

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

## MAGNUS 400 CC/CV

Industrial Heavy Duty MIG/MAG/ARC Welder



### TECHNICAL SPECIFICATION

#### Input Specifications

Input Supply: 330-500VAC , 3Ph , 50/60Hz  
 Input @ 400A / 36V : 17.8KVA / 22.7HP, 25A@415V  
 Input @ 310A / 32V: 12.5KVA / 15.8HP, 17.3A@415V  
 Input @ 250A / 30V: 9.3KVA / 11.8HP, 13A@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 400A  
 Voltage Range: 14.0 to 42.0V  
 Wire Feed Speed: 0.8 to 22.0 m/min  
 Duty Cycle @ 60%: 400A / 36V  
 Duty Cycle @ 100%: 310A / 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 400 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 400CCCV 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 - M400CCCV



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 400A with 3 meter 50sqmm cable

Order Code: AEH400A3M50SQ

2) Electrode Holder 400A with 3 meter 35sqmm cable

Order Code: AEH400A3M35SQ



3) Earthing Clamp 400A with 3 meter 70sqmm cable

Order Code: AEC400A3M50SQ

4) Earthing Clamp 400A with 3 meter 35sqmm cable

Order Code: AEC400A3M35SQ



5) Interconnecting Cable 5meter 50sqmm.

Order Code: ICC5M50SQ

5) 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 :