



TUCKER®

TGX-S Welding Gun

Semi-automatic gun with linear motor
for drawn arc stud welding

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The semi-automatic TGX-S welding gun is the expansion stage of the TGX-M manual gun and the logical further development of the tried-and-tested Tucker PLM200 manual guns for drawn arc stud welding. Ideal areas of use are small series production and serial production in cost-sensitive environments. Designed for intensive continuous use, the TGX-S delivers the best welding results and maximum reliability.

Compared to its predecessor, the TGX-gun has been extensively revised and improved in key areas. From now on, the linear actuator with directly connected measuring system forms the core component of the TGX guns. This central system has been designed and intensively tested for repeatable, precise movements. Integrated magnetic valves optimize process times, save compressed air and shielding gas.

This semi-automatic version of the TGX series meets a wide range of requirements in terms of weld stud processability, base materials and surface finishes. AC welding (in combination with AC power source) and the use of shielding gas are of course possible. Improved welding results in challenging steel applications as well as aluminum stud welding are mastered by the gun with excellence.

The design of the TGX-S allows the user to adapt the gun to a wide range of stud geometries via a change of the frontend. The standard length of the cable pack is 8 meters. If required, a Tucker cable extension for welding tools can be used, as known from the TE and TX series (TC02).

Customer benefits

- High technical availability and precision
- Maximum reproducible weld quality
- Linear actuator technology and parameter control for quality control
- Improved ergonomics
- Even shorter process times
- Savings of 20 % compressed air and 20 % shielding gas vs. PLM200

Future-oriented

- UPA-Spirit
- Advanced central components and modern processor technology
- Direct connection to TE and TX series controllers

Versions & Applications

- Standard applications on steel
- Protective gas assembly for high-strength, thin steels and aluminum applications
- Models available in Standard & Advanced



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Version	TGX-S Standard	TGX-S Advanced
Ergonomic handle	■	■
Linear motor module (9 mm)	■	■
Protective gas variant	■	■
Steel & Aluminum Processing	■	■
Multi-color LED for operating status display	■	■
Welding program selection via button		■
Display for measurement support, status display, program display, ...		■
Extended process control (deduction)		■
Load pin sensor back-position		■
No adapter box for coupling to TE and TX	■	■

Specifications (deviations possible depending on variant)

Weight	(without hose package) (incl. 8 m hose package)	~ 3.5 kg ~ 7.5 kg
Dimension (H x W x L)		ca. 330 x 75 x 229 mm
Motor Module Travel (max.)		9 mm
Measuring system		Reflection light barrier, fully integrated
Output, up to (studs/min)*		20 Stk/min
Integrated controller		Maintenance & process counters, advanced sensors

*Considering welding energy limitation of energy source and design of the feed path.



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