



ClinchPartner

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Technical Memo

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To: Distributors and agents

ClinchMaster MX4 – Power Supply for connected, in-factory use

ClinchMaster MX4, the ultra-light battery-driven clinching tool for fastener-less assembly, has for years offered total mobility for in-field operations, be it for demanding installation tasks, framing, solar panel parks, roof jobs or situations where the operator has to climb on ladders or scaffoldings or when moving around large workpieces.

Recently, we have had requests for features that would allow ClinchMaster MX4 to be used in a “wired” version for in-factory use.

To meet this demand, we now offer a Power Supply unit that slots into the battery socket and connects to the mains through a power cord. Both 110 V and 230 V versions are available.

Key features

- Electro-hydraulic drive, 14.4 V Li-Ion technology
- Clinching force up to 60 kN
- Low weight, 2.4 kg, 5.3 lbs, including battery
- Optimum cycle control with automatic return
- Manual override always possible
- BCI, Battery Capacity Indicator
- DDP, Deep Discharge Protection
- Clinching cycle time approx 2.5 s
- T25 series with depth-of-bite 25 mm, 1”
- T45 series with depth-of-bite 45 mm, 1 ¾”
- Tongs adapted for the thickness at hand
T1 for 2x0.5-2x0.8 mm, 2x24ga-2x22ga
T2 for 2x0.8-2x1.3 mm, 2x20ga-2x18ga
T3 for 2x1.3-2x1.6 mm, 2x16ga
T4 for 2x1.6-2x2.0 mm, 2x14ga
- Special tongs for even thicker material
- Tongs pivot +/- 180 degrees around the clincher axis
- Tong change in a 5-second snap-out/snap-in process
- The tongs as well as the punch-and-die sets patented or patents pending
- Power Supply unit slotting into the battery socket for operating with a power cord connected to the mains



This is clinching

In clinching, a rivet-like joint is made from the overlapping sheets or profiles themselves without any added fasteners. In short, the process is that a punch will push the overlapping material into a die. At the bottom of the die is an anvil so the material will be squeezed between the punch and the anvil to form the clinch joint.

The process is fast, clean and silent.

The strength of a clinched joint is comparable to that of a rivet, screw or spot weld and is greater than that of a pin.