



Buddy Mig 500i
Rugged and Reliable Inverter

Robust and Powerful



- Heavy Duty Inverter (IGBT) for MIG/MAG welding.
- Rugged and Reliable Design.
- Suitable for 0.8 – 1.6mm (MS/SS) and 1.2 – 1.6mm (Al/FC) wire.
- Handles long interconnection lengths up to 25m.
- Sustenance to wide mains voltage fluctuations.

Parameter	Buddy Mig 500i
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Mains supply, V/Ph, Hz	400±15% / 3, 50
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Output current range, A/V	50 – 500 / 15 – 500
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Open circuit voltage, V	70
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Permitted load at 60% duty cycle, A/V	500 / 39
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Permitted load at 100% duty cycle, A/V	387 / 33.4
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Parameter	Buddy Feed 402
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Wire feed speed, m/min	1.5 – 20
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Wire diameter MS/ (Al/FC), mm	0.8 – 1.6 / (1.2 – 1.6)
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MIG/MAG Welding



- Buddy Mig 500i handles most MIG/MAG welding applications.
- Buddy Feed 402 is equipped with large feed rolls and powered by a heavy duty drive system for smooth wire feeding.
- Buddy Feed 402 handles 0.8 – 1.6 mm MS and 1.2 – 1.6mm FC/Al wires.
- Current range of 50 – 500A enables to give equally good output on thin sheets as well as on thick plates.
- Stepless inductance control gives stable arc with minimum spatter.

Parameter	Buddy Mig 500i
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Output range, A/V	50 – 500 / 15 – 50
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Parameter	Buddy Feed 402
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Wire diameter MS/ (Al/FC), mm	0.8 – 1.6 / (1.2 – 1.6)
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Interconnection length, m	5 / 10 /15 / 25
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Connection type	EURO
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Safety and Reliability



- Power source constructed and tested as per EN 60974 -1, -10 (EMC).
- In-built protections against over heating and over/under voltage.
- Wide tolerance of $\pm 15\%$ to the mains voltage.
- OKC connectors, no live parts exposed and quick polarity change.
- Class 'S' – designed to operate in areas with high electrical hazard.

Parameter	Buddy Mig 500i
Mains supply, V/Ph, Hz	400 \pm 15% / 3, 50
Power source cooling	Forced Air
Digital Display	Voltage / Current
Operating temperature, Deg C	-10 to +40
Application class	S
Standards	IEC 60974 -1 / -10

User Friendly Controls



- Easy-to-use controls.
- 2/4 stroke selection on machine.
- Gas check / weld mode selection on machine.
- Wire inching facility on wire feeder.
- Preset creep start, pre-flow and post-flow for user convenience.
- Remote mounted on wire feeder.
- Welding voltage and wire feed speed adjustable on remote.
- Stepless inductance control for hard / soft arc on machine.

Energy Efficient



- Compact and efficient design.
- Approx. 70% lighter than conventional machines.
- High power factor = 0.93, lower input kVA
- Efficiency one of the highest in its class.

Parameter	Buddy Mig 500i
Power factor (max)	0.93
Efficiency (max)	85%
Dimensions, l x w x h, mm	610 x 335 x 640
Weight, kg	56

Technical Specifications

Parameter	Buddy Mig 500i	Parameter	Buddy Feed 402
Mains supply, V/Ph, Hz	400±15% / 3, 50	Wire feed speed, m/min	1.5 – 20
Effective input current, A	29	Wire diameter MS/SS / (Al/FC), mm	0.8 – 1.6 / (1.2 – 1.6)
Output range, A/V	50 – 500 / 15 – 50	Dimensions, lxwxh, mm	460 x 200 x 280
Open circuit voltage, V	70	Weight, Kg	9
Permitted load at 60% duty cycle, A / V	500 / 39	Interconnection length, m	5 / 10 / 15 / 25
Permitted load at 100% duty cycle, A / V	387 / 33.4	Connection type	EURO
Power factor (max)	0.93		
Efficiency (max)	85%		
Dimensions, lxwxh, mm	610 x 335 x 640		
Weight, kg	56		
Power source cooling	Forced Air		
Digital Display	Voltage / Current		
Operating temperature, Deg C	-10 to +40		
Application class	S		
Standards	IEC 60974 -1 / -10		



Best Suited Application Areas



Buddy Mig 500i

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





Thank You !