

Buddy™ Arc 180 – 180 Amp Stick / Live TIG welder

Portable solution for professional welding

The Buddy™ Arc 180 is a robust and durable power source for the professional welder. The machine provides state-of-the-art welding performance and reliability through use of the latest high grade IGBT technology.

Designed for durability

The Buddy™ Arc 180 is a user friendly, robust and light weight stick (MMA) welding machine which also features a Live TIG arc mode.

The internal electronics are cooled by a highly efficient fan for added reliability and monitored by a thermal protection system. The machine has been equipped with three heat sinks which further extending the life time of the product.

The casing has been designed to withstand harsh environments and is rated to IP 23S standard. The Machine incorporates both a shoulder strap and a robust carry handle.



Control panel

The control panel on the Buddy™ Arc 180 is very easy to use with only one knob for the setting of the weld current. A switch on the front panel provides easy selection of the MMA or TIG process.

Applications

- Plant Fabrication & Maintenance
- Site Maintenance/Repair
- Civil construction
- General Fabrication
- Agriculture



MMA welding

Buddy™ Arc 180 provides a smooth DC (Direct Current) welding power which allows you to weld most metals such as alloyed and non alloyed steel, stainless steel and cast iron. The arc force and hot start settings are adjusted automatically according to the set welding current giving excellent arc starts and welding performance across the amperage range of the machine. The Buddy™ Arc 180 can weld most electrodes from Ø1.6 -3.2 mm.

TIG welding

The Buddy™ Arc 180 can easily perform TIG-welding using a "Live Tig" start. Equip the power source with the optional Tig-Torch which has an in-built gas valve, a gas regulator and a bottle of gas and you are ready to weld mild steel or stainless steel with or without filler material.

- **Superior arc characteristics** – Smooth welding conditions
- **Generator compliant** – Suitable for use with generators.
- **Easy to use** – Set the welding current and weld with excellent result
- **Practical design** – Equipped with both a shoulder strap and a robust handle making it easy to carry.
- **Robust design** – withstands harsh environments
- **Can be used with extended mains cable** - provides extended working range.

Technical data

	Buddy™ Arc 180
Mains voltage V/ph Hz	230/1 50/60
Fuse (slow), A	16
Permitted load at 40°C, MMA	
20% duty cycle, A/V	180/27,2
60% duty cycle, A/V	125/25,0
100% duty cycle, A/V	100/24,0
Permitted load at 40°C, TIG	
25% duty cycle, A/V	180/17,2
60% duty cycle, A/V	130/15,2
100% duty cycle, A/V	100/14,0
Setting range (DC), A	5 - 180
Open circuit voltage, V	59,8
Phase current I_{1eff} (TIG)	12,5 A
Phase current I_{1eff} (MMA)	16,0 A
Dimensions l x w x h, mm	310 x 140 x 230
Weight, kg	6,0
Enclosure class	IP 23S
Application classification	S

Quality accessories for the quality welder
ESAB offers a wide range of accessories. For information on the complete product range, go to our web-site: 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.

