

THW 1500 Control & Energy Unit

Mobile stud welding power unit with Tucker PLM gun

The FACS-equipped (Flexible Arc Control System) THW 1500 is designed to comply with worldwide standards and connects to any single-phase **household power** (unit w CEE 7/7 plug).

The THW 1500 is a derivative of the SEF Nelson N550c Arc Charger and was especially engineered to meet automotive standards. The Arc Charger Series uses an industry proven Dot Matrix interface. Weighting about 39 kg [86 lbs] the machine is easy to move around – an optional wheel kit is available. It allows the user to roll the welder anywhere.

The THW 1500 can **DC-pulse weld**. Custom waveforms can be designed by the user to optimize the welding process, which allows welding of a wide range of materials.

Microcontroller powered short cycle features provide a stable process to weld typical automotive studs: Large Flange, X-Tree, T-Stud and Ground stud.

Stud Expert™ helps the operator to easily set-up a welding application. This wizard makes set-up as simple as determining the diameter and material to be welded.

Directly connect the linear motor driven Tucker gun **PLM560** to the THW 1500 machine via the typical multi coupling and you are ready to weld within seconds; no adapters needed.

Also, the welder includes quality monitoring features that allow the operator to evaluate weld parameters to ensure optimal repeatability & quality welding.

Customer Benefits:

- “Weld anywhere” – easy to move & handle
- Works with single-phase household power
- Quick set up via Stud Expert™
- Works with Tucker PLM560 – linear motor gun
- Reproducible welding quality

Application:

- Mild & Stainless Steel, High-strength, thin sheet metal
- Large Flange
- X-Tree
- Ground Stud
- T-Stud

Options & Ancillaries:

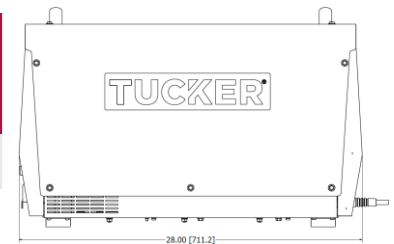
- Wheel kit to easily roll the unit; easy fitting
- Use ground cable with Dinse Plug/ Male (Machine has Dinse Female Socket)



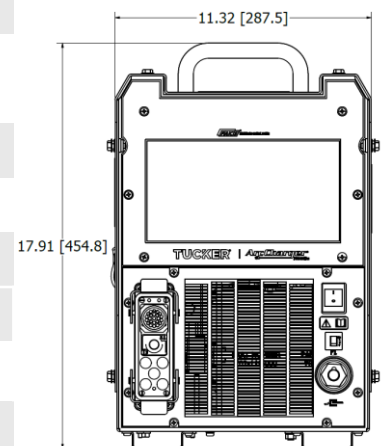
THW 1500 Control & Energy Unit

Facts & figures

THW 1500	North America	Europe
Weight	39 kg [87 lbs]	
Dimensions L x W x H	712 x 288 x 455 mm [28" x 11.3" x 17.9"]	
Power Cord	2,75 m [9 ft]	
Input Voltage (V) 1 Phase	115	230
Input Current (A)	15	8
Mains frequency (Hz)	60	50
Weld Rate Short Cycle	1500A, 50ms* 10 (studs/min)**	
	1000A, 100ms* 8 (studs/min)**	
Gun	Tucker PLM560	
Stud Dia max	M8 [3/8"]	
Idle Power (W)	25 max	
Display	Dot Matrix	



views not to scale



machine
+ wheel kit

* Continuously adjustable

** The number of max. welds per minute depends on the whole process and its circumstances. For further optimization, each weld system needs to be considered individually



interface