

TGX-M Manual Gun

Manual gun with linear motor for drawn arc stud welding

The TGX-M manual gun is the logical evolution of the proven Tucker PLM560 manual gun for drawn arc stud welding.

Ideal areas of use are prototype production at low volumes and rework stations. Nevertheless, the TGX-M gun offers absolute reliability and the best welding results; even with intensive continuous use.

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.

Furthermore, new mouthpieces with outlets in combination with a seal reduce dirt accumulation due to the welding process.

This manual 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 also 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-M allows the user to adapt the gun to a wide range of stud geometries via a change of the frontend.

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

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



TGX-M Manual Gun

Manual gun with linear motor for drawn arc stud welding

Version	TGX-M Standard	TGX-M 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)		■
No adapter box for coupling to TE and TX	■	■

Specifications (deviations possible depending on variant)

Weight (without hose package)		~ 1,5 kg
(incl. 6m hose package)		~ 5,3 kg
Dimension (H x W x L)	ca. 200 x 59 x 215 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.