

TIG 180 AC/DC puls

290-020200-00000



- TEAMWELDER TIG 180 AC/DC – the specialist for aluminium welding
- TIG and MMA welding
- Ideal for aluminium: Optimum ignition and stabilisation of the alternating current arc thanks to positive terminal ignition
- TIG HF start and TIG lift arc
- Powerful MMA welding (Arcforce, hot start, antistick)
- Non-latched, latched
- Setting and display of welding current and voltage, including hold function for reading off values after welding
- Inverter technology: Lightweight and compact design, high efficiency and standby function
- 100% suitable for construction sites: Splash-proof, unrestricted generator operation, connection to long mains leads, robust casing
- Mains lead with 16 A earthed plug
- **Overvoltage protection: No damage to machine if inadvertently connected to 400 V**

- Production and repair work in workshops, for assembly work and on construction sites
- Roofing operations
- Food and chemicals industry
- Pipe, container and equipment construction
- Vehicle and tool construction, mechanical and plant engineering
- Metal, conservatory and window construction
- Façade, heating and ventilation construction

	TIG	MMA
Setting range for welding current	3 A - 180 A	3 A - 140 A
Duty cycle at ambient t.e	40 °C	
35 %	180 A	–
50 %	–	140 A
60 %	150 A	130 A
100 %	120 A	110 A
Open circuit voltage	43 V	
Mains frequency	50 Hz / 60 Hz	
Max. connected load	5.3 kVA	6 kVA
Recommended generator power	7.2 kVA	8.1 kVA
cos φ	0.99	
Efficiency	85 %	
Dimensions machine, LxWxH in mm	600 x 205 x 415	
Weight, machine	16.5 kg	
Protection classification	IP 23	
Torch connection	Decentral	
Standards	IEC 60 974-1; -3; -10 / S-Safety sign / EMC class A	
	IEC 60 974-1; -3; -10S-Safety sign, EMC class A	

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TIG 180 AC/DC

The lightweight AC/DC TIG welding machine –
Ideal for aluminium welding

Only 16.5 kg – Easy to transport to any operating site

Practical carrying strap for effortless transport over ladders, in steel construction and on scaffolds

Energy cost-saving inverter technology

- High efficiency
- Standby function

100% suitable for construction sites

- Large mains voltage range for unlimited operation with generators and **up to 75 m-long mains lines**
- Splash-water protected as per IP 23
- Rugged aluminium housing with impact-resistant plastic cover in front and rear
- Operating elements placed in protected location



Excellent TIG ignition and welding properties

- HF start, contact-less – Prevents tungsten inclusions
- Concentrated, stable arc

Powerful MMA welding

Perfect aluminium welding

- Optimum ignition and stabilisation of the alternating current arc thanks to positive terminal ignition for optimum balled end formation
- Very good cleaning effect

Remote control connection as standard

For welding current adjustment

Safe and reliable

- **Overvoltage protection:** No damage to machine if inadvertently connected to 400 V mains voltage
- Temperature-overload protection
- Dust-protected electronics

Very easy one-knob operation – Just switch on and start welding

Fast to learn – Ideal for assembly work with frequent personnel changes



Setting and display

- Welding current
- Welding voltage
- Hold function

Selection of the current type

- Alternating current (AC)
- Direct current (DC)

Welding procedures, operating modes

- TIG (HF start and lift arc)
- MMA
- Non-latched, latched

Large rotary knob

for safe operation, even with gloves

Self-explanatory operating panel

- The most important TIG functions, such as welding current, down-slope and gas post-flow, are directly accessible
- Additional TIG and MMA welding parameters can be changed in the submenu!
- Large push-buttons for selection of functions such as non-latched, latched, MMA etc.

Alternating current (AC) functions pre-set for practical needs

- AC balance and frequency
- Ignition optimisation for optimum balled end formation

System components for welding TIG

TW-SR 17 GD 4m

294-080125-10604



- TIG welding torch with double push-button
- Decentralised torch connector
- Hose package with one metre leather protection from torch handle downwards.
- Compatible with SR replacement parts
- Double push-button
- Please ensure the welding torch is always equipped according to the diameter of the tungsten electrode
- **Standard equipment ex works:** 2.4 mm-dia. electrode (purple), 2.4 mm-dia. collet, 2.4 mm-dia. collet body, 12.5 mm-dia. gas nozzle, long back cap

WK35 mm² 290A/60% 4m/K

092-000008-00000



- Fully assembled welding leads

DM 842 Ar/CO2 230bar 15l D

394-002910-00015



- Pressure regulator with manometer
- Manufactured in accordance with ISO 2503
- Maximum primary pressure of 230 bar
- Single-stage
- Infinite and highly accurate adjustment
- Safety manometer with pressure meter or flow meter (bar/psi or litres per minute)
- With cut-off valve

GH 2x1/4" 2m

094-000010-00001



- Shielding gas hose
- Equipped with plastic nuts on both sides for tool-free assembly

Accessories

Cool S

290-020700-00000



- Cooling unit with centrifugal pump

BWG UNI

295-001001-00000



TW-RT1 19POL

290-008097-00000



- Remote control, current
- Infinitely adjustable welding current (0% to 100%) depending on the main current preselected at the welding machine.
- Operating point setting directly at the site of welding
- Robust metal casing with rubber feet, retaining clip and holding magnet

TW-RA5 19POL 5m

292-001470-00005



- Connection cable e.g for remote control

Accessories

EH 35qmm 4m
092-000052-00000



- Fully assembled electrode holder with cable

DMR TN 200B AR/MIX 16L
394-000850-00000



- Pressure regulator in ergonomic design
- For non-corrosive industrial gases
- Single-stage design with a high level of precision
- Central filter in pressure regulator
- Safety manometer in accordance with BS EN ISO 5171
- Compact design
- Integrated relief valve

TR 70S G3 5kg/PAK. 1.6x1000mm
097-003489-10016



- Unalloyed TIG welding rod
- Copper-plated and stamped
- Suitable for boiler and tube steels
- Semi-fluid molten pool, good controllability

TR 5183 Mg4.5Mn 2.5kg 1.6x1000
097-003495-10016



- TIG welding rod, aluminium
- 4.5% magnesium, 0.7% manganese
- High strength, extremely resistant to corrosion, resistant to sea water
- Suitable for subsequent anodisation