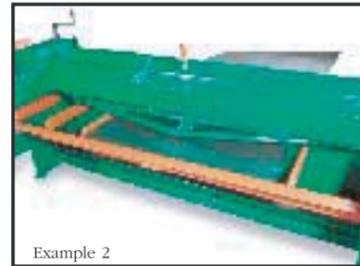


# Shears

- Model LM412
- Model LM510
- Model LM525
- Model LM1014
- Model LM1214



Example 1



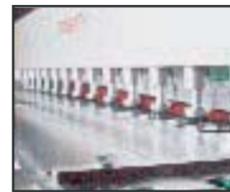
Example 2



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.

The optional sheet support system is recommended for gauging of thin material. With this air-powered support mechanism, one operator can effectively shear cumbersome, light-gauge stock. The sheet support system is available in two styles: System F, available on models LM1014 and LM1214, is a front return support which drops sheared parts to a front chute for easy retrieval; support System R drops sheared material to the rear of the machine.

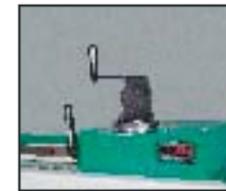
Unlike competitive front return systems, with the LM Series Performance Package F, you can cut materials longer than the standard back gauge length by deactivating the sheet support. Example 1 illustrates longer material being sheared by sliding material under the backstop. Most competitors are limited to 24" or 30," and longer pieces cannot be sheared like a TENNSMITH. Example 2 illustrates the sheet support system.



Independent, spring-loaded, self-leveling holddowns exert uniform pressure on a 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.

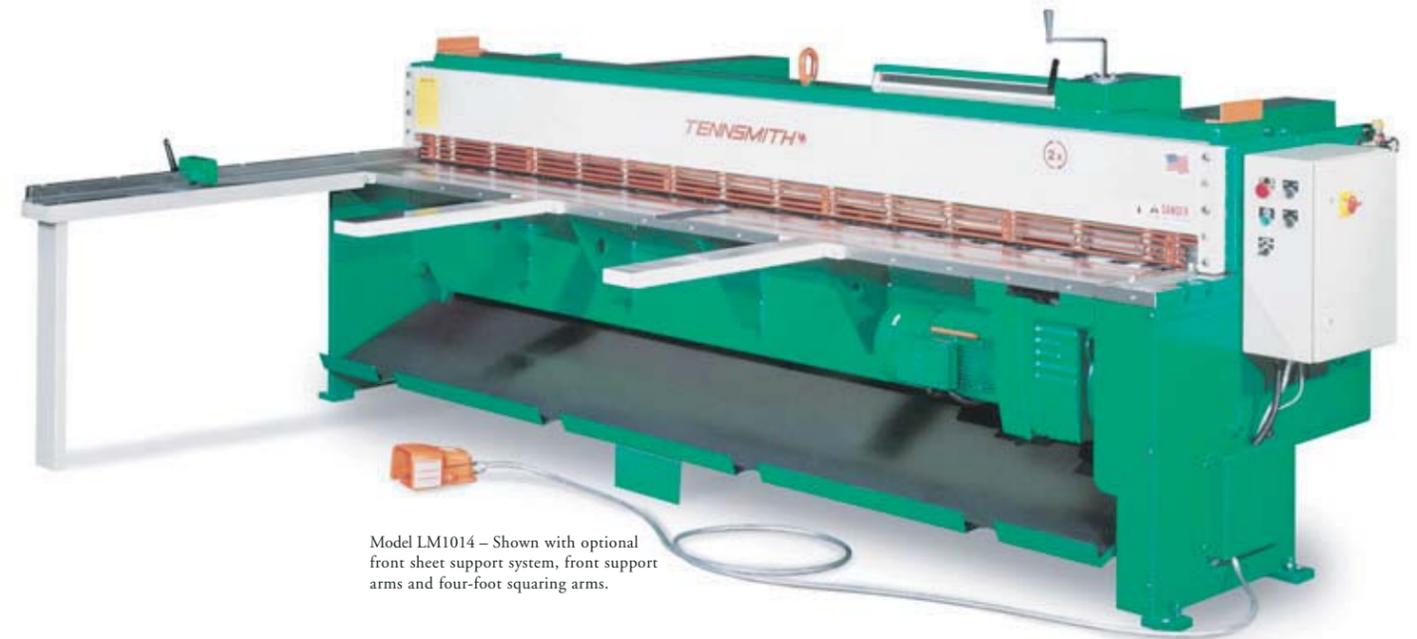


Model LM510



Models LM412, LM510, LM525, 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 with the two rotations of the handle. The 2x 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.



Model LM1014 – Shown with optional front sheet support system, front support arms and four-foot squaring arms.

TENNSMITH's low-profile LM Series 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.

Models LM412, LM510, LM525, LM1014 and LM1214 now incorporate the unique 2x 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. 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 holddown feet with neoprene inserts, single, continuous and job stroke cycles, motor reverse switch, precision-machined table with hand well, dual inch/metric inlaid bed scales and non-metallic gibs.

The new model LM412 incorporates all the popular LM series features into this 52" cutting length, 12-gauge mild-steel capacity shear. Model LM510 has a rated capacity

of 10-gauge mild steel with a maximum cutting length of 60-1/2 inches. Model LM525 has a capacity of 1/4" mild steel and 60-1/2-inch maximum cutting length.

The LM1014 will handle 14-gauge mild steel up to 121 inches. The LM1214 is rated for 14-gauge mild steel with 145-inch cutting length. To enhance productivity, optional equipment available for the machines include: four or ten-foot squaring arm, front support arms, light beam and protractor attachment. On models LM1014 and LM1214, the air operated sheet support is available in two styles: 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. Please call for details.

The LM Series shears are now available in a reduced price "Performance Package" configuration. The Performance Package includes: a four-foot squaring arm, a pair of front support arms and an air operated sheet support system. Please contact your local distributor or TENNSMITH for more details.

## SPECIFICATIONS

LM Series Mechanical Shears	Model LM412	Model LM510	Model LM525	Model LM1014	Model LM1214
Maximum shearing capacity, mild steel	12 gauge 2.7 mm	10 gauge 3.5 mm	.250 (1/4) in. 6.5 mm	14 gauge 2.0 mm	14 gauge 2.0 mm
Maximum shearing capacity, stainless steel	16 gauge 1.6 mm	14 gauge 2.0 mm	10 gauge 3.5 mm	18 gauge 1.25 mm	18 gauge 1.25 mm
Maximum cutting length	52-1/2 in. 1333.5 mm	60-1/2 in. 1535 mm	60-1/2 in. 1535 mm	121 in. 3073 mm	145 in. 3683 mm
Back gauge range	24 in. 610 mm	24 in. 610 mm	24 in. 610 mm	24 in. 610 mm	24 in. 610 mm
Strokes per minute, full length	40	35	25	35	35
Number of holddown feet	8	12	12	16	18
Motor-230/460v, 3-phase, 60Hz	5 hp	7-1/2 hp	15 hp	5 hp	7-1/2 hp
Overall dimensions, less gauges, LxWxH	72 x 27 x 55-1/2 in. 1829 x 686 x 1410 mm	78 x 27 x 55-1/2 in. 1981 x 686 x 1410 mm	88 x 30 x 59-1/2 in. 2235 x 762 x 1511 mm	139 x 27 x 55-1/2 in. 3531 x 686 x 1410 mm	163 x 60 x 57-1/2 in. 4140 x 1524 x 1461 mm
Floor space, gauges in position	69 x 60 x 55-1/2 in. 1753 x 1524 x 1410 mm	78 x 60 x 55-1/2 in. 1981 x 1524 x 1410 mm	88 x 60 x 59-1/2 in. 2235 x 160 x 1511 mm	139 x 60 x 55-1/2 in. 3531 x 1524 x 1410 mm	163 x 82 x 57-1/2 in. 4140 x 2083 x 1461 mm
Shipping weight	3200 lbs. 1455 kg.	4000 lbs. 1815 kg	6000 lbs. 2730 kg	6275 lbs. 2846 kg	7530 lbs. 3390 kg
Export crate	112 cu. ft. 3.18 cu. m	126 cu. ft. 3.58 cu. m	130 cu. ft. 3.7 cu. m	252 cu. ft. 7.13 cu. m	540 cu. ft. 15.35 cu. m