

Shears

Model 36
Model 52



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Model 36A
Model 52A/52H



Model 52



Model 52H

Tennsmith squaring shears offer precision shearing and rugged construction at an affordable price. The shear frame, bed and cutter head assemblies are constructed of heavy-duty cast iron. The shear bed is machined and then surface ground to precision tolerances to ensure an accurate working surface.

These shears feature triaction, ground-alloy tool steel blades. Both the upper and lower blades have a 2° edge relief and the lower blade has an additional 1° face relief for maximum material penetration with minimum effort. Triaction blades help prevent material movement while shearing, prolonging blade life.

TENNSMITH shears have the most complete adjustment features of any sheet metal shear on the market. The lower shear blade is bed-adjusting and the upper blade is adjustable by means of a truss bar on the cutter head. The spring-activated holddown feet clamp the work piece securely in place and are easily adjustable to compensate holding pressure for light or heavy gauge material. There is ample clearance between the holddown feet and shear blades to allow good operator vision for line-of-sight cutting. The standard, double-locking back gauge, which features embossed scales and vernier wheels for fine adjustment, gives highly accurate readings.

SPECIFICATIONS

| Foot Squaring Shears | Model 36 | Model 52 |
|--|--|--|
| Maximum shearing capacity, mild steel | 16 gauge 1.6 mm | 16 gauge 1.6 mm |
| Maximum shearing capacity, stainless steel | 20 gauge 1.0 mm | 20 gauge 1.0 mm |
| Maximum cutting length | 37 in. 940 mm | 52-1/4 in. 1327 mm |
| Back gauge range | 30 in. 762 mm | 30 in. 762 mm |
| Front gauge range | 37 in. 940 mm | 37 in. 940 mm |
| Floor space, gauges in position | 45 x 80 in. 1143 x 2032 mm | 60 x 80 in. 1524 x 2032 mm |
| Overall dimensions, less gauges, LxWxH | 46-1/2 x 27 x 42 in. 1181 x 686 x 1067 mm | 61 x 36 x 42 in. 1550 x 915 x 1067 mm |
| Shipping weight | 700 lbs. 317.5 kg | 950 lbs. 431 kg |
| Export crate | 45 cu. ft. 1.27 cu. m | 59 cu. ft. 1.67 cu. m |

Standard equipment includes a back gauge, front extension arms with stop, bevel gauge and graduated side scales. **Additional options:** squaring arm, high carbon-high chromium blades and stroke counter.

TENNSMITH power shears combine all the features of our foot shears with the advantage and convenience of air or hydraulic operation. TENNSMITH power shears are a productive addition to any shop. The air shears utilize heavy-duty, tie rod-type pneumatic cylinders, which provide up to 40 strokes per minute in capacity materials.

A foot-operated air valve control, pressure regulator, air gauge, oiler/condenser cups and neoprene, padded holddown feet are standard features. We recommend a maximum air supply of 75 psi for operating these shears at rated capacity. Where air supply pressures exceed 75 psi, an in-line regulator is helpful to provide pressure control. Generally, a 10-hp stand-alone compressor would be the minimum recommended size to operate these shears. The model 52H cycles at 60 strokes a minute, thanks to its first class hydraulic system. The unit features a solenoid actuated valve, 3-hp electric motor, 10-gallon tank with sight gauge and thermometer, pressure gauge, check valve and industrial quality cylinders. The motor is protected by a magnetic starter. Other electrical safety features include a low voltage on/off switch; low voltage, shrouded, electric foot switch; step-down transformer with low voltage circuit fuse; fully enclosed electrical box; and insulated reinforced conduit for all wiring. Models 36A and 52A are ideal ways to enhance shearing productivity with minimal investment.

SPECIFICATIONS

| Power Squaring Shears | Model 36A | Models 52A / 52H |
|--|--|---|
| Maximum shearing capacity, mild steel | 16 gauge 1.6 mm | 16 gauge 1.6 mm |
| Maximum shearing capacity, stainless steel | 20 gauge 1.0 mm | 20 gauge 1.0 mm |
| Maximum cutting length | 37 in. 940 mm | 52-1/4 in. 1327 mm |
| Back gauge range | 30 in. 762 mm | 30 in. 762 mm |
| Front gauge range | 37 in. 940 mm | 37 in. 940 mm |
| Floor space, gauges in position | 45 x 80 in. 1143 x 2032 mm | 60 x 80 in. 1524 x 2032 mm |
| Overall dimensions, less gauges, LxWxH | 46-1/4 x 24 x 42 in. 1181 x 686 x 1067 mm | 61 x 25 x 42 in. 1550 x 915 x 1067 mm |
| Strokes per minute, full length | 40 | 40 / 60 |
| Maximum operating pressure | 75 psi 5.1 atmos. | 75 psi / 1450 psi 5.1 atmos. / 98.6 atmos. |
| Air consumption per stroke | 1.1 cu. ft. 0.031 cu. m | 1.33 cu. ft. / n/a 0.038 cu. m / n/a |
| Motor—230/460v, 3-phase, 60Hz, 1745 RPM | n/a | n/a / 3 hp |
| Shipping weight | 800 lbs. 363 kg | 1085 lbs. / 1300 lbs. 492 kg / 590 kgs |
| Export crate | 42 cu. ft. 1.19 cu. m | 56 cu. ft. 1.59 cu. m |

Standard equipment includes back gauge, front extension arms with stop, bevel gauge, graduated side gauges, foot control, and neoprene padded holddown feet. **Available options:** squaring arm, high carbon-high chromium blades, and one-shot lubricating system.

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