

## 814 LC Portable Clamshell Lathe

8 to 14 inches (219 to 355.6 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.

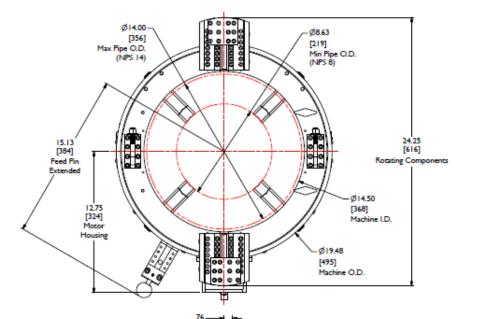


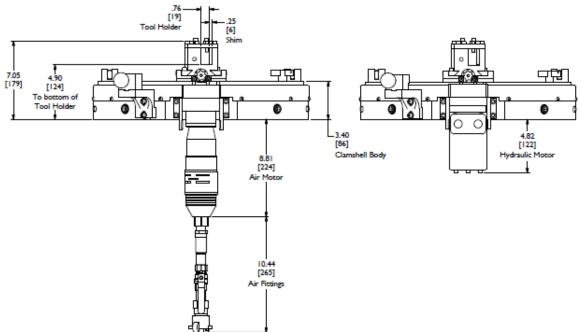


## Benefits

- Sever or simultaneous Sever / Bevell 8" to 14" Nominal Bore.
- Cold Cutting in hazardous environments.
- Exceptionally rigid, split-frame for precise on-site machining.
- Tool Holder accepts standard 3/4" or 1" tool bits.
- Lightweight, low clearance design for easy handling in tight work spaces.
- Air Caddy (air filter & oiler) included with air drive systems
- Customer setups and drives available for your application.







LC Portable Clamshell Lathe Dimensions								
Dimensions	804 LC	806 LC	808 LC	810 LC	812 LC	814 LC	816 LC	
A - Machine I.D.	5.00"	7.12"	9,12"	11.25"	13.25"	14.50"	16.50"	
	( 127.0 mm)	( 180.8 mm)	( 231.6 mm)	( 285.7 mm)	( 336.5 mm)	( 368.3 mm)	( 419.1 mm)	
B - Machines O.D.	9.98"	12.10"	14.10"	16.22"	18.21"	19.48"	21.48"	
	( 235.5 mm)	( 307.3 mm)	( 358.1 mm)	( 411.9 mm)	( 462.5 mm)	( 494.7 mm)	( 545.5 mm)	
C - #3 Slides	12.75"	18.87"	16.87"	19.00"	21.00"	22.25"	24.25"	
	( 323.8 mm)	( 377.7 mm)	(428.5mm)	( 482.6 mm)	( 533.4 mm)	(565.1 mm)	( 615.9 mm)	
D - # 4 Slides	14.75"	16.87"	18.87"	21.00"	23.00"	24.25"	26.25"	
	( 374.6 mm)	( 428.4 mm)	( 479.2 mm)	( 533.4 mm)	( 584.2 mm)	( 615.9 mm)	( 666.75 mm)	



## 814 LC Portable Clamshell Lathe Specification

Application	8 to 14 inches (168 to 508 mm) Nominal Bar					
Range	Feed Mechanism   7 Point Star Wheel & Tripper					
Feed	Feed Rate   0035" (0.09 mm) per revolution					
Drives	Air Drive Requirement 100cfm @ 100 psi (2.8m3/min @ 6.9 bar)					
	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					
	814LC Air Drive 100 lbs (45 kg)   814LC Hydraulic Drive 104 lbs (47 kg)					
	Shipping Weights includes equipment and shipping crate					
	814LC Air Drive 189 lbs (86 kg)   814LC Hydraulic Drive 180 lbs (82 kg)					
Options	Full line of tool bits   Right angle & reversible drives   Single point machining attachment   Axial Feed					
	Machining Attachment   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.					
	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.					
	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 jack-screws 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 th 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.					

