

The T Series

Exactly how a **mobile welding machine for TIG professionals** should be.

What was only possible with the enormous welding machines of yesterday is handled today in the smallest of space with the T series technology. Good ergonomics and easy to carry from just 12 kg. Filled with **high end technology**. It is due to the internal values which clearly distinguishes the T from others.

Because what the T now does better is determined by our engineers, welders and process experts. **SmartBase**, the Lorch expert database, perfectly controls the arc. Occasional welders can achieve surprisingly good results with it. And with a T, the professionals show what they can really do! All freedoms for fine corrections are at hand because the **parameter settings can be completely changed if required**.

The T Series is available in all power outputs as **DC** and **AC/DC** version (if aluminium should also be welded) and provides you with maximum flexibility. On the one hand it impresses as a mobile site unit but also becomes the complete machine solution for workshop and manufacturing operations using the **optional water cooler** and the Maxi-Trolley.



The T Series at a glance

- ✓ outstanding TIG weld characteristics
- ✓ complete professional TIG functionality
- ✓ SmartBase expert database regulates the parameters for optimal arc conditions
- ✓ optionally with water re-circulation cooling unit WUK 6 (can be directly adapted to the T housing)
- ✓ pulse and fast pulse up to 2 kHz
- ✓ interval spot function for tack welding of thin sheet metal
- ✓ Tiptronic job memory for up to 100 welding tasks
- ✓ guaranteed protection against falls of up to 60 cm in height
- ✓ generator-compatible
- ✓ full power even in the case of voltage fluctuations and when using long cables
- ✓ “3 steps to weld” operating concept
- ✓ with non-contact HF ignition (can be changed over to ContacTIG)
- ✓ electrode welding function
- ✓ connection for hand and foot remote control
- ✓ manufactured and tested according to DIN EN 60974-1, with CE mark, S-symbol and IP 23
- ✓ high efficiency and low energy consumption due to the most modern power electronics and the fan standby function

Additional in the AC/DC

- ✓ changeover DC to AC
- ✓ positive pole ignition and automatic cap shape
- ✓ Lorch MACS special process, increasing the weld quality for thin aluminium sheets

Everything you need, perfectly stowed

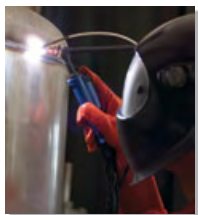
It is “the” complete TIG system for your business. You can also overcome the most demanding **continuous use** with the water re-circulation cooling unit, the WUK 6. The system is quickly fixed and the accessories perfectly stowed on the Maxi Trolley, the stable transport carriage.



The water re-circulation cooling unit, designed to be placed under the T.

The Maxi Trolley.
The ultimate transport trolley.

More productivity with cold wire feeding



With the ControlPro, the way to automation is open to you. Simply connect the Lorch Feed cold wire feeder using **Plug & Weld** via the **LorchNet** connection and already you replaced the manual feed at the filler material. And start producing top TIG quality with optimum speed – even over long working times. We don't know how to achieve more productivity and quality.

3 steps to achieve weld perfection

1. Select welding process
2. Select electrode diameter
3. Adjust welding current



2 torches for selection

One is a **double push button torch** with which you activate the precise welding current “On/Off” and the “immediate” reduction. The other is a **Up-Down torch**. The welding process and exact regulation of the welding current is controlled directly at the torch in your hand. You can save time by reducing the unnecessary moving between machine and workpiece with this.



TIG perfection on the move and in your manufacturing operation

With the stable Maxi Trolley, you are flexible and have direct access to everything you need and furthermore you can roll 50 litre cylinders to the construction site yourself. You also overcome the most demanding continuous use brilliantly with the water re-circulation cooling unit, the WUK 6.

TIG



Easy handling guaranteed – the operating concepts of the T Series

BasicPlus

1. Select welding process
2. Specify operating mode
3. Adjust welding current



- ✓ user-oriented operator guidance using illuminated symbols
- ✓ exact-ampere digital display for welding current
- ✓ simple parameter adjustment
- ✓ remote control connection

ControlPro

1. Select welding process
2. Select electrode diameter
3. Adjust welding current



- ✓ user-oriented operator guidance using illuminated symbols
- ✓ exact-ampere digital display for welding current
- ✓ exact digital display for welding voltage
- ✓ simple parameter adjustment
- ✓ remote control connection
- ✓ LorchNet for the entry to Lorch Automation
- ✓ connection possibility for Lorch FEED cold wire feeder
- ✓ Tiptronic job memory for up to 100 welding tasks

The power variants



Trolley type protective tool case: Your seven items are compact, easily transportable and well secured in this case.



	T 180 180 A	T 220 220 A	T 250 250 A	T 300 300 A
Welding range	DC oder AC/DC	DC oder AC/DC	DC oder AC/DC	DC oder AC/DC
TIG	3 – 180 A	3 – 220 A	3 – 250 A	3 – 300 A
Electrode (DC /AC/DC)	10 – 150 A	10 – 180 A / 170 A	10 – 200 A	10 – 200 A
Weldable electrodes				
TIG Ø in mm	1,0 – 3,2	1,0 – 3,2	1,0 – 4,0	1,0 – 4,0
Electrode Ø in mm	1,5 – 4,0	1,5 – 4,0	1,5 – 5,0	1,5 – 5,0
Standard duty cycle for TIG welding measured according to German quality standard DIN EN 60974-1 at 40° C ambient temperature				
Duty cycle 100 % (40° C)	130 A	160 A	180 A	210 A
Duty cycle 60 % (40° C)	150 A	180 A	220 A	260 A
Duty cycle I max. (40° C)	35 %	40 %	40 %	35 %
Machine				
Mains voltage	1 – 230 V	1 – 230 V	3 – 400 V	3 – 400 V
Permitted mains tolerance	+/- 15 %	+/- 15 %	+/- 15 %	+/- 15 %
Mains fuse, delayed action	16 A	16 A	16 A	16 A
Dimensions in mm (L x W x H)	480 x 185 x 326	480 x 185 x 326	480 x 185 x 326	480 x 185 x 326
Weight	12,1 kg	13,3 kg	16,0 kg	16,0 kg
Operating concepts				
BasicPlus	•	•	•	•
ControlPro	•	•	•	•