

SP160 (40mm -160mm) Butt Fusion Welding Machine - Capable of welding pipe to pipe and pipe to fitting butt fusion welded joints in the following materials PP, PE, & PVDF.

The complete machine consists of the following:-

- Basic machine body
- PTFE coated Heating Element
- Electronic Control Box for the Heating Element
- Hydraulic Power Unit c/w: Pressure Gauge
- Pipe End Planning Tool with double edged blades, reversible
- Pair of flexible hydraulic pipes with quick release coupling
- Holder (for Heating Element and Pipe End Planning Tool)
- Full set of pipe/fitting clamp reductions: Sizes 40, 50, 63, 75, 63, 90, 110, 125 & 140mm.

Please Note: The machine is available in 230v or 110v (Please specify which voltage is preferable)

Please see below for further technical details

Machine Main Frame



Welding capacity	Ø 40 ÷ Ø 160 mm
Pipe and/or fitting material	PP – PE and other thermoplastic materials
Weight	39 Kg
Dimensions	730 × 410 × 420 mm
Total thrust section	353 mm ²
Carriage stroke	163 mm

Basic machine with four Ø 160 mm main clamps arranged on a slanting frame; sliding hardened chromate guides; third adjustable clamp; quick hydraulic anti-drop release couplings & automatic breakaway of the heating element (when the hydraulic pressure is released after the heating pressure time has elapsed).



PTFE Coated Heating Element



Welding capacity:	Ø 160 mm
Electronic temperature adjustment	50°C ÷ 300°C
Weight	5 Kg
Dimensions	470 × 400 x 50 mm
Electric power	1 kW
Voltage	230 Volt – 50/60 Hz or 110 Volt – 50/60 Hz

PTFE covered heating element with a power cable and connector feeding cable with connector to the remote adjustable electronic control box.

Hydraulic Power Unit



Electric motor power	0.75 kW
Type of oil	ISO VG 68- 1,5l
Weight	25 Kg
Pressure Gauge	Class 1.0 – dimensions Ø 100 mm – rating 0 ÷ 160 bar
Pump features	Swept volume 1.2 cm ³ capacity 1.58 l/min; revs no. 1400 r/min
Voltage	230 V – 50/60 Hz or 110v – 50/60 Hz
Operative pressure	150 bar
Dimensions	280 × 430 x 310 mm

Hydraulic pressure unit complete with delicate manometer – Class 1.0 (0 ÷ 160 bar – Ø 100 mm); throttle valve and drive cylinders joystick; quick hydraulic anti-drop release couplings.



Pipe End Planer



Electric motor power	0.8 kW
Drive	Chain
Weight	8 Kg
Voltage	230 Volt – 50/60 Hz or 110 Volt – 50/60 Hz
Dimensions	380 × 250 × 60 mm

Pipe End Planning Tool equipped with safety lock and micro-switch & double edged reversible blades.

Hydraulic Pipes



Lenght	4 m
Weight	1.5 Kg

1 Pair of: Flexible hydraulic pipes with quick release couplings.

Holder (for Pipe End Planer & Heating Element)



Weight	7.5 Kg
Dimensions	540 x 230 x 300 mm

Holder for: Pipe End Planer & Heating Element.

Electronic Control Box



Weight	4.2 Kg
Dimensions	260 × 360 × 225 mm
Electronic adjustment of temperature	50°C ÷ 300°C
Operative power	2.5 kW
Voltage	230 Volt – 50/60 Hz or 110 Volt – 50/60 Hz

Electronic Control Box for the Heating Element complete with digital display for adjustable temperature control.



Pipe/Fitting Clamp Reducer Inserts



Level Reducers (For Pipe)



Bevelled Reducers (For Fittings)

Total weight	21 Kg
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Pipe/Fitting Clamp Reducer Inserts Sizes: Ø 40, 50, 63, 75, 90, 110, 125 and 140 mm level and bevelled reducers.

Additional Optional Accessories (Sold separately to the machine):

Stub Flange Clamping Device



Weight	3.5 Kg
Dimensions	Ø 215 mm

Tool for butt fusion welding stub flanges onto pipes



Top Bevelled Half-Jaw

Weight	0.5 Kg
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160mm top bevelled half-jaw - for welding short spigot 90 degree elbows

SP. RECORDER



Weight	5.4 Kg
Detectable pressure	250 bar
Electric power	0.2 kW
Voltage	230 Volt – 50/60 Hz
Dimensions	410 × 330 × 175 mm

SP Recorder this welding parameter recorder can be used in conjunction with the butt welding machine to record the cycle and results of your butt fusion welds.

The manufacturer reserves the right to make appropriate changes without prior notice.