

MONASET CM-2

Has these customer proven features . . .

We looked at our successful Monaset grinder very closely before we came up with the engineering refinements which, when combined with its field proven concepts, make it an even better machine for sharpening, reconditioning, or making small cutters from solid stock.

Here, for example, are the proven features that Monaset retains: Its capability for multiple grinding operations at a single chucking of the workpiece—saves setup time; assures excellent concentricity.

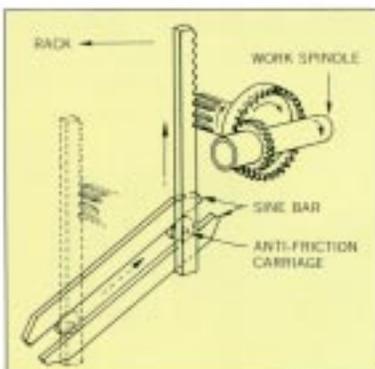
Monaset still maintains its versatility for generating straighter or tapered, right or left-hand, infinitely variable leads from a simple built-in lead mechanism.

Turnable mounting of entire workhead slide assembly, adjustable through 235 plus degrees in the horizontal plane, has proven to be a real asset when grinding radii.

Workhead that is adjustable on separate main slide with dual hand wheel control has proven to be boon for setups.

Offset slide for workhead spindle permits centerline of spindle to be offset from center of turntable—a necessity when grinding convex or concave radii with centerline outside the axis of workpiece.

And micrometer stop dogs and graduated dials which greatly simplify accurate positioning of workhead main slide, and wheelhead cross and longitudinal slides.



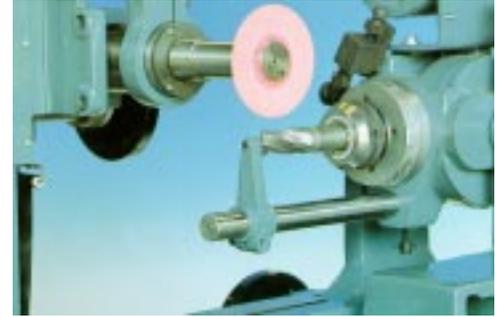
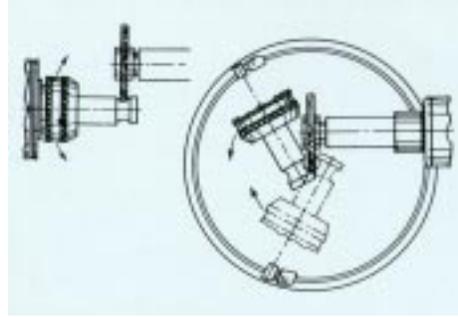
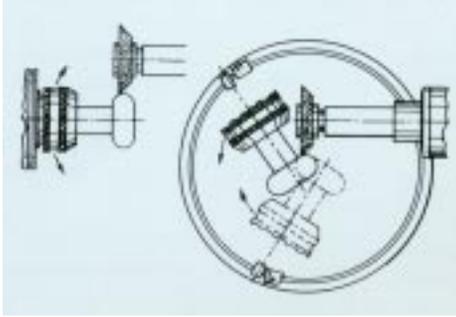
Spiral mechanism generates infinitely variable leads.

 novatech

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Illustration

The Monaset grinder's combination swivelling turntable and movable offset slide provide your shop with versatile capability to quickly set up and accurately generate convex and concave radii of varying size.



CENTERING DEVICE



SCREW SLOT SURFACE GRINDING



FLUTE GRINDING



MILLING CUTTER END GRINDING



GRINDING OUTER DIAMETER



SIDE MILLING CUTTER GRINDING



FORMED MILLING CUTTER GRINDING



ARC GRINDING

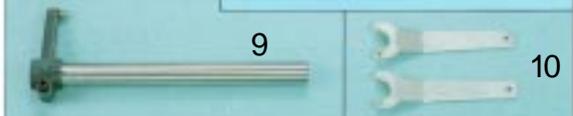
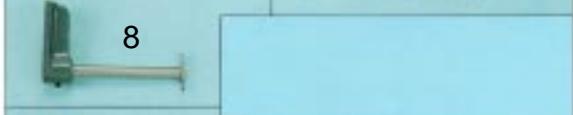
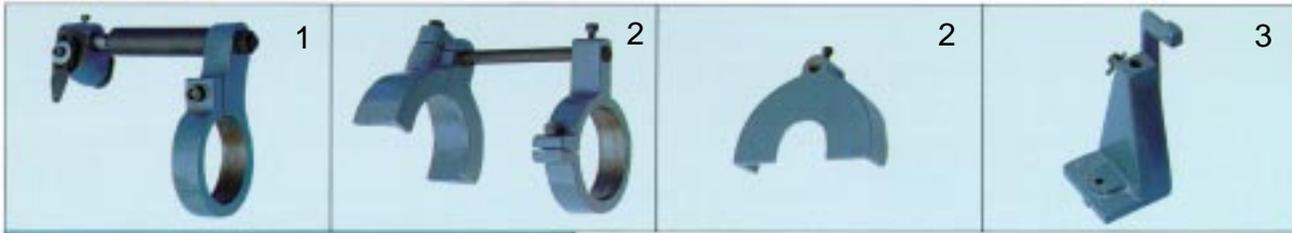


VERTICAL MILLING CUTTER GRINDING



DRILL BIT GRINDING

Monaset Standard Equipment



1. Wheel Toothrest Assembly with extension bar
2. Grinding Wheel Guards with extension bar
3. Front Stock Support
4. Straight Cylindrical Collets: *OPTIONAL
(Please select "A" or "B")
(A) Metric sizes: 3, 5, 6, 8, 10, 12, 16, 20, 25, & 32 m/m
(B) Inch sizes: 1/8, 3/16, 1/4, 5/16, 3/8, 7/16, 1/2, 5/8, 3/4, 7/8, 1, 1-1/8, & 1-1/4"
5. Set of (5) Grinding Wheel flanges. (4) standard and (1) extension flange
6. Diamond Holder Bracket
7. Wrench for workhead
8. Toothrest Centering Gauge
9. Adjustable Tailstock Support Unit
10. Spanner for Grinding Wheel
11. Leveling Blocks
12. Standard Arbor
13. Screw Drive
14. Set of wrenches
15. Double-end spanner
16. Set of (4) Index plates for Spiral Lead Mechanism 0, 8, 10, & 12 divisions
17. Tool box
18. Oil bottle

Optional Attachments



▼ Grinding wheel flange for mounting grinding wheel with 1/2" hole. No. 5

▲ Large cutter radius grinding attachment. No. 01



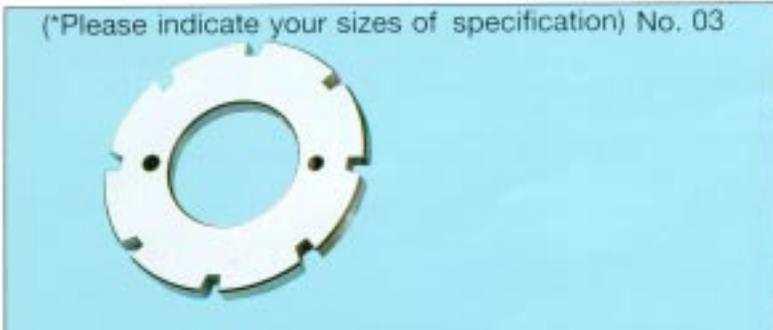
▲ Spring-loaded Index Pawl for Workhead Index plates. No. 06

▼ Additional straight cylindrical collets.

(*Please indicate your sizes of specification) NO. 07

▲ Four-inch universal six-jaw chuck for workhead. No. 02

▼ Additional index plates for spiral lead indexing unit. (*Please indicate your sizes of specification) No. 03



▲ Set of (3) taper collets: Nos. 5, 7, & 9 brown and Sharpe. No.8 (Available for U.S.A. only)



▲ Additional diamond truing tool with diamond nib.

Specifications

Capacity

Workhead:

Swing over main slide, max dia.....	12" (304mm)
Collet work dia, max.....	1.25" (31mm)
min.....	0.12" (3mm)
Lead generated by spiral lead mechanism,	
min.....	1.81" (45mm)
Length between spindle nose and tail center,	
max.....	6" (152mm)

Wheelhead:

Grinding wheel dia, max.....	4" (101mm)
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Range

Workhead:

Main slide travel.....	5.75" (146mm)
Offset slide travel, total.....	5.25" (133mm)
—front of center.....	3" (76mm)
—rear of center.....	2.25" (57mm)

Workhead angular adjustment:

Horizontal plane (turnable base).....	235°
Vertical plane, above center.....	40°
below center.....	40°

Wheelhead:

Longitudinal slide travel.....	6" (152mm)
Vertical slide travel, total.....	9.50" (241mm)
—above center.....	4.50" (114mm)
—below center.....	5" (127mm)

Cross slide travel, total.....	7.50" (190mm)
—front of center.....	3" (76mm)
—rear of center.....	4.50" (114mm)

Spindle Speeds

(+/- 0%, - 8% variation allowable)

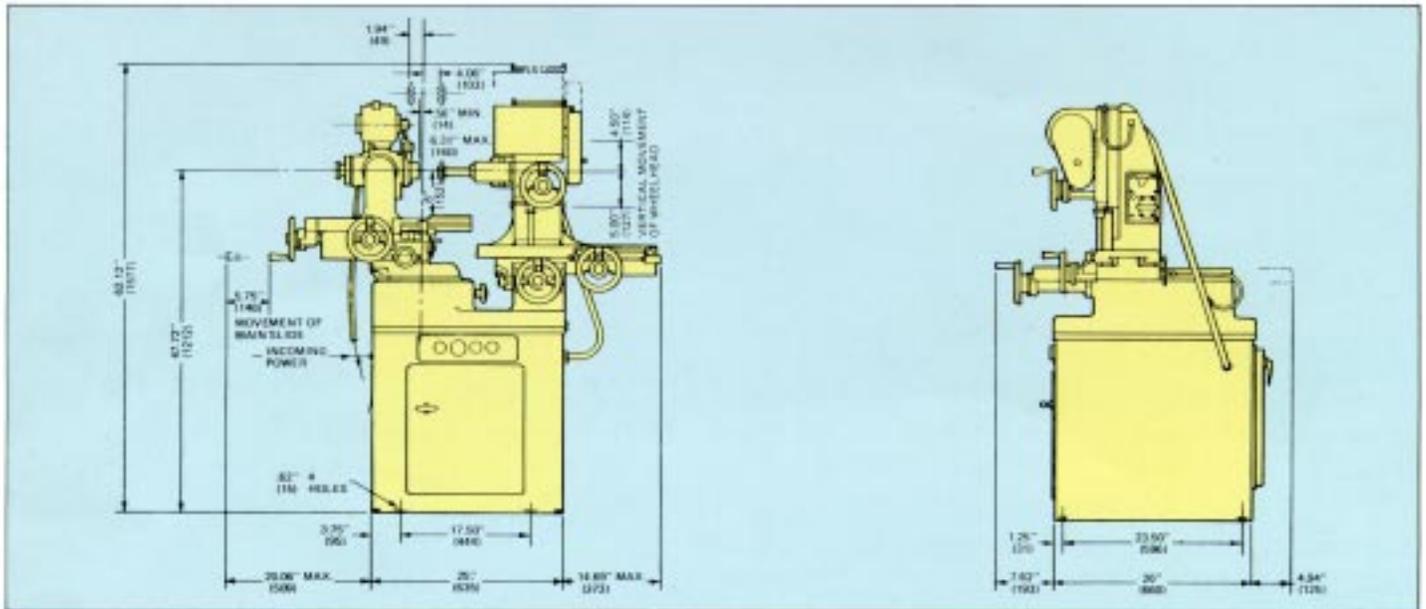
Workhead, one speed.....	436 rpm
Wheelhead, three speeds.....	4000, 5729
(motor speed @ 3600 rpm).....	and 8000 rpm
Internal grinding attachment (extra cost)	
three speeds, approx.....	16410, 23510
and 32820 rpm	

Motors, Electric

Workhead drive, AC.....	includes reverse 1/4 hp (.186 kilowatts)
Wheelhead drive, AC.....	1/2 hp (.373 kilowatts)

Floor Space and Weight

Area of base only.....	25" x 26" (635mm x 660mm)
Area required for machine (including swivel and overtravel movements).....	60" x 67" (1524mm x 1701mm)
Height from floor to center of workhead spindle.....	47.72" (1212mm)
Height, overall with wheelhead raised.....	62.12" (1577mm)
Net weight (including motors and controls).....	1525 lbs (691 kilograms)



MONASET CM- 2 Tool Samples

Here are a few samples of tools that the CM-2 is capable of running.

