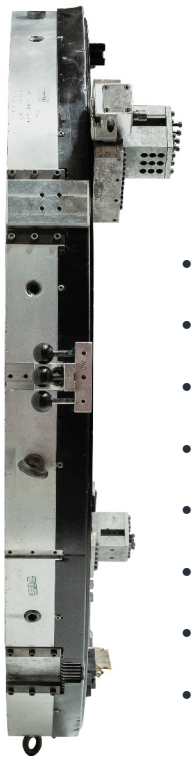
# 856 WD Portable Clamshell Lathe

44 to 56 inches (1117.6 to 1422.4 mm) Nominal Bore

Mactech Europe offer portable pipe cutting machines for On-Site precision cutting and bevelling of most pipe sizes, schedules and materials.

The Clamshell Lathes cover a wide range of pipe sizes from 2″ to 110″ Nominal Bore and are designed so that minimal radial and axial clearance are required for easy installation on in-line closed loop pipe.

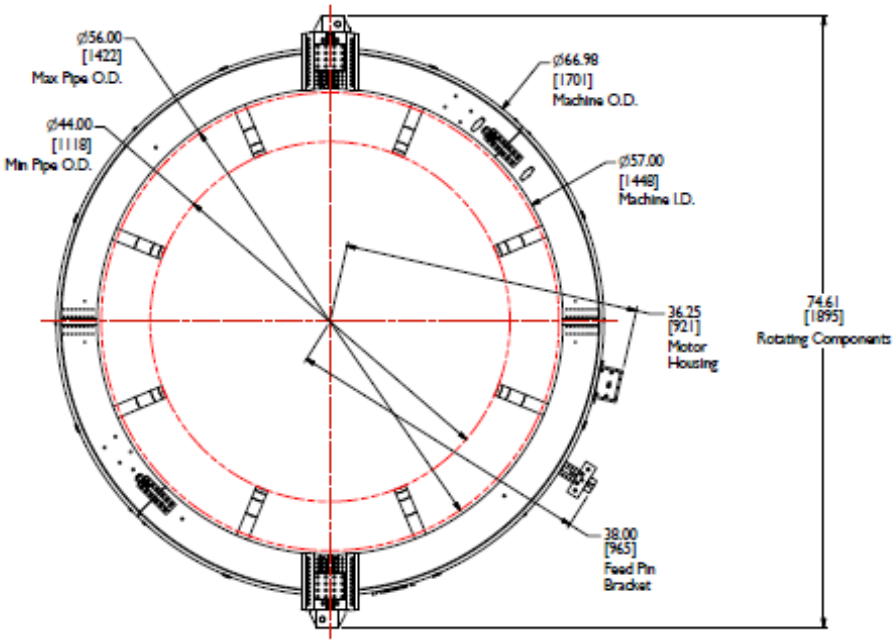
Unlike other competitive cold cutters our lathes have more bearings making it the most versatile machine in the industry to cut and bevel pipe, re-machine flanges, machine shafts and more.

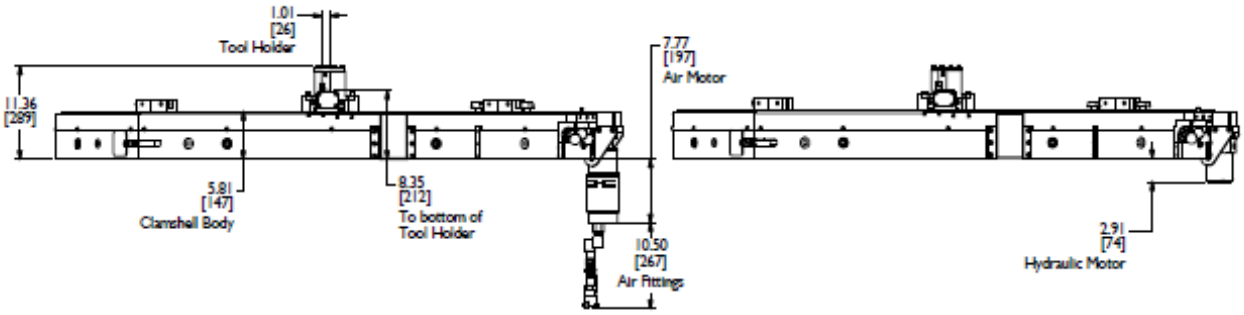


## Benefits

- Sever or simultaneous Sever / Bevel 45" to 56" Nominal Pipe schedule pipe.
- Cold cutting in hazardous environments
- Exceptionally rigid, split-frame for precise on-site machining
- Lightweight, low clearance design for easy handling in tight working spaces
- O.D. Following Tool Block allows a +/- 1 inch out of round workpiece
- Tool holder accepts standard 3/4" or 1" (19.5 -25.4mm) tool bits
- Air Caddy (air filter and oiler) included with air drive systems
- Customer setups and drives available for your application

# 856 WD Portable Clamshell Lathe Specification




## WD Portable Clamshell Lathe Dimensions

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|---|---|---|---|
| **Dimensions** | **843 WD** | **848 WD** | **860 WD** |
| | | | |
| A - Machine I.D. | 43.00” (860 mm) | 48.00” (1219.2 mm) | 60.00” (1524 mm) |
| B - Machines O.D. | 53.98” (1371 mm) | 58.98” (1498 mm) | 70.98” (1803 mm) |
| C- Roatating Components | 31.00” (787.4 mm) | 66.61” (1692 mm) | 78.61” (1997 mm) |
| D - Minimum Pipe O.D. | 31.00” (787.4 mm) | 36.00” (914.4 mm) | 48.00” (1219 mm) |
| E - Maximum Pipe O.D. | 43.00” (1092 m) | 48.00” (1219 mm ) | 60.00” (1524 mm) |

# 856 WD Portable Clamshell Lathe Specification

| | |
|---|---|
| **Application Range** | 44 to 56 inches (1117.6 to 1422.4 mm) Nominal Bar |
| **Feed** | Feed Mechanism I 4 Point Star Wheel with 3 Pin Tripper feed<br>Feed Rate I .002, .004 or .006 inches per revolution (0.05, .011 or 0.16 mm) |
| **Drives** | Air Drive Requirement 100cfm @ 100 psi (2.8m3/min @ 6.9 bar)<br>Hydraulic Drive HPU Requirement 10-15 gpm @1000 psi (38-57lpm@69 bar) continuous pressure - includes hose whips and quick connects |
| **Weights** | Operating Weights include too4l blocks, slides and drive motor<br>856 WD Air Drive 918 lbs (416 kg) I 856 WD Hydraulic Drive 930 lbs (422 kg) |
| **Options** | Full line of tool bits I Right angle & reversible drives I Single point machining attachment I Axial Feed I<br>Machining Attachment I Counter bore / Facing Attachment Hydraulic Power Unit |
| **Frame** | The aluminium frame is a split ring assembly capable of being disassembled to be installed around in-line piping.<br>The frame has bearing mountings for the rotating head, a drive motor mount, locator pads for mounting to the pipe, and a gear cover. |
| **Cutting Head Assembly** | The cutting head assembly is a heat treated 4140 alloy steel split ring gear assembly, which aligns with the split lines of the frame enabling the machine to be split in half.<br>The cutting head has an integral spur gear on the outside diameter, and mounting devices for tool holders. |
| **Drive Assembly** | The drive motor assembly mounts to the frame and is arranged with a pinion gear on a shaft.<br>The drive motor mount bracket is designed to accept the reaction torque generated by the drive motor. |
| **Bearings** | The cutting head runs on precision bearings that provide for both axial and radial force reactions experienced in pipe machining. Mactech utilises two separate radial bearing arrangements in every machine, providing maximum rigidity of operation.<br>They are designed so that adjustments are not required. |
| **Tool Holder (Blocks)** | The tool holders mounted to the cutting head assembly are provided with automatic radial feed “star wheel” mechanisms.<br>They are designed to maintain the radial clearance equal to the frame diameter and feature adjustable gibs for tool support. |
| **Locator Pads** | Adjustable locator pads are actuated by jack-screws from the outside of the frame.<br>A set of locator pads with extensions to cover the machine's operating range is provided with each machine.<br>Additional sizes for each machine are available. |
| **Tool Bits** | Mactech tool bits are available for severing, severing and double bevelling, severing and bevelling on the side of the cut on which the clamshell is mounted (right hand), severing and bevelling on the opposite side of the cut (left hand), counter boring, socket weld removal, etc. |