

TM 160-250-315 CNC

Machine complete

D



- 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	Performance	d-d [mm]	code	weight [lb]	
TM 160 CNC	230V/2000W	40 - 160	790 150 012 *	275.578	
TM 250 CNC	230V/3150W	75 - 250	790 151 012 *	429.901	
TM 315 CNC	230V/3750W	90 - 315	790 152 012 *	473.994	

GF 400 CNC Butt Fusion Machine

Machine complete

D



- 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.

Performance	d-d [mm]	Type	code	weight [lb]	
400 V/5700 W	125 - 400	GF 400 CNC	790 153 001 *	451.948	

Reduction clamping inserts, narrow

D



- Each code number defines 1 piece of reduction clamping insert

d [mm]	code	weight [lb]	
160	790 112 102 *	2.381	
200	790 112 104 *	2.083	
250	790 112 106 *	1.570	



Reduction clamping inserts, narrow

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

- Each code number 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.

d [mm]	code	weight [lb]	
315	790 127 111 *	4.034	



Reduction clamping inserts set

D

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

d-d [mm]	code	weight [lb]	
125 - 355	790 127 156 *	66.139	



GF 400 Crane

code	weight [lb]	
790 127 027 *	146.782	

GF 630 CNC Butt Fusion Machine

GF 630 CNC



- For fusion jointing of PP and PE pipes and fittings. The automatic CNC, hydraulically-operated butt fusion machines are designed for applications in gas and water distribution piping systems as well as for use in trenches, outdoors or in the workshop.
- The CNC control unit (SUVI® 400) controls and regulates the complete fusion process according to the approved national guidelines (e.g. DVS guidelines).
- All fusion parameters (set/actual comparison) are recorded on a memory card and can be called up and shown on the display. External fusion data processing is easy with the exchangeable memory card or with the build-in interface for the PC, printer or laptop. The integrated error analysis system recognizes deviations from the defined parameters and interrupts the fusion cycle while simultaneously recording the error source.

Planer, Heating element, Hydraulic hose package, Case, Tools set

- Technical features same as for manually operated machines
- Including transport packaging, without accessories and without reduction inserts

SUVI® 400 CNC - Control unit

- This unit consists of the hydraulic and the control unit with data recording
- Automatic control of planing with even-out function
- Automatically controlled temperature of the heating element
- Automatically controlled facing process
- Minimal weight of complete CNC control unit with two handles for carrying
- Tamper-safe, easy data recording with exchangeable memory card (256 kB)
- Clear overview, 2-line LCD with backlighting
- Temperature sensor for accurate recording of ambient temperature
- Serial interface (RS 232, 9-in) to connect PCs or laptops
- Parallel standard printer interface (Centronics)
- Safe two-handed operation according to TÜV for machine carriage movement
- Barcode reader for data input (optional)

Base machine

- Technical features as for manual versions
- Position measurement of the carriage (safety, process monitoring)

Type	d-d [mm]	Performance	code	weight [lb]	
GF 630 CNC	315 - 630	400 V/6300 W	790 155 001	1355.843	



Reduction clamping inserts set

D



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

code	weight [lb]	
790 117 021 *	443.129	



Reduction clamping inserts, wide

D

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

- Each code number 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.

d [mm]	code	weight [lb]	
315	790 116 012 *	8.153	
355	790 116 013 *	8.217	
400	790 116 014 *	8.457	
450	790 116 015 *	7.222	



Reduction clamping inserts, narrow

D

- 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.

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	weight [lb]	
315	790 116 020 *	7.985	
355	790 116 021 *	7.203	
400	790 116 022 *	5.529	
450	790 116 023 *	5.011	

GF 630 Crane

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Description	code	
GF 630 Crane	790 117 023 *	

Facing Tool Blade Sets for GF 160-630



Planer Blades set GF 160

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

d-d [mm]	code	weight [lb]	
40 - 160	790 113 056 *	0.130	



Planer Blades set GF 250

D

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

d-d [mm]	code	weight [lb]	
75 - 250	790 115 024 *	0.183	



Planer Blades set GF 315

D

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

d-d [mm]	code	weight [lb]	
90 - 315	790 112 110 *	0.123	



Planer Blades set GF 500

D

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

code	weight [lb]	
790 116 041 *	0.123	



Planer Blades set GF 630

D

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

code	weight [lb]	
790 117 041 *	0.505	