

CINCINNATI MACHINES



Monaset EZ

Tool & Cutter Grinder

- With 5 linear Axes, 2 Rotary Axes, plus the
exclusive Monaset
Infinitely Variable Spiral Lead Mechanism,
- * Its an 8 Axis Optical Grinder
 - * Its an 8 Axis Precision Tool Grinder
 - * Its an 8 Axis Optical Comparator
 - * Its an 8 Axis Inspection Machine

Monaset Grinding Operation just got real (easy) EZ

Cincinnati Machines Monaset EZ Tool & Cutter Grinder takes the difficulty out of the typical Monaset grinding operation. Monaset EZ combines the time proven capabilities of the Monaset with Precision Ballscrews, Tilt Grinding Head, Precision Scale Feedback, Digital Readouts, and the Precision CCD Optical System to simplify the difficult parts of precision tool grinding. Now the operator can easily dial in and read linear slide positions down to 0.00002" (0.000004" Optional), and 0.02° for the A-Axis. And the actual grinding process is magnified and displayed on the monitor screen for a very close-up look at the process. Many applications could actually qualify for on-line quality control with this type of accuracy and machine capabilities.

STANDARD EQUIPMENT

- 1) Toothrest assembly with extension bar
- 2) Grinding wheel guards with extension bar
- 3) Front stock support
- 4) Choice of 10 collets plus 3 taper collets
- 5) Grinding wheel collets
- 6) Lower workrest
- 7) Wrench
- 8) Toothrest centering gage
- 9) Adjustable tail center support
- 10) Grinding wheel supports
- 11) Leveling pads
- 12) Workhead spindle centering gage
- 13) Screw drivers
- 14) Allen Wrenches
- 15) Wrenches
- 16) Index plates (0,8,10, & 12)
- 17) Tool Box
- 18) Oiler
- 19) Set of grinding wheels
- 20) Diamond bar
- 21) Spring loaded index pawl for workhead
- 22) 1/2" wheel collet and wrench
- 23) Large Facemill Grinding attachment
- 24) 4" 6 jaw chuck
- 25) Wheel flange & 2 collets for internal grinding
- 26) Wet grinding attachment with waterproofing equipment

Optional Equipment

- 1) B&S 5, 7, 9 taper collets
- 2) Frequency inverter variable speed drive
- 3) 1hp or 2hp wheelhead motor drive
- 4) Special index plates
- 5) Dust collection system



SPECIFICATIONS

WORKHEAD

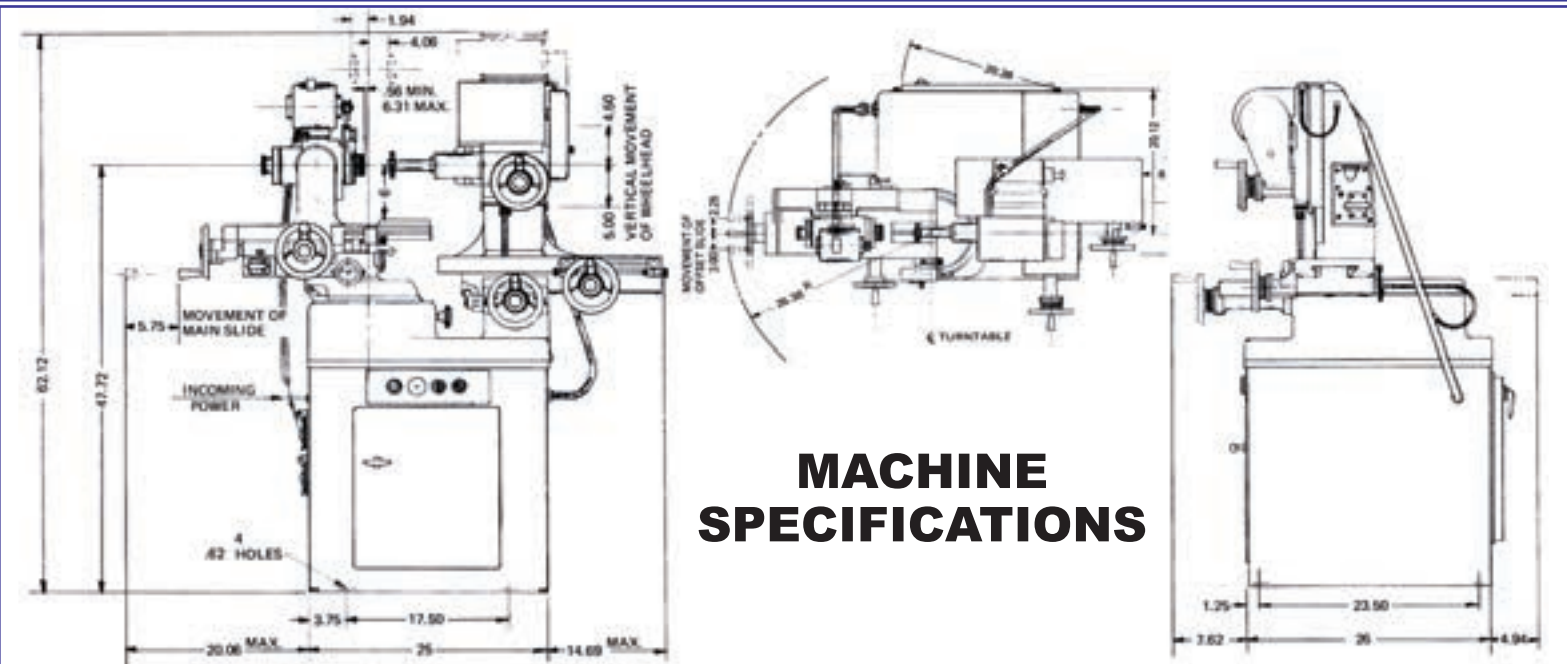
| | |
|--|------------|
| Swing over main slide, (max diameter)..... | 12" |
| Collet work diameter..... | 12 - 1.25" |
| Minimum lead generated by spiral lead mechanism..... | 1.81" |
| Maximum length between spindle nose and tail center..... | 6" |
| Main slide travel..... | 5.75" |
| Offset slide travel, total..... | 5.25" |
| -front of center..... | .3" |
| -rear of center..... | 2.25" |
| Horizontal swivel..... | 235° |
| Vertical swivel..... | +/-40° |
| Workhead power..... | 1/4 hp |
| Workhead speed..... | 436rpm |

WHEELHEAD

| | |
|--------------------------------|----------------------|
| Longitudinal slide travel..... | 6" |
| Vertical slide travel..... | 9.5" |
| -above center..... | 4.5" |
| -below center..... | .5" |
| Cross slide travel, total..... | 7.5" |
| -front of center..... | .3" |
| -rear of center..... | 4.5" |
| Wheelhead power..... | 1/2 hp |
| Wheelhead speed..... | 4000, 5729, 8000 rpm |

SPACE/WEIGHT

| | |
|---------------------------------------|-----------|
| Overall floor space requirements..... | 60" x 67" |
| Machine weight..... | 1525 lbs. |



MACHINE SPECIFICATIONS