

**INDUSTRIAL
PORTABLE
SMAW WELDER**



MAGNUS 300 CC/CV

Industrial Heavy Duty MIG/MAG/ARC Welder

TECHNICAL SPECIFICATION

Input Specifications

Input Supply: 330-500VAC , 3Ph , 50/60Hz
 Input @ 300A / 32V : 11.8KVA / 15.1HP, 16.5A@415V
 Input @ 205A / 28V: 7.1KVA / 9.1HP, 10A@415V
 Input @ 190A / 27.6V: 6.5KVA / 7.18HP, 7.8A@415V

Mechanical Specifications

Dimensions (LxWxH): 565x270x470mm
 Weight: 38KG

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 300A
 Voltage Range: 14.0 to 42.0V
 Wire Feed Speed: 0.8 to 22.0 m/min
 Duty Cycle @ 60%: 300A / 36V
 Duty Cycle @ 100%: 205A / 32V
 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 300 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

- Remote Feature** for controlling welding current using a hand held remote or foot pedal.
- 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 - 1.0
Wire Drive Motor (Type)	PMDC 24VDC
Drive System (Type)	2 Roll
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 300CCCV power source with wire-feeder with interconnecting cable 5 meter and 25sqmm N24-ER25 MIG Torch, Earthing Clamp set 3 meter with 25 sqmm cable Preheater, Co2 regulator, Flowmeter.

Order Code : APS - M300CCCV



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 200A with 3 meter 25sqmm cable

Order Code: AEH200A3M25SQ



3) Earthing Clamp 200A with 3 meter 25sqmm cable

Order Code: AEC200A3M25SQ



MIG Welding Torch

- 1) N24-ER25 used with Magnus 250 and 300 CCCV
- 2) NI5-ER16 used with Magnus 250 and 300 CCCV



Co2 regulator

- 1) CO2 Regulator - AREGSSDG-CO2
- 2) Co2 Preheater - APREHEATER-230VAC
- 3) Gas Flow Meter - AGASFLOWMTR



AUTHORISED DEALER :