



OMEGA TARGETED AT ALL WELDING ENVIRONMENTS

The Omega range is targeted at manual and manufacturing industries; easily operated, infinitely variable and fully digital welding machines.



SUPER-SIMPLE MIG/MAG INVERTERS RANGING FROM 300 A TO 550 A

The Omega range includes three sizes of power sources: 300 A, 400 A and 550 A. The Omega 300 is available as an air-cooled C version (compact). The Omega 400 and 550 are available as air-cooled or water-cooled in C or S version with separate MWF 27 wire feed unit and replaceable interconnecting cables with quick-release fittings. IGC (Intelligent Gas Control) is an optional feature in all models, ensuring large-scale gas savings and optimal gas shielding in all current ranges.

EASE OF OPERATION

The Omega range is available with three different control panels: Basic, Classic and Advanced. Basic and Classic are manual control panels by means of which you can operate the machine almost like a step-regulated welding machine, but they have all the advantages of an infinitely variable inverter. The Advanced control panel is synergic and features more than 70 versatile welding programs.

FROM MIG/MAG TO MMA OR GOUGING

With the Advanced control panel, the Omega is easy to change over from synergic MIG/MAG programs to MMA welding. Gouging is a standard feature in the Omega 550 with Advanced panel.

POWERARC™ FOR THICK-WALLED PLATES

The program package for Omega 400 and Omega 550 with Advanced panel also includes PowerArc™ programs.

OMEGA BOOST OR AUTOTRANSFORMER

The Omega 300 is available with electronic Boost Converter (autotransformer) for welding on all mono-phase and three-phase mains voltages. The Omega 400 and Omega 550 are available with a conventional autotransformer.

REVERSED POLARITY

All Omega versions feature reversed polarity for welding with innershield wire (without gas).

The MWF 27 wire feed unit is turnable and detachable and equipped with four-roll wire feed system. Made of weather-proof reinforced aluminium, the wire feed unit is ideal for heavy-duty applications, and its control panel makes it easy to operate the welding machine on the welding site.

The incorporated cooling system keeps the operating temperature in the torch low, irrespective of current load. This ensures trouble-free wire feeding and long life of wearing parts. The Omega 550S features double cooling and if combined with the FKS type of the MIG-A Twist torch with a double cooling chamber, optimal comfort is provided under all operating conditions.



PowerArc™ ensures full penetration in fillet welds and butt welds and increased welding speed using mild and stainless steels.



Basic panel for manual setting of welding jobs

Classic panel for manual control of the welding machine – including the advantages of the infinitely variable inverter

Advanced panel featuring e.g. PowerArc™ and DUO Plus™. DUO Plus provides a TIG-like weld appearance and better control of the weld pool. The panel contains programs for MIG brazing and welding using flux-cored or solid wires in mild and stainless steels and aluminium.

The welding machines may be shown with optional equipment.



Welding in mild steel.



A program reader is incorporated in the Omega machines for easy software update via the SD card; the welding machines are designed to meet new requirements for materials and shielding gases.

SOFTWARE UPDATES

At migatron.com you can download software for update of the Omega machines via the SD card.



MIG-A TWIST® - THE NEW GENERATION OF TORCHES

The ergonomic MIG-A Twist torch has a turnable swan neck for easy access to hard-to-reach locations. Control unit for adjustment of welding current at the torch handle is available as optional equipment.

Omega 400 S-W with relief arm.



Omega 300 C Classic air-cooled and Omega 550 C Advanced water-cooled - both on trolleys.



OMEGA DATA

We reserve the right to make changes.

| POWER SOURCE | Omega 300 C | Omega 400 C/S | Omega 550 C/S |
|---|--|--|------------------------------|
| Current range, A | 15-300 | 15-400 | 15-550 |
| Mains voltage +/- 15%, V | 3x400 | 3x400 | 3x400 |
| Mains voltage +/- 10%, V (Boost version) | 3x230-400. 1x230-400 | | |
| Mains voltage +/- 15%, V (Auto transformer) | | 3x230-500 | 3x230-500 |
| Fuse, A | 10 | 20 | 35 |
| Duty cycle 100%/40°C, A/V | 175/22.8 | 300/29.0 | 430/35.5 |
| Duty cycle 60%/40°C, A/V | 195/23.8 | 370/32.5 | 510/39.5 |
| Duty cycle max./40°C, A | 300/24/29.0 | 400/50/34.0 | 550/50/41.5 |
| Duty cycle 100%/20°C, A | 230/25.5 | 335 | 475/37.8 |
| Duty cycle 60%/20°C, A | 245/26.3 | 400 | 550 |
| Open circuit voltage, V | 52 | 70 | 80 |
| Protection class | IP 23 | IP 23 | IP 23 |
| Norm | EN/IEC60974-1, EN/IEC60974-5, EN/IEC60974-10 | | |
| Dimensions C (H x W x L), mm | 550x250x640 | 530x250x650 (C) / 1400x510x1020 (S) | 630x250x650 1400x510x1020 |
| Weight C/S, kg | 26 | 36.5 (C) / 84 (S) | 37.5 (C) / 85 (S) |

| WIRE FEED UNIT | MWF 27 |
|----------------------------|-------------------------------|
| Wire feed speed, m/min. | 1.5-27.0 |
| Wire spool diameter, mm | 300 |
| Duty cycle 100%/40°C, A/% | 420/100 |
| Duty cycle 60%/40°C, A/% | 500/50 |
| Torch connection | EURO |
| Protection class | IP 23 |
| Norm | IEC60974-5. IEC60974-10 CL. A |
| Dimensions (H x W x L), mm | 470x210x690 |
| Weight, kg | 13 |

| COOLING UNIT | |
|--------------------------------|-----------------|
| Cooling capacity (1 l/min.), W | 1100 |
| Tank capacity, liter | 3.5 |
| Flow, bar - °C – l/min. | 1.2 - 60 - 1.75 |
| Max. pressure, bar | 3 |
| Norm | EN/IEC60974-2 |

Dealer's stamp:

EXAMPLES OF EQUIPMENT:

- IGC® Intelligent Gas Control
- Relief arm for S version
- Current control unit
- Push Pull kit (Omega 400/550)
- Wheels and lifting bracket for MWF 27 (Omega 400S/550S)
- Trolley for C version
- Efficient cooling with or without flow control
- Boost Converter (Omega 300)
- Autotransformer 230-500 V (Omega 400/550)
- CEE mains plug
- Protective frame (Omega 300)
- Gouging torch (Omega 550)

READ MORE AT MIGATRONIC.COM

- IGC® Intelligent Gas Control



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