

ROPER  WHITNEY.



# 10M14 Mechanical Shear

## Quote

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USA  MADE

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Since 1910, Roper Whitney has been producing quality tools and equipment that change the shape of sheet metal, literally, from a simple punch to folding shapes with complex geometries. Over the decades, Roper Whitney has become a household name in sheet metal forming shops, most notably with American-made Autobrake® powered folders as well as brands like PEXTO® and Connecticut®. With the release of the AutoMax powered long folders, along with cutting-edge control solutions, Roper Whitney has one of the most comprehensive product line-ups for bending, folding, forming, notching, punching and shearing – designed to streamline the sheet metal fabrication process.



## A Commitment to Service

We have been putting customers first for more than 100 years and that philosophy makes Roper Whitney one of the best, most resourceful service teams in the business to assist you with all of your maintenance requirements. For more information, email [service@roperwhitney.com](mailto:service@roperwhitney.com).

## Top Notch Service & Repair

We service everything we make, so you can count on Roper Whitney to keep you up and-running. We stand behind you with a wide range of replacement parts with most factory parts available immediately on our newer equipment. Even if your machine is older we are still able to make the parts for you

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Roper Whitney mechanical shears utilize a simple low maintenance design, coupled with an array of standard features for an attractive combination of high value and solid performance.

The 10M14 capacity is 14-gauge mild steel, 18-gauge stainless up to 121.25 inches in cutting length. The electro-mechanical design of the 10M14 provides quiet operation with low power consumption. The shear is initiated by a moveable footswitch. An oversized shield and toe kick plate are incorporated into the footswitch for added operator safety. The 10M14 is capable of 35 cutting strokes per minute. For increased speeds please consult factory.

The 10M14 Series shears are standard with an two edge interchangeable top and bottom, high carbon, high chrome top and bottom blades , independent, self-leveling hold down with neoprene insert, single, continuous and jog stroke cycles, motor reverse switch, precision-machined table, with dual inch/metric inlaid bed scales and non-metallic gibs.

Non-metallic self-lubricating ram gibs ensure long life for the 10M14. Maintenance free self-lubricating bearings are standard.

Benefits of the 10M14 power shear are:

- Low power consumption
- Quiet operation
- Superior quality of cut
- Fast power back gauge

Roper Whitney 10M14 series shears are available in a “Pro Package” configuration. The Pro Package includes: a Four Foot Left-Hand Squaring Arm with Right-Hand also available, slide out Front Support, and Air Operated Sheet Support System. Pro “F” system is for front return. Pro “FC” features a moveable front return Material Cart. Please call for details.



## Powered Back Gauge

The power back gauge consists of a mechanical stop, twin drive screws, gear motor, digital readout, and rotary encoder.

Twin drive screws support the mechanical back gauge stop. The system is chain driven by the gear motor, and is monitored by a rotary encoder.

Motion for the back gauge is initiated at the control panel by depressing the appropriate push-button for forward or reverse. Final adjustments to the back gauge position are made using the hand wheel, attached at the front of the gear motor.

The position of the back gauge is displayed on the digital readout, located on the electrical enclosure.

The system is protected by over travel limit switches located at the front and rear of the back gauge travel.



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10M14 shears come standard with a full length front sheet support bar for even handling of varying material thicknesses. The sheet support system is coated with graphite paint to insure easy movement of the material.

## **ALUMINUM SHEARING APPLICATIONS**

The 10M14 is capable of shearing a wide variety of aluminum. The machine has been tested with 5052-H32 aluminum at a thickness of 1/8". Medium and high grade aluminums with similar brittleness characteristics (such as 5052-H32 and 6061-T6) will fracture in a like manner during the cut: the machine only shears the first 1/4 of the thickness, with the balance of the thickness fracturing independent of the shearing action.

Soft grades of aluminum (such as 3003-O) require complete cutting by the shear blades, and undergo a large amount of compression during cutting. The 10M14 shear has reduced capacity in this material, with the softest grades of aluminum restricted to .075 inch thickness.

All aluminums leave a residue on the blades during the cutting action. This residue must be removed before a significant buildup can occur. Failure to remove them can result in poor quality cuts and damage to the machine. There are a variety of methods to accomplish this, including spray chemicals. Damage caused by aluminum buildup on the shear blades is not covered by the manufacturer's warranty. Consult the factory with any questions.

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