

# The T Series

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

What was only possible with enormous welding machines of yesterday is handled today in the smallest space with T series technology. Good ergonomics and easy to carry thanks to weights as low as 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, furthermore, equipped with ITC-Inside. This gives you the option of working with a standard torch or employing Lorch's **new TIG torch technology including Powermaster remote control** and display directly at the torch.

The T series is available in all power variants as **DC** and **AC/DC** versions (also if you need to weld aluminium) 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.

**ITC INSIDE**  
Intelligent Torch Control



## The T Series at a glance

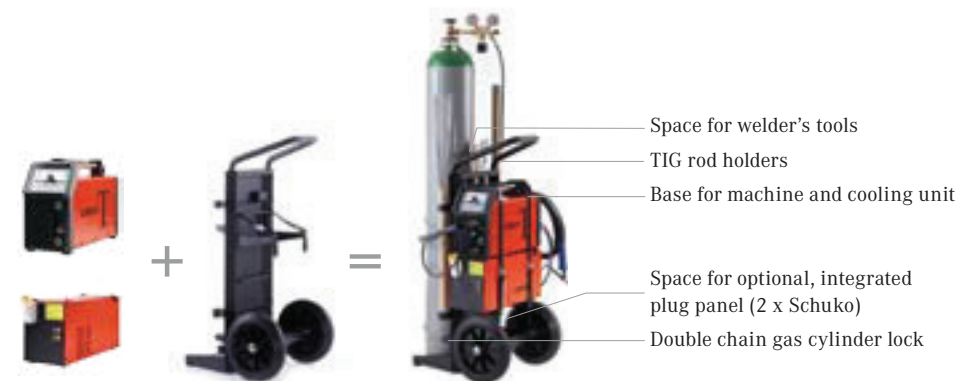
- ✓ Outstanding TIG weld characteristics
- ✓ Complete professional TIG functionality
- ✓ SmartBase expert database regulates the parameters for optimum arc conditions
- ✓ Optionally with water-cooling unit WUK 6 (can be directly adapted to the T housing)
- ✓ Pulse and fast pulse up to 2 kHz
- ✓ Interval 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
- ✓ ITC-Inside makes it possible to use standard torches as well as Lorch's fully digital TIG torch technology including Powermaster remote control
- ✓ "3 steps to weld" operating concept
- ✓ With non-contacting HF ignition (can be changed over to ContacTIG)
- ✓ Electrode welding function
- ✓ Connection for hand and foot remote control
- ✓ High efficiency and low energy consumption due to the most modern industrial electronics and the fan on demand technology
- ✓ Manufactured and tested according to DIN EN 60974-1, with CE mark, S-symbol and IP 23

### Additional in the AC/DC

- ✓ Changeover DC to AC
- ✓ Positive polarity ignition and automatic cap shape
- ✓ Lorch MACS special process, increasing the weld quality for thin aluminium sheets

## Everything you need, perfectly stowed

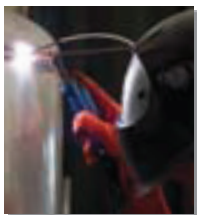
It is “the” complete TIG system for your business. You also master the most demanding **continuous use** with the water-cooling unit, the WUK 6. The system is quickly fixed and the accessories perfectly stowed on the Maxi Trolley, the stable transport carriage.



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 replace 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



## ITC makes it possible: Two torch options

ITC, intelligent torch control, allows the T series to detect whether a standard torch is connected or whether you wish to work with a Lorch torch of the latest generation, consequently causing the T series to automatically provide the corresponding functionality. If using an i-Torch, you will then be able to benefit from the protective features HeatProtect and TorchProtect as well as the productivity-enhancing Powermaster technology including digital display at the torch.



## 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 you can, furthermore, roll 50 litre cylinders to the construction site yourself. You also master the most demanding continuous use brilliantly with the water-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 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 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		T 180 DC or AC/DC	T 220 DC or AC/DC	T 250 DC or AC/DC	T 300 DC or AC/DC
TIG		3 – 180 A	3 – 220 A	5 – 250 A	5 – 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 %	(DC / AC/DC)	130 A	160 A	175 A	200 A / 180 A
Duty cycle 60 %	(DC / AC/DC)	150 A	180 A	200 A	250 A / 220 A
Duty cycle I max.	(DC / AC/DC)	35 %	40 %	35 %	35 % / 30 %
Machine					
Mains voltage		1 ~ 230 V	1 ~ 230 V	3 ~ 400 V	3 ~ 400 V
Permitted mains tolerance		+ 15 % / - 25 %	+ 15 % / - 25 %	+ 15 % / - 25 %	+ 15 % / - 25 %
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		•	•	•	•
ITC (Intelligent Torch Control)		•	•	•	•