

INDUSTRIAL CC-CV WELDER (MIG/ARC) (GMAW / FCAW / SMAW)

MAGNUS 500 CC/CV

Industrial Heavy Duty MIG/MAG/ARC Welder



TECHNICAL SPECIFICATION

Input Specifications

Input Supply: 330-500VAC, 3Ph, 50/60Hz
Input @ 500A / 39V : 24.2KVA / 31HP, 34A@415V
Input @ 385A / 33V : 15.9KVA / 20.5HP, 22A@415V
Input @ 310A / 32V : 12.5KVA / 15.8HP, 17.3A@415V

Mechanical Specifications

Dimensions (LxWxH): 650x345x545mm
Weight: 50KG

Functional Specifications

Crater Current: 0.8-22.0 m/min
Crater Voltage: 14.0 to 42V
Anti-Stick: 0-2secs
Inductance: -8 to +8
Arc Force: 0-100%
Hot Start: 0-100%

Output Specifications

Output Current Range: 10A to 500A
Voltage Range: 14.0 to 42.0V
Wire Feed Speed: 0.8 to 22.0 m/min
Duty Cycle @ 60%: 500A / 39V
Duty Cycle @ 100%: 385A / 33V
Open Circuit Voltage (OCV): 70V DC

Protection Features

OT-Over Temperature (when internal temperature more than 70°C).
SP-Phase loss protection (when any phase is not present).
UV/OV-Input supply protection (when supply is <330V or >500VAC).
OC-Over Current (when over current flows through IGBT)

Magnus 500 CC/CV is an Industrial High Performance CC/CV welding machine which can be used for both constant current (CC) and constant voltage (CV) processes of welding.

FUNCTIONAL FEATURES

ARC Force for smooth and crisp welds.
Hot Start helps in rusted and dirty welds.
Adjustable Crater current/ Crater Voltage to avoid crater formations and welding defects.
Inductance helps you achieve desirable penetration.
Gas Test for testing Gas flow rate prior to welding.
Anti-Stick prevents sticking of wire to job.
2T/4T trigger settings for welder comfort during long seams.

OTHER FEATURES

Dual Torq Feeding system for controlling wire feeding precisely with V-groove, U-groove, Knurled rollers for different wire types.
IP65 Panel parts dust and water protected front panel switches & buttons.
IP23 Rated chassis suitable for outdoor as well as indoor use.
Steel Body for long life and rugged usage.
Terminals Lug type heavy duty rated.

Specification of WIRE FEEDER

Wire Diameter (mm)	0.8 - 1.6
Wire Drive Motor (Type)	PMDC 24VDC
Drive System (Type)	4 Roll DualTorq
Wire Speed Control (m/min)	Linear Supply 0.8 to 22
Dimensions (W x L x H) in mm	215 x 550 x 290
Weight (Kgs)	10kg



FRONT



- | | |
|-----------------------------|---------------------------|
| 1. Protection Indicators | 7. Hot Start/Anti-Stick |
| 2. Voltage/Current Display | 8. Gas Test |
| 3. ARC/MIG Switch | 9. Inductance |
| 4. 2T/4T Switch | 10. Terminals |
| 5. Base/Crater Current | 11. Fuse |
| 6. Arc Force/Crater Voltage | 12. Wire Feeder connector |

BACK



1. 10A Fuse
2. Preheater
3. Earthing
4. MCB Box
5. Input Cable



A) MAGNUS 500CCCV power source with wire-feeder with interconnecting cable 5 meter and 50sqmm N36-ER45 MIG Torch, Earthing Clamp set 3 meter with 50 sqmm cable Preheater, Co2 regulator, Flowmeter.

Order Code : APS - M500CCCV



B) Welding machine trolley with swivel support for wirefeeder. Welder accessories and tools storage bay and cylinder holding facility.

Order Code : APS - MIGTROLLEY



1) Electrode Holder 500A with 3 meter 50sqmm cable

Order Code: AEH500A3M50SQ



2) Earthing Clamp 500A with 3 meter 50sqmm cable

Order Code: AEC500A3M50SQ

3) Interconnecting Cable 5meter 50sqmm.

Order Code: ICC5M50SQ

4) Interconnecting Cable 10meter 50sqmm.

Order Code: ICC10M50SQ

5) Interconnecting Cable 15meter 50sqmm.

Order Code: ICC15M50SQ



MIG Torch (Gun)

1) N24-ER25

2) N36-ER45

For Torch consumables refer to TORCH catalog.



Wire Feed Unit

1) Wire Feed Unit - WFSSJ11

2) Plastic Spool Cover - PSC-WFSSJ11

Gas Accessories

1) CO2 Regulator - AREGSSDG-CO2

2) Co2 Preheater - APREHEATER-230VAC

3) Gas Flow Meter - AGASFLOWMTR



AUTHORISED DEALER :