

TARPA PRO

Automated Traveling Head High Frequency Welder
for tensile structures, membranes, tents, billboards, oil booms etc.

- High efficiency HF weld cycles with 10/15/20/25kW output power
- Sealing efficiency from 1kW: up to 40cm² for standard PVC materials
- Work table length up to 100m with optional vacuum system
- Universal usage for PVC, PU, TPU, reinforced technical textiles
- 1500mm electrode length (optional: 1700mm)
- Easy material positioning with deep trough behind electrode
- 10" touch screen color HMI panel with expanded functionality
- Easy material positioning with back trough and laser guides
- **AXYZ Move - optional transverse ± 50/100mm weld head motion**



AXYZ
MOVE SYSTEM



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HF Welders - Impulse Welders - Heat Sealers - Boxmakers - Die Cutters
Thermoformers - Hydraulic and Pneumatic Presses - Custom machines

CE Made in EU



Quick overview

- TARPA PRO HF welder heat sealer is designed specifically for production of large format tensile structures. Machine can be equipped with special impulse electrode for welding non-HF weldable fabrics made of PE and PP, as well as FlexEL 'soft' multilayer welding electrode and curved HF electrodes for sealing round window profiles made of clear PVC and any other shapes requiring precision welding.
- TARPA PRO model is equipped with motion gear controlled by frequency inverter and glide-on railing to achieve a perfect continuous straight line seam. Optional vacuum work table with the length up to 100 meters and laser guides allow handling of large format materials and precision weld positioning for fast production setup.
- Full advanced programming functionality, including ATSTM auto-tuning, WCS™ weld control systems and expanded linear weld control (spot sealing, cycle left-right-left welds, parking and starting at any end, overlap welds) is achieved thanks to onboard PLC integrated with 10" touch screen HMI.
- TARPA PRO machines have HF power output up to 30kW for large production loads and reinforced heavy duty fabrics, effectively providing up to 1200cm² of welded surface with one weld cycle.

Applications

- Large format technical textiles, tensile structures, shade systems, truck covers and side curtains
- Swimming pool liners and covers, oil booms, flood dams and water tanks
- Airport hangars, portable storage structures, containment pools, ground liners
- Advertising signs and large format billboards, tents, high speed doors

Features

- Possibility to install more than one welding head on the same track
- Manual, semi-automatic and automatic operation
- Back table trough for easy material handling
- ATSTM Autotuning HF power output system
- WCS™ Weld Check System - verifying quality of welds with preset parameters
- 8 position multifunction joystick
- Workspace lighten with LED lights
- PE, PP weldability with optional Impulse electrode
- SafeDOWN™ anti-crush electrode motion safety system
- Hi-Q Gen5 EcoHF new generation stable and efficient HF generator
- Ultra-fast sensitive ARC sensor & output overload protection
- Oil temperature stabilization (30-60°C)
- Unlimited weld cycles recipes memory and USB, WAN/LAN IO
- Built in VPN client and VNC server
- CE, EMC, EU, FCC and OSHA compliant

Optional features

- XYZ Move system (± 50mm or ±100mm)
- Work table vacuum system for easy material handling
- Driving side platforms for the machine operator
- Red or green laser line projectors – single/double on one or both sides of welding head
- Front trough - attached or sliding under the work table
- Large (1200x300mm) pressing plate for various shapes welding
- Tape dispensers on one or both sides of welding head
- Table top made of magnetic steel
- Impulse electrode

Custom built tooling and electrodes available upon request. Each machine is built according to customers needs. Parameters can be modified or adjusted - if required - at additional cost.

Technical specification	Tarpa Pro 10 kW	Tarpa Pro 15 kW	Tarpa Pro 20 kW	Tarpa Pro 25 kW
HF output power	10 kW	15 kW	20 kW	25/30 kW
Weld surface (up to 40cm ² from 1kW)	≤400 cm ²	≤600 cm ²	≤800 cm ²	≤1200 cm ²
Installed power	15 kW	22 kW	30 kW	38/45 kW
Power supply	3x400 V ; 50Hz			
Main fuse	32 A	40 A		50 A
Working frequency	27,12 MHz ± 0,6% Hi-Q Gen5 HF Generator			
Electron tube	air cooled metal-ceramic triode			
Antiflash system	ultra-fast solid state ZTG AntiFlash™			
Autotuning system	standard, ATSTM			
Control system	PLC and 10" touch screen HMI			
Electrode length	1500 mm (optional: 1700 mm)			
Electrode pneumatic press (at 0,8 MPa)	1600 kg		2400 kg	
Electrode pressure control (0,1-0,8 MPa)	280 - 1600 kg		350 - 2400 kg	
Electrode stroke	up to 160 mm (ability to stop at any height)			
Work table width (without trough)	800 mm			
Space behind electrode (with trough)	1000 mm			
Trough size	W 600 x H 400 mm (different dimensions available)			
Work table length	up to 100 m; sections: 800 mm			
Electrode mount	QuickGRIP, pneumatic			
Grounding foot	standard, pneumatic drive			
HF welding head drive	automatic, inverter-controlled electric motor; linear speed up to 0,5 m/s			



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60 YEARS STRONG 1957-2017

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