152 012	46
790 152 014	41
790 152 016	45
790 152 025	45
790 152 026	43
790 152 027	42
790 152 045	50
790 152 046	50
790 152 050	50
790 152 051	50
790 152 052	51
790 152 071	47
790 152 205	49
790 152 206	49
790 152 225	44
790 152 303	51
790 153 001	54
790 154 001	59
790 155 001	68
790 160 004	91
790 160 005	91
790 160 007	93
790 160 010	96
790 160 014	94
790 160 017	92
790 160 020	91
790 160 021	91
790 160 022	93
790 160 154	95
790 160 176	95
790 202 001	98
790 202 011	98
790 300 019	11
790 300 029	11
790 301 000	15
790 301 006	13

Code	Page
790 301 020	12
790 301 021	12
790 309 001	99
790 309 002	99
790 309 003	99
790 309 004	99
790 309 015	99
790 309 016	99
790 310 012	18
790 310 018	18
790 310 023	18
790 310 034	17
790 310 036	17
790 310 040	18
790 310 041	18
790 310 043	18
790 310 044	18
790 310 046	18
790 310 099	19
790 311 020	12
790 311 021	12
790 311 050	14
790 311 051	14
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790 311 062	14
790 311 063	14
790 311 064	14
790 311 065	14
790 311 066	14
790 311 067	14
790 311 071	14
790 311 072	14
790 319 007	49
790 340 000	63
790 340 001	62
790 340 002	62
790 340 003	71
790 340 005	63
790 340 008	85
790 340 011	62
790 340 035	85
790 340 036	85
790 340 045	61
790 340 064	64
790 340 261	64
790 345 000	72
790 345 008	85
790 345 011	85
790 345 012	71
790 345 036	85
790 345 233	69
790 350 019	77
790 355 019	80
790 360 019	83
799 300 155	7
799 300 156	7
799 300 157	7
799 300 158	7
799 300 159	7
799 300 160	7
799 300 161	7

Code	Page
799 300 162	7
799 300 163	7
799 300 164	7
799 300 165	18
799 350 340	96
799 350 341	96
799 350 462	96

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