

DELTA 1600 ECO



The **DELTA 1600 ECO** is a manual hydraulic mirror welding machine, suitable for welding pressure piping systems for water, gas, or other media. The machine has a range of **800 to 1600 mm** and is built according to international standards (UNI 10565, ISO 12176-1).

The machine contains:

- A machine sled with frame, 4 clamps, 2 hydraulic cylinders and hydraulic hoses with anti-leak couplings that can be plugged in and out quickly.
- A PTFE coated heating plate with separate thermometer, and a high-precision digital-electronic thermoregulator "Digital Dragon" ($\pm 1\%$). This system contains LED indicators and monitors the normal operation of the machine (voltage and temperature control).
- An attachment on the machine carriage, which helps remove the mirror during the welding procedure.
- A removable surface planer to straighten the ends of the tube/fitting. It includes a safety micro-switch and a thermal circuit breaker.
- An electric-hydraulic wheeled steering box fitted with a seat; a lever to operate the clamps (open-close), a maximum pressure and discharge valve (also usable for the "dual pressure" welding process), an analog reading of the current pressure and a timer to keep an eye on the load times. The control box is equipped with a connection for the electronic datalogging unit "THE INSPECTOR".
- A holder for flat planer and heating plate

With the **DELTA 1600 ECO** you can weld pipes and fittings such as knieën, te-pieces, Y-pieces and collar bushings. This is possible because the 3rd clamp can be attached to the 1st and 2nd (sliding) clamp. The fitting itself is fixed in the 4th clamp. Short collars can be welded with a special tool (on request).

TECHNICAL DATA

		DELTA 1600 ECO
Diameter range	∅	800 - 1600 mm
SDR range	SDR	SDR 41 - 11*
Materials		HDPE, PP
Power supply		400 V 3F+N+PE
Total power consumption	W	55500 W
Recommended generator		75 kVA
Temperature setting range	°C	180°C / 260°C
Ambient temperature	°C	-10°C / 40°C
Time needed to reach welding temperature		< 45'
Noise level	Lwa	78dB (A)
Memory		-
Pre-adjustable welding cycles		-
Wi-Fi ready		-
GPS		-
Mirror temperature		Adjustable
Mirror temperature readable		Digital
Automatic extraction of heating plate		-
Automatic extraction of flat planer		-
Smartlock inserts		-
Lifting support clamps-heating plate-flat planer		-
Dimensions machine-base	L x W x H	3534 x 2236 x 2226 mm
Dimensions control box	L x W x H	1431 x 679 x 835 mm
Machine base weight	Kg	4000 kg
Handlebar box weight	Kg	180 kg
Weight flat planer	Kg	820 kg
Heating plate weight	Kg	350 kg
Holder weight	Kg	570 kg
Weight standard composition	Kg	6000 kg

* SDR11 to dia 1200mm, 1400 and 1600 SDR13.6

MACHINE

91600001 DELTA 1600 ECO TE (400V - 3~)

OPTIONS

87298913 Complete SET of Inserts Ø 800-1400mm
87298910 Inserts Ø 1400mm
87297841 Inserts Ø 800mm
87298111 Inserts Ø 900mm
87298375 Master Inserts Ø 1000mm
87298912 Master Inserts Ø 1200mm
86311600 Raised Flat
80401600 Tool for Flange Necks

SPARE PARTS

87061602 Electric Box with Thermoregulator (400V)
92155021 Gearcase 4kw 1.6+8.8cc-400V
90090919 Heating plate (400V)
81741601 Machine Body with Manual Clamps
81801601 Milling Cutter (400V)
83621600 O-Ring SET for Cylinders 81491600
81461601 Service Tools
88161601 Support for Milling Cutter/ Heating plate