



Reel-Feed Termination Welder

TECH-SONIC'S US-3620 MAK-S is the ultimate machine for welding coil terminal applications. Working together with Closed Loop Control (CLC) it provides the best results when it comes to ultrasonic metal welding. The US-3620MAK-S CLC wire termination welder can automatically feed the terminal and cut and weld the part within seconds. CLC elevates this machine with lower power usage and increases tooling lifetime.

High Efficiency

- Reduced operational costs
- Reduction in tooling consumption
- Less defects with superior quality welds
- Knurling lasts longer due to multi-step welding

Superior Accuracy & Control

- Detects a single missing wire at 0.35mm^2 or 3% total CSA
- Detects retracted wires from weld area, and added insulation into the weld area
- Consistent measurement and ultrasonic output produce high cPk values
- Multi-step welds with unique force and amplitude parameters

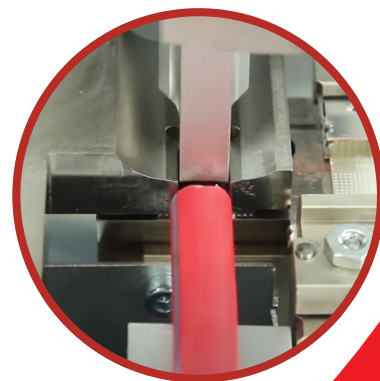
CLC Reel-Feed Terminator Technical Specifications

TECH-SONIC's patent-pending closed-loop control ultrasonic reel-feed termination machine, model US-3020MAK-S, provides a whole new ultrasonic metal welding capability beyond conventional ultrasonic metal welds. It provides precise, reliable, and repeatable welds for small and delicate parts without damage. It produces single point ground terminals and it can accommodate a variety of terminals by changing terminal nest hardware. It uses a microprocessor-controlled ultrasonic welder and servo-controlled spot welding hardware that can weld multiple wires onto a single terminal and provide a stress free joint.

Combining servo control and load cell feedback technology, the US-3620MAK-S is a 100% digitally controllable process as opposed to less accurate analog processes.

SPECIFICATIONS

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| Frequency | 20 kHz nominal |
| Ultrasonic Power | 3.6 kW max power supply |
| Applications | MAK Reel Termination |
| Supply Power | 230 V/1 phase (+10% and -5%) 20 Amp max, Nema 6-20r outlet |
| Pneumatic Pressure | 6.5 bars / 94 psi; Air Filter builtin; requires 6mm OD Hose |
| WeldForce | ~3,000 Newton maximum |
| Weldhead | 113 kg / 40.6 x 76.2 x 58.4 cm 250 lb / 16 x 30 x 23 inches |
| Controller Cabinet | 41 kg / 40.6 x 22.9 x 50.8 cm 90 lb / 16 x 9 x 20 inches |
| Software | Windows 10 |
| Visual Display | 15.5 inch touch screen display |
| Additional Options | Bad Wire Cutter Barcode Scanner |



WELDING CAPABILITIES

| | |
|--------------------|------------------------------|
| Cross Section Area | Up to 36.00mm ² |
| Wire Type | Copper (Cu) Aluminum (Al) |

