

TECHNICAL SPECIFICATION MODEL STS-8 TUBE SQUARING AND BEVELING MACHINE

The Model STS-8 Tube Squaring and Beveling Machine is a lightweight, portable machine designed for facing/squaring and beveling 0.5" (12.7 mm) to 8.625" (219.1 mm) outside diameter tubing up to 0.25" (6.35mm) wall thickness. The Model STS-8 is available with an integral, variable speed electric drive motor. The tool uses OD clamping saddles for holding the tubing with minimum distortion and provides torque acceptance to the tool. One saddle clamp assembly with saddle adapter and saddles are available for the basic machine to cover the full range. Feed is provided by a rear mounted feed handle and a .001" (.025 mm) graduated feed dial. The cutting head allows installation up to three tool bits for squaring, beveling or special preps.

The Model STS-8 System comes complete with:

- Model STS-8 Sub Assembly
- Electric Motor Assembly
- Wrench Kit
- Lathe Stand
- Saddle Clamp Adapter Kit
- Operator's Manual

Accessories

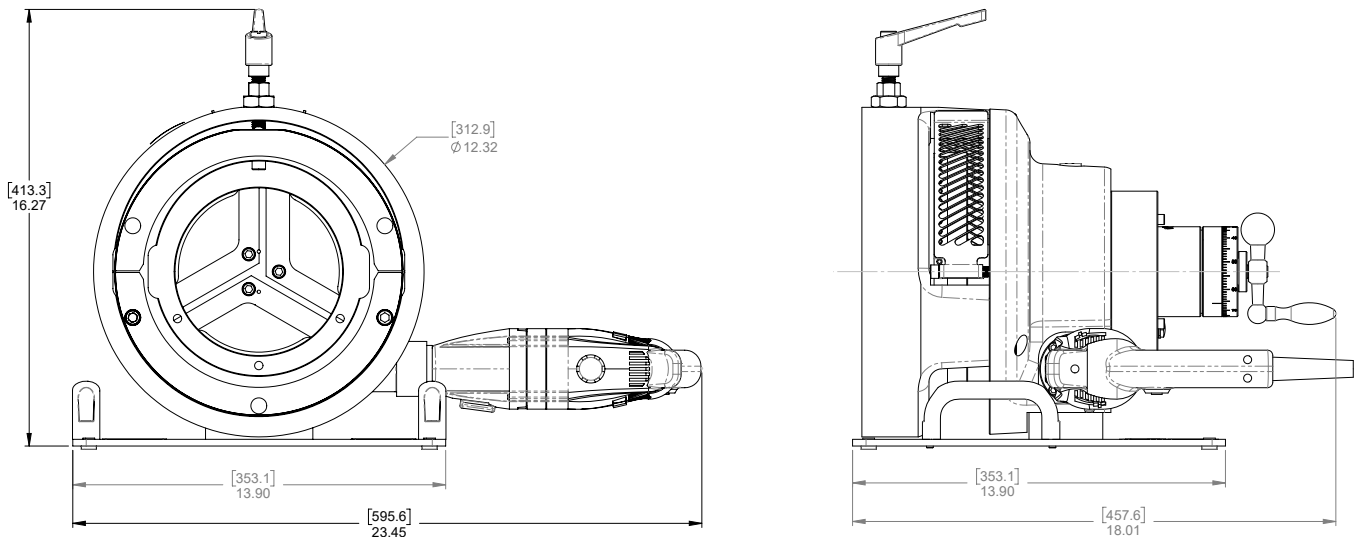
- Short Perch Saddle Sets
- Short Perch Tool Holder

Design and Operating Features

- The Model STS-8 is available with in integral, dual range, variable speed 115VAC or 230VAC electric motor or a pneumatic drive motor.
- The STS-8 accepts its own torque through the Saddle Clamping System.
- The cutting head accepts squaring bits or combinations of squaring, beveling, counterboring or facing tool bits.
- Three tool slots allow counterboring, beveling and squaring operations simultaneously.
- The Saddle Sets are made from aluminum.
- All required wrenches for operation are supplied with the machine. All required wrenches for operation are supplied with the machine.
- The STS-8 may be removed from the stand for use as a portable machine.

Specifications

Reference Envelope Drawing No. 77-1868



Clearance and Dimensions

Weight

90 lbs (41 Kg)

Pipe Cutting Capacities

Basic Pipe Sizes:

1/2" through 1 1/4" pipe

1 1/2" through 2" pipe

2 1/2" through 5" pipe

6" pipe

8" pipe

Schedule 5 through Schedule 160

Schedule 5 through Schedule 80

Schedule 5 through Schedule 40

Schedule 5 through Schedule 10

Schedule 5 through Schedule 20

Basic Tube Sizes:

0.500" (12.7mm) to 8.625" (219.1mm) OD with

Maximum Wall Thickness

.250" (6.35mm)

Material Cutting Capabilities

Mild steels, chrome steels (Rc 35 max), stainless steel, copper-nickel and aluminum without limitations other than size and wall thickness as specified.

Inconel and some other high-temperature alloys may require special procedures as a function of wall thickness and type of end preparations. Contact Tri Tool Technologies' Engineering Department for details.

Speeds

Speed Control:	Dual range, variable speed
Cutting Head Speed	
Free Speed (low range):	4-18 RPM
Free Speed (high range):	12-51 RPM

Feeds

Manual feed handle is mounted at rear of tool, with 1.000" (25.4mm) available feed travel.

Mounting

Manual saddle clamping system

Drive System

Variable speed electric drive motor

Power Requirements

Electric Drive Motor

115VAC, 50/60 Hz, 9.6A

230VAC, 50/60 Hz, 5.7A

Note To The Customer

Spare Parts and Standard Tool Bits are available from stock. Engineering design services for custom tool bits and special function modifications are available from the factory.

All Tri Tool Technologies and allied equipment products are subject to design improvements and specification changes at any time with no obligation to units already sold.

Warranty (limited): Parts and equipment are warranted against defects in material and workmanship for a period of one (1) year from date of purchase. Full details supplied on request and/or with the tools.

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