



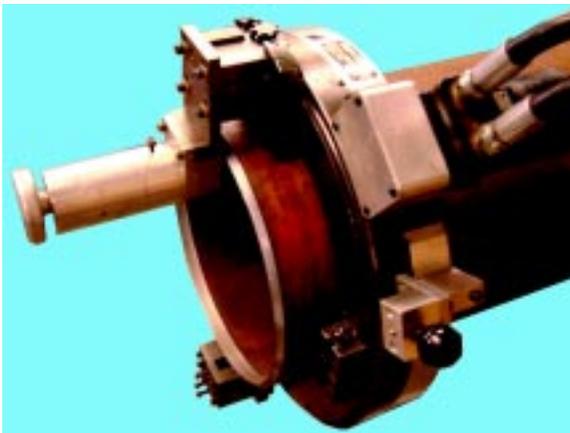
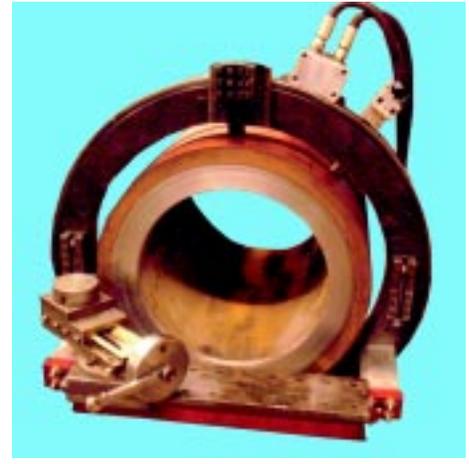
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Clamshell Modules

Compound Single Point Module

The single point module allows multi-angled machining on heavy wall piping with minimal tool pressure and ease of cutting. This attachment also permits the operator to perform deep I.D. multi-angled counterboring. Flange facing can be accomplished by mounting on the O.D. of most flanges and re-machining the face using Mactech's auto feed system.



Counterbore Module

Mactech's counterbore module attaches to the tool block on any size clamshell. It is manually fed by rotating the handle, which advances the counterbore bit axially into the pipe. The module is capable of performing various counterbores.

Axial Feed Weld Overlay Removal Module

The overlay removal module mounts on the face of the clamshell and advances axially as the gear rotates, removing material from the O.D. of the pipe joint. The optional contour roller guide allows the cutting head to follow either out of round piping or each side of misaligned joints. Three adjustable spring screws can be adjusted to conform to the cutting pattern of the shape of the pipe or nozzle and the floating wheels keep the tool bit at constant pressure and position.





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End Prep Lathes

Mactech's 2-6B and 4-12B SP End Prep Lathes can form bevel, face and counterbore pipe from 2" to 6" and 4" to 8" I.D. (respectively) and single point bevel pipe and face flanges from 2" to 8.6" and 4" to 14" O.D.

Features

These lightweight and durable machines are constructed of solid stock aluminum and feature a heavy-duty gear drive and dual radial ball bearings for a higher load rate capacity. The self-centering mandrels use locating pads to automatically lock into pipe. This makes centering the machine easy and assures accurate and precise machining while providing torque free operation.

Mandrel Range Diameter

	<u>Mandrel Model</u>	<u>Mandrel Range</u>	<u>Locator Range</u>
2-6B	Mandrel #1	2" to 3.5"	1.88" to 3.66" I.D.
	Mandrel #2	3.5" to 6"	3.25" to 6.56" I.D.
4-12B	Mandrel #1	4" to 8"	3.80" to 6.83" I.D.
	Mandrel #2	8" to 12"	6.84" to 12" I.D.



Mactech's 12-24 SP and 24-36 SP End Prep Lathes can form bevel, face and counterbore pipe. They produce precision end preps on tube and pipe ranging from 12" to 24" and 24" to 36" I.D. (respectively) and single-point bevel pipe and face flanges out to 24" and 36" O.D.

Features

The automatic mandrel uses either the #1 or #2 automatic chuck for in-line pipe or flange facing and the independent mandrel uses the #1 or #2 independent chuck. When the End Prep Lathe is installed, independently adjustable locating screws are locked into the pipe. The miter shaft pivots independently of the head and can be adjusted up to 10 degrees radially for centering the machine on non-round pipe, providing torque-free operation for cutting miters, tees and elbows.



Mandrel Range Diameter

	<u>Mandrel Model</u>	<u>Mandrel Range</u>	<u>Locator Range</u>
12-24	Automatic #1	8.5" to 16.5"	8.5" to 16.5" I.D.
	Automatic #2	16.5" to 24.5"	16.5" to 24.5" I.D.
	Independent #1	12" to 18"	10.75" to 18" I.D.
	Independent #2	18" to 24"	18" to 24" I.D.
24-36	Independent #2	24" to 36"	24" to 36" I.D.



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Portable Mills

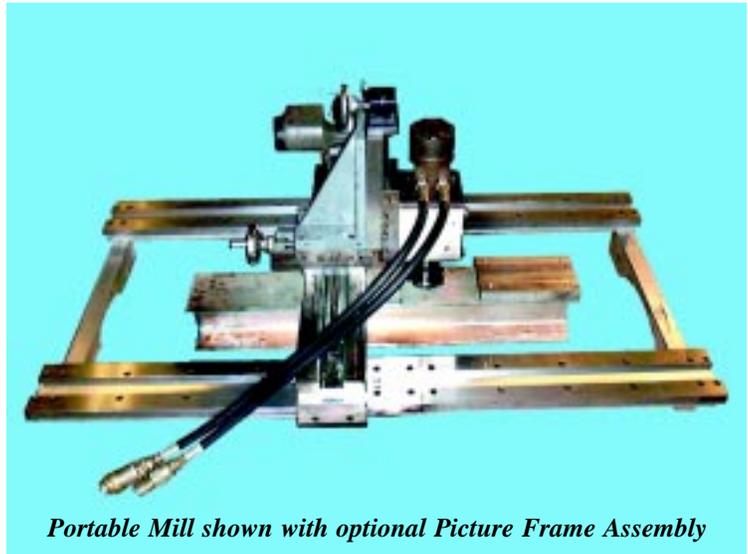
Mactech's **Portable Milling Machines** are designed to make on-site, close tolerance machining cost effective. Our Portable Mills are ideal for strict environments and repair work in which dismantling is not feasible. The Portable Mills can be clamped, bolted or magnetically attached directly onto the workpiece, and mounted in any direction.

Available Options

- Picture Frame Assembly
- Infinitely Variable Power Servo Feed
- Saddle for Curved Surface
- Saddle for Flat Surface

Features

Standard features include precision lead screw, bronze nut with anti-backlash compensation, handwheel with micrometer dial and standard mounting holes in both base and saddle. The quill housing mounts on either side of the motor mount, swivels and feeds vertically into the



Portable Mill shown with optional Picture Frame Assembly

workpiece. These machines consist of a longitudinal base slide and saddle, cross slide and saddle, milling head assembly mounted to saddle, and vertical slide support bracket. All dovetail "way" surfaces are precision ground and hand flaked to assure oil retention for lubrication and all slides feature adjustable gibs to regulate the clearance between way surfaces. The optional Picture Frame Assembly provides faster set-up, increased precision, and greater repeatability.

Below are representative milling machines. Optional increased travel in all axis, bed widths, milling heads, and drive units are available.

Machine Model	Travel X Axis	Travel Y Axis	Travel Z Axis	Clearance X Axis	Clearance Y Axis	Clearance Z Axis
12" Mill	6"(152mm)	2"(50mm)	4"(101mm)	22"(558mm)	20"(508mm)	20"(508mm)
36" Mill	30"(762mm)	2"(50mm)	4"(101mm)	46"(1168mm)	20"(508mm)	20"(508mm)
48" Mill	42"(1067mm)	2"(50mm)	4"(101mm)	58"(1472mm)	20"(508mm)	20"(508mm)
72" Mill	66"(1676mm)	2"(50mm)	4"(101mm)	82"(2082mm)	20"(508mm)	20"(508mm)
96" Mill	88"(2235mm)	4"(101mm)	4"(101mm)	106"(2768mm)	20"(508mm)	20"(508mm)



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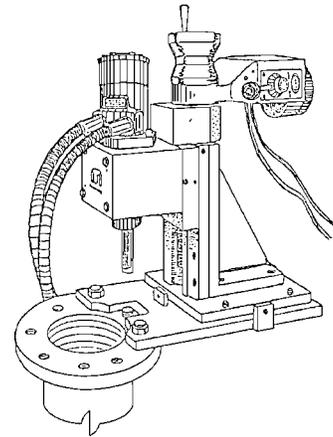
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Heavy Duty Mills

Mactech's Heavy Duty Mills are designed to make on-site, close tolerance machining cost effective. Ideal for strict environments and repair work where dismantling is not feasible. These portable mills can be tack welded, clamped, bolted, or magnetically attached directly to the workpiece. Applications include spade drilling, hole boring, drilling, valve reseating and stud removal.

Available Options:

- Picture Frame Assembly
- Infinitely Variable Power Servo Feed
- Saddle for Curved Surface
- Saddle for Flat Surface
- Optional 12", 36" and 72" Slides



Features:

The machine is complete with Z axis (vertical) manual microadjustment or optional infinitely variable power servo feed system. The heavy duty mills can be installed on 36" or 72" longitudinal slides for special work. Mactech's extra heavy duty and super heavy-duty mills have side supports for additional strength, and are used when longer vertical travel is needed.

Machine Model	Travel (Vertical)	Length (Vertical)	Length (Horizontal)	Width
12" Heavy Duty Mill	6"(152mm)	21"(533mm)	18.5"(470mm)	13"(330mm)
18" Heavy Duty Mill	12"(304mm)	27"(686mm)	18.5"(470mm)	13"(330mm)
24" Super Heavy Duty Mill	18"(456mm)	33"(838mm)	18.5"(470mm)	13"(330mm)



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Line Boring Machines

Mactech's models LB100 and LB200 line boring machines make on-site line boring operations much faster and easier. They feature independent hydraulic motors powering spindle drive and feed, self-centering cones for fast and accurate alignment, and the rigid, lightweight slide feed unit easily mounts to the bearing support mounts. Alternate bar lengths and mounting brackets are available.

Available Options:

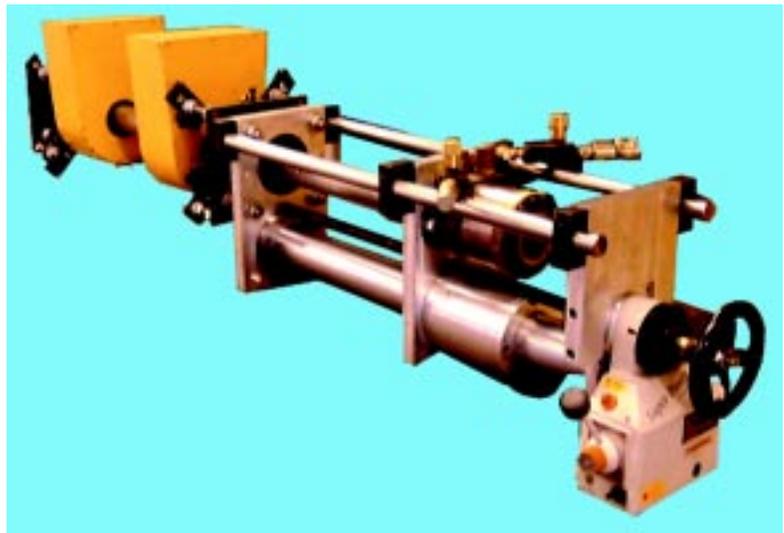
- Alternate bar lengths available
- Drilling head
- Travel extension
- Tool extension
- Alignment cones

Dimensions

	<u>LB100</u>	<u>LB200</u>
Height:	11"	14"
Width:	9"	9"
Length (feed unit):	27"	30.5"

Capabilities:

	<u>LB100</u>	<u>LB200</u>
Spindle Speed:	165 to 5 RPM	125 to 5 RPM
Axial Feed:	.005 per rev. to rapid traverse	.005 per rev. to rapid traverse
Travel:	15"	18" (24" ext.)
Bore Diameter:	2"-12" (Extension to 16")	2" to 20"
Bar Diameter:	1-1/2" and 2-3/16"	1-1/2" and 2-3/16"
Std. Bar Length:	4' and 8'	4' and 8'



Our Line Boring Machines can be used for many applications. Shown above is the simultaneous boring of both loader pinholes in a single set-up. There is no need to disassemble and transport heavy machinery such as scrapers, front-end loaders, cranes, dozers, shovel buckets, etc.

Shown to the left is our optional LB 200 Drill. It provides greater strength and rigidity for drilling applications. With the LB100 or LB200 and the LB 200 Drill we can provide all of your line boring needs on site, saving you time and money.



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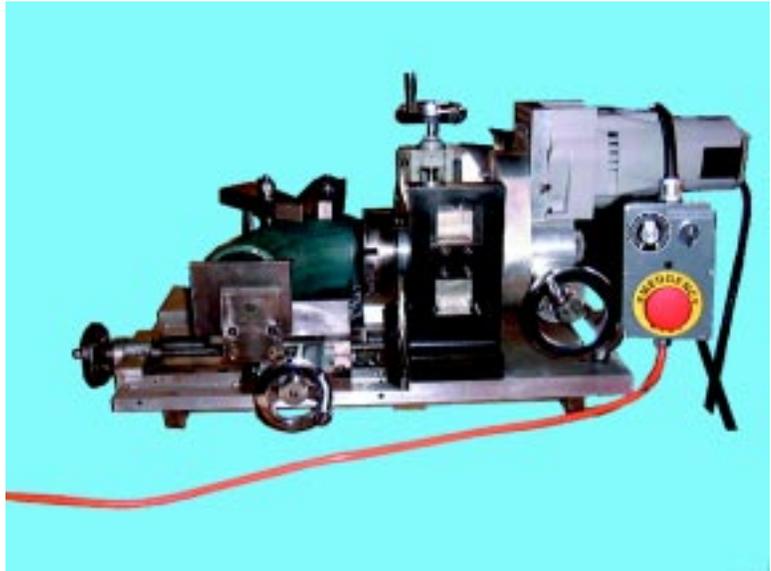
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Model 1-4 Fitting Machine

The **MACTECH Model 1-4 Fitting Machine** is a portable end prep lathe. It bevels, faces, and counterbores 1" to 4" elbows, tees, and crosses. The Model 1-4 preps all new fittings and is able to modify any previously prepped configurations. It offers precision preparation of fittings and pipe. The Model 1-4 saves precious labor and time, which translates into significant cost savings.

Cutting Capabilities:

- Caps
- Straight Tees
- Straight Crosses
- Reducing Outlet Crosses
- Concentric Reducer
- Eccentric Reducer
- 1" to 4" Pipe, All Standard Schedules
- Stub Ends
- Short Radius, 90°
- Long Radius, 90°
- Reducers, 90°
- Long Radius, 180°
- Short Radius, 180°



Operating Features:

- Two Axis Mitering
- Rotating Cutting Head (Holds three cutting bits).
- XYZ Micro Positioning with locks at all locations.
- Production Stop for Cutting Head.
- Electric, Pneumatic, or Hydraulic motor drive available.
- Modular Clamping Fixtures accepts all standard schedule fittings 1" to 4".
- Bench Mounted with lifting eyes for positioning.
- Simple to set-up and operate in a production mode.
- Set-up a new fitting without disturbing tool bit setting.
- Re-prep and modify end prep bevel angles land thickness and counterbores.
- Salvage used fittings.
- Uniform and accurate cutting every time.
- Simultaneously bevels, faces, and counterbores.

Mactech is your on-site machining expert. Let our experience solve your problems.

We have a 24-hour answering service, which ensures your call will not be missed.

Call us for all of your emergency machining needs!

TOLL FREE HOTLINE: 1-800-328-1488



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Tool Bits



Mactech Tool Bits are made at our factory, which ensures top quality at affordable prices. The unsurpassed quality of our material and craftsmanship ensures that our tool bits are long lasting and heavy duty. This equates to cost and time savings for our customers. We also offer our customers the choice of regular or coated tool bits, resharpening and recoating.

Specialty Tool Bits:

Do you have a unique application that requires specially fabricated tool bits? Mactech provides specialty tool bit service. Our engineering department can design your tool bits or we can manufacture them according to your design. Turnaround time on all orders depends on size, complexity, and material. Mactech can provide virtually all of your tooling needs. Call us today to find out more about our specialty tool bit service.



Grades of Steel Available:

Mactech has three types of tool steel available. Our customers can choose from M2, M43, or T15. Each type of steel has different properties and characteristics that enable us to provide tool bits that cut virtually all types of metals, no matter what the hardness is. For added hardness and wear resistance we also offer our customers Titanium Nitrate (TINI) coating.

We stock the following types of bits:

We stock severing, counterboring, beveling, double beveling, compound beveling, compound double beveling, single point beveling, land facing, and flange facing bits. We stock them in a wide variety of sizes and material. Call Mactech for all your tooling needs!