

Buddy™ Mig 500i

Rugged and Reliable Inverter MIG/MAG

Robust and Powerful

Buddy Mig 500i is a heavy duty, fan cooled, IGBT based inverter based power source for MIG/MAG welding.

The power source is built to withstand rugged use which makes it a perfect solution for industrial usage. It is ideal for heavy industries using solid and flux-cored wires.

The wire feeder is light in weight and equipped with large feed rollers and powered by a heavy duty drive system for smooth wire feeding.

The power source has a wide mains voltage tolerance to suit extreme working conditions and has a high duty cycle for continuous operation.

Electronic controls give accurate and stable arc performance. Stepless inductance control provides good arc starting characteristics and low spatter level.

Easy settings

The power source has simple and user-friendly control panel. Wire feed speed, voltage and wire inching control are available on the wire feeder. The crater current and voltage, gas check, 2/4 stroke and inductance control can be set from the front panel of the power source.

Other settings such as creep start, pre-flow and post-flow are preset to reduce the hassle of adjusting the machine.

Flexibility

The compact & lightweight wire feeder allows access of the feeder unit into tight spaces, thus improving mobility.

The power source has an heater outlet for powering a 110V CO₂ heater regulator to remove the need for an external power supply for the heater.

Sturdy eyelets are provided for the easy lifting of the power source. The wire feeder is available with interconnection up to 25m.



Energy Efficient

The Buddy™ Mig machines are constructed to maintain a high power factor and efficiency, thus keeping the energy cost to a minimum without affecting the weld quality.

Safety and Reliability

The Buddy™ Mig machines conform to the International Standards that ensure the reliability and safe use of these machines.

These units are equipped with overheating and mains over/under voltage protection that will temporarily switch off the machines automatically to prevent any potential damage that the components might sustain.

Applications

- **General Fabrication**
- **Construction**
- **Railways**
- **Pipe Workshops**
- **Shipbuilding**

- **Inverter controlled** – more efficient power usage
- **Light weight** – improved mobility
- **Easy-to-use control panel** – quick setup
- **Feeder mounted remote** – easy to control welding voltage and wire feed speed
- **Stepless inductance** – better arc performance
- **In-built protection** – against thermal overloading and over/under voltage
- **Wide mains voltage tolerance** – stable welding conditions

Technical Specifications

Buddy™ Mig 500i

Mains voltage, V/Ph, Hz	400V ± 15% / 3, 50
Fuse (slow), A	35
Mains cable, Ø mm ²	4C x 6
Permitted load at 60% duty cycle, A/V	500 / 39
Permitted load at 100% duty cycle, A/V	387 / 33.4
Power factor at maximum current	0.93
Efficiency at maximum current, %	85
Setting range (MIG/MAG), A/V	50 – 500 / 15 – 50
Open circuit voltage, V	70
Dimensions, l x w x h, mm	610 x 335 x 640
Weight, Kg	56
Operating temperature	-10 till 40°C
Application class	S
Standards	IEC 60974-1 IEC 60974-10

Buddy™ Feed 402

Drive mechanism	DC motor
Speed control	Stepless
Wire feed speed, m/min	1.5 – 20
Wire diameter, MS/SS / (FC/Al), mm	0.8 – 1.6 / (1.2 – 1.6)
Dimensions l x w x h, mm	460 x 200 x 280
Weight, Kg	9
Operating temperature	-10 till 40°C



Ordering Information

Buddy™ Mig 500i	0700 301 001
Buddy™ Feed 402	0700 301 200
Connection Set 5m	0700 301 302
Connection Set 10m	0700 301 303
Connection Set 15m	0700 301 300
Connection Set 25m	0700 301 301

Delivery Content: Buddy Mig 500i is delivered along with 3m mains cable and 5m return cable with clamp,

PSF 405 3m Euro Torch	4650 692 920
PSF 405 4.5m Euro Torch	4650 692 921
PSF 505 3m Euro Torch	4650 692 922
PSF 505 4.5m Euro Torch	4650 692 923

Optional Accessories:

Argon Flowmeter Regulator	4330 173 000
Regulator IAR52B (Argon)	4330 196 320
Regulator Dura Argon	4330 196 510
CO ₂ Heater 110V with Core	0651 689 045
Regulator ICO32B (CO ₂)	4330 193 100
Regulator Dura CO ₂	4330 180 500
Welding Hand Gloves	2001 005 001
Eco Arc Helmet	2001 001 003
Origo Tech 9-13 Helmet	2001 001 001

Unrivalled Service And Support

Our commitment and ability to deliver the expected service and support starts immediately after the order is confirmed. We endeavour to offer our customers an After Sales service, which is second to none. A strong and skilful service organisation is prepared to offer service and maintenance, calibration, validation and upgrading of equipment and software. The service organisation will offer standardised solutions for the reconditioning or modification of existing products.

Quality Accessories For Quality Welding

ESAB offers a wide range of accessories. The complete range, along with product information, is available at www.esabindia.com or contact your local ESAB dealer.



ESAB reserves the right to alter specifications without prior notice

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