

DELTA 1600 HDR



The **DELTA 1600 HDR** 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 hydraulic 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.
- 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 easy-to-operate hydraulic control panel, on board the machine; a lever to operate each clamp separately (open-close), a maximum pressure and discharge valve (also usable for the "dual pressure" welding process) and an analog reading of the current pressure. The control box is equipped with a connection for the electronic datalogging unit "THE INSPECTOR".
- A holder for flat planer and heating plate
- A work platform at height for machine operation and welding control

With the **DELTA 1600 HDR** you can weld tubes 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 HDR
Diameter range	Ø	800 - 1600 mm
SDR range	SDR	SDR 41 - 11*
Materials		HDPE, PP
Power supply		400 V 3F+N+PE
Total power consumption	W	55000 W
Recommended generator		75 kVA
Temperature setting range	°C	180°C / 280°C
Ambient temperature	°C	-10°C / 40°C
Time needed to reach welding temperature		< 45'
Noise level	Lwa	LpA 79.2 dB (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		pinch
Dimensions machine-base	L x W x H	3550 x 2400 x 2550 mm
Dimensions control box	L x W x H	-
Machine base weight	Kg	5000 kg
Handlebar box weight	Kg	-
Weight flat planer	Kg	660 kg
Heating plate weight	Kg	345 kg
Holder weight	Kg	575 kg
Weight standard composition	Kg	6580 kg

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

MACHINES

91600000 DELTA 1600 HDR TE (400V - 3~)

OPTIONS

87298911 Complete SET of Inserts Ø 800-1400mm
87297905 Inserts Ø 800mm
87298175 Inserts Ø 900mm
87298445 Inserts Ø 1000mm
87298645 Inserts Ø 1200mm
87298910 Inserts Ø 1400mm
87561601 Left hydraulic ROLLER
87561600 Right hydraulic ROLLER
80401600 Tool for Flange Necks
84401600 Trolley KIT Machine Basic

SPARE PARTS

90090918 Heating plate (400V)
84301600 Kit for Inserts
81741600 Machine Body with Hydraulic Clamps
81801600 Milling Cutter (400V)
83621600 O-Ring SET for Cylinders 81491600
81381600 SET of Hydraulics and Electric connection Cables
88161600 Support for Milling Cutter/ Heating plate