

TECHNICAL SPECIFICATION MODEL 601SBM LOW PROFILE CLAMSHELL

The 602.5SBM Low Profile Clamshell is a split-frame pipe lathe for severing and beveling in-line pipe with a range of 1" pipe through 3" tube with minimal radial and axial clearances.

Accessories

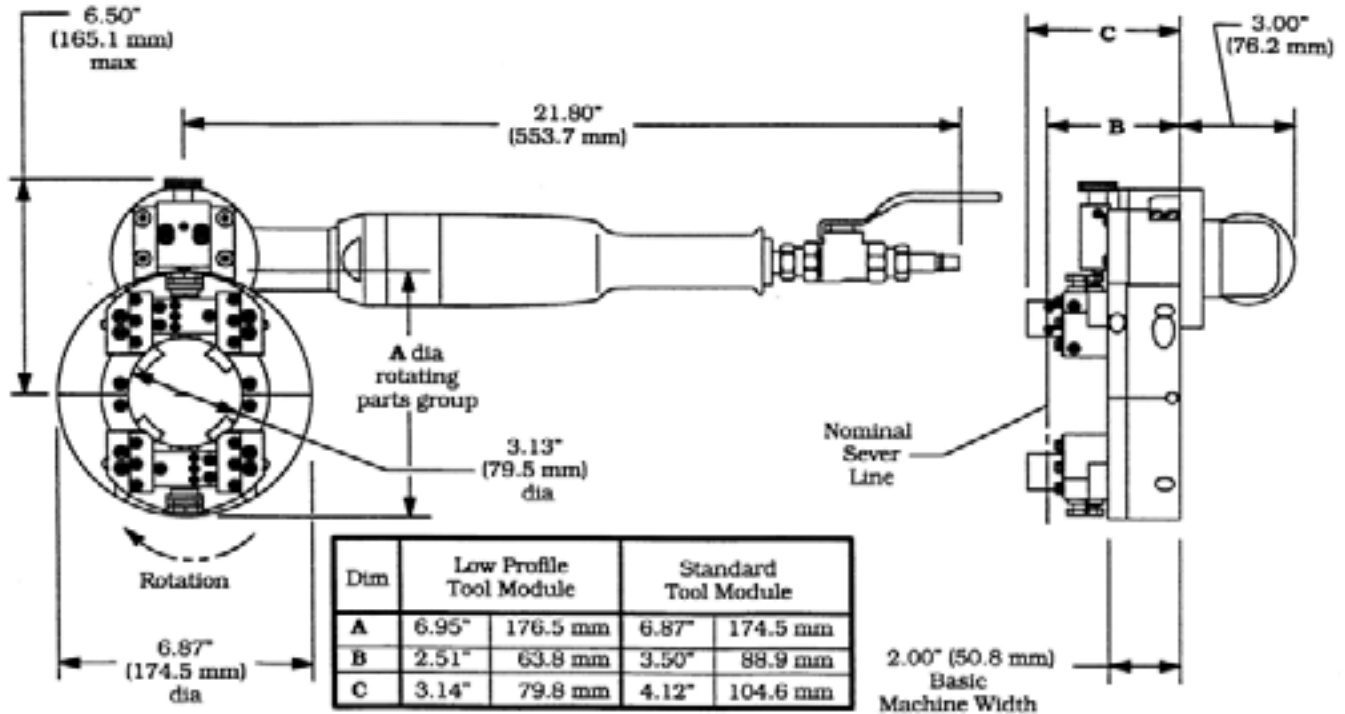
- Socket Weld Removal Tool Module Kit
 - Counterbore Module Kit
 - Lathe Stand Kit
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Design and Operating Features

- Easily adjustable precision bearing surfaces preload and stabilize the rotating head to provide long life, low maintenance, stability and precision.
- 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.
- The machine may be equipped with self-centering mounting pads for quick, easy mounting or may be equipped with adjustable mounting pads for out-of-round pipe conditions.
- Dual tool modules with auto-feed sprockets and adjustable slide ways provide maximum maintainability, life and operator safety with minimum operator training.
- The auto-feed star sprockets provide .003" (.08mm) of radial feed per revolution for a controlled depth of cut.
- Drive gears and bearing surfaces are covered for operator safety and sealed to prevent cutting chip damage.
- Operator controls are away from the rotating headstock for safety.
- Modular design concepts provide quick, easy maintenance and maximum versatility in drive and tooling options.
- Detachable right angle air motor provides maximum handling ease and low axial clearance. Torque accepting mounting bracket allows the air motor to be rotated in various positions.

Specifications

Reference Drawing No. 77-0393



Pipe Cutting Capabilities

Cutting capacities* on 1" pipe through 3" tube.*

	Low Profile Tool Module	Standard Tool Module
Severing with standard procedures	0.40" wall (10.2 mm)	0.63" wall (16.0 mm)
Severing with special procedures	0.80" wall (20.3 mm)	1.25" wall (31.8 mm)
Severing and single beveling	0.40" wall (10.2 mm)	0.63" wall (16.0 mm)
Severing and double beveling	0.26" wall (6.6 mm)	0.40" wall (10.2 mm)

*Capacity exceeds maximum wall thickness for small pipe sizes

Material Cutting Capabilities

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

Clearance and Dimensions

Weight

Basic machine	13.0 lbs. (5.90 kg)
Right angle drive	12.0 lbs. (5.44 kg)
Low profile tool module set	1.3 lbs/module (0.59 kg)
Standard tool module set	1.7 lbs/module (0.77 kg)
Stand for bench operation	3.3 lbs. (1.50 kg)

Drive Options

Right angle air motor

Air requirements @ 90 PSI	55 CFM
Horsepower	1.5 H.P.
Head speed @ max. H.P.	37 RPM

Right angle drive electric motor kit (light duty - 05-0123)

Power requirement (7.5 amp circuit)	115V (25 to 60 Hz)
Head speed @ maximum horsepower	37 RPM

Tool Modules

	Low Profile	Standard
Working diameter range	0.60" – 3.00" (15.2mm - 76.2mm)	0.60" – 3.00" (15.2mm - 76.2mm)
Travel per side	0.40" (10.2mm)	0.63" (16.0mm)

Clamping

Fixed, self-centering pad sets.

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

Adjustable pads only, available on request.

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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