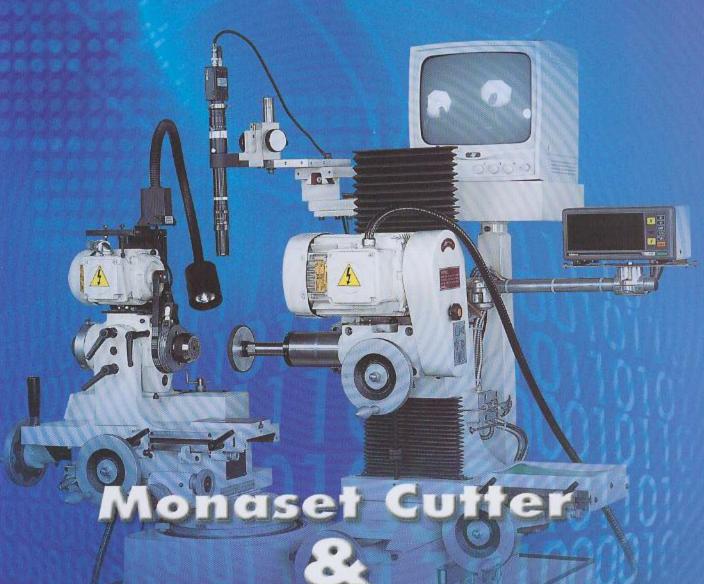


# MONASET Cutter Grinder



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Sales +1.480.991.9445





## MONASET

#### **Proven Features for Quality Grinding.**

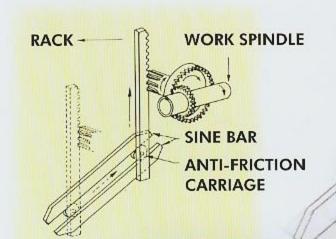
We looked at our successful Monaset grinder very closely before we came up with the engineering refinements which, when combined with its field concepts, make it an even better tool for sharpening, reconditioning or making small cutters from solid stock.

Here, for example, are the proven features that Monaset has - its capability for multiple grinding operations at a single chucking of the workpiece. This saves set-up tme and assures excellent concentricity.

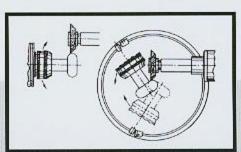
Monaset still maintains its versatility for generating straight or tapered, right- or left-hand and infinitely variable leads from a simple built-in lead mechanism.

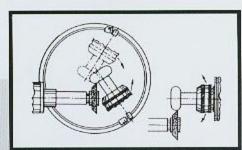
Turntable mounting of the entire workhead slide assembly, adjustable through 235 degrees in the horizontal plane, has proven to be a real asset when grinding radii.

Workhead that is adjustable on separate main slide, with dual handwheel control, has proven to be a boon for set-ups.



▲ Spiral mechanism generates infinitely variable leads.





#### millustration

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

### CM-A



#### **LINEAR SCALE GRADUATION**

 $X \cdot Y \text{ AXIS} : 5 \mu \text{ m} (1 \mu \text{ m optional})$ 

**■ ROTATION GRADUATION** 

Accessories Features

The CM-A Series is equipped with a linear scale and digital readout systems on the X, Y and A axes. The High Precision Camera Device (C.C.D.) provides maximum operational convenience, accurate positioning, increased efficiency and allows for on-line quality control.

The machine features many versatile functions. It is ideal for precision grinding and regrinding for angles, arcs and profiles especially for small cutters.



#### Standard Equipment

- 1. Wheelhead Toothrest Assembly with Extension Bar
- 2. Grinding Wheel Guards with Extension Bar
- 3. Front Stock Support
- Straight Cylindrical Collets: (Please select 'A' or 'B')
  - (A) Metric Sizes:
  - 3, 5, 6, 8, 10, 12, 16, 20, 25 & 32 mm.
  - (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\*.
  - Also including set of 3 taper collets:
  - No. 2, 3, 4 morse taper.
- 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 x 2
- 11. Levelling Blocks x 4
- 12. Standard Arbor
- 13. Screw Drive x 2
- 14. Set of Wrenches
- 15. Double-end Spanner
- Set of (4) Index Plates for Spiral Lead Mechanism 0, 8, 10 & 12 Divisions.
- 17. Tool Box
- 18. Oil Bottle
- Grinding Wheel (one each of straight, flaring cup and dish shape)

- 20. Diamond dresser
- 21. Spring-loaded index pawl for workhead
- 22. 1/2' wheel flange and spanner
- 23. Grinding attachment for large face milling cutter
- 24. 4' six-jaw chuck for workhead
- 25. Wheel flange with 2 collets for internal grinding
- Wet grinding attachment with water proof equipment

#### Optional Accessories

- 1. B&S specifications: tapered collets no. 5, 7, 9.
- Frequency inverter (varies with motor horsepower)
- 3. Grinding wheel spindle motor (1 HP, 2 HP)
- 4. Special index plate (as specified)
- 5. Dust collector attachment



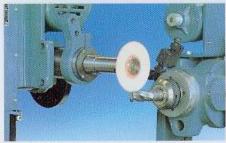
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▲ 1. Screw Slot Surface Grinding

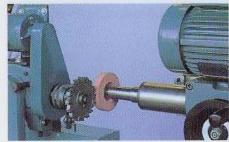


▲ 2. Screw Angular Grinding



▲ 3. Milling Cutter End Grinding ▲ 4. Grinding Outer Diameter





▲ 5. Side Milling Cutter Grinding ▲ 6. Formed Milling Cutter Grinding ▲ 7. Centering Device







8. Arc Grinding



▲ 9. Vertical Milling Cutter Grinding ▲ 10. Drill Bit Grinding





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#### **Specifications**

#### Capacity

#### Workhead:

Swing over main slide, max. diam	304mm
Collet work diam., max	_ 32mm
min	3m
Lead generated by spiral lead mechanism, min	_ 0~45°
Length between spindle nose and tail center, max.	_152mm
Wheelhead:	
Grinding wheel diam may	100Ømm

#### Motors, Electric

Workhead drive, AC	1/4HP
Wheelhead drive, AC	1/2HP
Floor Space and Weight	
Area of base only	635mm x 660mm
	1524mm x 1701mm
(including swivel and overtravel m	ovements)
Height, overall with wheelhead rai	ised 1577mm

Net weight (including motors and controls)\_\_\_. 691kg

#### Range

#### Workhead:

Workhead:	
Main slide travel	146mm
Offset slide travel, total	
- front of center	76mm
- rear of center	57mm
Workhead angular adjustment:	- 0
Horizontal plane (turntable base)	235°
Vertical plane, above center	40°
Wheelhead:	
Longitudinal slide travel	152mm
Vertical slide travel, total	241mm
- above center	114mm
- below center	127mm
Cross slide travel, total	190mm
- front of center	
- rear of center	114mm
Spindle Speeds:	
(0%, -8% variation allowed)	
Workhead, one speed	436mm
Wheelhead, three speeds 40000,5	729,8000rpm

#### **Dimension**

