

Welding Machine

MIG/MAG/ CO2 Welding Machine

Model No: DI-106

General

- Constant Potential Power Source.
- Wire Feeder.
- Pressure Regulator with Flow Meter and Gauge
- .Perfect workshop tool for engineering industry.
- Gas Cooled Torch.
- Gas Preheater.
- Gas Hose with Connectors.
- Welding Cable.
- Contol Plug.

Application

MIG / MAG / CO2 Welding Machines are widely used in small as well as large Industries doing Fabrication Work, right from General Repair Work. Small fabrication to Heavy Machine Building, Body Building, Vessel Building and Heavy Structural Work, using Copper Coated Wires.



Process

It is universally known as Metal Inner Gas (MIG) / Metal Active Gas (MAG), Welding Process using Argon Gas or Co2 Gas for shielding the weld pool to avoid oxide formation during welding. In this Wires of 0.8, 1.2 or 1.6 mm is continuously/ intermittently fed through wire feeder Mechanism Torch to weld different types of jobs with the help of D. C. Power source. It is a sort of Semi-Automatic Welding Process.

Design

Having Latest Technology Circuit Modular Compact, suitable for Critical Welding Applications, Sturdy Construction for any type of Job using Copper coated wire for smooth and Spatter Free Welding Continuously/intermittently.

Technical Specifications

MODEL	DI-180A	DI-180B
POWER SOURCE MAXIMUM		
WELDING CURRENT	250 Amp*.	400 Amps.
@ 60% Duty cycle (Amps.)	250	400
@ 100% Duty cycle (Amps.)	190	320
RATING		
@ 60% Duty cycle -(KVA)	10.5	22.5
@ 100% Duty cycle (KVA)	7.5	18.5
Open circuit voltage range (V-Dc)	18-40	20-56
INPUT		
Voltage (Volts)	415V+-W	415V+/-10%
Phase (Nos.)	3	3
Frequency (Hz)	50	50
Recommended switch fuse rating (Type/Amps.)	TP/25 Amps.	TP/35 Amps.
OUTPUT		
Static Characteristics Type	Constant Potential	Constant Potential
Transformer Coils Winding	Copper	Copper
Insulation Class	F	F
Cooling Air	Forced Air	Forced Air

Technical Specifications

MODEL	DI-180A	DI-180B
Maximum Current Capacity @ 60% Duty Cycle		
For Co2 Amps.	250	400
For MIG Amps.	200	320
Cable Length Mtrs.	3m	3m
Suitable for wire size		
Hard Wires (Steel) mm	0.8-1.2	0.8-1.2-1.6
Soft Wires (Aluminium) mm	1.2	1.6
Cooling Type	Gas	Gas

Technical Specifications

WIRE FEEDER		
MODEL	DI-180A	DI-180B
Speed Control	Thyristorised	Thyristorised
Wire Diameter		
Mild Steel	0.8-1.2	0.8-1.2-1.6
Stainless Steel	0.8	1.2-1.6
Aluminium mm	0.8	1.2-1.6
Wire Drive Motor Type	PMDC 36V/80 Watt	PMDC 36V/80 Watt
Drive System Type	2 Roll quick release	2 Roll quick release
Wire Feed		
Speed Mtr./min	1.5 to 20	1.5 to 20