

# ClinchPartner

# ClinchMaster MX4

## This is clinching

In clinching, a rivet-like joint is made from the stud and track themselves without any added fastener. 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 or screw and is greater than that of a pin.

Our clinch joints have successfully passed tests simulating earthquakes, strong winds and fire and are approved for load-bearing structures in all seismic zones, including zones 3 and 4.

Advantages include:

- No fasteners to buy, sort and feed
- No protruding screw head that may crack gypsum boards
- No sharp tips that may cause hand injuries
- Speed, 1-2 seconds only
- No damage to galvanizing, paint or coatings
- Conserved corrosion protection
- Possibility of joining more than two layers
- Possibility for intermediate layers for sealing and sound damping, for example on floor joists
- Possibility of joining layers with different thickness, like a hold-down to a stud

## Classical clinching tools and equipment

Traditionally clinching tools and equipment have been powered from hydraulic power packs or air-over-oil pressure intensifiers, called boosters.

This approach works very well in a factory environment, but is not really suited to situations where operators need a high degree of mobility.

## Fully mobile clinching tools

In order to meet the requirement of full mobility, ClinchPartner, Inc. has developed a family of cordless clinchers, notably the ClinchMaster MX4.

Prime target applications include internal partition walls, solar panel racks and generally speaking on-site erection in a stick-building fashion.

Additionally ClinchMaster handles a variety of joining tasks related to roof jobs and installation operations.

## ClinchMaster MX4

ClinchMaster MX4 is a high-performance, yet low weight cordless clincher. The core of the unit is an advanced electro-hydraulic drive featuring 14.4 V Li-Ion technology, supplying a clinching force around 60 kN.

The weight of the drive is a mere 5.3 lbs, 2.4 kg, including a 2.2 Ah battery. A rapid charger, 110 V or 230 V will load the battery fully in one hour.

As the unit will have capacity for making 200-250 clinch joints on a battery load, it will be possible to work more or less uninterrupted by swapping between one battery on the charger and one on the tool.

ClinchMaster features optimum cycle control with automatic return after finished clinching cycle, but allows manual override at any point in time.

A variety of clinching tongs including punch-and-die sets adapted to the thickness of the material to be clinched is available.

The T25 series have a depth of bite of 1", 25 mm.

**The Tong T 1** aims at internal partition walls with thickness in the range 2x24ga-2x22ga, 2x0.5-2x0.8 mm

**The Tong T 2** is foreseen for thicknesses in the range 2x20ga-2x18ga, 2x0.8-2x1.3 mm

**The Tong T 3** is for light load bearing structures in the range around 2x16ga, 2x1.3-2x1.6 mm

**The Tong T 4** is for medium load bearing structures in the range around 2x14ga, 2x1.6-2x2.0 mm

Tongs are closed at rest for operator safety and open manually about 1", 25 mm to allow straddling of flanges and return lips.

All tongs have a weight of around 2.5lbs, 1.15 kg and they pivot around the drive unit axis by +/- 180 degrees for user convenience.

Changing the clinching tong is a simple snap-out, snap-in process, taking less than 5 seconds.

An additional series of tongs, the T45 series has been developed for cases when additional reach is required. The T45 tongs have a depth of bite of 1 3/4", 45 mm.

ClinchMaster MX4 comes in sturdy metal case with space for the drive unit, up to four tongs, charger, additional battery.

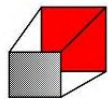
The tongs as well as the punch-and-die sets are patented or patents pending.

Specifications approximate and subject to change

### Authorized Agent

**MeFaCo International bvba,**  
**Industrial Fasteners & Installation Tools**  
**Industrieweg 2 (Zone Hoogveld); B-9200 Dendermonde (Belgium)**  
**Tel. (+32) 0-52 203923; Fax. (+32) 0-52 219524**  
**E-mail : info@mefaco-intl.com**



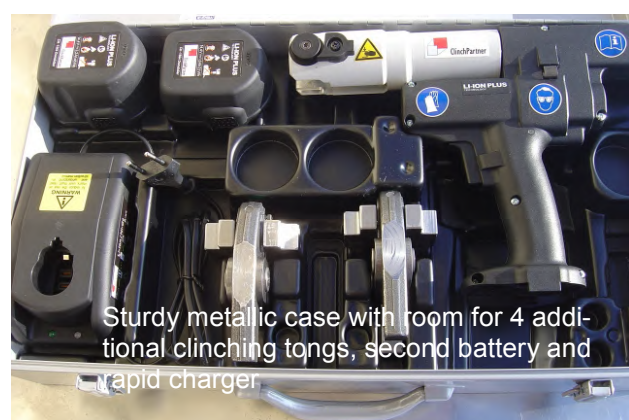
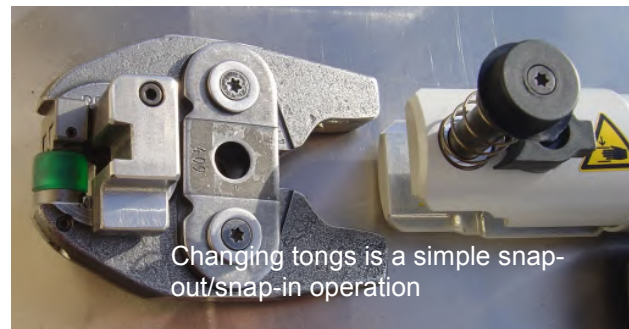


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## Some global dimensions

- Overall length, including standard tong: 13 1/2", 340 mm
- Overall height, including standard tong: 9 1/2", 240 mm



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