

Buddy™ Arc 400i / 400i XC

Compact and Powerful Inverter MMA Welder

Robust and Powerful

The Buddy™ Arc 400i and 400i XC are heavy duty, fan cooled, IGBT based inverter controlled power sources meant for MMA / TIG (scratch-start) welding.

MMA Welding

A wide current range and powerful welding performance make the Buddy™ Arc machines suitable for a wide range of applications and electrode types such as:

- General purpose
- Low-hydrogen
- Stainless steel
- Cellulosic

The Buddy™ Arc 400i XC model has controlled welding dynamics that provides excellent weld properties for welding pipe root passes.

TIG Welding

The Buddy™ Arc machines are capable of performing TIG welding with precise current control. All you need is an optional TIG-torch with a gas valve, a gas regulator and a cylinder of gas. You can weld mild steel or stainless steel material with or without filler material.

Voltage Reduction Device – VRD

In some areas a voltage reduction device, or VRD, is required. VRD is a safety function that limits the open circuit voltage from the machine to less than 35V. The Buddy™ Arc are prepared for VRD and the function can easily be activated inside the power source.

Easy Settings

The simple control panel of the Buddy™ Arc makes it easy to optimise settings, reducing the time taken for achieving the best weld characteristics. These units are equipped with hot start and arc force with the possibility to adjust parameters during welding. Hot start helps to avoid starting problems while arc force sets the intensity of the arc for improved weld quality.

As an option the Buddy™ Arc can be equipped with a remote control unit.

Applications

- **General fabrication**
- **Railways**
- **Shipbuilding**
- **Civil construction**
- **Pipe workshops**



Energy Efficient

The Buddy™ Arc 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™ Arc 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.

- **Inverter controlled** - more efficient power usage
- **Light weight** - improved mobility
- **Easy-to-use control panel** - quick setup
- **Adjustable hot start** - easy to strike the electrode, helps you to avoid starting problems.
- **Adjustable arc force** - sets the intensity of the arc for improved weld quality.
- **Wide mains voltage tolerance** - stable welding controls

Technical Data

	Buddy™ Arc 400i
	Buddy™ Arc 400i XC
Mains voltage, V/Ph Hz	400V ± 15%, 3ph, 50Hz
Effective input current, A	21.4A
Fuse (slow), A	32
Mains cable, Ø mm²	4C x 4
Permitted load at (MMA)	
60% duty cycle, A/V	400 / 36
100% duty cycle, A/V	310 / 32.4
Permitted load at (TIG)	
60% duty cycle, A/V	400 / 26
100% duty cycle, A/V	310 / 22.4
Power factor at maximum current	0.93
Efficiency at maximum current, %	85
Setting range (TIG/MMA), A	20 - 400
Open circuit voltage (OCV), V	68 (400i)
	78 (400i XC)
Reduced OCV (VRD), V	<35
Dimensions l x w x h, mm	540 x 280 x 510
Weight, kg	29 (400i)
	31 (400i XC)
Operating temperature	-10 till 40°C
Application class	S
Standards	IEC 60974-1
	IEC 60974-10



Ordering Information

Buddy™ Arc 400i	46F0226400
Buddy™ Arc 400i XC	46F0227400
Remote Control 5m	46F1004001
Remote Control 10m	46F1005001

Delivery Content: 3m mains cable, 2 nos. male quick connectors for Buddy Arc 400i / 400i XC.

Optional Accessories

TXH 200V – 4m TIG Torch (for Scratch TIG)	1620607292
TXH 200V – 8m TIG Torch (for Scratch TIG)	1620607293
Welding Cable Cu 50 sq mm (100m Roll)	4600600162
Welding Cable Cu 70 sq mm (100m Roll)	4600600163
Holder Handicool HC 600	2002001001
Holder Confort 600	2002001002
Heavy Duty Earth Clamp 600	2002002001
Hand Shield Armour (83 x 108mm)	2001001004
Eco Arc Helmet (83 x 108mm)	2001001003
Welding Hand Gloves	2001005001



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.



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