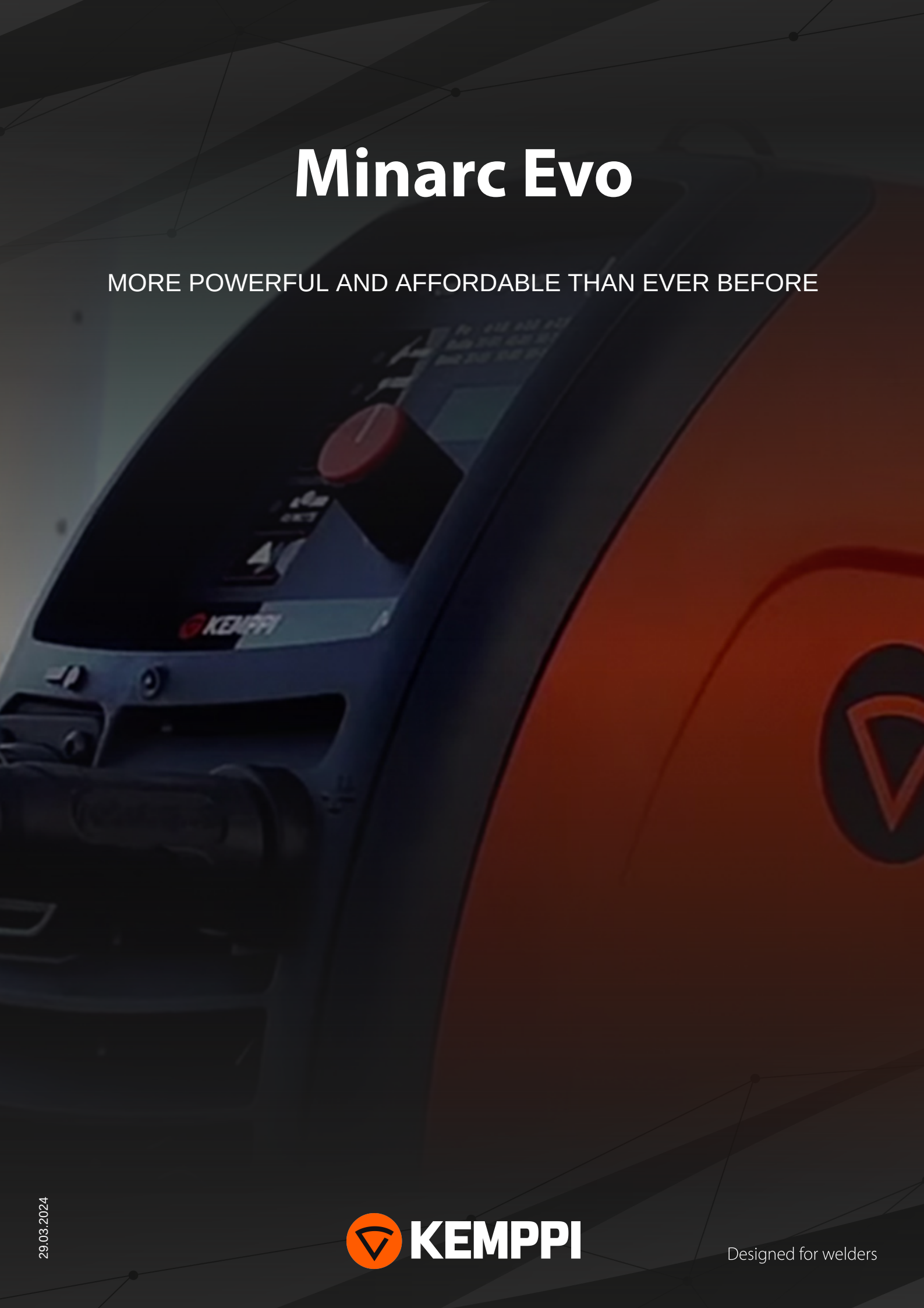
Minarc Evo

MORE POWERFUL AND AFFORDABLE THAN EVER BEFORE



29.03.2024

KEMPPI

Designed for welders

Minarc Evo

MORE POWERFUL AND AFFORDABLE THAN EVER BEFORE

Outstanding welding performance is no overstatement. Every element of Minarc Evo 180 is designed to meet the needs of professional welders on the move. Where size, weight and welding quality are concerned, there is no equal.

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.

Package includes earth return and welding cables (3 m) and shoulder strap.

KEY BENEFITS

LIGHTWEIGHT

Easy to carry wherever work takes you

ANNUAL SAVINGS

Benefit from the increased welding time and range

OPEN CIRCUIT VOLTAGE

Benefits due to increased weld pool control

BENEFITS

- 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
- Kemppi 3 year warranty for parts and labor

PRODUCT OPTIONS

Minarc Evo 180

Little giant of stick (MMA) welding for wherever work takes you.

Minarc Evo 180 AU

Kemppi K5 stick (MMA) welder with a mains plug suitable for AU/NZ markets. Where size, weight and welding quality are concerned, there is no equal to Minarc Evo 180.

Minarc Evo 180 DK

Kemppi K5 stick (MMA) welder with a mains plug suitable for the Danish markets. Where size, weight and welding quality are concerned, there is no equal to Minarc Evo 180.

Minarc Evo 180 VRD

Kemppi K5 stick (MMA) welder, Voltage Reduction Device model. Where size, weight and welding quality are concerned, there is no equal to Minarc Evo 180.

Minarc Evo 140 AU

Kemppi K5 stick (MMA) welder with a mains plug suitable for AU/NZ markets, VRD model.

FEATURES

Excellent arc stability

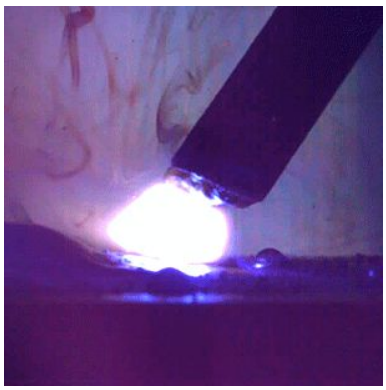
Large voltage reserves and automatic arc force control provide excellent arc stability in all welding positions and for a wide range of electrode types, making sure you get quality welding results every time.

Large and clear meter display

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.

Maximize welding time

8.2 V reserve at 170 A ensures that the Minarc EVO 180 can achieve its maximum welding power for longer than its competitors at distance. This means increased working time and range, and reduces equipment movement on site—a total winner!



Better control over the weld pool

Provides welding current adjustment at the workstation when working at distance or height - increases weld pool control and welding accuracy during welding - reduces time wastage moving between the weld site and the machine - increases work time output reduces costs.

Less rework, more pure welding

With Minarc Evo 180 you will minimize any rework caused by poor welds thanks to the power setting with accuracy. You can easily select the correct current level for any electrode size. This makes it extra easy to follow Welding Procedure Specifications (WPS). Stop wasting time grinding and simply weld more.

Lightweight, compact and super portable

Not all welding happens in the warmth and stable conditions of workshops and factories—far from it. But with Minarc Evo you can weld in even the roughest of sites. The Minarc Evo 180 can be powered from the mains or a generator power supply, even via extra-long supply cables. The Minarc Evo is also easy to carry, so you can take everything you need in one journey.

ACCESSORIES

Earth return cable 5 m, 16 mm²

Welding cable 5 m 16 mm²

Shoulder strap

Remote control R10

Suitable for use with Kemppi MIG, TIG, and stick (MMA) welding equipment. Available in 5 m and 10 m.

Increase welding quality, work efficiency, comfort, and safety with appropriate, easy-to-use Kemppi remote controls.

TX 163GVD9

160 A, gas-cooled, Gas valve, DIX 9mm, 4m, Large torch head

TECHNICAL SPECIFICATIONS

Minarc Evo 180

Product code	61002180
Connection voltage 1~ 50/60 Hz	230 V ±15 %
Fuse (delayed)	16 A
Minimum generator power	5.5 kVA
Output (40°C) TIG	100 % ED, 130 A / 15.2 V 35 % ED, 180 A / 17.2 V
Output (TIG) 35% ED	180 A/17.2 V
Output (TIG) 60% ED	150 A / 15 V
Output (TIG) 100% ED	130 A/15.2 V
Output (MMA) 30% ED	170 A/26.8 V (140AU: 28% ED 140 A/25.6 V)
Output (MMA) 60% ED	140 A / 25.6 V
Output (MMA) 100% ED	115 A/24.6 V (140AU: 80 A/23.2 V)
Open circuit voltage	90 V
Stick electrode sizes	1.5…4.0 mm
Welding range (MMA)	10 A/15 V - 170 A/32 V
Welding range (TIG)	10 A/10 V - 180 A/30 V
Rated power at max. current 30% ED MMA	170 A / 5.7 kVA
Rated power at max. current 35% ED TIG	180 A / 4.0 kVA
Power factor at 100 % ED	0.99
Efficiency at 100 % ED (MMA)	84 %
Operating temperature range	–20…+40 °C
External dimensions LxWxH	361 x 139 x 267 mm
Weight (no accessories)	5.4 kg
Degree of protection	IP23S
Standards	IEC 60974-1 IEC 60974-10 IEC 61000-3-12
Weight (with connection cable)	5.85 kg
EMC class	A
Norms	IEC 60974-1, -10, IEC 61000-3-12

Minarc Evo 180 AU

Product code	61002180AU
Connection voltage 1~ 50/60 Hz	230 V ±15 %
Fuse (delayed)	16 A
Minimum generator power	5.5 kVA
Output (TIG) 35% ED	180 A/17.2 V
Output (TIG) 100% ED	130 A/15.2 V
Output (MMA) 30% ED	170 A/26.8 V
Output (MMA) 100% ED	115 A/24.6 V
Open circuit voltage	12 V
Stick electrode sizes	1.5…4.0 mm
Welding range (MMA)	10 A/10 V - 180 A/30 V 10 A/15 V - 170 A/32 V
Rated power at max. current 30% ED MMA	170 A/5.7 kVA
Rated power at max. current 35% ED TIG	180 A/4.0 kVA
Operating temperature range	–20…+40 °C
External dimensions LxWxH	361 × 139 × 267 mm
Weight (no accessories)	5.4 kg
Degree of protection	IP23S
Standards	IEC 60974-1 IEC 60974-10 IEC 61000-3-12

Minarc Evo 180 DK

Product code	61002180DK
Connection voltage 1~ 50/60 Hz	230 V ±15 %
Fuse (delayed)	16 A
Minimum generator power	5.5 kVA
Output (TIG) 35% ED	180 A/17.2 V
Output (TIG) 100% ED	130 A/15.2 V
Output (MMA) 30% ED	170 A/26.8 V
Output (MMA) 100% ED	115 A/24.6 V
Open circuit voltage	12 V
Stick electrode sizes	1.5…4.0 mm
Welding range (MMA)	10 A/10 V - 180 A/30 V 10 A/15 V - 170 A/32 V
Rated power at max. current 30% ED MMA	170 A/5.7 kVA
Rated power at max. current 35% ED TIG	180 A/4.0 kVA
Operating temperature range	–20…+40 °C
External dimensions LxWxH	361 × 139 × 267 mm
Weight (no accessories)	5.4 kg
Degree of protection	IP23S
Standards	IEC 60974-1 IEC 60974-10 IEC 61000-3-12

Minarc Evo 180 VRD

Product code	61002180VRD
Connection voltage 1~ 50/60 Hz	230 V ±15 %
Fuse (delayed)	16 A
Minimum generator power	5.5 kVA
Output (MMA)	115 A/24.6 V (100 %) 170 A/26.8 V (30 %)
Output (TIG)	130 A/15.2 V (100 %) 180 A/17.2 V (35 %)
Open circuit voltage	30 V
Stick electrode sizes	1.5…4.0 mm
Welding range (MMA)	10 A/15 V – 170 A/32 V
Welding range (TIG)	10 A/10 V – 180 A/30 V
Operating temperature range	–20…+40 °C
External dimensions LxWxH	361 × 139 × 267 mm
Weight (no accessories)	5.4 kg
Degree of protection	IP23S
Standards	IEC 60974-1 IEC 60974-10 IEC 61000-3-12

Minarc Evo 140 AU

Product code	61002140AU
Connection voltage 1~ 50/60 Hz	230 V ±15 %
Fuse (delayed)	10 A
Minimum generator power	5.5 kVA
Output (MMA) 28% ED	140 A/25.6 V (28 %)
Output (MMA) 100% ED	80 A/23.2 V
Open circuit voltage	12 V
Stick electrode sizes	1.5…3.25 mm
Welding range (MMA)	10A/15V - 140A/38V
Welding range (TIG)	10A/1V - 150A/37V
Operating temperature range	–20…+40 °C
External dimensions LxWxH	361 × 139 × 267 mm
Weight (no accessories)	5.4 kg
Degree of protection	IP23S
Standards	IEC 60974-1 IEC 60974-10 IEC 61000-3-12

ACCESSORIES

Earth return cable 5 m, 16 mm²

Product code	6184015

Welding cable 5 m 16 mm²

Product code	6184005

Shoulder strap

Product code	9592163

Remote control R10

Product code	R10, 5 m - 6185409 R10, 10 m - 618540901

TX 163GVD9

Product code	TX163GVD94 (4m)
Standards	IEC 60974-7
Type of cooling	Gas
Type of connection (Current-gas)	DIX 9 mm
Load capacity @ 40 % (Argon)	160 A
Load capacity @ 100 % (Argon)	-
Type of connection (Control)	-
Type of connection (Coolant)	-
Remote control	No
Neck type	70° angle

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Kemppi is the design leader in the arc welding industry. We are committed to boosting the quality and productivity of welding by continuous development of the welding arc and by working for a greener and more equal world. Kemppi supplies sustainable products, digital solutions, and services for professionals from industrial welding companies to single contractors. The usability and reliability of our products is our guiding principle. We operate with a highly skilled partner network covering over 70 countries to make its expertise locally available. Headquartered in Lahti, Finland, Kemppi employs close to 800 professionals in 16 countries and has a revenue of 195 MEUR in 2022.

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