



# TRI TOOL INC.

## TRI TOOL INTERNATIONAL INC.

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### TRI TOOL INC. TECHNICAL SPECIFICATION MODEL 601SBCM LOW PROFILE CLAMSHELL JANUARY, 2001

#### MODEL 601SBCM Low Profile Clamshell

Description: The 601SBCM Low Profile Clamshell is a split-frame pipe lathe for severing and beveling in-line pipe with a range of 1/8" through 1" pipe with minimal radial and axial clearances.

#### Design and Operating Features

1. Easily adjustable precision bearing surfaces preload and stabilize the rotating head to provide long life, low maintenance, stability and precision.
2. The Clamshell splits into two halves for mounting on closed loop systems. All parts are secured to the two halves to avoid loss of parts and provide maximum ease of handling.
3. The machine is equipped with self-centering collets.
4. Dual dovetail tool modules with auto-feed sprockets and adjustable gib provide maximum maintainability, life and operator safety with minimum operator training.
5. The auto-feed star sprockets provide .003" (.08mm) of radial feed per revolution for a controlled depth of cut.
6. Drive worm, worm gears and bearing surfaces are covered for operator safety.
7. Operator controls are away from the rotating headstock for safety.
8. Modular design concepts provide quick, easy maintenance and maximum versatility in drive and tooling options.
9. Detachable Bayonet type motor provides maximum handling ease and low axial clearance. A flex drive shaft is also available to bring the motor away from the tool.
10. All parts are plated for clean room or glove bag use. Tool contains no lead, brass or copper.

Specifications:

1. Reference attached Envelope Drawing No. TBA
2. Cutting capacities\* on 1/8" through 1" pipe.

\*(Note: Capacity exceeds maximum wall thickness for small pipe sizes)

a.	Severing with standard procedures	.250" wall (6.35 mm)
b.	Severing with special procedures	.358" wall (9.09 mm)
c.	Severing and single beveling	.250" wall (6.35 mm)
d.	Severing and double beveling	.188" wall (4.78 mm)

\*Materials include, but are not limited to: carbon steel, low alloy steel, chrome steel (20% max), chrome/molly alloys (Rc 32 max), austenitic stainless steel, inconel, copper, aluminum, and copper nickel alloys.

3. Clearances:

a.	Rotating parts diameter	3.45" (87.6mm)
b.	Main frame diameter	3.25" (82.6mm)
c.	Axial clearance required relative to centerline of cut:	
	Mounting side	2.24" (56.9mm)
	Side opposite of frame	.25" (6.35mm)
d.	Radial clearance over pipe:	
	1/8" pipe	1.52" (38.7mm)
	1" pipe	1.07" (27.1mm)

4. Drive Options:

a. Bayonet type air motor

Air requirements @ 90 PSI	32 CFM
Horsepower	0.7 HP
Head max. speed	TBA

5. Clamping:

a. Fixed, self centering collet sets.

All sizes within the specified size range are available upon request.

6. Weight

Basic machine	4.0 lbs. (1.81kg)
Motor	5.35 lbs. (1.68kg)

Optional Accessories:

a. Socket Weld Removal Tool Module Kit

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 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/or equipment are warranted against defects in material and workmanship for a period of one year from date of purchase. Full details supplied on request and/or with tools.

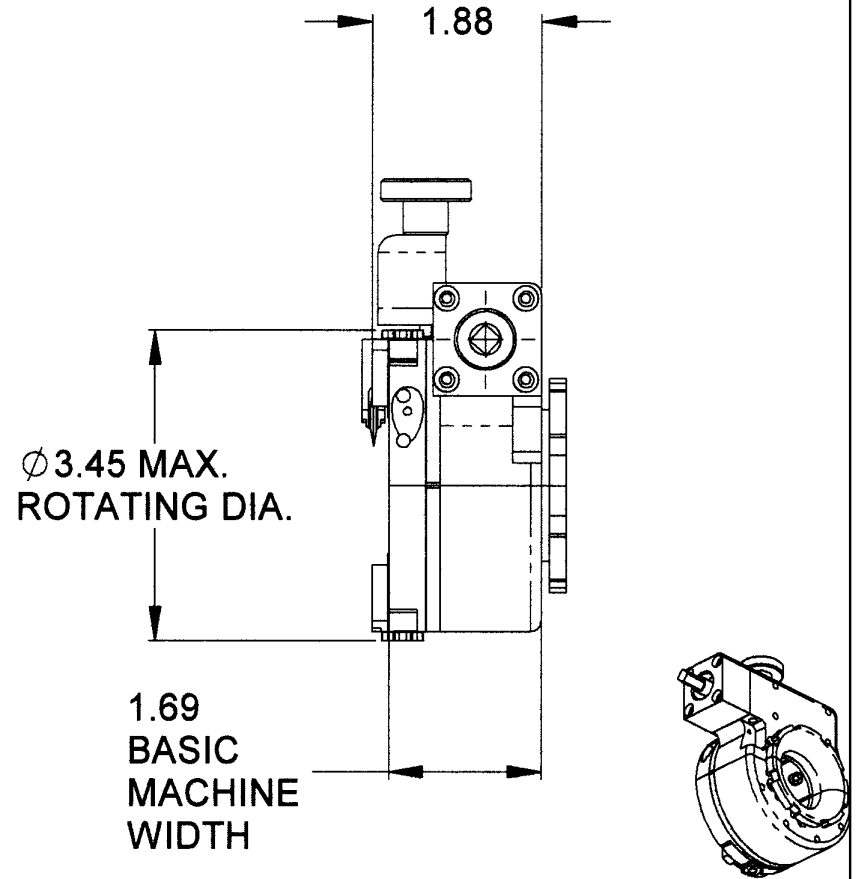
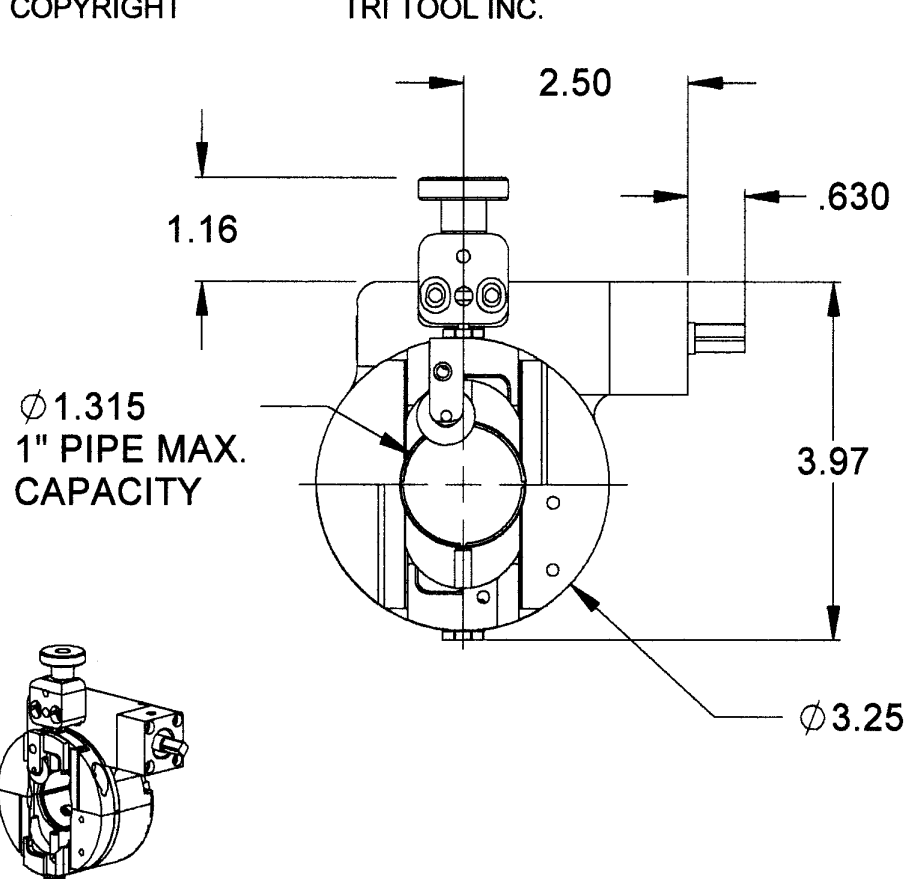
Filter, regulator, lubricator required to protect warranty on air powered tools.

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 DESIGNS SHOWN HEREON IS PERMITTED WITHOUT  
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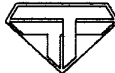
**REVISIONS**

REV.	DESCRIPTION	DATE	APPROVED



UNLESS OTHERWISE NOTED  
 DIMENSIONS ARE IN INCHES  
 TOLERANCES ARE:  
 DECIMALS FRACTIONS ANGLES  
 .XX ± .03 ± 1/16 ± 0° 30'  
 .XXX ± .010  
 MACHINED SURFACES 125 ✓  
 ♯ TO BE CONCENTRIC WITHIN .010 TIR  
 FLATNESS TO WITHIN .010 TIR  
 BREAK ALL SHARP EDGES .005-.015  
 FILLET RADII TO BE .030 MAX  
 C'SINK THD HOLES TO  
 MAJ DIA X 82°-90°

		CONTRACT NO. ER-8173
NEXT ASSY	USED ON	
MATERIAL	APPROVALS	DATE
	DRAWN C.Tremblay	2/7/00
FINISH	CHECKED	
	ISSUED	
DO NOT SCALE DRAWING		

 <p><b>TRI TOOL INC</b>                  3806 SECURITY PARK DRIVE, RANCHO CORDOVA, CA 95742</p>		<p><b>MODEL 601SBCM</b>  <b>ENVELOPE</b></p>	
		DWG. NO.	RE
SIZE <b>A</b>	SOLID WORKS AVAILABLE	CAD MODEL:	SHEET 1
SCALE 1/2			