ARC 251i

MMA Inverter Welder

SMAW GTAW 1 PHASE CC DC



ARC 251i

Compact & Efficient

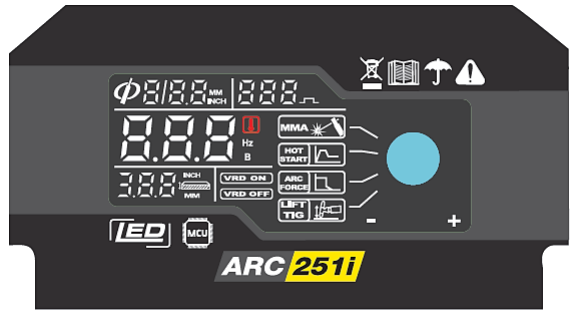
ARC 251i is a power source controlled by an IGBT-based inverter, designed for MMA (Stick) and Live Tig welding. The digital microprocessor enhances control over all arc parameters, delivering superior welding performance. Additionally, it offers guidance for setting welding parameters, supporting entry-level operators.

- User-friendly interface with a large digital display
- MMA Pulse functionality – improves heat input control, minimizes distortion of thin materials and helps reduce spatter for higher quality welds.
- Adjustable Arc Force and Hot Start - custom arc intensity for improved weld quality
- Compatible with MSGP, LH & SS electrodes
- Voltage Reduction Device (VRD) to increased safety at workplace
- Overheating protection

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Industry or Process

- Repair and Maintenance
- Civil Construction
- Agricultural Equipment
- Industrial and General Fabrication



Control Panel

ARC 251i

Specifications	
Mains Supply, V / Ph,Hz	220 ± 10% / 1, 50/60
Rated Input Power, KVA	13
Output Current Range MMA / Live TIG , A	MMA 10 - 250 | TIG 10 - 250
Output Voltage Range, MMA / Live TIG V	MMA 20.4 - 30 | TIG 10.4 - 20
Duty Cycle 40% ,MMA / Live TIG , A	MMA 250 | TIG 250
Duty Cycle 60%, MMA / Live TIG , A	MMA 200 | TIG 200
Duty Cycle 100%, MMA / Live TIG , A	MMA 158 | TIG 158
Open Circuit Voltage, V	77
VRD, V	13
No-load power, W	50
Power Factor at maximum current	0.69
Efficiencyat maximum current, %	82
Protection Class	IP 21S
Insulation Class	H
Operating temperature, deg C	-10°C to +40°
Weight, Kg	6.26
Dimensions (L x W x H), mm	385x185x300 mm
Standards of conformity	IEC60974-1

Ordering Information	
Description	**Part Number**
ARC 251i	4610210252

ARC 251i is delivered 2.5m mains cable, electrode holder w/o cable , earth clamp w/o cable and 2nos OKC (35-50)

25-06-2025 // ESAB reserves the right to alter specifications without prior notice.