

Caddy[®] Arc 251i

Portable solutions for professional welding

The Caddy[®] name has always been synonymous with robust and durable welding tools designed for the professional welder. Introducing the fifth generation of portable welding equipment from ESAB the latest Caddy[®] machines have over 30 years experience in inverter technology built in.

Designed for durability

The machines are equipped with the large OKC 50 cable connectors for higher durability. The compact design, with its impact resistant polymer casing is light and easy to carry, yet the size does not compromise the important cooling of the internal components. Large heat sinks and clever design make for a cooler running machine with a longer life expectancy when used in harsh working environments. The design also helps to keep all sensitive parts inside the machine clean and dust free. Caddy[®] is built in accordance with IP23, which means it can be used outdoors – even in the rain. The control panels are easy to understand and use. The durable design and the superior welding performance give you a machine that you can rely on day after day.

Power factor correction - PFC

Caddy[®] Arc 251i is a 400 V three-phase power source equipped with a PFC circuit making it possible to use the full range of the machine on a 10 A fuse. The PFC also protects the machine against fluctuating mains voltage and makes it safer to use with a generator. Caddy[®] Arc 251i can operate with extra long mains cables, over 100 m, giving you a very larger working radius.



Control panels

Caddy[®] Arc 251i has two control panels to choose from, both with a digital display and a remote control function. The basic panel Caddy[®] A32 has a choice of MMA or TIG welding with LiveTig[™] start in TIG mode. Apart from that you only need to set the welding current.

The more advanced Caddy[®] A34 panel gives you hot-start and arc force control to fine tune the welding, a choice of MMA or TIG welding, LiveTig[™] start in TIG mode, two memories and remote control facility. In MMA mode you can choose your electrode type and the machine will optimise the welding performance automatically.

Both panels are easy to understand and set, even with your gloves on.



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 below 35 V. Caddy[®] Arc 251i is prepared for VRD and the function can easily be activated inside the power source.

MMA welding

Caddy[®] Arc supplies direct current and you can weld most metals such as alloyed and non alloyed steel, stainless steel, cast iron, etc. With Caddy[®] Arc 251i you can weld all types of electrodes from Ø1,6 -5 mm; basic, rutile, cellulosic and high-recovery, with excellent welding performance.

The latest regulator, ArcPlus[™] II, gives a more intense, yet smooth and stable arc that is easy to control. Arc Plus[™] II generates smaller droplets, the arc burns smoothly and there is no need to pause at the edges when weaving. ArcPlus[™] II offers even better welding characteristics, simplifies your work and gives you better weld quality with less need for post weld treatment.

TIG welding

With Caddy[®] Arc you can easily TIG-weld. All you need is a TIG-torch with a gas valve, a gas regulator and a cylinder of gas. LiveTig[™] start electronically controls the start current giving you a safe start without damaging the electrode. You can weld mild steel or stainless steel with or without filler material.

Applications

- Professional welding tool
- In and outdoor installation on site
- In and outdoor repair and maintenance on site
- In and outdoor fabrication
- Shipbuilding and offshore
- Power generation
- Process industry

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- **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.
- **Electrode type selection** – sets the characteristics of the machine according to the electrode you want to weld.
- **ArcPlus[™] II** - better welding characteristics, simplifies your work and gives you better weld quality with less after treatment.

Technical data

Caddy® Arc 251i

Mains voltage V/ph Hz	400/3 50/60
Fuse (slow), A	10
Permitted load at 40°C, MMA	
30% duty cycle, A/V	250/30
60% duty cycle, A/V	190/27,6
100% duty cycle, A/V	150/26
Permitted load at 40°C, TIG	
30% duty cycle, A/V	250/20
60% duty cycle, A/V	190/17,6
100% duty cycle, A/V	150/16
Setting range MMA (DC), A	4 - 250
Setting range TIG (DC), A	3 - 250
Open circuit voltage, V	65
Open circuit voltage limit (VRD active), V	35
Dimensions lwxhxh, mm	418 x 188 x 208
Weight, kg	10,5
Enclosure class	IP 23
Application classification	S
Standards	EN60974-1, EN60974-10



Ordering information

Caddy® Arc 251i, A32 package incl. 3 m MMA welding and return cable kit ("screw" type holder)	0460 300 880
Caddy® Arc 251i, A34 package incl. 3 m MMA welding and return cable kit ("screw" type holder)	0460 300 881

Delivery content: 3 m of mains cable with plug

ACCESSORIES

Shoulder strap	0460 265 003
Trolley (for 5 to 10 l gas cylinder)	0459 366 885
Remote control MMA 1, incl. 10 m cable	0349 501 024
Remote control AT1	0459 491 896
Remote control AT1 CoarseFine	0459 491 897
Connection cables for AT1 and AT1 CoarseFine:	
5 m cable	0459 552 880
10 m cable	0459 552 881
15 m cable	0459 552 882
25 m cable	0459 552 883
Foot pedal FS 002, incl. 5 m cable	0349 090 886
TIG torch TXH™ 150V OKC50, 4m	0460 011 843
TIG torch TXH™ 150V OKC50, 8m	0460 011 883
TIG torch TXH™ 200V OKC50, 4m	0460 012 841
TIG torch TXH™ 200V OKC50, 8m	0460 012 881
Welding helmet Albatross 1000, 90x110	0349 502 204
Welding helmet Eye-Tech Mono 10/11, weight 480 g	0700 000 888
Electrode holder Confort 200	0700 006 004
Electrode holder Handy 200,	0700 006 003
Electrode holder Prima 200,	0700 006 006
Work clamp MP 200	0367 558 880
Chipping hammer SH2	0000 663 000
Chipping hammer SH3	0683 200 001
Welding gloves Heavy Duty Basic	0700 005 007
Welding gloves Heavy Duty Regular	0700 005 008
Welding gloves Heavy Duty Excel, L	0700 005 009

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 non. 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.



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