



### Application & Features

Suitable for Butt-welding plastic pipes and fittings made of PE, PP and PVDF materials. Consists of basic frame, Hydraulic unit, planing tool, Heating mirror, Carry case and optional extras, simple structure, small and user-friendly. Removable PTFE coated heating mirror with accurate temperature control systems. Changeable welding positions enables welding of various fittings. Low starting pressure ensures reliable welding of small bore pipes. High shockproof pressure meter with big face ensuring better readings, separate two-channel timer records time in soaking and cooling phases

Size Range	FHD160	FHD 250	FHD 315	FHD 355
Pipe Sizes mm	63, 75, 90, 110, 125, 140, 160	90, 110, 125, 140, 160, 180, 200, 225, 250	90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315	90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315
Heating Mirror Max Temp	270 Deg C	270 Deg C	270 Deg C	270 Deg C
Temp Deviation Surface [170-250 Deg C]	<=+- 5 Deg C	<=+- 5 Deg C	<=+- 5 Deg C	<=+- 5 Deg C
Pressure Adjustable Range	0-6.3 Mpa	0-6.3 Mpa	0-6.3 Mpa	0-6.3 Mpa
Working Voltage	220V 50 Hz	220V 50 Hz	220V 50 Hz	220V 50 Hz
Heating Mirror	1 Kw	2 Kw	3 Kw	4 Kw
Planer Power	0.7 Kw	1.1 Kw	1.1 Kw	1.1 Kw
Hydraulic Power	0.75 Kw	0.75 Kw	0.75 Kw	0.75 Kw
Total Power	2.4 Kw	3.85 Kw	4.85 Kw	5.85 Kw
Weight	106 Kg	143 Kg	216 Kg	260 Kg
Packing	3 Cases 0.58 CBM	3 Cases 0.70 CBM	3 Cases 1.70 CBM	3 Cases 1.70 CBM



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Suitable for Butt-welding plastic pipes and fittings made of PE, PP and PVDF materials Consists of basic frame. Hydraulic unit, planing tool, Heating mirror, Carry case and optional extras, simple structure, small and user-friendly. Removable PTFE coated heating mirror with accurate temperature control systems. Changeable welding positions enables welding of various fittings. Low starting pressure ensures reliable welding of small bore pipes. High shockproof pressure meter with big face ensuring better readings, separate two-channel timer records time in soaking and cooling phases



Size Range	FHD 450	FHD 500	FHD 630	FHD 800
Pipe Sizes mm	200, 225, 250, 280, 315, 355, 400, 450	200, 225, 250, 280, 315, 355, 400, 450, 500	315, 355, 400, 450, 500, 560, 630	450, 500, 560, 630, 710, 800
Heating Mirror Max Temp	270 Deg C	270 Deg C	270 Deg C	270 Deg C
Temp Deviation Surface [170-250 Deg C]	<=+- 5 Deg C	<=+- 7 Deg C	<=+- 7 Deg C	<=+- 7 Deg C
Pressure Adjustable Range	0 - 8 Mpa	0 - 8 Mpa	0 - 8 Mpa	0 - 16 Mpa
Working Voltage	380 Vac 50 Hz	380 Vac 50 Hz	380 Vac 50 Hz	380 Vac 50 Hz
Heating Mirror	5.38 Kw	6.5 Kw	9.35 Kw	12.5 Kw
Planer Power	1.5 Kw	1.5 Kw	1.5 Kw	2.2 Kw
Hydraulic Power	1.5 Kw	1.5 Kw	1.5 Kw	3 Kw
Crane Power	-	1.1 Kw	1.1 Kw	1.5 Kw
Total Power	8.38 Kw	9.5 Kw	12.35 Kw	18.2 Kw
Weight	560 Kg	700 Kg	780 Kg	1360 Kg
Packing	4 Cases 3.16 CBM	4 Cases 4.43 CBM	4 Cases 4.43 CBM	4 Cases 8.39 CBM



**Application & Features**

Suitable for Butt-welding plastic pipes and fittings made of PE, PP and PVDF materials. Consists of basic frame, Hydraulic unit, planing tool, Heating mirror, Carry case and optional extras, simple structure, small and user-friendly. Removable PTFE coated heating mirror with accurate temperature control systems. Changeable welding positions enables welding of various fittings. Low starting pressure ensures reliable welding of small bore pipes. High shockproof pressure meter with big face ensuring better readings, separate two-channel timer records time in soaking and cooling phases



Size Range	FHD 1000	FHD 1200
Pipe Sizes mm	630, 710, 800, 900, 1000	630, 710, 800, 900, 1000, 1100, 1200
Heating Mirror Max Temp	270 Deg C	270 Deg C
Temp Deviation Surface [170-250 Deg C]	<=+- 7 Deg C	<=+- 7 Deg C
Pressure Adjustable Range	0 - 16 Mpa	0 - 16 Mpa
Working Voltage	380 Vac 50 Hz	380 Vac 50 Hz
Heating Mirror	17.5 Kw	21.5 Kw
Planer Power	3 Kw	4 Kw
Hydraulic Power	3 Kw	3 Kw
Crane Power	0.5 Kw	1 Kw
Total Power	24 Kw	29.5 Kw
Weight	2600 Kg	2740 Kg
Packing	5 Cases 15.0 CBM	5 Cases 19.54 CBM



### Application & Features

Suitable for Butt-welding plastic pipes and fittings made of PE, PP and PVDF materials. Latest design for basic frame, hydraulic unit, planing tool, heating mirror, carry care and optional extras. Integrated oil-way design of hydraulic system, simple structure small and user-friendly. Simple design of electrical control system with high stability and reliability. sealed control box design making it dust proof and waterproof. Low starting pressure ensures reliable welding of small bore pipes. High shockproof pressure meter with big face ensuring better readings.

Size Range	FHD 160-II	FHD 250-II	FHD 315-II	FHD 355-II
Pipe Sizes mm	63, 75, 90, 110, 125, 140, 160	63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250	90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315	90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355
Heating Mirror Max Temp	270 Deg C	270 Deg C	270 Deg C	270 Deg C
Temp Deviation Surface [170-250 Deg C]	<=+- 5 Deg C	<=+- 5 Deg C	<=+- 5 Deg C	<=+- 5 Deg C
Pressure Adjustable Range	0 - 7 Mpa	0 - 7 Mpa	0 - 7 Mpa	0 - 7 Mpa
Working Voltage	220 Vac 50 Hz	220 Vac 50 Hz	220 Vac 50 Hz	220 Vac 50 Hz
Heating Mirror	1 Kw	2 Kw	3 Kw	4 Kw
Planer Power	0.7 Kw	1.1 Kw	1.1 Kw	1.1 Kw
Hydraulic Power	0.75 Kw	0.75 Kw	0.75 Kw	0.75 Kw
Total Power	2.4 Kw	3.85 Kw	4.85 Kw	5.85 Kw
Weight	106 Kg	143 Kg	216 Kg	260 Kg
Packing	3 Cases 0.58 CBM	3 Cases 0.70 CBM	3 Cases 1.07 CBM	3 Cases 1.07 CBM



### Application & Features

Suitable for butt-welding plastic pipes and fittings made of PE, PP and PVDF materials. Consists of basic frame, CNC control, hydraulic unit, planing tool, heating mirror, carry case and optional extras. Equipped with siemens PLC and touch screen control system. Real time data printing, recording function and USB port, CTSG, ISO, DVS, GIS etc. Welding standards pre-installed full automated system for the heating mirror BDS/GPS positioning and remote data transmission function available. Fingerprint identification for welders.

Size Range	FHD 160	FHD 250	FHD 315	FHD 355
Pipe Sizes mm	90, 110, 125, 160	90, 110, 160, 200, 250	110, 160, 200, 250, 315	160, 200, 250, 315, 355
Heating Mirror Max Temp	270 Deg C	270 Deg C	270 Deg C	270 Deg C
Temp Deviation Surface [170-250 Deg C]	<=+- 5 Deg C	<=+- 5 Deg C	<=+- 5 Deg C	<=+- 5 Deg C
Pressure Adjustable Range	0.4 - 6 Mpa	0.4 - 6 Mpa	0.4 - 6 Mpa	0.4 - 6 Mpa
Working Voltage	220 VAC 50 Hz	220 VAC 50 Hz	220 VAC 50 Hz	220 VAC 50 Hz
Heating Mirror Power	1 Kw	2 Kw	3 Kw	4 Kw
Planer Power	0.7 Kw	1.1 Kw	1.1 Kw	1.1 Kw
Hydraulic Unit Power	0.75 Kw	0.75 Kw	0.75 Kw	0.75 Kw
Total Power	2.45 Kw	3.85 Kw	4.85 Kw	5.85 Kw



### Application & Features

Suitable for butt-welding plastic pipes and fittings made of PE, PP and PVDF materials. Consists of basic frame, CNC control, hydraulic unit, planing tool, heating mirror, carry case and optional extras. Equipped with siemens PLC and touch screen control system. Real time data printing, recording function and USB port, CTSG, ISO, DVS, GIS etc. Welding standards pre-installed full automated system for the heating mirror BDS/GPS positioning and remote data transmission function available. Fingerprint identification for welders.

Size Range	FHD 160	FHD 250	FHD 315	FHD 355
Pipe Sizes mm	90, 110, 125, 160	90, 110, 160, 200, 250	110, 160, 200, 250, 315	160, 200, 250, 315, 355
Heating Mirror Max Temp	270 Deg C	270 Deg C	270 Deg C	270 Deg C
Temp Deviation Surface [170-250 Deg C]	<=+- 5 Deg C	<=+- 5 Deg C	<=+- 5 Deg C	<=+- 5 Deg C
Pressure Adjustable Range	0.4 - 6 Mpa	0.4 - 6 Mpa	0.4 - 6 Mpa	0.4 - 6 Mpa
Working Voltage	220 VAC 50 Hz	220 VAC 50 Hz	220 VAC 50 Hz	220 VAC 50 Hz
Heating Mirror Power	1 Kw	2 Kw	3 Kw	4 Kw
Planer Power	0.7 Kw	1.1 Kw	1.1 Kw	1.1 Kw
Hydraulic Unit Power	0.75 Kw	0.75 Kw	0.75 Kw	0.75 Kw
Total Power	2.45 Kw	3.85 Kw	4.85 Kw	5.85 Kw



### Application & Features

Suitable for butt-welding plastic pipes and fittings made of PE, PP and PVDF materials. Consists of basic frame. CNC control, hydraulic unit, planing tool, heating mirror, carry case and optional extras. Equipped with siemens PLC and touch screen control system. Real time data printing, recording function and USB port, CTSG, ISO, DVS, GIS etc. Welding standards pre-installed full automated system for the heating mirror BDS/GPS positioning and remote data transmission function available. Fingerprint identification for welders.

Size Range	FZD 450	FZD 630	FZD 800	FZD 1000	FZD 1200
Pipe Sizes mm	200, 225, 250, 280 315, 355, 400, 450	315, 355, 400, 450 500, 560, 630	450, 560, 630, 710, 800	630, 710, 800, 900, 1000	630, 710, 800, 900, 1000, 1100, 1200
Ambient Temperature	-5 Deg C to 45 Deg C	-5 Deg C to 45 Deg C	-5 Deg C to 45 Deg C	-5 Deg C to 45 Deg C	-5 Deg C to 45 Deg C
Heating Mirror Max Temp	270 Deg C	270 Deg C	270 Deg C	270 Deg C	270 Deg C
Temp Deviation Surface [170-250 Deg C]	<=+- 7 Deg C	<=+- 7 Deg C	<=+- 7 Deg C	<=+- 7 Deg C	<=+- 7 Deg C
Pressure Adjustable Range	0.4 - 8 Mpa	0.4 - 8 Mpa	0.4 - 12 Mpa	0.4 - 12 Mpa	0.4 - 16 Mpa
Working Voltage	380 VAC 50 Hz	380 VAC 50 Hz	380 VAC 50 Hz	380 VAC 50 Hz	380 VAC 50 Hz
Heating Mirror Power	5.38 Kw	9.35 Kw	12.5 Kw	17.5 Kw	21.5 Kw
Planer Power	1.5 Kw	1.5 Kw	2.2 Kw	3 Kw	4 Kw
Hydraulic Unit Power	2.2 Kw	2.2 Kw	4 Kw	4 Kw	5 Kw
Total Power	9.06 Kw	13.05 Kw	18.7 Kw	24.5 Kw	30.5 Kw



### Application & Features

Suitable for butt-welding plastic pipes and fittings made of PE, PP and PVDF materials. Consists of basic frame. CNC control, hydraulic unit, planing tool, heating mirror, carry case and optional extras. Equipped with siemens PLC and touch screen control system. Real time data printing, recording function and USB port, CTSG, ISO, DVS, GIS etc. Welding standards pre-installed full automated system for the heating mirror BDS/GPS positioning and remote data transmission function available. Fingerprint identification for welders.



Size Range	CNC-FZD 450	CNC-FZD 630
Pipe Sizes mm	200, 225, 250, 280 315, 355, 400,450	315, 355, 400, 450 500, 560, 630
Ambient Temperature	-5 Deg C to 45 Deg C	-5 Deg C to 45 Deg C
Heating Mirror Max Temp	270 Deg C	270 Deg C
Temp Deviation Surface [170-250 Deg C]	<=+- 7 Deg C	<=+- 7 Deg C
Pressure Adjustable Range	0.4 - 8 Mpa	0.4 - 8 Mpa
Working Voltage	380 VAC 50 Hz	220 VAC 50 Hz
Heating Mirror Power	5.38 Kw	9.35 Kw
Planer Power	1.5 Kw	1.5 Kw
Hydraulic Unit Power	2.2 Kw	2.2 Kw
Total Power	9.06 Kw	13.05 Kw





### Application & Features

Suitable for butt-welding plastic pipes and fittings made of PE, PP and PVDF materials. Consists of basic frame. CNC control, hydraulic unit, planing tool, heating mirror, carry case and optional extras. Equipped with siemens PLC and touch screen control system. Real time data printing, recording function and USB port, CTSG, ISO, DVS, GIS etc. Welding standards pre-installed full automated system for the heating mirror BDS/GPS positioning and remote data transmission function available. Fingerprint identification for welders.

Size Range	CNC II-FZD 160	CNC II-FZD 250	CNC II -FZD 315	CNC II-FZD 355
Pipe Sizes mm	90, 110, 125, 160	90, 110, 160, 200, 250	110, 160, 200, 250, 315	160, 200, 250, 315, 355
Ambient Temperature	-5 Deg C to 45 Deg C	-5 Deg C to 45 Deg C	-5 Deg C to 45 Deg C	-5 Deg C to 45 Deg C
Heating Mirror Max Temp	270 Deg C	270 Deg C	270 Deg C	270 Deg C
Temp Deviation Surface [170-250 Deg C]	<=+- 5 Deg C	<=+- 5 Deg C	<=+- 5 Deg C	<=+- 5 Deg C
Pressure Adjustable Range	0.4 - 6 Mpa	0.4 - 6 Mpa	0.4 - 6 Mpa	0.4 - 6 Mpa
Working Voltage	220 VAC 50 Hz	220 VAC 50 Hz	220 VAC 50 Hz	220 VAC 50 Hz
Heating Mirror Power	1 Kw	2 Kw	3 Kw	4 Kw
Planer Power	0.7 Kw	1.1 Kw	1.1 Kw	1.1 Kw
Hydraulic Unit Power	0.75 Kw	0.75 Kw	0.75 Kw	0.75 Kw
Total Power	2.45 Kw	3.85 Kw	4.85 Kw	5.85 Kw

**Application & Features**

Suitable for Buttwelding plastic pipes and fittings made of PE,PP and PVDF materials Consists of basic frame. Plainer, heating mirror , basket and optional parts. Removable PTFE coated heating mirror with separate temperature electric plainer. Made of lightweight high strength material, simple structure, small and user-friendly. FHDS B4 models use a gearbox to apply pressure more ergonomically.



Size Range	FHDS 110	FHDS 160A2	FHDS 200A2	FHDS 160A4
Pipe Sizes mm	40, 50, 63, 75, 90, 110	50, 63, 75, 90, 110, 125, 140, 160	63, 75, 90, 110, 125, 140, 160, 180, 200	50, 63, 75, 90, 110, 125, 140, 160
Heating Mirror Max Temp	270 Deg C	270 Deg C	270 Deg C	270 Deg C
Temp Deviation Surface [170-250 Deg C]	<=+- 5 Deg C	<=+- 5 Deg C	<=+- 5 Deg C	<=+- 5 Deg C
Working Voltage	220 VAC 50 Hz	220 VAC 50 Hz	220 VAC 50 Hz	220 VAC 50 Hz
Heating Mirror Power	0.7 Kw	1 Kw	1.5 Kw	1 Kw
Plainer Power	0.7 Kw	0.7 Kw	0.7 Kw	0.7 Kw
Total Power	1.4 Kw	1.7 Kw	2.2 Kw	1.7 Kw
Weight	39 Kg	46 Kg	60Kg	46 Kg
Packing	1 Case 0.2 CBM	2 Case 0.31 CBM	2 Case 0.44 CBM	2 Case 0.6 CBM

**Application & Features**

Suitable for Buttwelding plastic pipes and fittings made of PE,PP and PVDF materials Consists of basic frame. Plainer, heating mirror , basket and optional parts. Removable PTFE coated heating mirror with separate temperature electric plainer. Made of lightweight high strength material, simple structure, small and user-friendly. FHDS B4 models use a gearbox to apply pressure more ergonomically.



Size Range	FHDS 200A4	FHDS 160B4	FHDS 200B4
Pipe Sizes mm	63, 75, 90, 110, 125, 140, 160, 180, 200	50, 63, 75, 90, 110, 125, 140, 160	63, 75, 90, 110, 125, 140, 160, 180, 200
Heating Mirror Max Temp	270 Deg C	270 Deg C	270 Deg C
Temp Deviation Surface [170-250 Deg C]	<=+- 5 Deg C	<=+- 5 Deg C	<=+- 5 Deg C
Working Voltage	220 VAC 50 Hz	220 VAC 50 Hz	220 VAC 50 Hz
Heating Mirror Power	1.5 Kw	1 Kw	1.5 Kw
Planer Power	0.7 Kw	0.7 Kw	0.7 Kw
Total Power	2.2 Kw	1.7 Kw	2.2 Kw
Weight	69 Kg	57 Kg	71 Kg
Packing	2 Case 0.9 CBM	2 Case 0.6 CBM	2 Case 0.9 CBM



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### Application & Features

Suitable for fabricating elbows, tees, crosses and Y-pieces (45° & 60°) fittings for PE, PP PVDF in workshops. Also used to lengthen injection moulded fittings and to make integrated fittings, integrated structure. Electric plainer with safety limit switch. Low starting pressure and high reliable structure. Separate two channel timer records time for soaking and cooling phases. High accurate and shockproof pressure gauge indicates cleaner readings. FHG 450 upward CNC equipped with PLC and touchscreen. Hydraulic open and close clamp system to improve ergonomics. Extension for data collection and transmission system. Extension for remote fault analysis. Extension for company MES management system.



Size Range	FHG 315	FHG 450	FHG 630
Pipe Sizes mm	90, 110, 125, 140, 160,180 200, 225, 250, 280, 315	200, 225, 280, 315 355, 400, 450	315, 355, 400, 450, 500 560, 630
Application	0-90 Deg Elbows, Tees, Crosses 45 & 60 Deg Wyes (Optional Part to be used)	0-90 Deg Elbows, Tees, Crosses 45 & 60 Deg Wyes (Optional Part to be used)	0-90 Deg Elbows, Tees, Crosses 45 & 60 Deg Wyes (Optional Part to be used)
Heating Mirror Max Temp	270 Deg C	270 Deg C	270 Deg C
Temp Deviation Surface [170-250 Deg C]	<=+- 7 Deg C	<=+- 7 Deg C	<=+- 7 Deg C
Pressure Adjustable Ranges	6 MPa	0-14 MPa	0-14 MPa
Working Voltage	380 VAC 50 Hz	380 VAC 50 Hz	380 VAC 50 Hz
Heating Mirror Power	5 Kw	12.2 Kw	22.25 Kw
Planer Power	1.5 Kw	2.2 Kw	3 Kw
Hydraulic Unit Power	0.75 Kw	3 Kw	4 Kw
Total Power	7.25 Kw	17.4 Kw	29.25 Kw
Weight	884 Kg	2850 Kg	3510 Kg
Packing	4 Case 3.1 CBM	4 Case 14.66 CBM	9 Case 22.7 CBM



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### Application & Features

Suitable for fabricating elbows, tees, crosses and Y-pieces (45° & 60°) fittings for PE, PP PVDF in workshops. Also used to lengthen injection moulded fittings and to make integrated fittings, integrated structure. Electric plainer with safety limit switch. Low starting pressure and high reliable structure. Separate two channel timer records time for soaking and cooling phases. High accurate and shockproof pressure gauge indicates cleaner readings. FHG 450 upward CNC equipped with PLC and touchscreen. Hydraulic open and close clamp system to improve ergonomics. Extension for data collection and transmission system. Extension for remote fault analysis. Extension for company MES management system. Note: Bigger sizes available on request.



Size Range	FHG 800	FHG 1000	FHG 1200
Pipe Sizes mm	400, 500, 560, 630 710, 800	630, 710, 800, 900 1000	630, 710, 800, 900, 1000, 1200,
Application	0-90 Deg Elbows, Tees, Crosses 45 & 60 Deg Wyes (Optional Part to be used)	0-90 Deg Elbows, Tees, Crosses 45 & 60 Deg Wyes (Optional Part to be used)	0-90 Deg Elbows, Tees, Crosses 45 & 60 Deg Wyes (Optional Part to be used)
Heating Mirror Max Temp	270 Deg C	270 Deg C	270 Deg C
Temp Deviation Surface [170-250 Deg C]	<=+- 7 Deg C	<=+- 10 Deg C	<=+- 5 Deg C
Pressure Adjustable Ranges	0-14 MPa	0-14 MPa	0-15 MPa
Working Voltage	380 VAC 50 Hz	380 VAC 50 Hz	380 VAC 50 Hz
Heating Mirror Power	39.23 Kw	47.2 Kw	61.39 Kw
Planer Power	4 Kw	4 Kw	7.5 Kw
Hydraulic Unit Power	4 Kw	4 Kw	7.5 Kw
Total Power	347.23 Kw	44.5 Kw	76.39 Kw
Weight	4900 Kg	16000 Kg	18000 Kg
Packing	11 Case 23.3 CBM	11 Case 41.93 CBM	11 Case 45.93 CBM

## Application & Features

Input or choose the pre-set welding parameters with keyboard or touch screen latest design for basic frame, hydraulic unit, planing tool heating mirror & carry case guiding operators to complete the whole welding process. Monitor all related welding parameters during the entire welding process form and save original records of various parameters during the welding process, print data welding and output through USB drive can be applied to all semi-Auto butt-welding machines.

<b>Model</b>	<b>FHG 800</b>
<b>Input</b>	<b>100 – 240 Vac</b>
<b>Input Frequency</b>	<b>50 Hz / 60Hz</b>
<b>Power</b>	<b>24 W</b>
<b>Stored Records</b>	<b>2000 Welding Points</b>
<b>User Interface</b>	<b>USB Port</b>
<b>Protection Grade</b>	<b>IP54</b>
<b>Overall Size</b>	<b>390 x 255 x 175 MM</b>
<b>Weight</b>	<b>6.5 K.g</b>

**Application & Features**

Suitable for cutting pipes according to specified angle and dimensions for making elbows, tees or crosses. Lowers material waste and improves welding efficiency. Cutting angles 0-67.5° accurate angle location. Applicable to solid wall pipes or structured wall pipes made of thermoplastics such as PE and PP also suitable for other non-metal materials. Self-inspection and stop of machine in case of blade break guarantees operator safety. Reliable low noise and easy to handle. FJC 1200 and higher PLC control available. Special designs subject to enquiry. Note: Bigger sizes available on request.



Size Range	FJC 315	FJC 630	FJC 800	FJC 1000	FJC 1200	FJC 1600
Working Ranges	<= 315 mm	<= 630 mm	<= 800 mm	<= 1000 mm	<= 1200 mm	<= 1600 mm
Cutting Angle	0 – 67.5 Deg	0 – 67.5 Deg	0 – 67.5 Deg	0 – 67.5 Deg	0 – 67.5 Deg	0 – 67.5 Deg
Cutting Angle Error	<= 1 Deg	<= 1 Deg	<= 1 Deg	<= 1 Deg	<= 1 Deg	<= 1 Deg
Line Speed	0 – 250 m/Min	0 – 250 m/Min	0 – 250m/Min	0 – 250m/Min	0 – 250m/Min	0 – 250m/Min
Feed Speed	Adjustable	Adjustable	Adjustable	Adjustable	Adjustable	Adjustable
Working Voltage	380V 50Hz	380V 50Hz	380V 50Hz	380V 50Hz	380V 50Hz	380V 50Hz
Total Power	2.25 Kw	2.25 Kw	2.25 KW	3.7 KW	10.2 KW	10.2 KW
Weight	884 Kg	1900 Kg	1300 Kg	4000 Kg	7000 Kg	8000 Kg

**Application & Features**

Suitable for butt welding of plastic pipes and fittings made from PE, PP and PVDF material. Removable PTEE coated heating plate with high accurate temperature control system. Electrical plaining tool with safety limit switch enables it to be started only when it is locked in operation position, Mechanical Lock to maintain welding pressure. Spring manometer provides correct welding pressure, pivoting plaining tool brings convenience for placing and removing



Model	FHG 160	FHG 315
Pipe Sizes mm	250, 63, 75, 90, 110, 125, 140, 160	50, 63, 75, 90, 110, 125, 140, 160
Application	Pipe > Pipe of Fittings & Fittings > Fittings	Pipe > Pipe of Fittings & Fittings > Fittings
Heating Mirror Max Temp	260 Deg C	260 Deg C
Temp Deviation Surface [170-250 Deg C]	<=+- 5 Deg C	<=+- 5 Deg C
Working Voltage	220V 50 Hz	220V/240V 50 Hz
Planer Power	0.7 Kw	1.1 Kw
Heating Plate Power	1 Kw	2.2 Kw
Total Power	1.7 Kw	3.3 Kw
Weight	54 Kg	183 Kg





### Application & Features

Smart structure, small and delicate. User-friendly.  
 The heating plate has adjustable temperature (te) or constant temperature (tf) options.  
 Changeable heating plate, suitable for same diameter and socket pipe butt welding, robust and ergonomic clamp design,  
 easy operation and ensures good pipeline alignment.

Technical Parameters	Fusion Welding	Technical Parameters	Socket Welding
Pipe Sizes mm	40, 50, 63, 75, 90, 110, 125, 140, 160	Pipe Sizes mm	40, 50, 63, 75, 90, 110, 125, 140, 160
Welding Angle	0 -30 Degrees	Applicable Material	PE, PP, PB, PVDF
Max Power	11 -33	Mould Care	Customisation
Heating Mirror Power	1900 W	Max Power	1000 W
Heating Mirror Power	1100 W	Heating Plate Power	1000 W
Planer Tool Power	800 W	Basic Frame Size	830 x 660 x 1090 mm
Basic Frame Size	830 x 660 x 1090 mm	Weight	75 Kg
Weight	65 Kg	Temp Deviation in Surface	180 – 280 Deg C
Temp Deviation in Surface	180 – 280 Deg C		



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**Application & Features**

Designed for vertical roof-mounted pipe systems.  
 Manual gearbox, frame and hydraulic frame are available.  
 Suitable for same diameter pipe joint and socket butt welding.

Technical Parameters	FPDS-160	FPD-315
Pipe Sizes mm	63, 75, 90, 110, 125, 140, 160	63, 75, 90, 110, 125, 140, 160
Ambient Temperatures	-5 to 45 Deg C	-5 to 45 Deg C
Input Power	220 AV 50 Hz	220 AV 50 Hz
Total Power	2.3 Kw	2.3 Kw
Heating Plate Power	1.5 Kw	1.5 Kw
Plaining Tool Power	0.8 Kw	0.8 Kw
Hydraulic Unit Power	-	0.75 Kw
Pressure Adjustable Ranges	-	6 MPa
Heating Plate Max Temperature	270 Deg C	270 Deg C
Temp eviation in Surface	<= +/- 5 Deg C	<= +/- 5 Deg C
Weight	30 Kg	40 Kg