

MinarcTig™ 180

Benefits

- Quick and easy to use
- Quality welds
- Portability
- Durability
- Power generator compatible

Main applications

- Installation and outfitting
- Repair and maintenance
- Thin sheet metal fabrication workshops
- Chemical and process industry



MinarcTig™ – the little giant in TIG/MMA welding applications where power and portability are important

The MinarcTig™ 180 is based on the same lightweight, compact design as the Minarc MMA and the award-winning MinarcMig™ Adaptive.

This dual-process machine offers a unique combination for completing various welding tasks. TIG can be used for tasks demanding great accuracy, while MMA offers the possibility to weld thick and demanding joints efficiently. 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 and by the do-it-yourself welder.

The MinarcTig™ 180 is a single-phase 230-volt welding machine with a load rating that is the highest in its size class. It can be powered from either a mains supply with a long input cable or a generator, making it useful for on-site mounting work, pipe welding, construction, and the hire industry. MMA welding is possible for all standard materials and electrode types.



Features:

- 'Ready to weld' package includes necessary accessories and functions required in day-to-day TIG welding
- Versatile control panel with an easy-to-use one knob interface
- Electrode ignition pulse and anti-freeze function for MMA welding
- Easy-to-grip carrying handle and a place for the reeled welding cable
- Compatibility for all of Kemppei's optional remote controllers: the hand-held R 10, foot-operated R11F, or torch remote controllers RTC 10 and RTC 20.



Easy-to-use one knob interface

The one knob interface of the MinarcTig™ control panel lets you easily adjust all welding functions and parameters, such as pre- and post-gas setting along with upslope and downslope setting.

Technical Data

MinarcTig™ 180

Mains voltage	230 V +/- 15% 50/60 Hz
Rated power	TIG max 6.7 kVA (180 A/17.2 V)
	MMA max 7.0 kVA (140 A/25.6 V)
Connection cable/fuse	3 x 2.5 mm ² - 3 m/16 A delayed
Load capacity 40 °C	TIG 35% ED 180 A/17.2 V
	100% ED 120 A/14.8 V
	MMA 35% ED 140 A/25.6 V
	100% ED 100 A/24 V
Welding range	TIG 5 A/10.2 V - 180 A/ 17.2 V
	MMA 10 A/20.4 V - 140 A/25.6 V
Open circuit voltage	95 V
Power ratio at max current	TIG 0.62
	MMA 0.63
Efficiency at max current	TIG 75%
	MMA 81%
Stick electrodes	MMA ø 1.5 - 3.25 mm
External dimensions (L x W x H)	400 x 180 x 340 mm
Weight	7.8 kg (8.4 kg with supply cable)

Order Information

MinarcTig™ 180	
incl. power source, TTC 160 4 m, earth cable 16 mm ² 5 m	MINARC180TTC4
incl. power source, TTC 160 8 m, earth cable 16 mm ² 5 m	MINARC180TTC8
Optional torches	
TTC 160, 4 m	627016004
TTC 160, 8 m	627016008
TTC 220, 4 m	627022004
TTC 220, 8 m	627022008
Cables	
Welding cable, 16 mm ² 5 m	6184103
Earth cable, 16 mm ² 5 m	6184113



Safety

The ergonomically designed, impact-resistant reinforced plastic casing is both practical and safe. The lightweight machine is protected against dirt, dust, and water impregnation. It is CE marked, and it complies with the construction and safety requirements in IEC 60974-1 and IEC 60974-3 and EMC requirements in IEC 60974-10. All MinarcTig™ machines conform to the requirements in protection class IP23C.

Gas flow regulation AR/watch	6265136
Remote controls for TIG torches	
RTC 10	6185477
RTC 20	6185478
Remote controls	
R 10	6185409
R11F	6185407