

# YOUR ENTRY INTO THE PROFESSIONAL LEAGUE OF TIG WELDING.

The HandyTIG 180 DC.



## THOUSANDS OF TIG WELDERS CAN'T BE WRONG!

Compact, tried and tested, functional. A HandyTIG 180 DC offers just anything TIG needs. It ignites and welds perfectly professionally and is easy to use, rendering TIG for stainless steel at the construction site and within the workshop a smooth job. These tasks require performance, compactness, tried and tested, functionality. A HandyTIG 180 DC offers just anything TIG needs. It ignites and welds perfectly professionally and offers performance, reliability, and a compact design for repair and maintenance work, reworking of weld seams, or final assembly of subassemblies.

The HandyTIG is the unparalleled entry into the professional quality class for TIG welding alike.



### HandyTIG 180 DC ControlPro

- Welding range 5 - 180 A
- Steel/stainless steel: up to 8 mm
- Contact-free HF ignition
- Schuko plug (230 V)
- Precise – with accurate digital amp display
- Switching 2-/4-trigger
- Remote control from the torch
- Pulse function
- Job memory for 2 TIG and electrode welding tasks each

# PROFESSIONALS LIKE A COMPACT BUILD AS WELL.



## How did we stuff this much power into such a small package?

The secret is in our fully digital inverter technology. Professional TIG welding has never been more compact. And never lighter either. We only need 6.5 kg. That's how little the HandyTIG weighs. Yet it leaves nothing to be desired: The powerful HF ignition, the stable, quiet arc, and the standard pulse function create perfectly clean welds, even on the thinnest of materials. Switching between 2- and 4-step trigger to match the task is easy. The remote control from the torch keeps the arc under control at all times. Feel free to focus on the details. The HandyTIG 180 DC stands out in all disciplines. Insiders speak of the best weight-performance-price ratio on the market. Less elaborately put: We can most warmly recommend the HandyTIG 180 DC.

## Improved welding, improved functions, improved precision. Greater profit with TIG.

- **Precise current settings:** Digital display for adjustment in 1 amp steps
- **Contact-free HF ignition:** For reliable arc start; Non-HF ContacTIG ignition is available as an alternative
- **2-/4-trigger logic:** For fast tacking and comfortable welding
- **Adaptive end crater function,** can be switched off for tack welds
- **Secondary current function:** Can be called up during welding from the torch, e.g. to prevent excessive burn through of the weld seam
- **Pulse function:** Adjustable up to 500 Hz, providing better melt pool control, perfect weld seam appearance, and easier welding of thin material.
- **Up/down function:** Remote control from the torch. Easily adjust the current on the UD torch, even during welding.
- **Job function:** Stores settings for 2 TIG and 2 electrode welds to be retrieved easily whenever needed. Perfect for repetitive work, such as tacking.
- **Remote control connection:** E.g. for comfortable and efficient welding with the foot remote control in the workshop.
- **Automatic gas management:** Controls the gas pre- and post gas flow to protect the tungsten electrode and the weld seam from oxidation.

## Also available for all common stick electrodes

The HandyTIG 180 DC is highly suitable for MMA welding as well.

- **Hot start:** Automatic adaptive hot start for perfect ignition.
- **Arc-force control:** For improved arc stability and optimised material transition.
- **Anti-stick system:** Prevents sticking and damage of the electrode.

## 3 STEPS TO WELD

### Ingeniously simple. Operation – Made by Lorch!

1. Switching on
2. Selecting procedure/pre-programmed electrode type
3. Setting the welding current

The digital microprocessor optimises parameter settings up to 100,000 times per second. The only thing you will notice will be your perfect welding results!



## Practice shows where true value lies.

The HandyTIG is built to withstand the rigour of everyday use. As a result, you and we alike demand a lot from Lorch devices. That's great. After all, this is a tool, rather than a toy.

- **Light weight and crash protection.**  
Are light weight and robust build mutually exclusive? They certainly are not. Even dropped down the stairs or pushed off of a workbench, this system will survive thanks to its crash protection at heights of up to 80 cm.
- **Anywhere on the 230 V mains:** The HandyTIG 180 DC works reliably on the 230 V socket with 16 A fuse protection. It can be used with extension cables up to 100 m and powered by a generator.
- **Mobile at the construction site:** Compact enough to fit into the specially designed protective case along with full TIG equipment.
- **Large sockets:** Every welder knows the issue of welding cables damaged at the connections. Defective insulation, kinked cables, or scorched contact surfaces This not only may be dangerous, but also deteriorates welding quality. It's not very professional. The large 25 mm<sup>2</sup> MicorTIG sockets make a difference.
- **Long live the HandyTIG:** The special coating of the electronics, its integrated air duct and oversized power components optimise protection and service lives.
- **Safe and standard-compliant:** True IP 23S, the S mark, and true, tested CE conformity with European standards as well as ongoing quality assurance made in Germany maximise safety in the workshop and at the construction site. Do not accept any compromises. The CE mark does not equal "China export" at Lorch.



- **Energy efficient** due to thermocontrol and fan standby. The standby system reduces fan noise, pollution, and energy consumption.

## Stainless steel welding with TIG-DC

The HandyTIG 180 DC makes every weld seam perfect, to be welded either with pulse optics or in the standard procedure.

TIG-DC  
welding



TIG-DC  
pulse welding





# HANDYTIG SERIES





## Process table

TIG				
Electrode				

 standard for all models
  standard for certain models
  optionally available

## Operation concepts

	
<b>HandyTIG DC</b> <ul style="list-style-type: none"> <li>■ "3 steps to weld" operating concept</li> <li>■ easy current setting - also possible on the torch (Up/Down)</li> <li>■ 7 segment display, exact to the amp</li> <li>■ Switch 2-stroke/4-stroke</li> <li>■ including high-frequency ignition</li> <li>■ comes standard with remote control connection</li> <li>■ Job memory for 2 TIG and 2 electrode welding tasks</li> </ul>	<b>HandyTIG AC/DC</b> <ul style="list-style-type: none"> <li>■ "3 steps to weld" operating concept</li> <li>■ easy current setting - also possible on the torch (Up/Down)</li> <li>■ 7 segment display, exact to the amp</li> <li>■ Switch 2-stroke/4-stroke</li> <li>■ including high-frequency ignition</li> <li>■ comes standard with remote control connection</li> <li>■ Job memory for 2 TIG and 2 electrode welding tasks</li> <li>■ Possibility for connection of Lorch Powermaster remote control torch</li> </ul>

## TECHNICAL DATA



HandyTIG 180



HandyTIG 200

TIG		
- welding range (in Amps)	3-180	3-200
- current setting	infinitely variable	infinitely variable
Electrode		
- welding range (in Amps)	5-150	10-170
- weldable electrodes (mm)	1,5-4,0	1,5-4,0
Duty cycle TIG DC		
- duty cycle 100% (in Amps) - DC	130	160
- duty cycle 60% (in Amps) - DC	150	180
- duty cycle at max. current (in %) - DC	30%	45%
Duty cycle TIG AC (only AC systems)		
- duty cycle 100% (in Amps) - AC	130	160
- duty cycle 60% (in Amps) - AC	150	180
- duty cycle at max. current (in %) - AC	35%	45%
Mains		
- mains voltage (in V)	230	230
- phases (50/60 Hz)	1~	1~
- positive mains tolerance (in %)	15%	15%
- negative mains tolerance (in %)	25%	25%
- mains fuse (in Amps)	16	16
- mains plug	Schuko	Schuko
Dimensions and weights		
- dimensions (LxWxH) (in mm)	337x130x211 / 480x185x326	480x185x326
- weight (in kg)	6,5/13,3	13,4
Standards and approvals		
- standard	EN 60974-01	EN 60974-01
- protection class (EN 60529)	IP23S	IP23S
- insulation class	F	F
- designation	CE, S	CE, S

### Versions

Solo machine	TIG assembly pack	Solo system	TIG assembly pack
Compact, light, portable system, carrying strap included in the scope of delivery	System in assembly case with complete accessories for electrode and TIG welding	Compact, light, portable system, gas hose, and carrying strap included in the scope of delivery	System in trolley assembly case with complete accessories for electrode and TIG welding