



High Voltage Cable Termination Welder

With greater manageability of large cross-section wires and a special fixture to clamp the wire in position, the US-6020STH-FW is the ultimate machine for welding wires up to 95mm². Working together with CLC, it provides the best results for challenging weld applications.

High Efficiency

- Reduced operational costs
- Reduction in tooling consumption
- Less defects with superior quality welds
- From 5mm² up to 95mm² of Cu Cable welding

Superior Accuracy and Control

- CLQC "Closed Loop Quality Control" software. Monitors welding tolerance windows for quality control.
- Detects 5% of missing strand for large cables.
- Consistent measurement and ultrasonic output produce high cPk value.
- Multi-step welds with unique forced and amplitude parameters.

High Voltage Cable Termination Welder Technical Specifications

Our ultrasonic welding systems can be used for high-voltage cable welding applications, including busbar to terminal and cable to terminal. With our Closed-Loop Control (CLC) welding machines, we offer complete control of the welding process, which no other solution on the market can provide.

CLC permits up to 20 weld steps instead of the traditional single step. Each step contains unique parameters to be set, such as Force, Amplitude, and Time. This allows for a proprietary preheating step that results in stronger welds.

Combined with our exclusive software, CLC hardware provides force, height, and energy output in real-time. In addition, operators can easily set and monitor recipe parameters to execute multi-step welding.

SPECIFICATIONS

Frequency	20kHz nominal
Ultrasonic Power	6000W max power
Applications	Wire Termination (up to 95mm ²)
Supply Power	400 VAC 3 phase Wye; 15 Amp max, Nema 6-20r outlet
Pneumatic Pressure	6.5 bars / 94 psi; Air Filter builtin; requires 6mm OD Hose
WeldForce	~7,000 Newton maximum
Software	Windows 10
Visual Display	22 inch touch screen display
Machine Outer Dimensions	100 x 28 x 70 1/2
Net Weight	1443lbs.
Additional Options	Bad Wire Cutter Barcode Scanner



WELDING CAPABILITIES

Cross Section Area	Up to 95mm ² of Cu Cable and up to 120mm ² AL Cable
Wire Type	Copper (Cu) Aluminum (Al)

