

FLOOR MOUNTED CLINCHING

No rivets, bolts, fasteners, heat,
or adhesives. The least expensive
way to fasten material.



FEATURING...

- Air powered machines with fast cycle times
- Simple tool adjustments, small machine footprint
- Clinching product lines that set industry standards



INNOVATIONS IN ENGINEERING

WELCOME TO NORLOK CLINCHING

With versatile designs and unsurpassed features, our floor mounted machines are guaranteed to outperform the competition every time.



◀ SURELOK III

Introducing our newest floor mounted problem solver with a 25" throat. The new SURELOK III is designed for all clinching applications. It's faster, smoother, quieter and uses less air. Our stainless steel ready machine offers a no hassle 2 minute changeover for efficient operation and production.

- Stainless steel ready with simple tool changeover
- Clinches material with 5 tons of force smoothly and efficiently using only 90 psi shop air
- Fastens up to 2-ply 14 ga mild steel
- Adjustable 2 1/2" stroke
- Convenient adjustment for accuracy and safety
- Self Piercing Rivet kit available for any SURELOK III to join aluminum composite materials, TPO and PVC coatings. No pre-drilled holes required



◀ SURELOK II

The SURELOK II E and P series' offer solid and reliable machines that become your go-to clinching solutions. Our standard floor mounted machines are guaranteed to outperform the competition.

The SURELOK II E series machine is our basic entry-level machine that offers proven clinching technology.

The SURELOK II P series is our production oriented machine featuring robust tooling.

- Rigid steel frame offers less deflection for longer tool life
- Fastens up to 2-ply 14 ga mild steel
- Close tooling access to get in close for more applications
- Fast cycle times for increased production
- 18" or 25" throats for greater reach of larger parts
- "Intelligent" safety stroke for greater operator safety
- Simple tool adjustments for little or no setup time
- Air powered (requires no electrical hookup)
- Affordable prices for low investment and faster payback



◀ **Proven industry technology you can trust to take care of all your clinching applications**

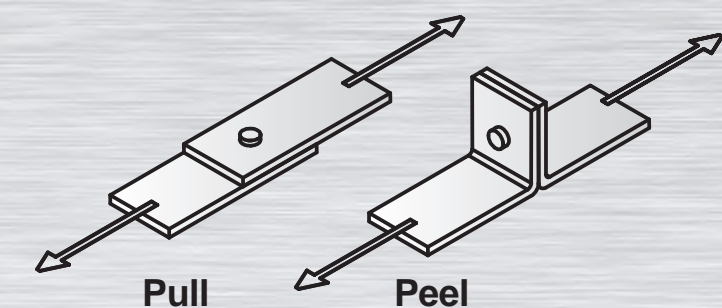
CUSTOM MACHINES ▶

Norlok engineers are experts in clinching technology. No matter what your needs may be, Norlok can provide you with assessments and detailed proposals to solve your fastening needs. From the largest, multi-lock, computer-controlled machines to the smallest portable units, each custom machine is designed and manufactured to the highest quality. Norlok is a leader and innovator in the sheet metal fastening industry.



TYPICAL JOINT STRENGTHS ▶

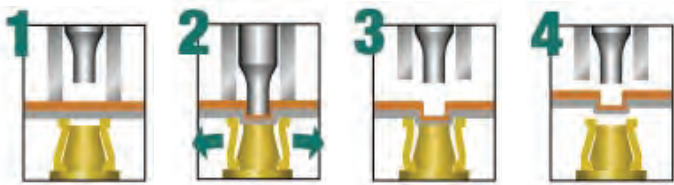
There are two ways to measure the strength of a Clinchlok joint; pull and peel. The pull joint is almost always stronger than the peel joint and is less sensitive to die adjustment. For pull, joint strengths range from 120 lbs at 0.012" material thickness to 1400 lbs at 0.138" material thickness. For peel, joint strengths range from 15 lbs at 0.012" material thickness to 500 lbs at 0.138" material thickness.



NORLOK CLINCHING

HOW DOES IT WORK?

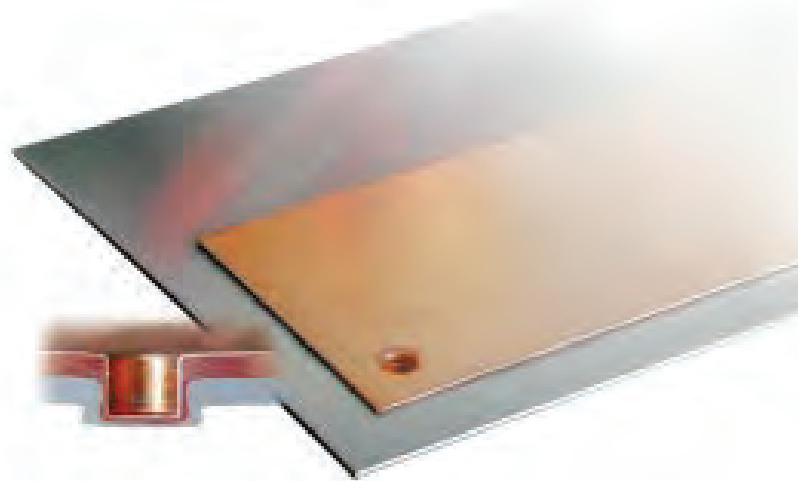
Clinching describes the forming of a Clinchlok joint. A Clinchlok joint is formed when the upper tooling squeezes the two ply of material joined between a punch and die. The strength of the Clinchlok joint and the life expectancy of the punch and die are both determined by the amount of squeeze. It is important to note that because the die is of a very special design, the Clinchlok is able to “mushroom”. Like the die, the punch in a Clinchlok joint is also of a special design that has a rounded edge, rather than a sharp edge like a normal punch. This rounded edge is known as the punch tip radius. To form a Clinchlok joint, neither the punch or die can be sharpened.



HOW MUCH DOES IT COST?

A breakdown of consumable and maintenance costs associated with three common fastening processes. (Based on 100,000 joints)

NORLOK	\$936.43
RIVETING	\$1273.58
SPOT WELDING	\$1517.83



WHAT ARE THE ADVANTAGES?

Fast and consistent joint quality

With fast cycle times and unsurpassed consistency, production is increased.

No rivets, bolts, fasteners, heat or adhesives

The least expensive way to fasten material.

No fumes, heat or electrical hookups

Clinching allows for a clean and safe working environment.

Little or no damage to material

No rework is necessary as there is no heat to burn paint or galvanized finishes.

Join dissimilar material

Fasten different materials and thicknesses together with the same machine.

Simple adjustments and little maintenance

Save on downtime and maintenance.

Portable and versatile

Norlok machines can be built in portable versions and as custom designs to fit your needs.



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