

Buddy™ TIG 400i

Industrial-Duty Inverter Welder for TIG and MMA welding



Robust and powerful

The Buddy™ TIG 400i is an industrial-duty, fan cooled, inverter controlled power sources meant for TIG/MMA welding with professional welding performance.

TIG Welding

The Buddy™ TIG machines are capable of performing TIG welding with precise current control. Select a TIG-torch to suit your needs, a gas regulator and a cylinder of gas. You can weld mild steel or stainless steel material with or without filler material.

- DC Pulse welding
- HF / Lift Arc starting
- 2t/4t trigger control
- Pre/Post gas control
- Slope up/down control
- Initial and crater current settings

MMA Welding

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

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

The machine has controlled welding dynamics with adjustable Hot Start and Arc Force controls that provide excellent weld properties even for welding pipe root passes.

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 35 V. The Buddy™ TIG are prepared for VRD and the function can easily be activated inside the power source.

Easy settings

The simple control panel of the Buddy™ TIG makes it easy to optimise settings, reducing the time taken for achieving the best weld characteristics. These units are equipped with a bright easy to read digital display.

As an option the Buddy™ TIG can be equipped with a remote control unit and a trolley, with gas bottle tray and built in tool box.

Applications

- Shipbuilding
- Civil construction
- Pipe workshops
- General steel fabrication



Energy Efficient

The Buddy™ TIG 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 & Reliability

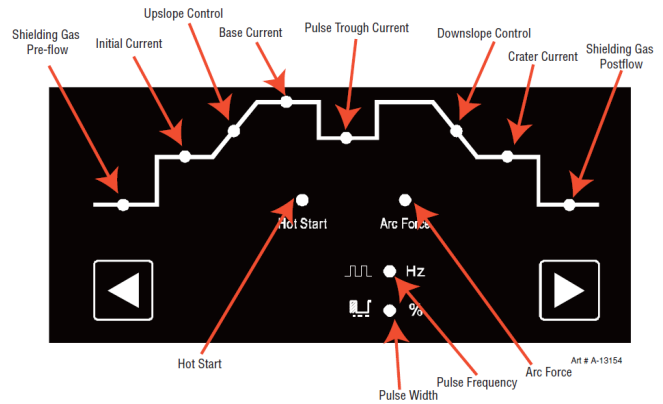
The Buddy™ Arc machines conform to International Standards that ensures the reliability & safe use of these machines.

These units are equipped with overheating and mains over/under voltage protection that will temporarily switched 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

Product name	Buddy™ TIG 400i
Mains voltage, V/Ph Hz	400V ± 15%, 3ph, 50/60Hz
Effective input current, A	17A
Fuse (slow), A	32
Mains cable, Ø mm²	4C x 4
Permitted load at (MMA)	
40% duty cycle, A/V	400 / 36
60% duty cycle, A/V	310 / 32.4
Permitted load at (TIG)	
40% duty cycle, A/V	400 / 26
60% duty cycle, A/V	310 / 22.4
Power factor at maximum current	>0.90
Efficiency at maximum current, %	>80
Setting range	
TIG, HF, A	5 – 400
TIG, Lift, A	10- 400
MMA, A	20-400
Open circuit voltage (OCV), V	80
Reduced OCV (VRD), V	<15
Dimensions l x w x h, mm	540 x 280 x 510
Weight, kg	32.5
Operating temperature	-10 till 40°C
Enclosure class	IP21
Application class	S
Standards	IEC 60974-1 IEC 60974-10



Intuitive easy to use control panel

Ordering information

Buddy™ TIG 400i 0700 302 000

Supplied with 3m mains cable, 3m work cable with clamp, 3m gas hose with 2 hose clamps.

Accessories:

TXH™ 201V, Tig torch, OKC 4m 0700 300 558
TXH™ 201V, Tig torch, OKC 8m 0700 300 560

Trolley

MMA Kit (Ready-to-weld) 0700 301 105
5 m + 3m welding cables, 50mm² 0700 300 910
Remote Control, 10m 0700 300 911
Argon Regulator 3/8 BSP RH 0700 017 222

Quality accessories for the quality welder

ESAB offers a wide range of accessories. The complete range, along with product information, is available at our local web-sites, look at www.esab.com or contact your local ESAB dealer.

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.

2012-01-16 / ESAB reserves the right to alter specifications without prior notice



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