

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



omisa
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

02.2020

OMISA Manual 2.0 250-315-355

OMISA Manual Hydraulic

EN

omisa
SMART PLASTIC WELDING



Stand-alone in Butt-Welding

Technical Specs	160 mm	250 mm	315 mm	355 mm	500 mm	630 mm	800 mm	1000 mm	1200 mm
P/N	SP160EVO3	SP250EVO3	SP315EVO3	SP355EVO3	SP500EVO3	SP630EVO3	SP800EV5	SP1000EV2	SP1200EV3
Welding range O.D. (mm)	40 - 160	(63) 75 - 250	90 - 315	90 - 355	(200) 250 - 500	315 - 630	500 - 800	(630) 710 - 1000	(630) 710 - 1200
Power Supply	230 V 50 Hz	230 V 50 Hz	230 V 50 Hz	230 V 50 Hz	230 V 50 Hz	400 V 50 Hz, 3 P	400 V 50 Hz, 3 P	400 V 50 Hz, 3 P	400 V 50 Hz, 3 P
Rated power (kW)	2.8	3.5	4.3	4.8	5.5	10.7	15.7	22.7	21.8
Overall weight with all components (kg)	75,5	110	122	160	308	398	972	1418	1796
Reducer inserts available	40, 50, 63, 75, 90, 110, 125, 140	(63)*, 75, 90, 110, 125, 140, 160, 180, 200, 225	90, 110, 125, 140, 160, 180, 200, 225, 250, 280	90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315	(200), (225)*, 250, 280, 315, 355, 400, 450	(250), (280)*, 315 , 355, 400, 450, 500, 560	(400), (450)*, 500, 560, 630, 710	(630)*, 710, 800, 900	(630)*, 710, 800, 900, 1000
Welding neck support*)	■	■	■	■	■	■	■	■	■
Automatic, “jumping” heating element*)	■	■	■	–	–	–	–	–	–
Included standard delivery									
Hydraulic controller for Manual	■	■	■	■	■	■	■	■	■
Basic machine chassis	■	■	■	■	■	■	■	■	■
Facing tool with micro-switch	■	■	■	■	■	■	■	■	■
PTFE-coated heating element	■	■	■	■	■	■	■	■	■
Carrying rack	■	■	■	■	■	■	■	■	■
OMISA transport box for reducers and machine, optional	■	■	■	–	–	–	–	–	–
OMISA aluminium reducers ¹⁾	■	■	■	■	■	■	■	■	■
OMISA steel reducers ¹⁾	■	■	■	■	–	–	–	–	–

¹⁾ Modified design: Screw-Fastened
*) Available as an option

- The Manual Hydraulic Series of butt-welding machines in the new WhiteLine generation makes a statement by its superior manufacturing quality and its scalability in the form of an easy upgrade to a data logging-enabled machine with the installation of an SPG 2.0 data logger for welding report generation.

 - The hydraulic unit also doubles as the central control panel of the machine with which the user performs all relevant settings and process steps. The front panel features a GT keypad, the critical process controls, and also the digital temperature control for the heating element and the extra-large and conveniently readable pressure gauge.
 - All **OMISA** Manual Hydraulic butt-welding machines can easily be upgraded with the **OMISA** data logger SPG 2.0 for welding parameter viewing, monitoring, and recording.
- As a consequence the model version “Manual + SPG” of the butt-welding machine complies with mains gas distributors’ specification requirements, which state that data recording and report generation is mandatory, but do not require automatic welding processes.

 - The machine chassis is set on a specifically developed support frame exhibiting a warp resistance that manages with ease even the most extreme pipe parameters. Operators can be sure that the machine chassis does not tilt or twist even when very long lengths of pipe with very thick walls are processed.
 - Large, knurled turning knobs mean easy handling for the operator who opens or closes the clamps of the machines sized up to O.D. 315, are available as an option. No tools are needed for this.
- The facing tool with integrated micro-safety switch is driven by a high-quality power drive engaged by a transmission chain. The precision heating element ships with a very rugged anti-stick coating.
 - A carrying rack is provided for the heating element and the facing tool, to store them with no worries about the heat.
 - Maximum protection of the machine, while it is stowed away, is provided (up to O.D. 315) by an optionally available, high-quality transport box that has been specifically designed for the entire machine assembly, with drawer-style storage compartments for the reducer inserts.
 - For all machines a welding neck support is of course available, too.

All components are covered by the OMISA warranty.



Centralized temperature control



All connections at the back panel of the hydraulic unit



Transport box



Welding neck support

OMISA Manual Hydraulic characteristics

Welding monitoring system	Heating element temperature
Display screen	Numeric 7-segment characters, character height 10 mm
Approvals, quality, ingress protection	CE, ISO 9001:2015, RAEE-compliant, RoHS-compliant
Hydraulic unit	Digital heating element temperature control, adjustable at the hydraulic unit Hydraulic unit fully encased in rugged steel enclosure weighing as little as 23 kg (up to O.D. 355 mm) Max. pressure 150 bar Accurate and maintenance-free gauge showing the welding pressures Easy upgrade of the hydraulic and control unit with a SPG 2.0 data logger for report generation <ul style="list-style-type: none">■ Pressure sensor 160 bar installable to the hydraulic unit■ Specifically designed support for construction site-suitable installation of the data logger to the edge of the hydraulics■ Pressure and temperature lines connected directly to the hydraulic unit with very short lengths of hose or cable■ Power supply to the data logger from the power socket of the hydraulic unit
Manufacturer warranty	12 months