

WCW2 Series Welders for Heavy Gauge Wire

Wire Harness Welding

Solid and Stranded Wire Fusing

Wire Splicing

These Vertical Press Type Resistance Welders are designed for fusing heavy copper wires for harnesses. To meet a broad range of customer application requirements, this line of welders is available with transformers ranging from 40 KVA to 150+ KVA. These welders will handle combinations of wire diameters 1-7AWG or 8-22+AWG, forming **cross-sections of up to 100mm²**, or up to **three 1AWG wires**.



- Weld Tooling, including clamp cylinder, tungsten electrodes, and adjustable zirconium walls, ensures maximum uptime. Ejector-type water cooled electrode holders grip the electrode adapters. Tungsten Electrodes are held in place using a single set screw for easy, waterless exchange.
- Two weld control options, on 32 schedule 12 function weld control for precise wire consolidation and the second is a full feature control that enables full process monitoring and feedback.
- An electrical disconnect is standard on all welders and a Magnetic Circuit Breaker for overcurrent protection can be added as an Option.
- Weld Counter.
- Single stage foot switch of Dual palm initiation is available.
- Polycarbonate shields offer operator protection and safety, while maintaining visibility on the part.
- Safety switch disables welder when safety shield is removed.
- Air-Operated Clamp and Weld Cylinders.
- Tip dress: manual control, low impact type.
- Water Saver Feature, with water valve.
- Built-in Welding Transformer, water cooled, wired to operate on 460 volts, single phase, 60 hertz (other voltages/frequencies available, ask for details).
- 100% lubrication-free air system including filter, pressure regulator (pressure regulators mounted in a position to face the operator, for easy dial reading) and lockout valve. Includes single-solenoid air valves, speed controls and pressure switch (stops welder from firing if weld cylinder does not have proper air pressure). Compliant with 29 CFR 1910.1000.TABLE Z-1 and 29 CFR1910.147.

LVDT (Linear Variable Displacement Transducer) Option available – enabling precise measurement of welded cross-sections, ensuring parts are within tolerance and free of voids internally.