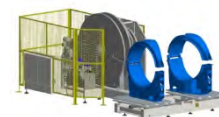
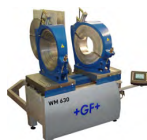


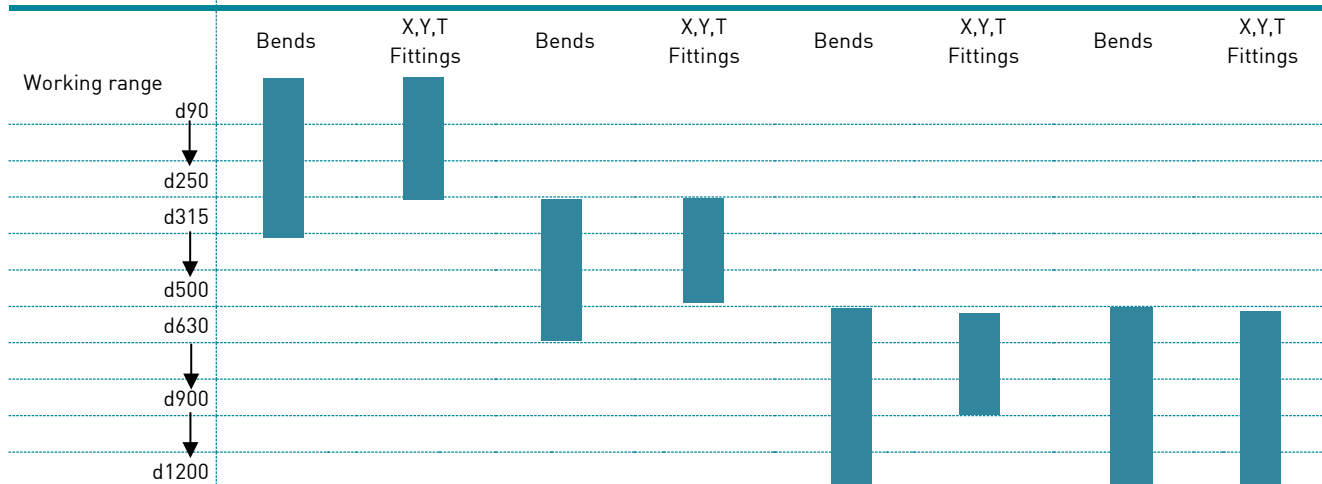
Utility Range


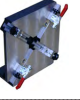

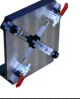




Workshop Machines

Product Range Overview



Characteristics	WM 315	WM 630	WM 1200	WM 1200 PLUS
Max jointing diameter (mm)	315	630	1200	1200
Jointing material	PE, PP, PB, PVDF			
Working range (°C)	-10/+45	-10/+45	-10/+45	-10/+45
Input voltage (Vac)	400	400	400	400
Operation control	Manual, CNC	Manual, CNC	Manual+WR	Manual+WR
Performance (W)	4620	15600	41000	59000
Reduction clamping inserts	✓	✓	✓	✓
Wide clamps for pipes	✓	✓	✓	✓
Narrow clamps for fittings	Optional	Optional		
Flange adapter clamping unit	Optional	Optional		
T, X, Y clamping units	Optional	Optional	Optional	Optional
Fusion protocols, transfer via USB stick	CNC version	CNC version	✓	✓
Weight (Kg)	475	2300	8290	11590



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	WM 630 Accessories	45
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	WM 1200 Plus Accessories	50

WM 315



WM 315 TOP 2.0 Workshop butt fusion machine



- Machine for jointing segmented fittings for applications with pressure piping systems
- Maximum jointing angle 45°
- Dimensional range d90 - 315 mm
- To produce T and Y fittings in the dimensional range d90 - 250 mm, special accessories are required
- **Machine description**
- Intuitive control panel provided with digital indication of hydraulic pressure, electronic heating element temperature controller, 2-channel welding timer
- Automatic pressure control during the cooling time
- Built-in data logger and realtime communication with mobile smartphones (at least iOS 11 or Android 7) during the welding process and fusion data download, working in combination with TOP WeldinAir mobile application
- Precise pressure setting and fine adjusting
- Push-button operation of machine carriage
- The clamping units are mounted on supports, each of which can be adjusted transversely
- Each clamping unit can be turned up to 22.5°
- Each clamping unit is provided with a complete set of reductions d90 - 280 mm
- Precision heating element with electronic temperature control (3000 W)
- High-quality PTFE coating with long service life
- Heating element pull-off mechanism
- Powerful planer (1200 W) with optimized cutting geometry for even and chatter-free planing
- Load transfer via robust chain drive
- Mechanical stops to provide single sided planing and accurate facing depth
- Planer is secured with a mechanical locking system and a micro switch
- Including transport packaging, without accessories

d-d (mm)	Performance	Description	Code	Weight (kg)
90 - 315	400 V/4620 W	With wide clamping units for fittings	790 118 060	475.000
90 - 315	400 V/4620 W	With narrow clamping units for fittings	790 118 014	475.000



WM 315 CNC 4.0
Automatic workshop butt fusion machine



- Machine for jointing segmented fittings for applications with pressure piping systems
- Fully automated fusion process by the use of state of the art PLC and touch screen
- Maximum jointing angle 45°
- Dimensional range d90 - 315 mm
- To produce T and Y fittings in the dimensional range d90 - 250 mm, special accessories are required
- **Machine description**
- Intuitive colour touch screen interface
- Operator guidance from preparation to the end of the jointing process by use of symbols and graphics
- Automatic calculation, regulation and control of the fusion parameters - pressure, time and temperature - according to country specific guidelines
- Real time communication with mobile smartphone during the welding process, the data transfer and fusion protocols collection, in combination with WeldinAir mobile application
- Transfer of collected fusion data directly from jobsite to the headquarter by means of the smartphone
- Compatible with label printer
- 10 freely programmable fusion cycles (e.g. for non standard pipe dimensions)
- Selection of language
- On site check of the memorized fusion protocols status directly on the touchscreen
- Transfer of memorized fusion protocols to an external PC via USB memory stick (included)
- Fusion protocols compatible with Welding Book application
- The clamping units are mounted on supports, each of which can be adjusted transversely
- Each clamping unit can be turned up to 22.5°
- Each clamping unit is provided with a complete set of reductions d90 - 280 mm
- Precision heating element with electronic temperature control (3000 W)
- High-quality PTFE coating with long service life
- The heating element is removed automatically during the change-over phase
- 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	Description	Code	Weight (kg)
90 - 315	400 V/4620 W	With wide clamping units for pipes	790 118 009	525.000
90 - 315	400 V/4620 W	With narrow clamping units for fittings	790118016	525.000

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	Weight (kg)
90 - 315	790 118 031	16.000



Base clamping unit for fittings with adapter ring, wide

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

d	Type	Code	Weight (kg)
315	L	790 118 011	15.000
315	R	790 118 012	15.000



Reduction clamping inserts, narrow

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

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



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	Weight (kg)
315	790 118 028	0.741



Set of pipe supports

d-d (mm)	Code	Weight (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 - 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	Weight (kg)
90 - 250	790 118 032	120.000



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	Weight (kg)
90 - 250	790 118 033	179.000



Back stop

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

Code	Weight (kg)
790 118 026	4.000



Set of replacement blades for planer

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

description	Code	Weight (kg)
long	790 118 042	0.220
short	790 118 043	0.045



Label printer cable for CNC machines

- Cable to connect the CNC 4.0 to same label printer (code 790131066) used with automatic IR welding machines

Type	Code	Weight (kg)
Cable with special connector	790 155 343	0.120

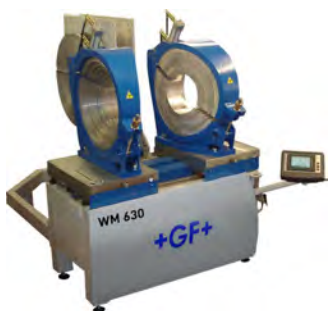
WM 630



WM 630

- Machine for jointing segmented fittings for applications with pressure piping systems
- Maximum jointing angle 45°
- Dimensional range d315 - 630 mm
- To produce T and Y fittings in the dimensional range d315 - 500 mm, special accessories are required
- 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 clamping units are mounted on supports, each of which can be adjusted transversely
- Each clamping unit can be turned up to 22.5°
- Each clamping unit is provided with a complete set of reductions d315 - 560 mm
- Hydraulically opening and closing of the upper clamping tools, manual locking with bolts and nuts
- Hydraulically operated insertion of planer and heating element
- Precision heating element with electronic temperature control (12000 W)
- High-quality PTFE coating with long service life
- Powerful planer (1100 W) with optimized cutting geometry for even and chatter-free planing
- Load transfer via robust chain drive
- During the planing process each slide could be moved separately (single sided planing)
- Including transport packaging, without accessories

d-d (mm)	Performance	Code	Weight (kg)
315 - 630	400 V / 15600 W	790 108 020	1870.000



WM 630 CNC 4.0 Automatic workshop butt fusion machine



- Machine for jointing segmented fittings for applications with pressure piping systems
- Fully automated fusion process by the use of state of the art PLC and touch screen
- Maximum jointing angle 45°
- Dimensional range d315 - 630 mm
- To produce T and Y fittings in the dimensional range d315 - 500 mm, special accessories are required
- Intuitive colour touch screen interface
- Operator guidance from preparation to the end of the jointing process by use of symbols and graphics
- Automatic calculation, regulation and control of the fusion parameters - pressure, time and temperature - according to country specific guidelines
- Real time communication with mobile smartphone during the welding process, the data transfer and fusion protocols collection, in combination with WeldinAir mobile application
- Compatible with label printer
- 10 freely programmable fusion cycles (e.g. for non standard pipe dimensions)
- Selection of language
- Transfer of memorized fusion protocols to an external PC via USB memory stick (included)
- On site check of the memorized fusion protocols status directly on the touchscreen
- Fusion protocols compatible with Welding Book application
- The clamping units are mounted on supports, each of which can be adjusted transversely
- Each clamping unit can be turned up to 22.5°
- Each clamping unit is provided with a complete set of reductions d315 - 560 mm
- Hydraulically opening and closing of the upper clamping tools, manual locking with bolts and nuts
- Hydraulically operated insertion of planer and heating element
- Precision heating element with electronic temperature control (12000 W)
- High-quality PTFE coating with long service life
- Powerful planer (1100 W) with optimized cutting geometry for even and chatter-free planing
- Load transfer via robust chain drive
- During the planing process each slide could be moved separately (single sided planing)
- Including transport packaging, without accessories

d-d (mm)	Performance	Code	Weight (kg)
315 - 630	400 V/15600 W	790 108 101	1870.000

WM 630 Accessories



Flange adapter clamping unit

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

d-d (mm)	Code	Weight (kg)
315 - 630	790 108 031	194.000



Base clamping unit for fittings

- For clamping fittings of d630 mm as well as for the reduction clamping inserts for fittings of d315 to 560 mm. Guide shaft for pipe support and back stop, with pipe support d630 mm
- L = left
- R = right

d (mm)	Type	Code	Weight (kg)
630	L	790 108 017	150.000
630	R	790 108 018	150.000



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	Weight (kg)
315	790 116 020	3.622
355	790 116 021	3.267
400	790 116 022	2.383
450	790 116 023	2.273
500	790 117 238	3.700
560	790 117 239	3.000



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	Weight (kg)
355	790 116 013	3.727
315	790 116 012	3.698
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	Weight (kg)
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	Weight (kg)
315 - 500	790 108 032	491.000



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	Weight (kg)
315 - 500	790 108 033	650.000



Back stop

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

Code	Weight (kg)
790 108 026	32.000



Set of replacement blades for planer

- (1 set = 4 blades)

Code	Weight (kg)
790 108 043	0.518

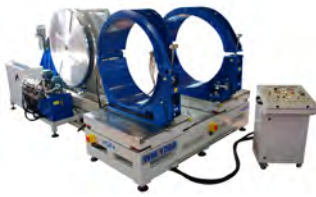


Label printer cable for CNC machines

- Cable to connect the CNC 4.0 to same label printer (code 790131066) used with automatic IR welding machines

Type	Code	Weight (kg)
Cable with special connector	790 155 343	0.120

WM 1200



WM 1200 Workshop butt fusion machine



- Machine for jointing segmented fittings for applications with pressure piping systems
- Equipped with Welding Recorder
- Maximum jointing angle 45°
- Dimensional range d630 - 1200 mm
- To produce T and Y fittings in the dimensional range d630 - 900 mm, special accessories are required
- **Machine description**
- 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
- Built-in data logger and realtime communication with mobile smartphones (at least iOS 11 or Android 7) during the welding process and fusion data download, working in combination with TOP WeldinAir mobile application
- Transfer of memorized fusion protocols to an external PC via USB memory stick (included)
- Fusion protocols compatible with Welding Book application
- The clamping units are mounted on supports, each of which can be adjusted transversely
- Each clamping unit can be turned up to 22.5°
- Each clamping unit is provided with a complete set of reductions d630 - 1000 mm
- Hydraulically opening and closing of the clamping units
- Hydraulic locking mechanism of the clamping units
- Hydraulically operated insertion of planer and heating element
- Hardened, hard chrome plated linear guide rails for extreme loads
- Precision heating element with electronic temperature control (30000 W)
- High-quality PTFE coating with long service life
- Powerful planer (2200 W) with optimized cutting geometry for even and chatter-free planing
- Load transfer via robust chain drive
- During the planing process each slide could be moved separately (single sided planing)
- Including transport packaging, without accessories
- Dimensions: 2400 L x 1400 W x 2070 H in mm

d-d (mm)	Performance	Code	Weight (kg)
630 - 1200	400 V/41000 W	790 126 001	8000.000

WM 1200 Accessories



T-fitting clamping unit

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

d-d (mm)	Code	Weight (kg)
630 - 900	790 126 011	4620.000



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

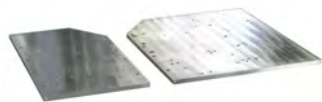
d-d (mm)	Code	Weight (kg)
630 - 900	790 126 012	5500.000



X-fitting clamping unit

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

d-d (mm)	Code	Weight (kg)
630 - 900	790 126 013	2900.000



Base Plate T-Y-X pieces

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

Code	Weight (kg)
790 126 014	1000.000



Set of replacement blades for planer

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

Code	Weight (kg)
790 126 043	0.500

WM 1200 Plus



WM 1200 Plus Workshop butt fusion machine



- Machine for jointing segmented fittings for applications with pressure piping systems
- Equipped with Welding Recorder
- Maximum jointing angle 45°
- Dimensional range d800 - 1200 mm; d630, d710 mm available on demand
- To produce T and Y fittings in the dimensional range d630 - 1200 mm, special accessories are required
- **Machine description**
- 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
- Built-in data logger and realtime communication with mobile smartphones (at least iOS 11 or Android 7) during the welding process and fusion data download, working in combination with TOP WeldinAir mobile application
- Transfer of memorized fusion protocols to an external PC via USB memory stick (included)
- The clamping units are mounted on supports, each of which can be adjusted transversely
- Fusion protocols compatible with Welding Book application
- Each clamping unit can be turned up to 22.5°
- Each clamping unit is provided with a complete set of reductions d800 - 1000 mm; d630, d710 mm available on demand
- Hydraulically opening and closing of the clamping units
- Hydraulic locking mechanism of the clamping units
- Hardened, hard chrome plated linear guide rails for extreme loads
- Hydraulically operated insertion of planer and heating element
- Precision heating element with electronic temperature control (52000 W)
- High-quality PTFE coating with long service life
- Powerful planer (3000 W) with optimized cutting geometry for even and chatter-free planing
- Load transfer via robust chain drive
- During the planing process each slide could be moved separately (single sided planing)
- Including transport packaging, without accessories
- Dimensions: 6200 L x 3100 W x 2800 H in mm

d-d (mm)	Performance	Code	Weight (kg)
800 - 1200	400 V/59000 W	790 126 051	1590.000

WM 1200 Plus Accessories



T-fitting clamping unit

- For the rational manufacturing of 90° T-fittings in the sizes d 800 - 1200 mm; d 630, 710 mm available on demand
- Three-piece, precise clamping tool for easy mounting on the machine bed
- Integrated eyelets for lifting
- Complete with reduction clamping inserts

d-d (mm)	Code	Weight (kg)
800 - 1200	790 126 061	9000.000



Y-fitting clamping unit

- For the rational manufacturing of 30° to 45° Y-fittings (branches) in the sizes d 800 - 1200 mm; d 630, 710 mm available on demand
- Three-piece, precise clamping tool for easy mounting on the machine bed
- Integrated eyelets for lifting
- Complete with reduction clamping inserts

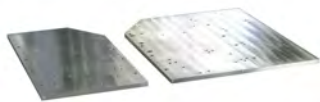
d-d (mm)	Code	Weight (kg)
800 - 1200	790 126 062	1142.000



X-fitting clamping unit

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

d-d (mm)	Code	Weight (kg)
800 - 1200	790 126 063	5382.000



Base Plate T-Y-X pieces

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

Code	Weight (kg)
790 126 064	1622.000

Utility Range

Workshop Machines

Accessories codes

Machine Type	 Clamping unit for fittings	 Clamping unit for pipes	 Flange adapter clamping unit	 T-fitting clamping unit	 Y-fitting clamping unit	 X-fitting clamping unit	 Back stop
WM 315 FC	Included	790 302 020					
WM 315 PC	790 118 011* (Left) 790 118 012* (Right)	Included	790 118 031	790 118 032 (d 90 - 250)	790 118 033 (d 90 - 250)	790 118 032 + 790118038 + 790118039 (d 90 - 250)	790 118 026
WM 630	790 108 017* (Left) 790 108 018* (Right)	Included	790 108 031	790 108 032 (d 315 - 500)	790 108 033 (d 315 - 500)	790 108 032 + 790 108 077 + 790 108 081 (d 315 - 500)	790 108 026
WM 1200	-	Included	-	790 126 012 + 790 126 014 (d 630 - 900)	790 126 013 + 790 126 014 (d 630 - 900)	790 126 012 + 790 126 013 (d 630 - 900)	-
WM 1200 Plus	-	Included	-	790 126 061 + 790 126 044 (d 800 - 1200**)	790 126 062 + 790 126 044 (d 800 - 1200**)	790 126 063 + 790 126 044 (d 800 - 1200**)	-

* Without reduction inserts for clamps (narrow type) and pipe supports: to be ordered separately

** d 630, 710 mm available on demand