

MIG ARC 400 PRO WELDING MACHINE

HEAVY-DUTY INDUSTRIAL DUAL MIG/MAG & MMA POWER SOURCE

Technical Data Sheet
Model: MIG-ARC 400
PRO

The **MIG ARC 400 Pro Welding Machine** is a high-capacity, heavy-industrial multi-process inverter power supply designed for demanding continuous production. Equipped with an external 4-roll wire feeder unit, heavy-duty duty cycle ratings, and dual MIG/MAG and MMA stick welding capabilities, it delivers deep weld penetration, ultra-low spatter rates, and dependable performance across thick steel plates and structural components.

KEY OPERATING FEATURES

- External 4-Roll Wire Feeder:** Heavy-duty separate feeder unit allows extended work radiuses and reliable wire delivery.
- Dynamic Inductance Control:** Adjustable electronic wave control for precise arc stiffness, bead shape, and spatter control.
- 2T / 4T & Crater Filling Mode:** Built-in 2T/4T trigger latching with crater voltage and current adjustment to prevent weld termination cracks.
- Multi-Process Functionality:** Supports Gas MIG/MAG (CO2 / Mixed Gas), Flux-Cored (FCAW), and MMA/SMAW Stick welding.
- High Duty Cycle:** 60% @ 400 A output designed for heavy continuous industrial production environments.
- Thermal & Voltage Protection:** Comprehensive multi-sensor protection against thermal overload, phase loss, and over/under-voltage.

TECHNICAL SPECIFICATIONS

PARAMETER	SPECIFICATION VALUE
Input Power Supply	415 V ± 15%, 3-Phase, 50/60 Hz
Rated Input Power Capacity	18.5 kVA / 16.0 kW
MIG Output Current Range	50 A – 400 A
MMA Output Current Range	30 A – 380 A
Rated Duty Cycle (40°C)	60% @ 400 A / 100% @ 310 A
No-Load Voltage (OCV)	68 V DC
Wire Feed Speed Range	3.0 m/min – 21.0 m/min
Usable Wire Diameters	Ø 0.8 mm / 1.0 mm / 1.2 mm / 1.6 mm
Wire Feeder Type	Separate 4-Roll Geared Feeder with Interconnecting Cable
Efficiency / Power Factor	≥ 87% / 0.93
Insulation / Protection Class	Class F / IP21S
Power Source Weight / Dimensions	38.5 kg / 655 mm × 310 mm × 565 mm

APPLICATIONS & INDUSTRY USE

Heavy Shipbuilding & Offshore

Continuous heavy-plate joining, hull construction, and marine structural fabrication.

Steel Structures & Cranes

Building columns, heavy machinery chassis, crane booms, and bridge girders.

Pressure Vessels & Tanks

High-speed filler pass deposition on storage tanks, silos, and industrial piping.

* Ensure proper shielding gas regulator flow settings and verify drive roll sizing (0.8–1.6mm) matching chosen wire type before operating.