# 880 SD Clamshell Lathe

60 to 80 inches (1524 to 2032mm) 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.
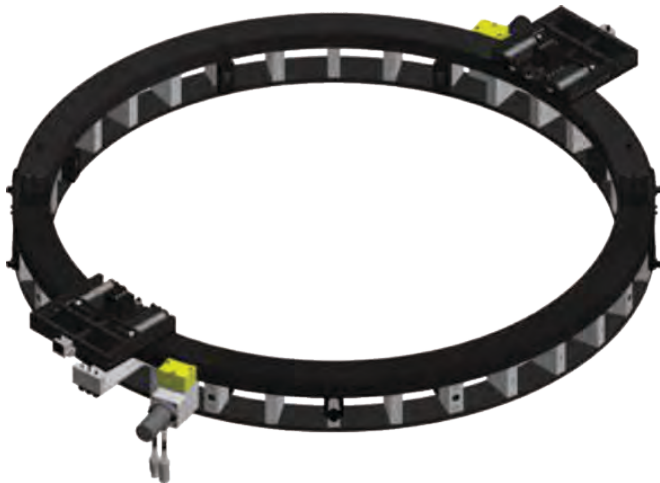
Benefits

- Sever or simultaneous Sever / Bevel 60 to 80 inch Nominal Pipe
- Cold cutting in hazardous environments
- Exceptionally rigid, split frame for precise on-site machining
- OD Following Tool Block allows a +/- inch out of round workpiece
- Tool holder accepts standard 1 inch square tool bits
- Powerful dual hydraulic drives suitable for cutting toughest steel and steel alloys
- Customer setups and drives available for your application

880 SD Clamshell Lathe

60 to 80 inches (1524 to 2032mm) Nominal Bore

Model	Standard Block Tool	Diameter Range
880 SD	ODF	60.0 to 83.9 inches (1524 to 2131mm)

SD Tool Block and Slides Options
These Tool Block and Slide Assemblies
fit on all SD Clamshells

6.3
[160]
Ring Width

18.8
[477]
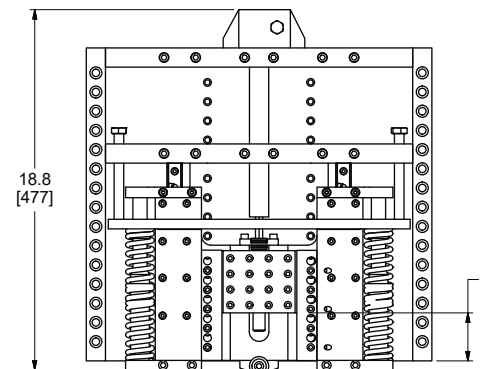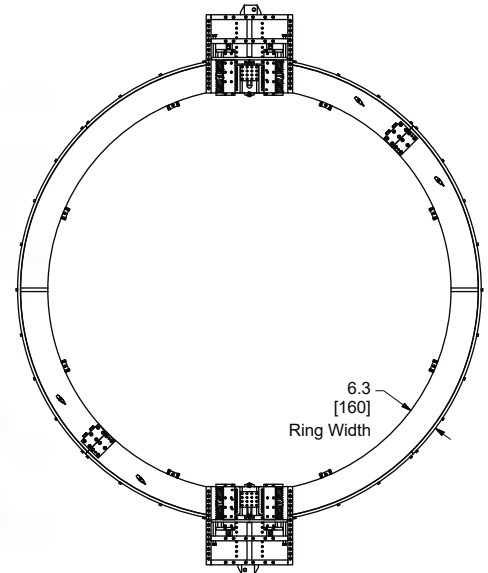
SD ODF
600-6647

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SD CLAMSHELL PORTABLE LATHE SPECIFICATIONS		
Application Range	60 to 80 inches (1524 to 2032mm) Nominal Bore	
Feed	Feed Mechanism	4 Point Star Wheel & Tripper
	Feed Rate	.002, .004 or .006 inches per revolution (0.05, 0.11 or 0.16 mm)
Drives	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 tool blocks, slides and drive motor Operating Weight: 2716 lbs. (1232 kg)	
Options	Full line of tool bits | Hydraulic Power Unit	
Frame	The aluminium frame is a split ring assembly capable of being disassembled to be installed around in-line piping. 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. 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. 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. 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. 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 jackscrews from the outside of the frame. A set of locator pads with extensions to cover the machine's operating range is provided with each machine. 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), counterboring, socket weld removal, etc.	