

Minarc Evo 180

The little MMA giant is back



+ Briefly

- Premium welding performance
- Use with all electrode types
- Use with long supply cables
- PFC technology for ultimate energy efficiency
- High current output and duty cycle
- Lightweight and portable
- Robust and durable
- Precise lift TIG technology
- Mains network or generator use
- Optional remote control
- Kempfi 2+ year warranty for parts and labour.

+ Applications

- Metal workshops
- Construction industry
- Agriculture
- Repair and maintenance.

Product overview

Ideal for site use, you can use Minarc Evo 180 from mains or generator power supplies, even with extra long supply cables. Minarc Evo is easy to carry, so you can normally take everything you need in one journey.

Large voltage reserves and automatic arc force control provide excellent arc stability in all welding positions and for a wide range of electrode types, making sure you get quality welding results every time.

The large and clear meter display makes accurate current setting simple and easy, and precise lift TIG ignition ensures high quality DC TIG welding. Connect a remote control unit and you can adjust welding parameters at distance during welding, for the ultimate convenience and weld pool control.



Energy efficient

Minarc Evo 180

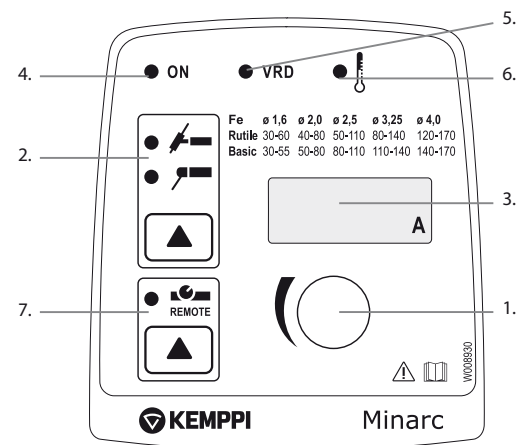
Power source features

- Low energy costs, power factor 0.99 at 100 % ED
- Automatic arc force control
- Duty cycle 30% at 170 amps, MMA
- Duty cycle 35% at 180 amps, TIG
- Fuse (delayed) 16 A
- Weight 5.85 kg



Operating functions

1. Welding current adjustment knob
2. Welding process selection button
3. Welding current meter display
4. Machine 'ON' green light
5. VRD SAFE light. Solid green VRD safe 'ON'. Solid red if VRD failure.
6. Overheating indicator
7. Remote control ON/OFF button



Accessories

- Earth return cable and clamp
- Welding cable and electrode holder
- Carrying strap
- Optional: TIG torch TTM15V
- Optional: BETA 90X electronic welding helmet
- Optional: R10 hand held remote control.



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Technical specifications

Minarc Evo 180		
Connection voltage	1 ~ 50/60 Hz	230 V ± 15 %
Connection voltage (AU)	1 ~ 50/60 Hz	240 V ± 15 %
Rated power at max. current	30 % ED MMA	170 A / 5.7 kVA
	35 % ED TIG	180 A / 4.0 kVA
Supply current	30 % ED I_{1max}	24 A
	100 % ED I_{1eff}	15 A
Supply current (140 AU)	100 % ED I_{1eff}	10 A
Connection cable	H07RN-F	3G1.5 (1.5 mm ² , 3 m)
Fuse	type C	16A: 140A ED 35%
	type C	10A: 140A ED 28%
Output 40 °C	30 % ED MMA	170 A / 26.8 V
	100 % ED MMA	115 A / 24.6 V
	35 % ED TIG	180 A / 17.2 V
	100 % ED TIG	130 A / 15.2 V
Output 40 °C (140 AU)	28 % ED MMA	140 A / 25.6 V
	100 % ED MMA	80 A / 23.2V
Welding range	MMA	10 A / 15 V – 170 A / 32 V
	TIG	10 A / 10 V – 180 A / 30 V
Open circuit voltage	Average	90 V (VRD 30 V, AU VRD 12 V)
No-load power		30 W
Voltage steps		stepless
Power factor at 100 % ED		0.99
Efficiency at 100 % ED	MMA	84 %
Stick electrodes	∅	1.5...4.0 mm
External dimensions LxWxH	height with handle	361x139x267 mm
Weight	without connection cable	5.4 kg
	with connection cable	5.85 kg
Temperature class		F (155 °C)
EMC class		A
Degree of protection		IP23S
Operating temperature range		-20...+40 °C
Storage temperature range		-40...+60 °C
Standards:		
IEC 60974-1		
IEC 60974-10		
IEC 61000-3-12		

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Ordering information

Minarc Evo 180		
Minarc Evo 180 welding machine	includes earth return and welding cables	61002180
Minarc Evo 180 welding machine (Denmark)	includes earth return and welding cables	61002180DK
Minarc Evo 180VRD welding machine	includes earth return and welding cables	61002180VRD
Minarc Evo 180AU welding machine (Australia, New Zealand)	includes earth return and welding cables	61002180AU
Minarc Evo 140AU welding machine (Australia, New Zealand)	includes earth return and welding cables	61002140AU
Minarc Evo 180NP Welding machine	includes earth return and welding cables (does not include mains plug)	61002180NP
Earth return cable and clamp		6184015
Welding cable and electrode holder		6184005
Carrying strap		9592163
Optional: TIG torch TTM15V	4 m	6271432
BETA 90 welding helmet		9873045
BETA 90X welding helmet		9873047
BETA 90 FreshAir with Flow Control pack		P1700
R10 Hand held remote control	5 m	6185409
R10 Hand held remote control	10 m	618540901