

Lorch T and V series:

TIG WELDING TASKS IN SHEET METAL PROCESSING.



The T Series at a glance

- **Mobile TIG welding inverter.** With superb TIG welding abilities Good ergonomics and easy to carry with weights from only 12 kg. Ideal for applications on site.
- **Pulse and fast pulse with up to 2 kHz.** The built in pulse function with up to 2 kHz included in every machine offers you additional benefits when welding thin sheets.
- **Excellent welding performance.** High-end technology and the SmartBase parameter database control the arc to produce flawless results.
- **Changeover from DC to AC (AC/DC only).** Available as DC and AC/DC versions in all power variants, Lorch's T series provides you with maximum flexibility even during aluminium welding.
- **Contactless HF ignition.** TIG ignition works contactless, to avoid tungsten contamination during arc start.

The V Series at a glance

- **Powerful TIG.** Superior TIG equipment paired with proven inverter technology in a robust industrial housing.
- **Plain text display with language selection and Tiptronic.** Thanks to the clearly structured user interface and the slanted operating panel, the device control remains well visible throughout operation and affords the user an ergonomic operating position. Based on the machine you are using, you select the AC or DC function, the electrode diameter and the welding current. When working in Tiptronic mode, you can then save your optimal setting for each weld.
- **Aluminium welding (AC/DC variant).** Positive polarity ignition and automatic cap shape produce a perfectly shaped ball at the tungsten during aluminium welding.
- **Pulse and fast pulse with up to 20 kHz.** The standard pulse function with up to 20 kHz, included in every machine, offers you additional benefits when welding thin sheets and enables increased welding speeds during automated applications.

Spot mode / tacking.

- Tack ultra-thin sheets with perfect reliability using tack pulses in the millisecond range. Significantly reduced sheet metal deformation, minimised temper colours on the back.
- Dependable tacking of stainless steel pipes (reduced risk of coking). Uniform tack welds can be welded over with perfect ease. Reliable fusion of the tack weld thanks to high instant energy.
- Straightforward set-up and savings in time.



Tacking

Thin INOX sheeting / thin pipes.

- Perfect control thanks to concentrated arc. The Pulsating arc promotes fusion in the weld pool. The optimised frequency allows for improved handling.
- Pushing torch position possible even when working with ultra-thin sheets. Minimal temper colours.
- Perfect option for welding in a wide variety of positions in sheet metal construction.
- Effortless set-up and less reworking.



Corner seam

Pulse / butt welds up to 3mm.

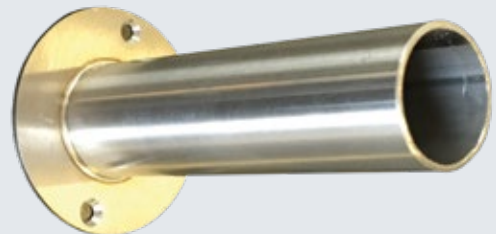
- Targeted heat input and exceptional gap bridging.
- Parameters for penetration, seam width and seam design can be set individually.
- Design welds, root welds, automation, and thick-thin joints.



Outlet duct

KHZ pulse / increased speed.

- Strongly focused arc and faster welding speed.
- Reduced temper colours and expedient welding of thin sheets.
- An exceptional option for automated welding and nickel-based materials.
- Time savings thanks to improved speed and less reworking = savings in cost.



Support foot furniture making

Aluminium macs / corner seams.

- The T series.
- Targeted phase reversal between alternating and direct current. Drastically improved pool control, electronic pool protection and reduced strain on the tungsten electrode.
- An outstanding choice for forced positions and thick-thin joints.
- Improved reliability and enhanced performance.



Corner seam

Thin aluminium sheeting

- Soft, focused AC arc.
- Unparalleled handling.
- Reduced burn-through risk.



Corner seam 0.8mm