

## TECHNICAL SPECIFICATION MODEL 648RBL LOW PROFILE CLAMSHELL

The 648RBL Low Profile Clamshell is a split-frame pipe lathe for severing and beveling in-line pipe with a range of 42” through 48” nominal diameter with minimal radial and axial clearances.

### Accessories

- Portable Air Filter Caddy (for Single or Dual Air Drive Systems)
- RBL Tool Modules
- 600RBL OD Tracking Module Kit
- Counterbore Module Kit (CBM-3)
- Heavy Duty Sever Kit
- Sandvik Carbide Sever Kit
- Template Tracing Module
- Tool Bit Spacer Kit
- Roller Cutter

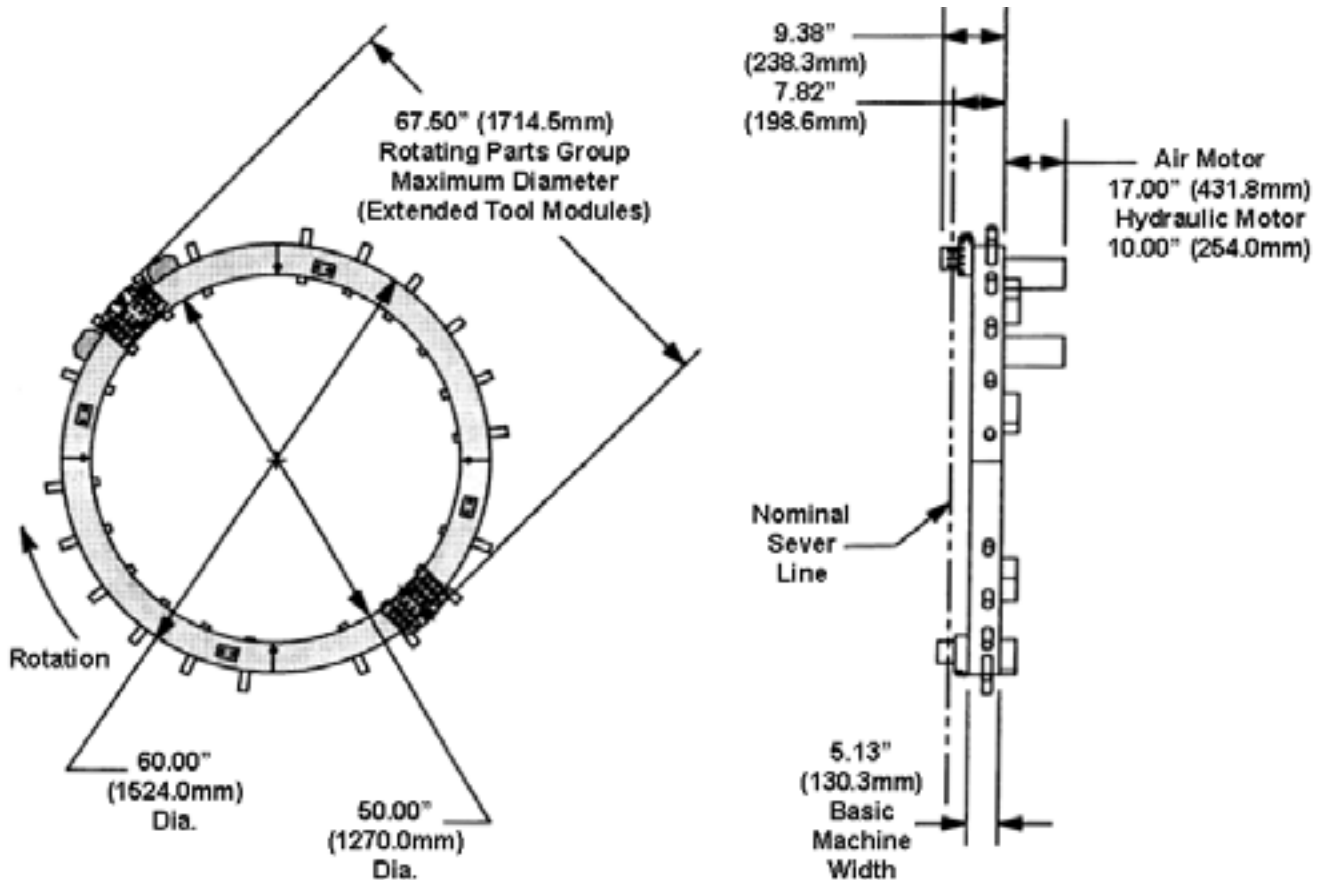
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### Special Features

- Easily adjustable preloaded 90° Vee precision bearings stabilize the rotating head to provide long life, low maintenance, stability, and precision.
- The Clamshell splits into two halves for mounting on a closed looped system. All parts are secured to the two halves to avoid loss of parts and provide maximum ease of handling.
- The machine has adjustable mounting pads for out-of-round pipe conditions.
- Dual tool modules, with auto-feed sprockets and adjustable slide ways, ensure operator safety and maximum maintainability with minimum operator training.
- The auto-feed star sprockets provide .0036” (.09mm) of radial feed per revolution for a controlled depth of cut.
- Drive gears and bearing surfaces are covered and sealed to increase operator safety and to prevent damage from chips.
- Operator controls are located away from the rotating head for enhanced operator safety.
- The modular design provides easy maintenance, and maximum versatility for drive and tooling options.
- Machine components include high strength aluminum and alloy steel construction with corrosion resistant coatings for maximum robustness and reliability in harsh environments.

## Specifications

Reference Drawing No. 77-1430 (Model 648RBL Clamshell)



## Pipe Cutting Capacities

Cutting Capacities on 42" through 48" pipe with standard tool modules

- Severing with standard procedures 2.50" (63.5mm) wall
- Severing and single beveling 1.25" (31.8mm) wall
- Severing and double beveling 1.25" (31.8mm) wall
- Severing and beveling w/ special procedures 2.00" (50.8mm) wall

Materials include but are not limited to:

- Carbon steel
- Low alloy steel
- Chrome steel (20% max)
- Chrome/moly alloys (Rc 32 max.)
- Copper nickel alloys
- Austenitic stainless steel
- Inconel
- Copper
- Aluminum

*\*Some materials and geometries may require special procedures and step-cut operations.*

## Clearance and Dimensions

### Weight

- Basic machine with 2 drive housings 900 lbs. (408.2 Kg)
- Standard tool modules 23 lbs. (10.4 Kg)/module
- Hydraulic motors 34 lbs. (15.4 Kg) ea.
- Electric motors 25 lbs. (11.3 Kg) ea.

### Drive Motor Options

Single or Dual Right Angle Air Motors

- Single Motor Air requirements 90 PSI (6.3 bar) at 95 CFM (45 l/sec)

Single or Dual In-line Hydraulic Motors

- Requires separate hydraulic power supply (see 765RVC technical specifications)

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### Tool Modules

- Working diameter 42" - 48" pipe
- Feed rate .004" (.10mm)/rev.

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### Mounting

4 adjustable mounting pads with 2 additional mounting jackscrews for 42", 44", 46", and 48" pipe.

#### 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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