NORLOK TECHNOLOGY INC.
Setting the standards

Comparison

Norlok vs. Other clinching systems

Safety is a priority with NORLOK. Systems are designed with operator's safety in mind. Norlok does not use mechanical power units due to safety and structural concerns and the lack of design flexibility.

NORLOK's tooling and presses are designed using the modular system. Replacement parts are available in most cases by the next business day. Technical support combined with simple, intelligent design minimizes downtime.

NORLOK has very carefully selected the power units, tooling, and frame designs that make up its standard equipment.

NORLOK has specifically chosen its pneumatic power units to fit strict budgetary, reliability, and design flexibility guidelines.

NORLOK uses a unique Air over Oil power system that offers hydraulic power from standard shop air.

NORLOK uses hydraulic power systems for special applications that justify the cost and complexity.

NORLOK's SURE-LOK vs. OTHER PNEUMATIC CLINCHING EQUIPMENT

The advantages of NORLOK's SURE-LOK machine:

- **FAST**
- **VERSATILE**
- **FLEXIBLE DESIGN**

The difference.
NORLOK has a patented power system combined with an intelligent modular design.

1. The fast, low impact WAMP power unit has been proven though 20 years of applications.
2. Punch and die can be replaced in less than 5 minutes. Modular component design.
3. Overnight delivery of regular consumable parts in most cases.
4. Arms, nose, or tooling of standard equipment can be modified and/or replaced easily.
5. Over 15 years clinching experience and over 20 years of machine design experience.
6. Adjustable pinch points, approach pressures, and guarding options to satisfy any Health and Safety needs.

What does this mean?

1. Low maintenance costs combined with proven effectiveness at **60 - 140 cycles/ minute**.
2. Machine components can be serviced or replaced without the aid of skilled technicians.
3. Insignificant down time costs and inventory requirements.
4. Machines can be updated for customers evolving product line.
5. The expertise that guarantees solutions and results for standard and special applications.
6. Safety is a primary priority in the design stages and mindset of the company.

NORLOK's WATSON vs. OTHER PORTABLE EQUIPMENT

The advantage of using NORLOK's portable equipment:

- **VERSATILE**
- **RELIABLE**
- **ECONOMICAL**

The difference.
NORLOK's design team will evaluate any special application providing sound solutions.

1. Full engineering department, complete with state of the art software.
2. Strong foundations in clinching and machine design theory.
3. Equipment design that is simple, effective, and produces reliable results over and over

What does this mean?

1. All equipment produced is robust and rigid.
2. Capabilities to solve application problems with tested methods and reliable results.
3. Repeatability that can be counted on. No excessive costs associated to unnecessary parts.

NORLOK vs. MECHANICAL CLINCHING EQUIPMENT

The advantages of the pneumatically powered NORLOK machine:

- **SAFE**
- **RELIABLE**
- **ECONOMICAL**

The difference
NORLOK machines have a low impact clinching force, mechanical presses have high impact force.

1. SAFE. No risk of multiple cycles.
2. Very low maintenance. No clutches to wear out. No flywheels or cranks to break.
3. Enough power to provide a proper joint while conserving tooling.
4. No electrical hookup required
5. Flexibility in material thickness, can fasten full range of materials with simple, easy, and sometimes no, adjustments.

What does this mean?

1. NORLOK equipment can be stopped mid stroke; pinch point can be eliminated easily.
2. Low impact pneumatics and rigid frame design make NORLOK's equipment robust.
3. No risk of press or tool damage due to incorrect tooling adjustments.
4. All standard NORLOK machines operate on standard shop air.
5. Mechanical presses are very sensitive to changes in material thickness. NORLOK's direct acting power unit is not. **VERY** important when material gauges will be changed.

3 BLADED DIE vs. SOLID BODIED DIE

The advantages of the 3 bladed die:

- **LONGER LIFE**
- **STRONGER**
- **EFFICIENT**

The difference.
NORLOK has chosen the patented 3 bladed die for its strength and its consistent and reliable joints.

1. Less power required to fasten an equivalent joint.
2. More material squeezed into a joint.
3. Easy to clean, maintain, and replace.
4. No sharpening required. Average tool life between 200,000 and 400,000 cycles and as high as 1,000,000 in certain applications.

What does this mean?

1. Fastening puts less stress on components and uses a more efficient power system.
2. The 3 blade die expands resulting in a 20% stronger joint.
3. Solid bodied dies are inherently difficult to clean and joint consistency is affected. This can also reduce tooling life.
4. Maximum production capabilities, quick pay back, maintenance free.

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24 inch throats.

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