



UM 320F

Universal Milling machine

Working Table: 320mmx750mm

X/Y/Z Travel stroke: 400/200/360mm



UM 600F

Universal Milling machine

Working Table: 500mmx900mm

X/Y/Z Travel stroke: 600/480/360mm

High Light

Standard Accessories

Specification

Optional Accessories

High Light

1. Mechanical clutch driven on X/Y/Z axes with the inverter.
2. Slide ways are hardened and precision ground on the column & vertical table surface.
3. T-slot from the Vertical table is 14H7 standard with hardened and grind surface, customer is easy to mounting the precision vice for the fine cutting work as smoothly.
4. Machine base, knee and table are made by MEEHANITE cast iron construction.
5. Brake system and pre-load tension seat build with Z axis movement.
6. Vertical Milling head can be rotating +/-90° on both right & left side.
7. Quill stroke is 120mm, to working the handle located on right side of spindle head.
8. UM-600F= The X, Y axes are dovetail way, Z axis is square way.
9. UM-320F= The X, Y, Z axes are dovetail way.
10. The X, Y axis are transmitted thru precision ball screw. (Z axis ball screw as optional)
11. The operating control panel with radial-arm type, which will be more convenient for the operator to work the machine at right side.
12. We can install VS Geared box for UM-600F as optional. (48-3800rpm)
13. Can be installing with Hydraulic clamping kit (DIN69871) & air power drawbar system, DRO system and auto lube system as optional.

Specification

UNIT: MM, 50Hz

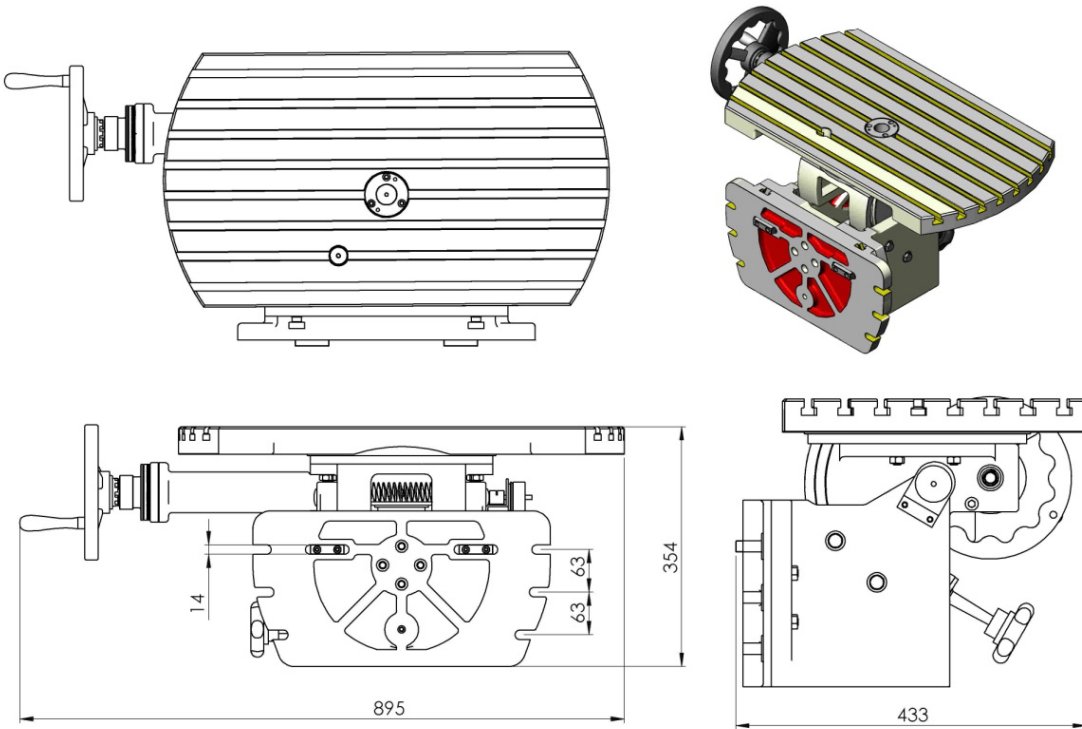
ITEMS	Description	UM-320F	UM-600F
TABLE	Table size	320 x 750	500 x 900
	Vertical table size	220 x 830	250 x 1200
	T-slots, Work Table	14 x 63 / 5no.	14 x 63 / 7no.
	T-slots, Vertical Table	14 x 126 / 2no.	14 x 63 / 3no.
	Table load capacity (kg)	285	360
TRAVEL	X axis (Manual/Auto)	400 /360	600 /580
	Y axis (Manual/Auto)	200/ 185	480 /460
	Z axis (Manual/Auto)	360 / 330	360 /345
VERTICAL SPINDLE	Spindle nose	NT-40 (ISO-40)	NT-40 (ISO-40)
	Range of Spindle speed	12 no. 50 – 2000rpm	18no. 40 – 2000rpm
	Spindle travel	120	120
	Swiveling angle	+/-90°	+/-90°
	Spindle nose to Table	75 – 420	58 – 460
	Center to Column	Min. 120	Min. 112
	Center to Column	Max. 520	Max. 590
HORIZONTAL SPINDLE	Spindle Nose	NT-40 (ISO-40)	NT-40 (ISO-40)
	Range of Spindle speed	12 no. 50 – 2000rpm	18no. 40 – 2000rpm
	Center to Table surface	105 – 445	152 – 492
FEED	X/Y/Z axes (mm/min)	8 – 450	10 – 450
RAPID FEED	X/Y/Z axes (mm/min.)	700	700
MOTOR	Motor for Ver./Hor. (kw)	2.2	3.75
	Table feed (X/Y/Z) (kw)	0.375	0.75
	Coolant Pump (kw)	0.09	0.09
SIZE	Machine dimension (cm)	120 x 130 x 180	140 x 160 x 182
	Net Weight (kg)	1380	1820
	Gross Weight (kg)	1460	1920

- We reserve all right of descriptions and specifications. All subject to be changed without notice.

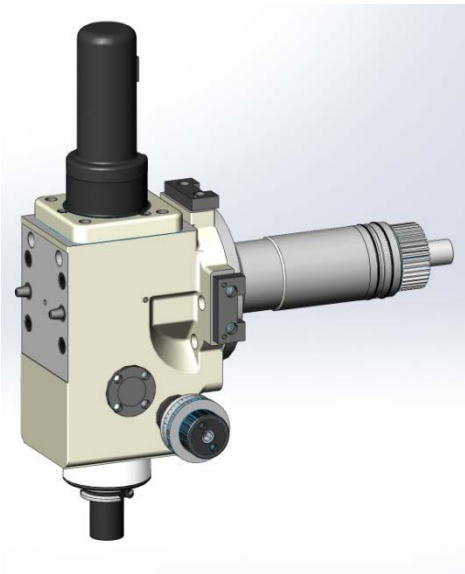
Standard Accessories

1. Completely control panel assembly.
2. Mechanical clutch system and hands on X/Y & Z axes.
3. Precision Ball screw on X/Y axes.
4. Geared transmission for the spindle speed (Taiwan made).
5. E-Stop switch build on right side of column.
6. 3 pcs of reducing sleeves (MT-1, MT-2, MT-3)
7. One-piece drawbar (ISO40) for vertical/horizontal Spindle.
8. Outer arbor support for Hor. Milling w/1pce of long cutter arbor $\Phi 27\text{mm}$.
9. Halogen Work lamp.
10. One-shot lubrication system.
11. Safety handle wheel on X/Y/Z axis.
12. Coolant system.
13. Telescoping dust shield cover for X & Z axis.
14. Spindle guard with interlock switch.
15. Levelling pad & bolts.
16. Tools & tool box.
17. Manual and Spare Parts List

1. Swivel table (ST-3)



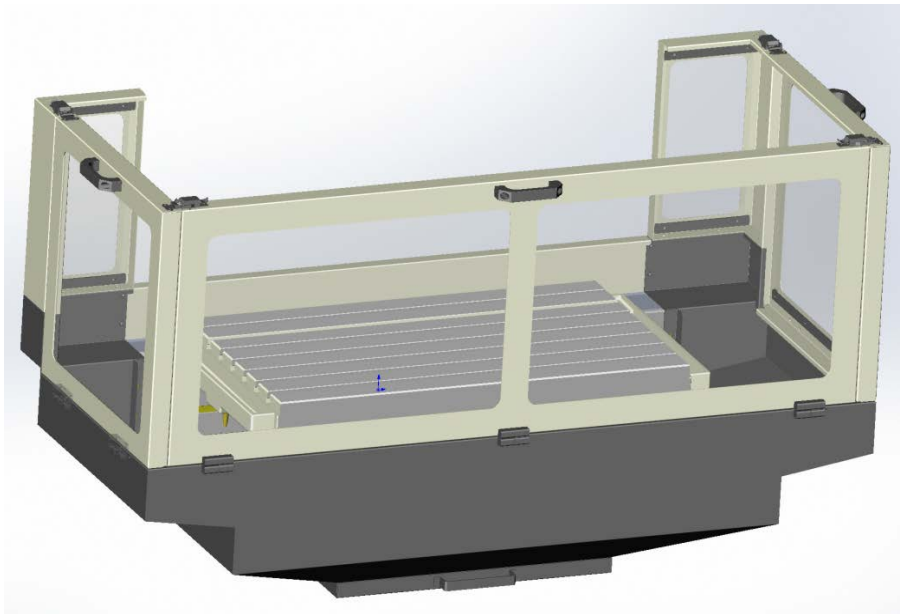
2. Hydraulic clamping kit (DIN40/DIN69871)



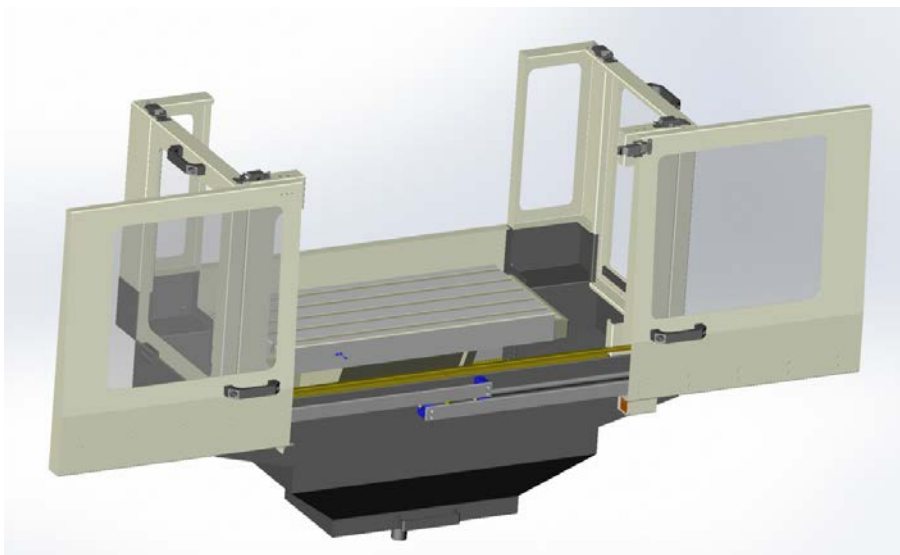
3. LSG-400D Safety guard for Horizontal/Vertical spindle protecting.



4. G1 Type table guard assembly



5. G2 type table guard assembly (with the CE Door switch)



6. TUV-CE license with company information.

7. DRO system (SINO/ EASSON/ FAGOR/ MITUTOYO/ HEIDENHAIN)

8. Long cutter arbors for Horizontal milling ($\Phi 16, \Phi 22, \Phi 32$ mm on each)
9. Auto lubrication system.
10. SIEMENS switch (CE) on Electrical cabinet.
11. Stainless telescopic cover for Z axis upper side /downside.
12. Chromium-plate safety hand wheels on X/Y/Z axis.
13. Air power drawbar system (ISO40/M16) for Vertical spindle head.
14. VS Geared box for Vertical/Horizontal spindle speed on UM-600V (48-3,800rpm)
15. Collet chuck with 7 pcs collets ($\emptyset 6, 8, 10, 12, 16, 20, 25$ mm)
16. LED Work lamp.