

TENNSMITH's LM Series mechanical shears utilize a low maintenance design, coupled with an array of standard features for an attractive combination of high value and solid performance. The LM410 incorporates the unique 2x-F back gauge system. This allows the operator to move the backstop from 0 to 24 inches in approximately 2 seconds with only two rotations of the handle. The LM610 and LM810 incorporate the same 2x-F system, but with the added capacity of 30-Inch travel. An optional digital readout is available for this system.



The LM Series shears are standard with four-edge, high carbon, high chrome top and bottom blades, independent, self-leveling hold down feet with neoprene inserts, single, continuous and jog stroke cycles, motor reverse switch, precision-machined table with hand well, dual inch/metric inlaid bed scales and non-metallic gibs.

* LM410 capacities are 10-gauge mild steel, 16-gauge stainless up to 52-1/2 inches in cutting length.

* LM610 capacities are 10-gauge mild steel, 14-gauge stainless up to 73 inches in cutting length.

* LM810 capacities are 10-gauge mild steel, 14-gauge stainless up to 98 inches in cutting length.

To enhance productivity, optional equipment available for the machines include: five or ten-foot squaring arm, front support arms, light beam and protractor attachments. Please contact us for a complete listing of optional equipment.

The LM Series also has available an air operated sheet support system. This system is available in two styles for the LM412: System-R drops the supported material to the rear of the machine; System-F returns the supported material to the front of the machine via a front return chute. The Models LM610 and LM810 are available only with System-R. Please call for details.



Models LM412, LM510, LM810, LM1014 and LM1214 are standard with the back-gauge system shown with optional digital readout. This unique design allows the operator to move the backstop the complete travel from 0 to 24 inches or 0 to 30 inches with the two rotations of the handle. The 2x-F system is more advantageous than powered back gauge units due to the tremendous speed advantage. The system includes a brake for accurate repeat cuts. The unit utilizes a 24-inch dual inch/metric scale. Longer back gauge ranges and optional digital readout are available.

The back-gauge system of the LM1010 shear features ball screws which provide accuracy and repeatability throughout the 30-inch back gauge travel. The back gauge is powered by a 3/4-hp gear motor and controlled by a "GO TO" control system with stroke counter. An optional rear drop sheet support system is available for the LM1010.

LM410/LM610/LM810



Standard features for the LM1010 control box include: selection for continuous or single cutting stroke, and jog button with reverse switch. A "GO TO" back gauge control pad with stroke counter allows quick, accurate back gauge positioning up to 30 inches.

Independent, spring loaded, self-leveling hold-downs exert uniform pressure on work piece, ensuring an accurate cut. The plungers have neoprene inserts to prevent marring the surface of the piece.

NOTE: Safety guard has been removed for photo purposes only.



Example 1: Illustrates the sheet support system

Example 2: Illustrates longer material being sheared by sliding material under the backstop. Most competitors are limited to 24" or 30", and longer pieces cannot be sheared like a TENNSMITH.



The optional four-foot squaring arm is a precision gauge, which can be mounted left or right and has inlaid inch/metric scaling and adjustable guide block. Also available in ten and twelve-foot lengths. A toggle on the block lets sheet stock slide underneath, then pivots to the stop position.



LM Series Options and Accessories:

- * Squaring Arm, Five Foot with Dual Inlaid Inch/Metric Scale
- * Squaring Arm, Ten Foot with Dual Inlaid Inch/Metric Scale
- * Additional Flip-up Stops for Squaring Arm (each)
- * Front Support Arms, Pair
- * T-Slotted Table with Two Front Support Arms with Inlaid Inch/Metric Scales
- * Additional Flip-up Stops for T-Slotted Support Arms and Table (each)
- * Power Go-To Back gauge 30 Inch Travel
- * Protractor Attachment
- * Work Shadow Light LM Series
- * Stroke Counter for LM Series (Electro-Mechanical)
- * Digital Readout for 2x Back gauge System
- * Increased Cutting Speeds (Please consult factory) *

Low-Profile Mechanical Shears	LM410	LM610	LM810
Maximum shearing capacity, mild steel Mild Steel Rated Materials at 80,000 Tensile / 44,000 Yield	10 gauge / 3.5 mm	10 gauge / 3.5 mm	10 gauge / 3.5 mm
Maximum shearing capacity, stainless steel Stainless Shear Rated Materials at 90,000 Tensile / 55,000 Yield	14 guage / 2.0 mm	14 guage / 2.0 mm	14 guage / 2.0 mm
Maximum cutting length	52-1/4 in. / 1334 mm	73 in. / 1854 mm	97 in. / 2464 mm
Back gauge range	24 in. / 609 mm	30 in. / 762 mm	30 in. / 762 mm
Strokes per minute, full length	35	35	35
Number of holddown feet	14	14	14
Motor-230/460v, 3-phase, 60Hz	7.5 hp	7.5 hp	10 hp
Dimensions, LxWxH	72x27x56 in 1829x1753x1410 mm	92x27x56 in 1829x1753x1410 mm	116x27x56 in 1829x1753x1410 mm
Floor Space, Gauges in Position LxWxH	72 x 72 x 56 in 1829x1753x1410 mm	92x72x56 in 1829x1753x1410 mm	116x72x5 in 1829x1753x1410 mm
Shipping weight	3,500 lbs. / 1542 kg	4,500 lbs. / 1542 kg	6,800 lbs. / 1542 kg