

MAESTRO 1000 (I)

The world class inverter based
Submerged Arc Welding Outfit



- Inverter based digitally controlled Welding head and Power source.
- High efficiency and high power factor – resulting 30% energy saving over conventional SAW outfit
- Enhanced Reliability due to SMD technology
- Suitable for Gouging Application.



WELDERS TO THE NATION SINCE 1951
ADOR WELDING LIMITED

(Formerly known as Advani-Oerlikon Ltd.)
www.adorwelding.com



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3

Phase



SAW

INTRODUCTION







MAESTRO 1000 (I) is inverter based SAW outfit suitable for SAW process and Gauging applications. The IGBT Power module, ferrite core and fast recovery diode are used as key device for power conversion and transmission to assure better efficiency and performance.

The complete system consists of inverter based power source, and welding head mounted on the tractor and interconnecting cables. SAW flux is used for shielding weld metal against external atmosphere.

SALIENT FEATURES

- Inverter based power source is energy efficient gives almost 30% energy saving over conventional type of machines.
- Multi turn potentiometer provides precise adjustment and ensure accurate parameter settings.
- User friendly interface including button, LED and indicator lamp , which helps in easy operation of the equipment.
- Micro controller based Controllers ensures real time response for every parameter set.
- The wire diameter selection system is based on fuzzy control, which is suitable for the wire range of 2.5mm~φ5.0mm.
- Protection against supply voltage variation and over heating.

POWER SOURCE :PS-1000 (I)

PARAMETERS		UNIT	SPECIFICATIONS
INPUT			
Input Supply:			
Voltage		Volt	415 V +10 %, -10 %
Phase		No	3 Ø
Frequency		Hz	50 / 60
Input KVA @ 1000 A Welding current		KVA	57.5
Input current @ 1000 A Welding current		A	80.0
OUTPUT			
Open Circuit Voltage		Volt DC	85
Welding Current Range		Amp	100-1000
Duty cycle 100 %		Amp	1000
Welding Voltage Range		Volt DC	26- 44
Power Factor		Cos (Ø)	0.90
Efficiency		%	≥84
GENERAL			
Insulation Class		Class	F
Ingress Protection		Class	IP23S
Suitable welding wire dia		mm	2.5- 5.0
Cooling		Type	Forced Air
Dimensions (L x W x H)		mm	770 x 390 x 860
Weight (approx.)		Kg	93
Audio Noise Emission		dB	70



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WELDING HEAD: WH 15 (I)

PARAMETERS	UNIT	SPECIFICATIONS
INPUT		
Input Supply: Voltage	Volt	24 (From Power Source)
OUTPUT		
Welding Current Range	Amp	100-1000
Duty cycle 100 %	Amp	1000
Welding Voltage Range	Volt DC	26- 44
Welding Carriage Speed	m/min	0.2-2.5
Wire Feed Speed	m/min	0.3-3
GENERAL		
Welding head to job adjustments	mm	Horizontal distance 100 Vertical distance 100
Head right & left cross swivel range	degree	±40°
Head forward & backward swivel range	degree	±20°
Welding flux-hopper capacity	L	8
Wire spool weight	kg	30
Suitable Welding wire diameter. (mm)	mm	2.5-5.0
Dimensions (L x W x H)	mm	950 x 410 x 700
Weight (approx.)	Kg	67

ORDERING INFORMATION:

PRODUCT	MODEL	PRODUCT CODE
SAW Welding Outfit	MAESTRO 1000 (I)	F10.36.004.0101
Power Source	PS-1000 (I)	F10.36.004.0102
Welding Head	WH-15 (I)	F10.36.004.0103



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- **Warranty:** One year from the date of purchase. ADOR WELDING LIMITED warrants that all new equipment sold from Plant/Area Offices / Authorised Distributors are free from defects in materials and workmanship and will perform in full accordance with applicable specifications.
- In view of continuous development, ADOR WELDING LIMITED reserves the right to modify/change the design and /or the specifications without any prior notice.
- Backed by dedicated customer care package.



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