



MACTECH CLAMSHELL ADVANTAGES

CLAMSHELL PORTABLE PIPE CUTTING AND BEVELING LATHE DESIGN SUMMARY

PATENTED BEARING DESIGN

The Mactech Clamshell Lathe utilizes two alternate sets of bearings, set in close tolerance concentric placement, which provide the maximum rigidity for the tool. This bearing arrangement results in:

- 1.) Longer lasting tooling
- 2.) Longer life of the machines
- 3.) Capability to sever and bevel piping simultaneously
- 4.) Consistent highest quality cuts and weld preparations

Eccentric, adjustable bearings are extremely difficult to set to the proper position in anything other than a manufacturing environment.

TOOL HOLDER DESIGN

Mactech tool blocks allow the tool bits to be set over a small range, to cut at the precise cut line without moving the machine. This allows the machine to be set and centered at an approximate position, then "shim" the tooling to the exact position. A simple estimate of time saved would be from 5 to 15 minutes per cut.

TOOL BITS

Mactech tool bits are made of the highest quality tool steel which are precision ground for optimum cutting capability and longer life. The correct and optimum relief angles and geometry of tooling will be necessary to your success. Standard tooling is made from larger stock material (3/4" x 1"), providing strength, rigidity and longer life of use.

AIR MOTORS

Mactech utilizes 3-1/2 horsepower air motors as standard on clamshell lathes above 12" cutting diameter. Those are the most powerful air motors of a reasonable size and good reliability available in the market today. Mactech machines are designed to accept two of these motors if the application dictates (though your relatively thin wall thickness application may not).

SETUP

Set up time must be minimized in a project. Mactech can provide fixed diameter locators (2 each per machine) which will be set at the outside diameter of the application (30"), reducing set up time and increasing productivity.

ROTATIONAL SPEED / FEED

Utilizing the 3.5 HP motors and spur gear assembly allows for an operating speed well suited for tooling (surface feet per minute). When coupled with the standard single trip feed rate of .0036 per revolution, normalized cutting time for 30" pipe with .500 wall thickness, (carbon steel) should be accomplished in an approximate 30-40 minute time element.

For more information on our portable clamshell lathes, please contact any of our offices listed below or go to www.mactechonsite.com

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WORK HARD

WORK SAFE

WE BEFORE ME

WELCOME CHALLENGES

WOW THEM