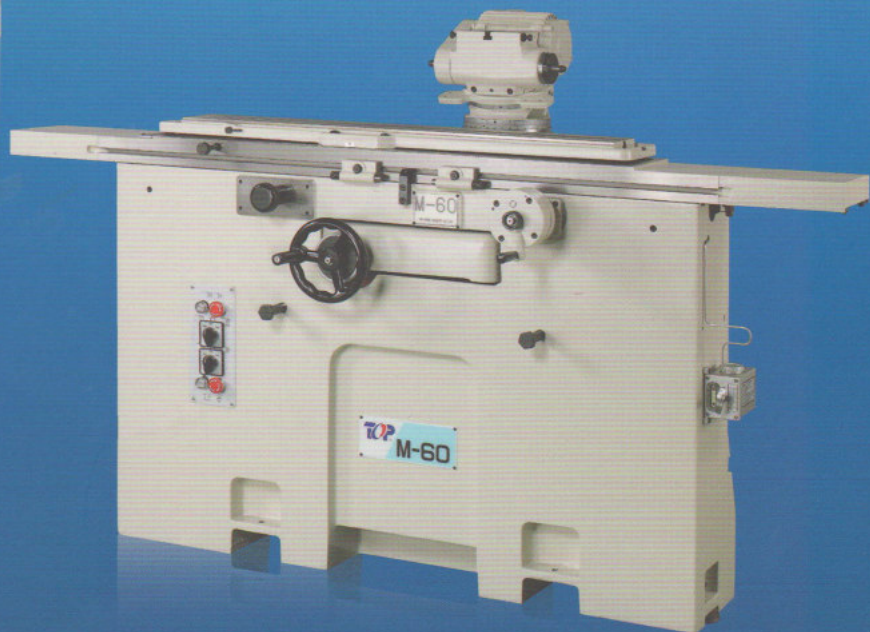




TOP WORK
ISO 9001 · CE

UNIVERSAL CUTTER & TOOL GRINDER

M-40 · M-60



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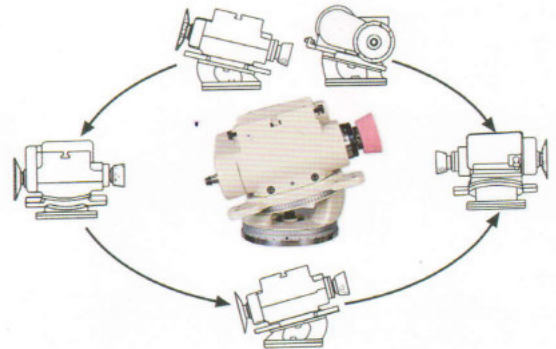
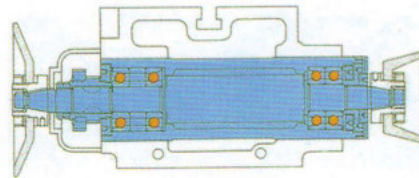
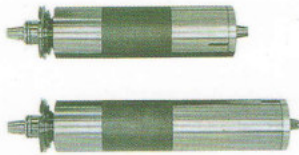
UNIVERSAL CUTTER & TOOL GRINDER



Inclination of Wheelhead

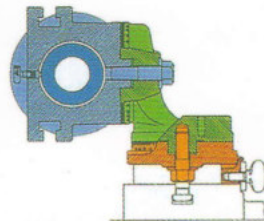
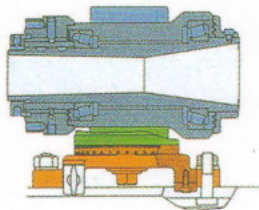
The wheelhead can easily tilt up to ± 15 degrees, with a 360-degree swivel on the horizontal plane. The wheelhead can grind any angle as the operator request.

Two pairs of angular contact ball is designed to supported the spindle, bearing and tighten by nuts. The inner of wheel spindle has greased with lubricant and therefore doesn't additional lubricant is needed.



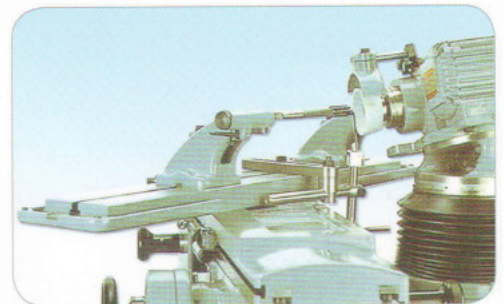
Universal Workhead

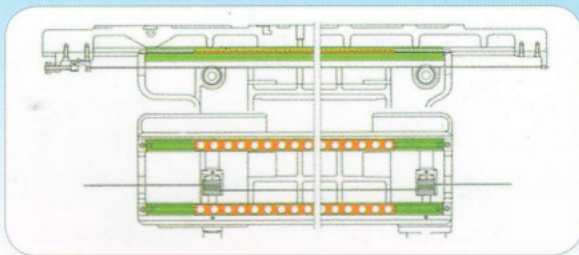
The workhead can rotate and adjust accurately in any angle, at either horizontal or vertical position. Spindle had taper at both ends, NT#50 (BT#50) and MT#5. That could increase working efficiency by various collets.



Working table

The working table can rotate 120 degrees, with ± 60 -degrees graduated scale attached. At the same time, the workhead can rotate 360 degrees to grind various cutting tool.





Precise ball groove of conformation

The machine apply precise ball groove which has special alloy steel. The working table is driven by roll type of steel cable. That improves the work efficiency for operators.



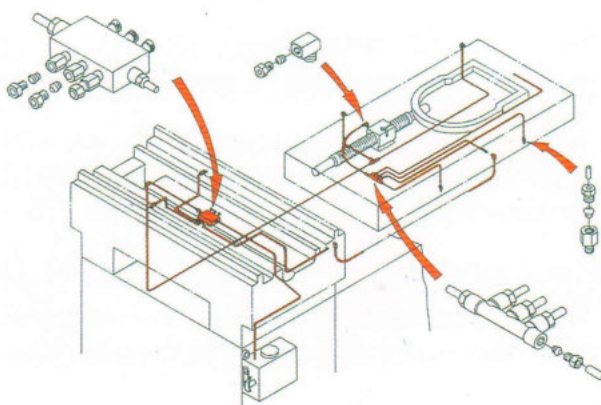
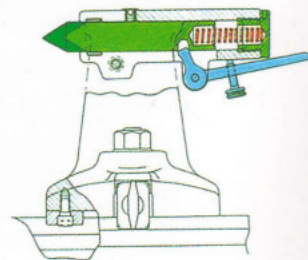
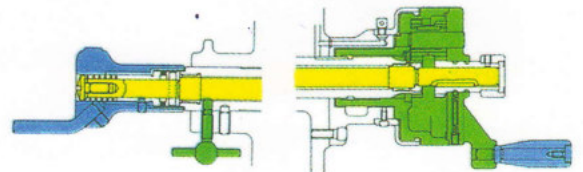
Clutch

The feed of working table can control at various speed, both at low and high. Working table of M-40 grinder has feed knob on both sides; while the clutch handle on the right hand side controls at lower speed, to prevent the interruption of its precision.



Tailstock

There are two tailstocks: one is fixed by bolt, while another one is fixed by spring pressure. The combination of tailstock and workhead works very well at steadily holding the workpiece, and achieve the best grinding result.



Centralized lubrication

M-40 machine has centralized lubrication system that ensures the great supply of lubricant to every part evenly. With such lubrication system, it ensures the machine to stay in great condition, and moreover it extends the durable life of the machine.

UNIVERSAL CUTTER & TOOL GRINDER



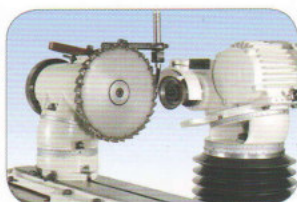
NO.1 Radius Grinding Attachment (NO. 01)

1. Peak Power of motor :0.2KW (1/4 HP)
2. Holder :MT#5 , Clamping range of tool diameter:Φ3~Φ32mm
3. Grindable range of arc radius:1.5mm~16mm
4. Suitable for re-grinding radius of ball, and end radius of ball endmill.



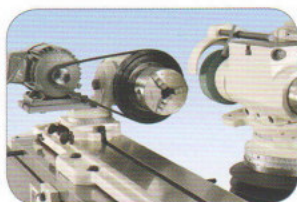
NO.2 Radius Grinding Attachment (NO. 02)

1. Holder :NT50 (BT50)
2. Max. Tool diameter: Φ300mm
3. Suitable for re-grinding side cutter, face mill and end radius.



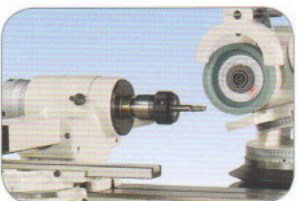
NO.3 Face Mill Grinding Attachment

1. Grinding range of tool diameter:Φ170mm~Φ457mm
2. Inclination of workhead : ±15°
3. Rotary horizontal angle : ±90°
4. Suitable for re-grinding large face cutter or large cutting tool.



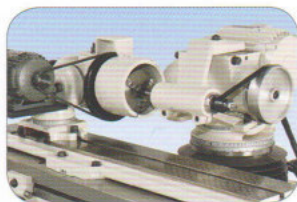
NO.4 Cylindrical Grinding Attachment

1. Peak Power of motor :0.2KW(1/4 HP)
2. Three-jaw chuck: 4"
3. Clamping range of tool diameter:Φ3~Φ90mm
4. Suitable for re-grinding surface of cylinder and surface of taper.



NO.5 Helical Grinding Attachment

1. Grindable range of helical angle:40°
2. Holder :MT#4 , Clamping range of tool diameter : Φ3~Φ25mm
3. The inner workhead equally distribute 24 teethes for indexing device.
4. Suitable for re-grinding mill, hob, and drill of helical flute.



NO.6 Internal Grinding Attachment

1. Must be assembled with cylindrical grinding attachment that could grind taper of the internal hole.
2. The internal attachment is driven by wheel spindle.
3. Wheel spindle speed :20000rpm
4. Internal grinding wheel diameter : Φ3 、 Φ6 ; Length : 40mm 、 75mm

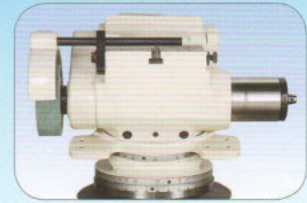


NO.7 Workhead Indexing Attachment (24 T) (Excluded workhead and collet)

1. Standard issued attachment is a 24 equally distributed teethes indexing plate.
2. Available for customize different numbered teeth of indexing plate.

NO.8 Extended Grinding Wheel Spindle

1. Length of extended grinding wheel spindle: extension 75mm
2. Suitable for re-grinding small and special tool.



NO.9 Surface Grinding Attachment

1. Width of Vise :100mm
2. Depth of vise :25mm
3. Rotary horizontal angle:360°
4. Suitable for re-grinding horizontal surface.



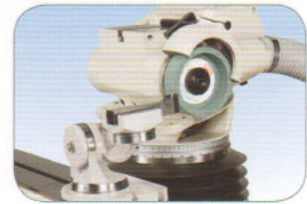
NO.10 Drill Pointing Attachment

1. Clamping range of six-jaw chuck: 3mm~90 mm
2. Suitable for re-grinding drill point, step drill, center drill, chamfer mill, relief angle of 3 or 4 flutes' taps.



NO.11 Lathe & Planer Tool Grinding Attachment

1. Clamping range of tool:10mm~38mm
2. Suitable for re-grinding lathe and planer



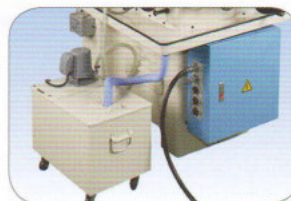
NO.12 Spring Collet Set

1. Clamping range of tool diameter : $\Phi 6 \sim \Phi 25$ mm
2. Holder :MT#5



NO.13 Wet Grinding Attachment with Waterproof Equipment

1. Peak Power of Motor: 0.1KW(1/8HP)
2. Suitable for cooling tool while it grinds.



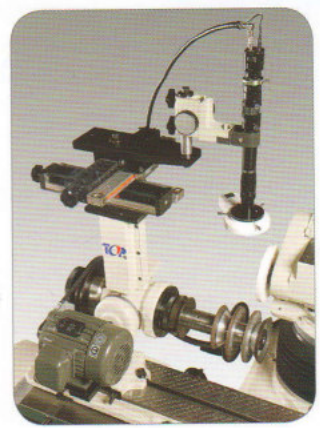
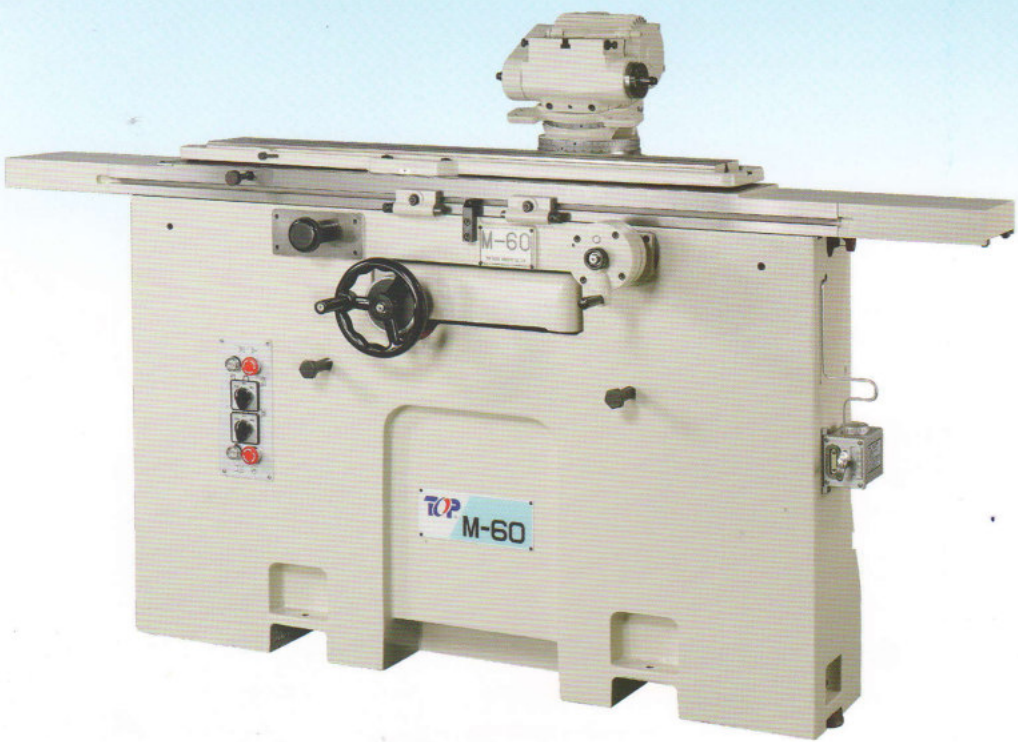
NO.14 Dust Collector

1. Peak Power of Motor: 0.4KW(1/2HP)
2. It collect chips with dusts to keep working environment clean.



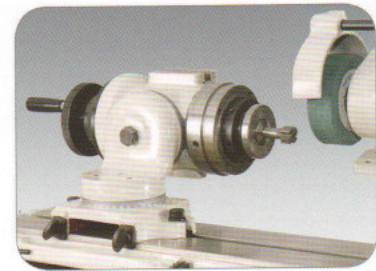
NEW

UNIVERSAL CUTTER M-60 & TOOL GRINDER



• CCD Measurement (Optional)

**SMART
OPERATION**
Optional Attachment



• 5C Collector (Optional)



Standard Accessories

1. Workhead
2. Left-hand tailstock
3. Right-hand tailstock
4. Diamond dresser holder
5. Wheel guard
6. Wheel guard
7. Wheel guard
8. Wheel guard
9. Wheel guard holder (long)
10. Wheel guard holder(short)
11. Universal tooth rest plate and blade holder extension
12. Center gauge
13. Collet wrench
14. Plain tooth rest holder (with offset blade)
15. Ejector rod
16. T-wrench for grinding wheel sleeve
17. Sleeve extracting bar
18. Pin wrench
19. Micrometer adjustable toothrest
20. Leveling block
21. Touch-up paint
22. Plain tooth rest holder (with offset blade)
23. Reducing collet B&S No.12 x No.10 (or MT No. 5 x No.4)
24. Reducing collet B&S No.12 x No.9 (or MT No. 5 x No.3)
25. Reducing collet B&S No.12 x No.7 (or MT No. 5 x No.2)
26. Grinding wheel sleeves (5 set)
27. Grinding wheel (6" x 3/4" x 1 1/4")
28. Grinding wheel (6" x 1/2" x 1 1/4")
29. Grinding wheel (6" x 1/2" x 1 1/4")
30. Grinding wheel (3" 1/2" x 1 1/2" x 1 1/4")
31. Grinding wheel (4" x 1/16" x 1/2")
32. Grinding wheel (5" x 1 1/2" x 1 1/4")
33. Grinding wheel (3" x 1/2" x 1/2")
34. Double end wrench
35. Nut wrench
36. Screw Driver
37. Nut wrench
38. Allen type wrench
39. Spacer for 1/8" dia. Grinding wheel
40. Center for workhead spindle B & S No.7 (or MT No.2)
41. 4" spindle extension
42. 4" extension wheel sleeve and collar
43. Belt for spindle drive (Poly-flex belt)
44. Draw-in bolt for workhead and spacer
45. Tool cabinet
46. Extension and spacer s of slit-saw and side-mill cutters.

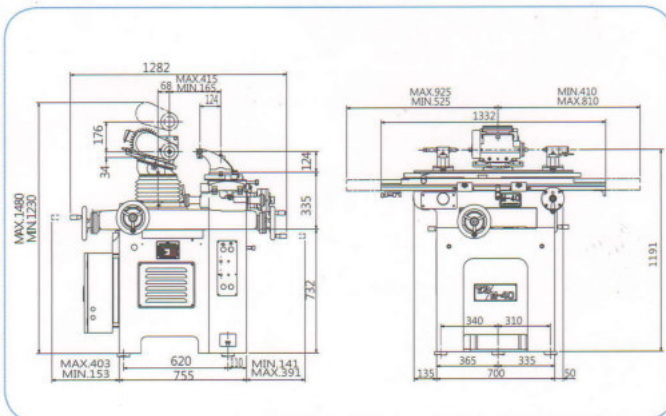


Machine Specifications

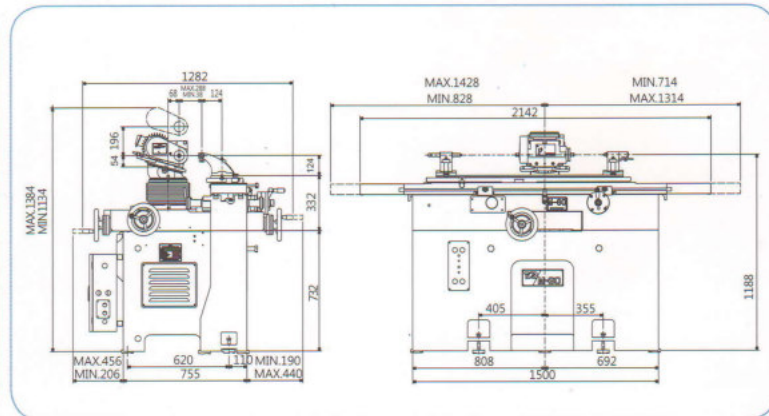
		M-40	M-60
Longitudinal movement of table		400 mm	600 mm
Distance between center		700 mm	900 mm
Cross movement of saddle		250 mm	250 mm
Vertical movement of wheelhead		250 mm	250 mm
Distance between tailstock and workhead		580 mm	780 mm
Workhead taper		MT#5	
		NT50 (BT 50 Option)	
Table	T-Slot	15 mm (+0.05 mm ~ +0.10 mm)	
	Working range of table	135 x 940 mm	135 x 1140 mm
	Grinding spindle speed	2600, 3700, 6200 rpm	
	Peak Power	1.5 HP (1.1 kw)	
	Rotative angle of table	± 60°	± 60°
	JOG adjustment of table	± 10°	± 7°
	Inclination of wheelhead	± 15°	
	Rotative angle of wheelhead	360°	
	Distance between center of spindle and table	Max. 300 mm / Min. 50 mm	
	Distance between center of spindle and T-slot	Max. 415 mm / Min. 165 mm	
Machine	L x W x H	1735 x 1550 x 1480 mm	2740 x 1550 x 1384 mm
	Weight	1160 kg	1260 kg

Dimensions

M-40



M-60



All specifications are subject to change without prior notice.



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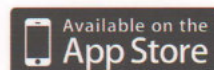
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