

Lorch T and V series:

# TIG WELDING TASKS FOR TANK, VESSEL AND EQUIPMENT MANUFACTURING.



## 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 pipes with perfect reliability using tack pulses in the millisecond range. Significantly reduced component deformation, minimised temper colours on the inside.
- 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

### Pulse / butt welds up to 3 mm.

- 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.



Round seam valve

### KHZ pulse / increased speed.

- Strongly focused arc and faster welding speed.
- Reduced temper colours.
- Secure root coverage.
- An exceptional option for automated welding.
- Works extremely well on nickel-based materials.
- Time savings thanks to improved speed and less reworking = savings in cost.



Root flange

### Mid-frequency pulse.

- Focused arc.
- Outstanding weld pool control.
- Great performance in forced positions.
- Low heat input.



Thick-thin connection 0.7/5 mm