



UM 320V

Universal Milling machine

Working Table: 320mmx750mm

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



UM 340V

Universal Milling machine

Working Table: 400mmx800mm

X/Y/Z Travel stroke: 400/300/380mm



DM 560V

Universal Milling machine

Working Table: 500mmx900mm

X/Y/Z Travel stroke: 560/420/395mm



UM 600V

Universal Milling machine

Working Table: 500mmx900mm

X/Y/Z Travel stroke: 600/480/390mm

High Light

Specification

Standard

Accessorie

Optional

Accessorie

High Light

1. The feed control along the X / Y / Z axes is carried out through a gear motor (ratio 1: 7.5) and an inverter.
2. Slide ways are hardened and precision ground on the column & vertical table surface.
3. T-slot from the Vertical table is 14H7 class with hardened and grind surface, customer is easy to mounting the precision vice for the fine cutting work as smoothly.
4. Vertical Milling head can be rotating $\pm 90^\circ$ on both right & left side.
5. Quill stroke is 120mm, to working the handle located on right side of head stock.
6. UM-600V/ DM-560V = The X, Y axes are dovetail way, Z axis is square way.
7. UM-320V/340V= The X, Y, Z axes are dovetail way.
8. The X, Y, Z axis are transmitted by precision ball screw.
9. X/Y Axes with Clutch System, Hand wheel movement more easily.
10. The operating control panel with radial arm type, which will be more convenient for the operator to work the machine at right side.
11. Joystick switch for X/Y & Z axes.
12. We can install VS Geared box for UM-600V as optional. (48-3800rpm)
13. For UM320V/340V/600V : Can be installed with Hydraulic clamping kit (DIN69871) or air power drawbar system, DRO system and auto lube system as optional.
14. For DM-560V : Hydraulic clamping Kit (DIN69871) on Vertical and Horizontal Spindle are standard

Specification

UNIT: MM, 50Hz

| ITEMS | Description | UM-320V | UM-340V |
|---------------------------|---------------------------|---------------------|----------------------|
| TABLE | Table size | 320 x 750 | 400 x 800 |
| | Vertical table size | 220 x 830 | 220 x 830 |
| | T-slots, Work Table | 14 x 63 / 5no. | 14 x 63 / 6no. |
| | T-slots, Vertical Table | 14 x 126 / 2no. | 14 x 126 / 2no. |
| | Table load capacity (kg) | 285 | 285 |
| TRAVEL | X axis | 400/360 | 400/360 |
| | Y axis | 200/185 | 300/280 |
| | Z axis | 360/340 | 380/365 |
| VERTICAL SPINDLE | Spindle nose | NT-40 (ISO-40) | NT-40 (ISO-40) |
| | Range of Spindle speed | 12 no. 50 – 2000rpm | 12no. 50 – 2000rpm |
| | Spindle travel | 120 | 120 |
| | Swiveling angle | +/-90° | +/-90° |
| | Spindle nose to Table | 75 – 420 | 175 – 575 |
| | Center to Column | Min. 120 | Min. 135 |
| | Center to Column | Max. 520 | Max. 635 |
| HORIZONTAL SPINDLE | Spindle Nose | NT-40 (ISO-40) | NT-40 (ISO-40) |
| | Range of Spindle speed | 12 no. 50 – 2000rpm | 12 no. 50 – 2000rpm |
| | Center to Table surface | 105 – 445 | 128 – 513 |
| FEED | X/Y/Z axes (mm/min) | X/Y:8 – 650; Z:450 | X/Y:8 – 650; Z : 450 |
| RAPID FEED | X/Y/Z axes (mm/min.) | X/Y:1000 ; Z :600 | X/Y: 1000; Z: 600 |
| MOTOR | Motor for Ver./Hor. (kw) | 2.2 | 2.2 |
| | Table feed (X/Y/Z) (kw) | 0.375 | 0.375 |
| | Coolant Pump (kw) | 0.09 | 0.09 |
| SIZE | Machine dimension (cm) | 118 x125x 178 | 155x180x220 |
| | Net Weight (kg) | 1380 | 1550 |
| | Gross Weight (kg) | 1460 | 1650 |

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

| ITEMS | Description | DM-560V | UM-600V |
|---------------------------|---------------------------|---------------------|----------------------|
| TABLE | Table size | 500 x 900 | 500 x 900 |
| | Vertical table size | 300 x 960 | 250 x 1200 |
| | T-slots, Work Table | 14 x 63 / 7no. | 14 x 63 / 7no. |
| | T-slots, Vertical Table | 14 x 63 / 4no. | 14 x 63 / 3no. |
| | Table load capacity (kg) | 385 | 360 |
| TRAVEL | X axis | 560 | 600/580 |
| | Y axis | 420 | 480/460 |
| | Z axis | 395 | 390/380 |
| VERTICAL SPINDLE | Spindle nose | DIN-40 (DIN69871) | NT-40 (ISO-40) |
| | Range of Spindle speed | 4 no. 65 – 2600rpm | 18no. 40 – 2000rpm |
| | Spindle travel | 80 | 120 |
| | Swiveling angle | +/-90° | +/-90° |
| | Spindle nose to Table | 70 – 450 | 58 – 460 |
| | Center to Column | Min. 120 | Min. 110 |
| | Center to Column | Max. 540 | Max. 560 |
| HORIZONTAL SPINDLE | Spindle Nose | DIN-40 (DIN69871) | NT-40 (ISO-40) |
| | Range of Spindle speed | 4 no. 65 – 2600rpm | 18no. 40 – 2000rpm |
| | Center to Table surface | 105 – 520 | 152 – 580 |
| FEED | X/Y/Z axes (mm/min) | X/Y:10 – 650; Z:600 | X/Y:10 – 650 ; Z:450 |
| RAPID FEED | X/Y/Z axes (mm/min.) | X/Y:1000; Z:600 | X/Y:1000 ; Z: 600 |
| MOTOR | Motor for Ver./Hor. (kw) | 3.75 | 3.75 |
| | Table feed (X/Y/Z) (kw) | 0.375 | 0.375 |
| | Coolant Pump (kw) | 0.09 | 0.09 |
| SIZE | Machine dimension (cm) | 138 x 160 x 186 | 140 x 160 x 182 |
| | Net Weight (kg) | 1980 | 1850 |
| | Gross Weight (kg) | 2080 | 1950 |

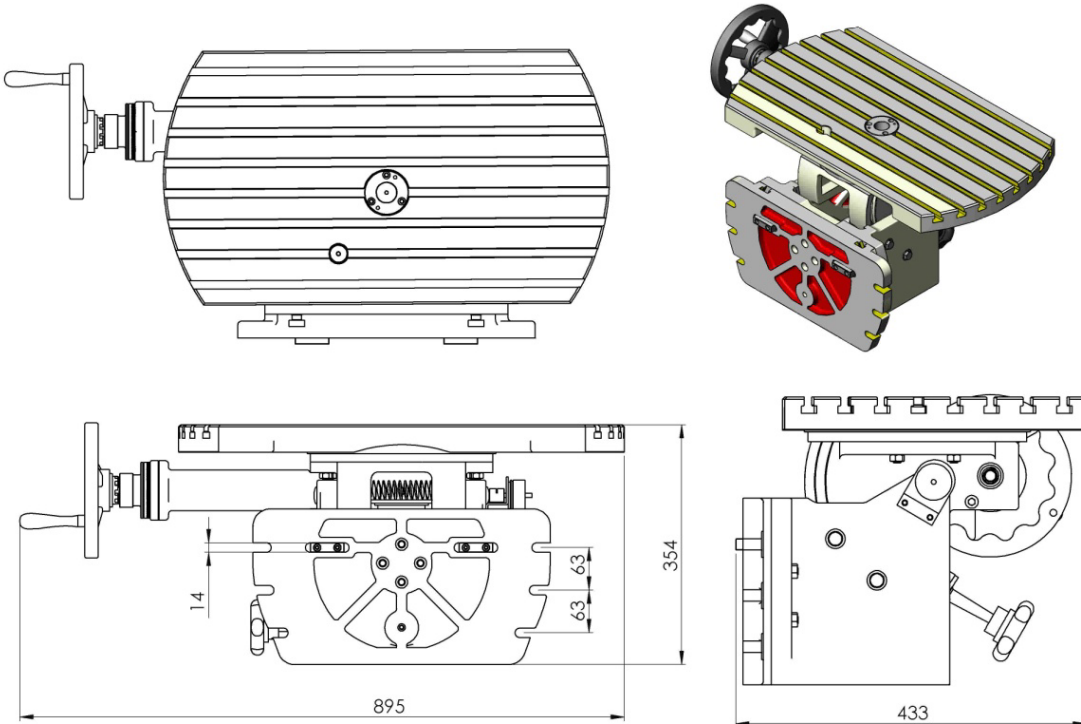
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Standard Accessories

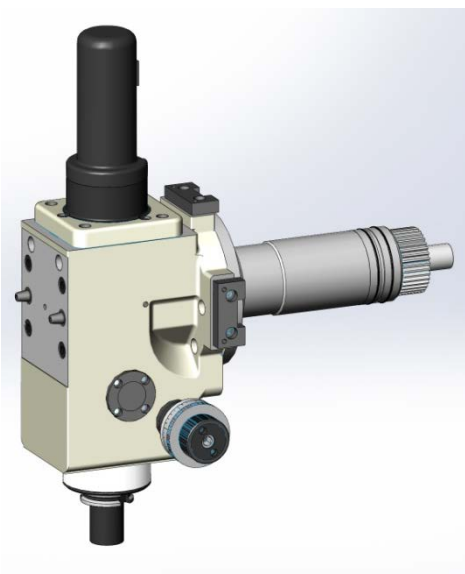
1. Completely control panel assembly.
2. Joystick on X/Y & Z axes on the control panel.
3. Geared type reducing motor (ratio 1:7.5) on each X/Y/Z axes movement (INVERTER driven)
4. Precision Ball screw on X/Y/Z axes.
5. Geared transmission for the spindle speed (Taiwan made).
6. E-Stop switch build on right side of column.
7. Brake system and pre-load tension seat build on Z axis movement.
8. 3 pcs of reducing sleeves (MT-1, MT-2, MT-3)
9. X/Y axes with Clutch System.
10. One-piece drawbar (ISO40) for vertical/horizontal Spindle.
11. Outer arbor support for Hor. Milling w/1pce of long cutter arbor $\Phi 27\text{mm}$.
12. Halogen Work lamp.
13. One-shot lubrication system.
14. Safety handle wheel on X/Y/Z axis.
15. Coolant system.
16. Telescoping dust shield cover for X & Z axis.
17. Spindle guard with interlock switch.
18. Levelling pad & bolts.
19. Tools & tool box.
20. Manual and Spare Parts List

Optional Accessories

1. Swivel table (ST-3)



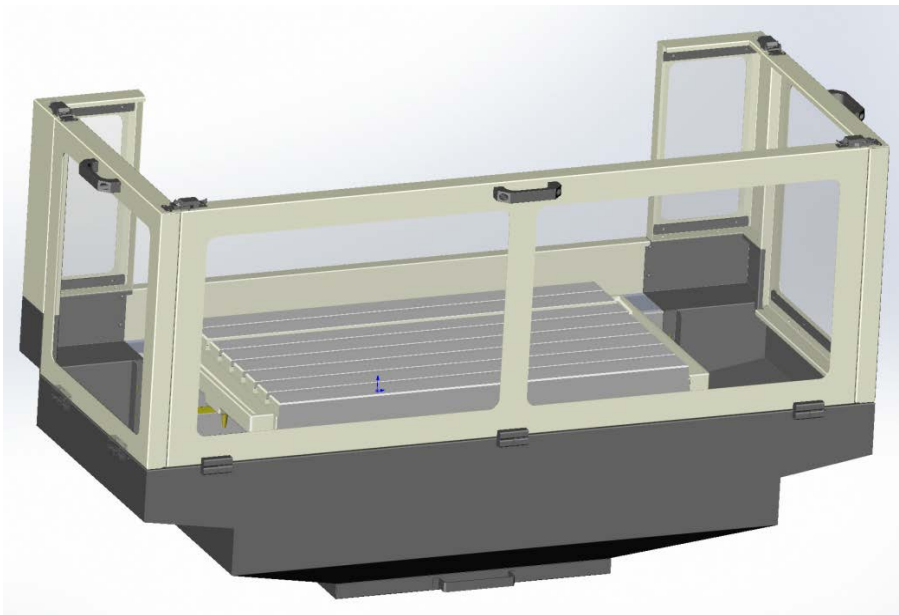
2. Hydraulic clamping kit (DIN40/DIN69871)



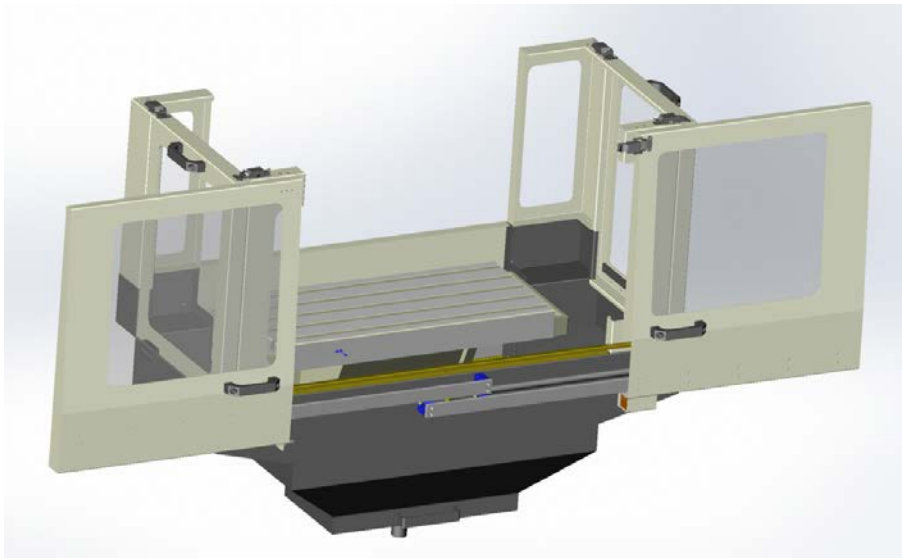
3. LSG-400D Safety guard for Horizontal/Vertical spindle protecting.



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) inside of Electrical cabinet.
11. Stainless telescopic cover for Z axis upper side.
12. Chromium-plate safety hand wheels on X/Y/Z axis.
13. Collet chuck with 7 pcs collets ($\Phi 6$, 8, 10, 12, 16, 20, 25 mm)
14. LED Work lamp.
15. Air power drawbar system (ISO40/M16) for Vertical spindle head.
16. VS Geared box for Vertical/Horizontal spindle speed on UM-600V (48-3,800rpm)
17. We are including MPG hand wheel for X/Y/Z axes.

