

Minarc™ Family – Order Information

■ Minarc™

Minarc™ 150 incl. 3m earth and welding cable 16mm ² , 3.3m connection cable with Schuko	6102150
Minarc™ 151 incl. 3m earth and welding cable 16mm ² , 2m connection cable	6101151
Minarc™ 150 VRD, Australia incl. 3m earth and welding cable 16mm ² , 3.3m connection cable with 15A AU-plug	6102150AU
Minarc™ 150 VRD, Europe incl. 3m earth and welding cable 16mm ² , 3.3m connection cable with Schuko	6102150VRD
Minarc™ 220 incl. 5m earth and welding cable, 5m connection cable	6102220
Minarc™ 220 VRD incl. 5m earth and welding cable, 5m connection cable	6102220VRD

■ MinarcMig™

MinarcMig™ Adaptive 150 incl. MIG-gun MMG 18, cables, gas hose and shoulder strap	6108150
MinarcMig™ Adaptive 180 incl. MIG-gun MMG 20, cables, gas hose and shoulder strap	6108180

■ MinarcTig™ 180/250

MinarcTig™ 180 (incl. TIG torch, earth cable and shoulder strap) with TTC 160 4m	MINARC180TTC4
with TTC 160 8m	MINARC180TTC8
MinarcTig™ 250 (incl. TIG torch, earth cable and shoulder strap) with TTC 160 4m	MINARC250TTC164
with TTC 160 8m	MINARC250TTC168
with TTC 220 4m	MINARC250TTC224
with TTC 220 8m	MINARC250TTC228

■ MinarcTig™ 180 MLP / 250 MLP

MinarcTig™ 180 MLP (incl. TIG torch, earth cable and shoulder strap) with TTC 130 4m	MINARC180MLPTTC13F4
with TTC 130 8m	MINARC180MLPTTC13F8
with TTC 160 4m	MINARC180MLPTTC4
with TTC 160 8m	MINARC180MLPTTC8
MinarcTig™ 250 MLP (incl. TIG torch, earth cable and shoulder strap) with TTC 130 4m	MINARC250MLPTTC13F4
with TTC 130 8m	MINARC250MLPTTC13F8
with TTC 160 4m	MINARC250MLPTTC164
with TTC 160 8m	MINARC250MLPTTC168
with TTC 220 4m	MINARC250MLPTTC224
with TTC 220 8m	MINARC250MLPTTC228

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Minarc™ Family – Technical Data

■ Minarc™	150/151	220
Mains voltage	1~ 230 V (110 V for 151)	3~ 400 V
Load capacity (A)	35% ED 140 (MMA) 150 (TIG) 100% ED 100 (MMA) 110 (TIG)	220 (MMA) 220 (TIG) 150 (MMA) 160 (TIG)
Open circuit voltage (V)	85	85 (MMA) 60 (TIG)
Power factor at max. current	0.6 (MMA) 0.6 (TIG)	0.91 (MMA) 0.92 (TIG)
MMA electrodes ø (mm)	1.5...3.25	1.5...5.0
External dimensions (mm)	L x W x H 320 x 123 x 265	400 x 180 x 340
Weight (without connection cable)	4.0/4.4 kg	9.2 kg

■ MinarcMig™	Adaptive 150	Adaptive 180
Mains voltage	1~ 230 V 50/60 Hz	1~ 230 V 50/60 Hz
Load capacity (A)	150 A/21.5 V 35% 60% ED 120 100% ED 100	180 A/23.0 V 25% 120 100
Open circuit voltage (V)	22-31	15.5-42.5
Power factor at max. current	0.58	0.60
Wire feed speed (m/min)	1...11	1...12
Spool, max. ø (mm)	200	200
Filler wires ø (mm)	0.6...1.0 (Fe, Fe FCW)	0.6...1.0 (Fe, Fe FCW, Ss, Al)
External dimensions (mm)	L x W x H 400 x 180 x 340	400 x 180 x 340
Weight (incl. gun and cables)	9.4 kg	9.8 kg

■ MinarcTig™	180, 180 MLP
Mains voltage	1~ 230 V
Load capacity (A)	35% ED 140 (MMA) 180 (TIG) 100% ED 100 (MMA) 120 (TIG)
Open circuit voltage (V)	95
Power factor at max. current	0.63 (MMA) 0.62 (TIG)
MMA electrodes ø (mm)	1.5...3.25
External dimensions (mm)	L x W x H 400 x 180 x 340
Weight (without connection cable)	7.8 kg

■ MinarcTig™	250, 250 MLP
Mains voltage	3~ 400 V
Load capacity (A)	35% ED 220 (MMA) 250 (TIG, 30%) 100% ED 150 (MMA) 160 (TIG)
Open circuit voltage (V)	95
Power factor at max. current	0.91 (MMA) 0.92 (TIG)
MMA electrodes ø (mm)	1.5...5.0
External dimensions (mm)	L x W x H 400 x 180 x 340
Weight (without connection cable)	10.7 kg

See www.kemppi.com for detailed technical specifications.

■ The Joy of Welding...



...Around the World.













MINARC™ FAMILY

Family of **welding experts**

Kemppi Oy – a pioneer in welding equipment technology

Strongweld



KEMPPi
The Joy of Welding
www.kemppi.com

Small in size, heavy in power

- World-famous welding expertise
- Excellent welding performance
- Stable arc even in difficult conditions
- Versatile and easy-to-use functions
- Plenty of welding power in a small package
- Everything you need for quality welds in MMA, MIG/MAG and TIG



■ **All Minarc products** are unique combinations of small size, high welding power and good welding intelligence. They are a family of true experts in MMA, TIG, and MIG/MAG welding.

Ever since the first Minarc was launched in 2001, this class of small but powerful Kemppi welding machines has had an ever-growing popularity in the welding industry and among the welding people around the world.

There are three groups of products in the Minarc family: MIG/MAG, TIG, and MMA products. All product groups include several models for different welding needs.

All Minarc products are durable in structure and light in weight. They are easy to pick up and

carry to the place where a quality weld is needed. They suit for both indoor and outdoor use in many different applications. With Minarc machines you can truly weld anywhere.

The good tolerance of input voltage fluctuations makes the Minarc machines ideal for field conditions with long cables or supply generators.

Though small in size and light in weight, the Minarc products are full of welding power. Also their versatile welding functions and adaptive control capabilities make them very easy to use. Welding has never been so easy!

A Minarc product is an ideal choice for both professional and semi-professional use.

Strongweld

Little giants of MMA welding

- Minarc™ at a glance
- Light in weight, heavy in performance
- Arc survives even in hard conditions
- Automatic ignition time, ignition pulse and arc dynamics
- Easy operation with optional remote control devices in 220 model
- Easy TIG arc ignition with the TouchArc™ feature in 220 model
- Ready to weld package: Just buy the electrodes and start welding



■ **The superior arc performance** of Minarc 150 is well-known among the welding people. The arc stability is based on a large voltage reserve and the automatic arc force control.

Those are the main factors that make Minarc's welding arc survive in all positions, regardless of the welding current or the MMA electrode. Also, the good tolerance of input voltage fluctuations gives further reliability to Minarc's good arc performance, even when using extra-long cables up to 50 m.

The great arc performance is present also in the more powerful model, Minarc 220. It is equipped with all the good features of Minarc 150, but its power capabilities have grown considerably.

With a duty cycle of 100% it can deliver up to 150 A in MMA and 160 A in TIG.

The antifreeze feature makes welding more fluent by reducing significantly the risk of the electrode sticking to the base material.

Minarc MMA machines can also be used for effective and safe TIG welding with either the scratch-TIG function or the TTC 220 GV torch in Minarc 220. With the TouchArc™ feature you can light the TIG arc easily with just a gentle touch on the work piece.

Remote control is possible with either the R10 remote control unit or the RTC10 torch control unit.

www.strongweld.net

Awarded MIG/MAG welding properties

- MinarcMig™ at a glance
- World-famous design and usability
- Adaptive control of parameters
- Easy operation: Just select the plate thickness and pull the trigger
- Single phase 230 V mains connection
- Ready to weld package includes all you need
- Two power classes:
 - 150 A for Fe, Fe FCW
 - 180 A for Fe, Fe FCW, Ss, Al



■ **In its revolutionary ease of use**, MinarcMig is ideal for both professional and semi-professional use. It is a small and lightweight MIG machine with a handy slot for cable wraparound. These features make this little welding giant easy to pick up and carry to the work place.

MinarcMig machines have an adaptive control capability, which makes it easier than ever for you to find the right welding parameters. You just use the control knob to select the base material thickness, and the MinarcMig adjusts everything else.

There are two amperage classes available: the 150 amp and the 180 amp model. The MinarcMig 150 Adaptive is a heavy-duty steel specialist. With a duty cycle of 35%, it can deliver up to 150

amperes of welding current. With this kind of power-to-weight ratio, it is truly a top-of-class unit that's certainly out of the ordinary.

The big brother, MinarcMig™ 180 Adaptive, has created a totally new dimension in compact MIG machines for aluminium, stainless steel, and iron filler wires.

The large LCD panel shows clearly all the welding information you need - the amperage, voltage, and wire feed speed selected, as well as the material and gas combination.

This machine represents new impressiveness and usability rarely seen in welding machines. Its innovativeness, compact functionality and ergonomic design were awarded *the Red Dot award* – one of the most prestigious industrial design awards in the world.

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All you need for TIG and MMA

- MinarcTig™ at a glance
- Light in weight, versatile in operation
- High voltage reserve allows smooth and easy welding in both TIG and MMA
- All the necessary TIG features are included
- Minilog and pulse functions give productivity and convenience to your welding
- Compatible with all Kemppi's remote controllers
- Ready to weld package



■ **The MinarcTig products** offer a unique combination for completing various welding tasks. TIG can be used for demanding tasks with great accuracy, while MMA increases the versatility of this machine.

The dual-process TIG/MMA machine expands the field of application greatly – from thick to thin, alloyed to unalloyed, indoor to outdoor. It is suitable for running both demanding root passes and filler passes requiring high productivity.

Fast and user-friendly operation provides a machine that guarantees high productivity in welding. It is an ideal solution for installation,

repair, and maintenance workshops in a multitude of manufacturing industries as well as for use in educational institutions.

In addition to the basic 180 and 250 machines there are the 180 MLP and 250 MLP models available for those who want to get extra convenience and productivity to their welding.

These models are equipped with the MLP control panel with special functions, such as the Minilog function and a very easy-to-use pulsing feature: you just set the pulse time and current average and start welding.

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