

Reliable portable equipment and services for boilers and heat exchangers

The Perfect Tool for Boiler Tube Machining

BOILERMASTER®

- Wide, Standard 1 ¼" TO 4" Size Range

Tri Tool's **BOILERMASTER** is a rugged and reliable portable ID mounted end prep machine that performs precision weld prep bevels, facing or counterboring on boiler tubes with an ID over 1.25" and an OD up to 2.63" - up to .531" wall. Depend on a **BOILERMASTER** to help you control costly boiler maintenance and plant downtime (scheduled or otherwise).

Features:

- Field-proven dependability
- Secure "Wedge-Lock" bit
- Tool steel mandrel
- Mandrel shaft seal
- Ratchet feed system
- Strong 1.5 HP drive motor
- Tapered roller bearings
- Optional 2.63" and 4.00" diameter cutting heads
- Extended cutting range with optional mandrels:



Reduced Dia. Mandrel (PN 06-0413): .610" (15.5mm) to 1.00" (25.4mm) range.



1" Reduced Dia. Mandrel (PN 06-0414): 1.0" (25.4mm) to 1.25" (31.8mm) range.



Wide, Standard 1 ¼" to 4" size range



The **BOILERMASTER** is a version of our classic 204B Beveler, equipped with a ratchet feed mechanism making it ideal for boiler work and for use in narrow and confined spaces.

High Performance Waterwall Cutting

BEVELMASTER®

Get a better grasp of your Heat Exchanger Projects!

The lightweight, compact design small diameter bolt-on cutting head of the Model 201BA **BEVELMASTER** allows it to perform rapid, accurate machining in tight spaces, making it perfect for boiler use.

Features:

- Optional cutting heads
- Thin design is ideal for cut-out windows
- Adjustable clamping

The OD mounting – no mandrel design (clamps to the outside of tube or pipe) allows this machine to successfully work on boiler tubes with inside diameters under 1" with less damage than ID mounting with a mandrel system.

The machine provides rapid clamping saddle adjustments and a right angle feed knob with all controls (feed, clamp, motor) on the outside of the tube panel opening for safe and easy operation. The narrow width of only 1.45" permits use on waterwall cutout windows and between boiler panels.

The Model 201BA's two adjustable saddles cover the full cutting size range.

On-Site Boiler Services

Contract on-site machining services are a reliable and effective alternative for project planning, workforce augmentation, critical operations are needed, or when (scheduled or emergency) plant outages occur.

One of the primary advantages of selecting Tri Tool as your source for on-site services is that as a leading machine tool OEM, our service technicians are equipped with the widest range of the latest design equipment. This ensures that regardless of your machining requirements, your project will be performed quickly and reliably by an experienced staff with exactly the right equipment to get it right, and on time.



Model 201BA



The narrow profile and well-designed controls make the Model 201BA the ideal solution for waterwall weld repair.



The Perfect Solution for Tube Sheet and Heat Exchanger Welding

BEVEL MASTER[®]

Get a better grasp of your Heat Exchanger Projects!

If you perform heat exchanger construction and maintenance, the Model 202TS TS is the perfect solution to rapidly and repeatably face, square and chamfer tube ends and bores in preparation for welding. The tool's fast and secure pneumatic clamping, hardened tool blocks and self-centering mandrel provide precise alignment. Achieving accurate bit depth is easy with a patented lever feed system with an integral depth stop.

Features:

- Fast pneumatic clamping system.
- Patented lever feed system with depth stop.
- Torque accepting mandrel for operator safety.
- Expanding mandrel provides fast, accurate self-centering alignment.
- All tools needed for operation are included with the system.
- Durable, hardened steel mounting blocks for secure positioning.
- Mandrel shaft seal prevents contaminants from entering gears and internal parts.

Custom Engineered Equipment

When you have a need for portable boiler equipment that is outside the scope of our standard range tools, Tri Tool can design and manufacture exactly the right equipment for your specific requirements.

Our experienced custom engineering department has created thousands of modifications to existing machinery, designed specialized mounting and tooling, and completely new machining systems to provide the best possible in-place cutting results possible for your most challenging projects.

Contact our knowledgeable technicians for innovative and dependable equipment solutions to keep your boiler and heat-exchanger systems on-line and working at peak performance.



Model 202TSB

- Standard Mandrel ID Mounting Range: 0.77" (19.6mm) to 1.95" (49.5mm) tubes
 1. Face Cutting Diameter: min ID of .77" (19.6mm) to max OD of 2.375" (85.7mm)
 2. Counterboring: min ID of 1.00" (25.4mm) to max OD of 2.00" (50.8mm)
- Optional Small Mandrel ID Mounting Range: 0.50" (12.7mm) to 0.78" (19.8mm) ID tubes
 1. Face Cutting Diameter: min ID of 0.50" (12.7mm) to max OD of 1.19" (30.2mm)
 2. Counterboring: min ID of 0.50" (12.7mm) to max OD of 0.75" (19.1mm)



Precision In-Line Tube Cutting

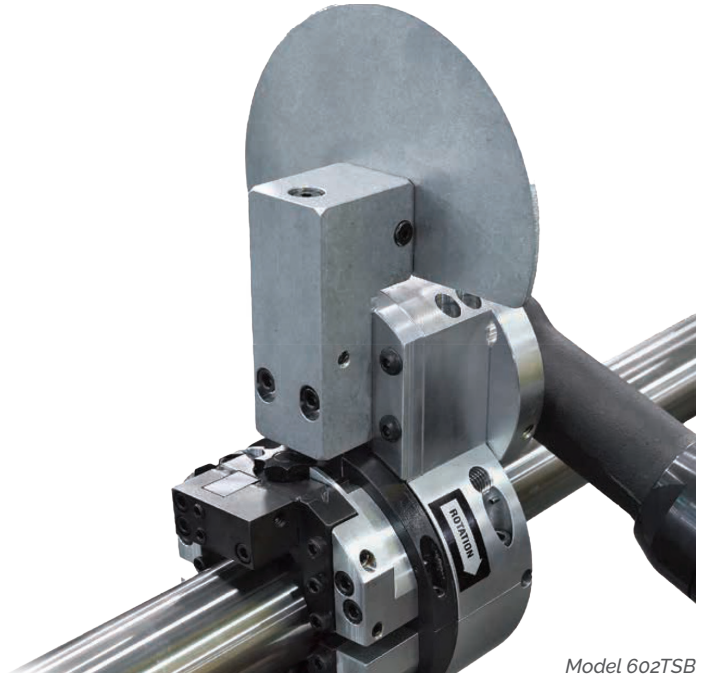
Maximum precision in tight spaces!

The 602TSB Low Profile Clamshell is a split-frame pipe lathe for severing and beveling in-line tube with minimal radial and axial clearances. This compact tool features low profile cutting heads and only requires 1.49" (37.8mm) of radial clearance over the tube O.D.

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.

Utilizes self-centering mounting pads for quick, easy mounting, or can use adjustable mounting pads for out-of-round pipe conditions.



Model 602TSB

Dual tool modules with auto-feed sprockets and adjustable slide ways. Auto-feed star sprockets provide .003" (.08mm) of radial feed per revolution.

Drive gears and bearing surfaces are covered for operator safety and sealed to prevent cutting chip damage.

Controls are located away from the rotating headstock for maximum operator safety.

Detachable right angle air motor provides maximum handling ease and allows rotation to various positions.

- Optional Counterbore Module available.
- Tube size cutting Range: 1.50" (38.1mm) through 2.00" (50.8mm) OD
 Rotating Parts Dia: 4.98" (126.5mm), Machine OD: 4.98" (126.5mm), Machine ID: 2.10" (53.3mm),
 Frame Width: 2.50" (63.5mm), Nominal Cut Line: 4" (101.6mm)

Boiler Equipment Rental

Tri Tool provides a wide range of boiler equipment for rental, providing an important, cost-effective alternative for occasional projects, and for planned or emergency outages.

Our nationwide network of stocked rental facilities ensures you get the equipment you need at competitive rates when and where you need it. Offices in Rancho Cordova CA, Chattanooga TN, and Houston TX provide localized technicians and parts inventories, and you can return equipment to your nearest facility, saving you money.



Note: With our flexible and convenient rental program you can try out our boiler equipment before you purchase!

Note: Content and specifications subject to change without notice.

- Portable Precision Machine Tools
- MissionBuilt Custom Engineered Solutions

- On-site Field Services
- Equipment Rentals