

Product range

TM Butt fusion machines

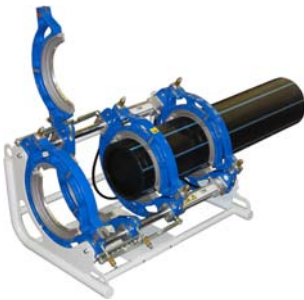
TM 160 - 315 ECO Butt fusion machine



TM 160 - 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
- Consisting of: 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

Type	d-d [mm]	Performance	Code	kg	
TM 160 ECO	40 - 160	230V/1900W	790 150 010	70.000	
TM 250 ECO	75 - 250	230V/3270W	790 151 010	111.000	
TM 315 ECO	90 - 315	230V/3870W	790 152 010	127.000	



TM 160 - 315 Basic machine

- Tubular frame providing increased rigidity and easy movement of the machine on the ground
- 4 lifting lugs
- Metal shield providing protection of the main welding area
- The movable (sliding) 3rd clamp allows easy and time saving fixing 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 protected position
- By rotating of the base machine a second operating position available

Type	d-d [mm]	Code	kg	
TM 160	40 - 160	790 150 001	25.000	
TM 250	75 - 250	790 151 001	50.000	
TM 315	90 - 315	790 152 001	57.000	



TM 160 - 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

Type	d-d [mm]	Performance	Code	kg	
TM 160 ECO	40 - 160	230V/630W	790 150 014	10.000	
TM 250 ECO	75 - 250	230V/1200W	790 151 014	16.000	
TM 315 ECO	90 - 315	230V/1200W	790 152 014	19.000	



TM 160 - 315 Heating element

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

d-d [mm]	Performance	Code	kg
40 - 160	230V/900W	790 114 004	5.500
75 - 250	230V/1700W	790 115 004	9.000
90 - 315	230V/2300W	790 112 083	11.700



TM 160 - 315 Case

- For safe storage of planer and heating element

d-d [mm]	Code	kg
40 - 160	790 114 006	7.500
75 - 250	790 115 005	14.000
90 - 315	790 325 006	18.500



TM 160 - 315 ECO Hydraulic unit

- Fix attached hydraulic hose
- High pressure constance during cooling phase
- Fine adjustment of pressure
- Compact construction with protection frame
- Clearly visible, vibration-free pressure gauge with precision scaling

Type	Performance	Code	kg
TM 160 ECO	230V/370W	790 150 013	21.000
TM 250 - 315 ECO	230V/370W	790 152 009	21.000

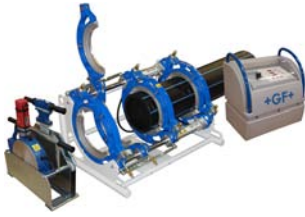


Temperature controller

- Electronic temperature control
- Accurate adjustment (set point) of heating element temperature
- Digital display of current and set-point temperature

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

TM 160 - 315 TOP Butt fusion machine



TM 160- 315 TOP Machine complete

- Including transport packaging (wooden crate), without accessories and without reduction inserts
- Consisting of: innovative TOP hydraulic unit, flexible base machine, powerful planer, high performance heating element, storage case for the planer and heater
- 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

Type	d-d [mm]	Performance	Code	kg	
TM 160 TOP	40 - 160	230V/1900W	790 150 011	81.000	
TM 250 TOP	75 - 250	230V/3270W	790 151 011	122.000	
TM 315 TOP	90 - 315	400V/3870W	790 152 011	138.000	



TM 160 - 315 Basic machine

- Tubular frame providing increased rigidity and easy movement of the machine on the ground
- 4 lifting lugs
- Metal shield providing protection of the main welding area
- The movable (sliding) 3rd clamp allows easy and time saving fixing 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 protected position
- By rotating of the base machine a second operating position available

Type	d-d [mm]	Code	kg	
TM 160	40 - 160	790 150 001	25.000	
TM 250	75 - 250	790 151 001	50.000	
TM 315	90 - 315	790 152 001	57.000	



TM 160 - 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	10.000	
TM 250 TOP	230V/1200W	790 151 000	16.000	
TM 315 TOP	230V/1200W	790 152 000	19.000	



TM 160 - 315 Heating element

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

d-d [mm]	Performance	Code	kg	
40 - 160	230V/900W	790 114 004	5.500	
75 - 250	230V/1700W	790 115 004	9.000	
90 - 315	230V/2300W	790 112 083	11.700	



TM 160 - 315 Case

- For safe storage of planer and heating element

d-d [mm]	Code	kg	
40 - 160	790 114 006	7.500	
75 - 250	790 115 005	14.000	
90 - 315	790 325 006	18.500	



TM 160 - 315 TOP Hydraulic unit

- Interface for welding recorder WR 100 already installed
- Additional power socket (230V-AC)
- Integrated power outlets for planer, heating element
- Pressure release button for safe changeover from equalization to heat soak phase
- Operation of machine carriage executed through push-buttons
- Precise pressure setting and fine adjusting
- Intuitive control panel provided with digital indication of hydraulic pressure, electronic heating element temperature controller, 2-channel welding timer
- Internal aluminium frame providing high rigidity and resistance
- Shock absorbing plastic housing in attractive design

Type	Performance	Code	kg	
TM 160 - 250 TOP	230V/370W	790 151 004	30.000	
TM 315 TOP	400V/370W	790 152 004	30.000	



Hydraulic hose package

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

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

TM 160 - 315 WR



TM 160 - 315 WR Machine complete

- Welding Recorder WR 100 configured to the machine and calibrated to the TOP hydraulic unit
- Consisting of: innovative TOP hydraulic unit, flexible base machine, powerful planer, high performance heating element, storage case for the planer and heater
- 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
- Including transport packaging (wooden crate), without accessories and without reduction inserts

Type	Performance	Code	kg
TM 160 WR	230V/1910W	790 150 015	86.000
TM 250 WR	230V/3280W	790 151 015	127.000
TM 315 WR	400V/3880W	790 152 015	143.000



WR 100 welding recorder

The WR 100 supports you to ensure the quality of the jointing done according to the country specific standards. The concept of the fusion data recording device enables configuration and retrofitting of hydraulically operated butt-fusion machines for field applications, appropriate listing see next page.

The whole fusion sequence is recorded and can be retraced later. The user is guided through all the fusion steps. The selection of the fusion data like the used material, diameter and wall thickness (SDR) is supported by a menu. The highly accurate recording device WR100 controls the fusion process according to the valid national guideline (e.g. DVS, WIS or UNI). Hard plastic PE case IP65 locates a printer on board.

Performance:

- Easy configuration by operator to the different GF/KL machines
- Internal memory fusion protocol with a capacity up to 100 records
- Easy user guidance
- Battery support for data recording (8 hours), no data loss during power interruption
- Configuration: User identity, Job site and order no.
- Different menu languages
- Country specific fusion parameter
- Interchangeable with SUVI® 50 data logger

Data Processing:

- Individual print out directly from serial on board printer
- Collective and individual print out directly from WR 100 to external printer (only HP) (parallel interface 790 119 402)
- Collective and individual protocol download to PC using the hyper terminal communicator of windows (serial interface 790 119 403)

Power connector: Schuko, 16A

Working temperature range: -10°C up to +50°C

Including connecting cables to butt fusion machine

Performance	Dimensions [mm]	Code	kg
230 V	350x300x150 mm	790 119 401	6.000

TM 160 Accessories



TM 160 Reduction clamping inserts, wide

- d 40 - 140 mm
- Each code number defines 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	kg
40	790 114 023	0.300
50	790 114 009	0.320
63	790 114 010	0.300
75	790 114 011	0.300
90	790 114 012	0.280
110	790 114 013	0.245
125	790 114 014	0.265
140	790 114 015	0.180



TM 160 Reduction clamping inserts, narrow

- d 40 - 140 mm
- Each code number defines 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	kg
40	790 114 027	0.300
50	790 114 016	0.310
63	790 114 017	0.310
75	790 114 018	0.280
90	790 114 019	0.255
110	790 114 020	0.225
125	790 114 021	0.200
140	790 114 022	0.140

TM 160 Reduction clamping inserts-set

- 4 wide and 4 narrow clamping inserts of each dimension

d-d [mm]	Code	kg
40 - 140	790 114 156	17.000



Flange adapter clamping unit

- For correct clamping and fusion jointing of short end fittings

d-d [mm]	Code	kg
40 - 160	790 319 007	5.400



1 Set planer blades

- (1 set = 2 blades)

d-d [mm]	Code	kg
40 - 160	790 113 056	0.080

TM 250 Accessoires



TM 250 Reduction clamping inserts, wide

- d 75 - 225 mm
- Each code number defines 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	kg
75	790 115 028	0.815
90	790 115 008	0.835
110	790 115 009	0.825
125	790 115 010	0.785
140	790 115 011	0.735
160	790 115 012	0.695
180	790 115 013	0.660
200	790 115 014	0.715
225	790 115 015	0.465



TM 250 Reduction clamping inserts, narrow

- d 75 - 225 mm
- Each code number defines 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	kg
75	790 115 029	0.740
90	790 115 016	0.715
110	790 115 017	0.690
125	790 115 018	0.680
140	790 115 019	0.625
160	790 115 020	0.595
180	790 115 021	0.520
200	790 115 022	0.455
225	790 115 023	0.390

TM 250 Reduction clamping inserts-set

- 4 wide and 4 narrow clamping inserts of each dimension

d-d [mm]	Code	kg
75 - 225	790 115 156	48.000



Flange adapter clamping unit

- For correct clamping and fusion jointing of short end fittings

d-d [mm]	Code	kg
75 - 250	790 115 044	7.900



1 Set planer blades

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

d-d [mm]	Code	kg
75 - 250	790 115 024	0.060

TM 315 Accessories



TM 315 Reduction clamping inserts, wide

- d 90 - 280 mm
- Each code number defines 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	kg
90	790 112 088	1.000
110	790 112 089	1.050
125	790 112 090	0.988
140	790 112 091	0.975
160	790 112 092	1.062
180	790 112 093	0.988
200	790 112 094	0.937
225	790 112 095	0.975
250	790 112 096	0.937
280	790 112 097	0.800



TM 315 Reduction clamping inserts, narrow

- d 90 - 280 mm
- Each code number defines 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	kg
90	790 112 098	0.995
110	790 112 099	1.285
125	790 112 100	1.245
140	790 112 101	1.205
160	790 112 102	1.135
180	790 112 103	1.010
200	790 112 104	0.950
225	790 112 105	0.865
250	790 112 106	0.770
280	790 112 107	0.560

TM 315 Reduction clamping inserts-set

- 4 wide and 4 narrow clamping inserts of each dimension

d-d [mm]	Code	kg
90 - 280	790 112 156	78.000



Flange adapter clamping unit

- For correct clamping and fusion jointing of short end fittings

d-d [mm]	Code	kg
90 - 315	790 112 073	10.100



1 Set planer blades

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

d-d [mm]	Code	kg
90 - 315	790 112 110	0.115

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