



Model Sample

OMISA WhiteLine HWT 400 WeldControl

This member of the **OMISA** workshop technology series is used for the manufacture of segments, Tees, Ys, and crosspieces made of PE, PP, PVDF and ships **fitted with cast aluminium clamping jaws**.

The design of the machine is such that segments up to O.D. 400 mm and Tees, crosspieces, and Ys up to O.D. 315 mm with any SDR ratio can be processed.

The system was developed under the machinery directive 2006/42/EC as amended and is set on a welded and bolted, totally heavy-duty support frame resistant to warping by design. Both the movable carriage of the system and the console carrying the heating element and the facing tool travel on precision-engineered, heavy load-bearing trapeze-shaped guides constructed with precision-matched runner blocks. The PTFE-coated heating element managed by a microcontroller turns conveniently and effort-

lessly around its axis for insertion and removal. The two clamping jaws can be swiveled by up to 2 x 22.5 deg. on both sides and feature horizontal adjustability, to allow for compensating any misalignments. The facing tool has a rugged chain drive mechanism and can be inserted and fastened between the component butts easy as ABC using a gas-pressurized cylinder.

OMISA's WeldControl software walks the operator through the entire welding process and all parameters are verified in real time against the applicable national standard. The control software also adjusts the heating element temperature automatically on the basis of the characteristics of the components being welded. To round things off, the user can select either the semi-automatic mode of operation or perform a fully manual welding operation.

omisa
SMART PLASTIC WELDING

WeldControl system specs

Automatic data logging	10,000 welding operations
Data input	Manually, with (optional) scanner for manual/WeldControl welding modes
System self-monitoring	Hardware-base input voltage monitor incl. data recording System check Computerized maintenance management including recording
Welding monitoring system	Welding pressures, welding times, input voltage, memory control, motor operating temperature, heating element temperature
Standard-compliant ISO 12176 traceability	Commission number with 32 alphanumeric characters, ISO-compliant RFID welder ID code, additional (user-defined) data with 20 and with 15 alphanumeric characters, ISO-compliant pipe parameters, fitting code, pipe length, weather conditions, joint number, installing company, inventory number, display of maintaining company
Welding standards	DVS, WIS, SEDIGAS, UNI, NEN, others upon request
Data download with print menu	USB port (USB A) for data transfer as short abstract or extended report in the PDF format to USB stick or (optional) label tag printer, incl. tag printer menu; transfer also possible in the OMISA DataWork Professional format

Working languages	DE, EN, FR, BG, CS, ZH, NL, FI, GR, IT, NO, RO, SK, TR, RU, others upon request	
Approvals, quality, ingress protection	CE, ISO 9001 : 2015, IP20, WEEE reg. no. DE 74849106, RoHS-compliant	
Miscellaneous	Temperature unit selection °C/°F, pressure unit selection bar/psi, intuitive menu for report viewing incl. search, ViewWeld functionality, memory backup	
Accessories	User's manual DE, EN, FR, ES, RU, operator ID card, tools	
Optional components		
Label tag printer	P/N	200-230-050
Tray for label tag printer	P/N	404-810-103
Replacement blade	P/N	315-109-026
Additional cylinder	P/N	200-260-410
Scanner	P/N	216-030-253
Welding neck support clamping system	P/N	406-010-001
Clamps for Tees / cross-pieces	P/N	200-260-403
Reducer set	P/N	200-260-404
Clamps for Ys (60 deg.)	P/N	200-260-407
Reducer set	P/N	200-260-408

OMISA HWT 400 WeldControl characteristics

P/N	HWT400-CW
Technical specs	
Voltage	3 ph., N, PE, 400 V AC ± 10 %
Frequency	50/60 Hz
Overall rated power	9 kW
Heating el. rated power	5 kW
Facing tool rated power	1.85 kW
Hydr. unit rated power	1.5 kW
Dimensions, weights	
Dimensions (W × D × H)	1100 × 1500 × 1600 mm
Weight, incl. clamping jaws	657 kg

Operating specs	
Heating element temperature range	max. 290 °C max. 555 °F
Hydraulic pressure range	max. 120 bar max. 1740 psi
Ambient temperature (operating)	± 0 °C thru + 60 °C 32 °F thru 140 °F
Ambient temperature (stored)	-10 °C thru + 70 °C 15 °F thru 160 °F
Operating range	
Straight pipe Segments	90 - 400 mm
Tees, crosspieces, Ys	90 - 315 mm

07.2022

You want to learn more about us?

Feel free to ask for a meeting on our premises. Detailed information on the company and on our product range is also available on-line at www.omisa.it



SMART PLASTIC WELDING

O.M.I.S.A. S.r.l.

Via Verga 9/11
20845 - Sovico (MB)
ITALY

Ph +39 039 2323028
E-Mail: info@omisa.it
Internet: www.omisa.it