

## TIG WELDING INVERTER



**Portable, primary switched-mode welding inverter with digital control. TIG welding with non-contact HF ignition that can be deactivated. Electrode dia. up to 4 mm. Thanks to the rugged assembly design and insensitivity to being dropped, this unit is ideally suited for mobile use on construction sites.**

### TIG 180 DC

**Art. No. 0702 353 01**

P. Qty. 1

Delivery scope		
Designation	Art. No.	P. Qty.
Grounding Cable, 25 mm <sup>2</sup> , 2.5 m	<b>0984 150 7</b>	1
WLT 17 K TIG Torch, 4 m	<b>0984 150 104</b>	
Argon/CO <sub>2</sub> Pressure Reducer similar to Würth	<b>0984 018 03</b>	
Carrying Case, black	<b>0984 150 6</b>	
Carrying Strap	–	

Technical data	
Weldable TIG welding rod dia.	1.0 – 2.4 mm
Weldable electrodes dia.	1.5 – 4.0 mm
Welding range for TIG welding	5 – 180 A
Welding range for electrode welding	5 – 150 A
Switch-on time with max. current (+40°C) with electrode and TIG welding	40%/30%
Weldable material thicknesses	
Steel	Up to 10 mm
TIG steel/stainless steel	1 – 6 mm
Copper	1 – 3 mm

#### Arc force:

Increases the arc voltage in critical situations. Prevents slag from running into the molten bath and extinguishing the arc. As a result, even difficult-to-weld electrodes can be processed.

#### Hot start:

Ensures reliable ignition of the electrode. The hot-start energy is automatically adjusted to the selected welding current.

#### Anti-stick:

Prevents the electrode from sticking to the workpiece by automatically reducing the current. As a result, the electrode does not glow out and evaporation of alloy elements is prevented.

#### Suitable accessories

#### TIG Welding Rods

Art. No. 0982 71...

#### Rod Electrodes

Art. No. 0982 2.../0982 3...

#### WLT 17 K TIG Torch

Art. No. 0984 150 104/108

#### TIG Equipment Kit 1 or 2

Art. No. 0984 150 3/4

#### Gold-Tungsten Electrode

Art. No. 0984 150 110/116/124

- Stable up to a height of 80 cm.
- Operator guidance via light symbols.
- Protection class IP 23, therefore protected against splash water and condensed water.
- Special coating of electronic components results in high resistance to heat, cold, dust and dirt.
- S sign for welding under restricted conditions.
- Digital current transformer compensates for operating errors and ensures extraordinarily good welding results.
- Automatic gas forward and reverse flow protects the tungsten electrode and joint against oxidation.
- High mains voltage tolerance ideally suited for extension cables and generators.
- Can be remotely controlled with foot-operated remote control unit.
- 3-year warranty.

**Available in the fleet management system ORSY®fleet.**

#### Application note

#### Electrode hand welding

Guideline value for welding current to be set:

Electrode core wire dia. x 40 amperes

#### TIG welding

Guideline value for flow rate in L/min:

5–250 amperes → 6.5–7.5 L/min

251–400 amperes → 8.5–9.5 L/min

#### Guideline value for current intensity and gas quantity

Tungsten electrode dia.	Current strength [A] amperes	Gas quantity [L/min]
1.0	15 – 80	4
1.6	70 – 150	5 – 6
2.4	150 – 240	6 – 7

#### Appropriate gas for TIG welding

100% argon