



ENDEAVOUR 1000 CC/CV

Multi-process Welding Equipment

**SAW / MIG / HARD-FACING
5in1 GOUGING / ARC**

Solaris provides the most reliable in its class, the Endeavour 1250 CC/ CV Multi process welding equipment. The ENDEAVOUR series is well known in the market for its simplicity, reliability, ruggedness and is capable of serving the customer in tough environments. The ENDEAVOUR series is designed to work under wide voltage fluctuations, protected against over current for IGBT protection with indication, Phase error detection. On Load Power Consumption is upto 50% lesser than conventional Non-inverter type Welding Machines. The most advanced and latest "DIGICon" technology enables it to perform Submerged ARC Welding, MIG Welding, Hard-facing, MMA Welding and Gouging process, making it a universal machine.



POWER SOURCE for SAW / MIG / HARDFACING / CAG / MMAW

- * 10 functional job memories to store parameters.
- * Password lock of front panel.
- * 2T - 4T functionality for manual welding.
- * Local / Remote, to operate from panel/feeder/carriage.
- * Gas Test, helps to test gas flow before welding.
- * Inbuilt Weld-o-meter to evaluate welding/arcing time.
- * Inbuilt Protections
 - OC - Over Current
 - OT - Over Temperature
 - OV - Over Voltage
 - UV - Under Voltage
 - SP - Single Phase Loss

Technical Specification	SAW	MIG / Hard-Facing	ARC / Gouging
Input Supply Voltage	330-500VAC, 3Ph	330-500VAC, 3Ph	330-500VAC, 3Ph
Max Installed Power	53.5KVA/68.15 HP	53.5KVA/68.15 HP	53.5KVA/68.15 HP
Set Voltage	14.0 to 54.0 VDC	14.0 to 54.0 VDC	NA
Current Range (Amps)	25A-1250A	25A-1250A	25A-1250A
Current @60% Duty	1000 Amps	1250 Amps	1250 Amps
Current @100%Duty	770 Amps	1000 Amps	1000 Amps
Maximum OCV	95 VDC	95 VDC	95 VDC
Dimension (WxLxH)mm	460x1100x1170	460x1100x1170	460x1100x1170
Weight (KG)	140 KG	140 KG	140 KG
Additional Features:	Additional Features:	Additional Features:	Additional Features:
Burn Back	0.1 TO 5.0 sec	0.1 TO 5.0 sec	NA
Inductance	-8 to +8	-8 to +8	NA
Preflow Gas	0.0 to 25.0 sec	0.0 to 25.0 sec	NA
Postflow Gas	0.0 to 25.0 sec	0.0 to 25.0 sec	NA
Hot Start	NA	NA	0 to 100%
Arc Force	NA	NA	0 to 100%

Note: Continuous development entitles us to change / update specifications without further notice

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WT-1250 WELDING TRACTOR

Technical Specification	SAW Tractor
Input Voltage of carriage	42 VAC from Power Source
Input current of carriage	4 Amp from Power Source
Motor Voltage	42VDC
Type of Wire feeding	Continuous wire feeding
Welding Speed	0.2 to 1.5 m/min
Wire feeding speed	0.3 to 3.0 m/min
Rated Power Source	1250A
Flux container volume	6.0 L
Dimension (WxLxH)mm	1080 x 480 x 740
Weight (KG)	60KG
Horizontal movement	70mm
Vertical Movement	70mm
Set Voltage on Tractor	14.0 to 54.0 VDC
Set Current on Tractor	25A to 1250A

Function button parameters

Burn Back	0.0 to 10.0 Sec
Wire Retract	0.0 to 10.0 Sec
Start Voltage	14.0 tot 54.0 VDC
Start Current / Speed	0.3 to 3.0 m/min
Start Time	0.0 to 10.0 Sec
Crater Voltage	14.0 to 54.0 VDC
Crater Current / Speed	0.3 to 3.0 m/min
Crater Time	0.0 to 10.0 Sec

Tractor Panel Features

- * 10 functional job memories to store parameters.
- * Password lock of front panel.
- * CV Mode (Preset Wire Speed Control)
- * CV + C Mode (Preset Current Control)
- * Display toggle to view Amps / Wire Speed
- * Wire Inch Up & Down
- * Carriage Inch Forward & Backward
- * Inbuilt Weld-o-meter to evaluate welding/arcing time.



HFWF-Wire Feeder for Hard-Facing



Wire Diameter	2.0/2.4/2.8/3.2 mm
Wire Drive Motor	PMDC 24VDC
Drive System	4 Roll All Geared Dual Torque
Wire Speed Control	PWM Control
Wire Speed	0.6 to 6.0 m/min
Spool Capacity	25KG

HFWC-Water / Liquid Circulation Unit

Tank Capacity	50 Litres
Cooling	Forced Air
Heat Exchange	Radiator with Copper tubing
Dimensions (W x L x H)	382 x 582 x 450 mm
Weight	42Kg



WF MIG-Wire Feeder for MIG / MAG



Wire Diameter	0.8 to 1.6 mm
Wire Drive Motor	Servo / PMDC 24VDC
Drive System	2 Roll / 4 Roll
Wire Speed Control	PWM Control
Wire Speed	1.8 to 18 m/min
Spool Capacity	15KG

ACCESSORIES

Mig Torch



Flow Meter



Gouging Torch



Pre Heater



Earthing Clamp



Co2 Regulator



Authorised Dealer