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DM 560CNC

CNC Universal Milling machine

Working Table: 500mmx900mm

X/Y/Z Travel stroke: 560/450/390mm

(Shown DM-560CNC with TNC620)

UM 600CNC

CNC Universal Milling machine

Working Table: 500mmx900mm

X/Y/Z Travel stroke: 600/420/390mm

(Shown UM-600CNC with 828D/PPU290)

High Light

Standard Accessories

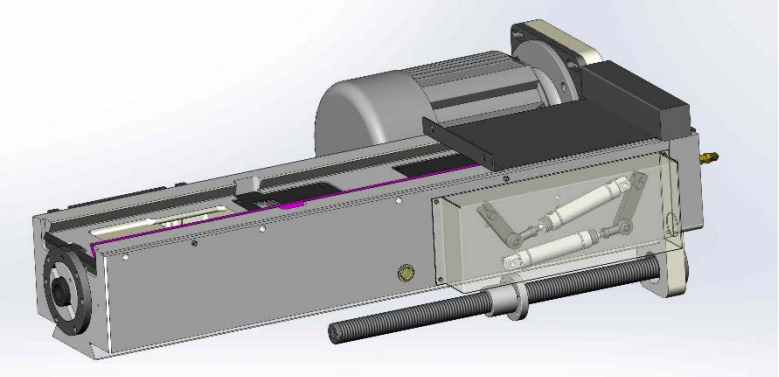
CNC Controller system

Specification

Optional Accessories

High Light

1. CNC machines are primarily used for training purpose and the manufacture of single work-piece with small space product.
2. CNC machine can process up to 4 axes simultaneously.
3. 3D is that the controller reads the specified machining program first to draw the appearance of the work piece on the screen.
4. Manual and CNC-operated, the key operated switch permits 3 different operating models as:
   Manual: Using mechanical hand wheel or the electronic wheels (MPG) with opened doors and 3 axes DRO system.
   CNC: With TNC620 or 828D contouring control.
   Set-Up: Setting up the machine for both CNC operating with opened doors by pressing a confirmation button.
5. Slide ways are hardened and precision ground on the column & vertical table surface.
6. 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.
7. Vertical Milling head can be rotating +/-90° on both right & left side.
8. Quill stroke is 120mm, to working the handle located on right side of spindle head.(UM600CNC)
9. Quill stroke is 80mm, to working the handle located on right side of spindle head. (DM560CNC).
10. UM-600CNC= The X, Y axes are dovetail way, Z axis is square way.
11. DM-560CNC= The Y axis are dovetail way, X, Z axes is square way.
12. The X, Y, Z axis are transmitted by precision ball screw (C3 class).
13. The operating control panel with radial arm type, which will be more convenient for the operator to work the machine at right side.
14. Included MPG hand wheel for X/Y/Z axes as standard.
15. DM-560CNC are installed with Hydraulic clamping kit (DIN69871) onto both Vertical/Horizontal spindle as standard.
16. DM-560CNC with 4 steps spindle speed change by the air pressure levers. (stepless speed)



17. UM-600CNC are installed with Hydraulic clamping kit (DIN69871) onto Vertical spindle as standard.
18. UM-600CNC with 5 steps spindle speed change by the air pressure levers. (stepless speed)

Specification

UNIT: MM, 50Hz

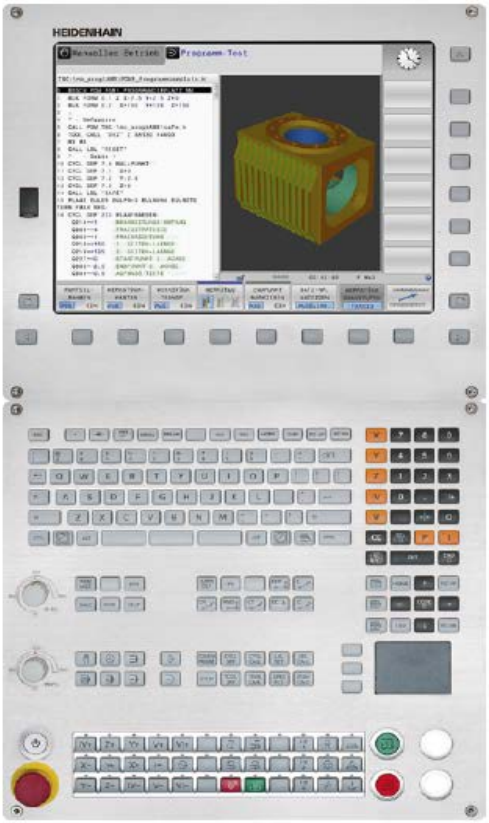
ITEMS	Description	DM-560CNC	UM-600CNC
TABLE	Table size	500 x 900	500 x 900
	Vertical table size	300 x 960	300 x 960
	T-slots, Work Table	14 x 63 / 7no.	14 x 63 / 7no.
	T-slots, Vertical Table	14 x 63 / 4no.	14 x 63 / 4no.
	Table load capacity (kg)	320	320
TRAVEL	X axis	560	600
	Y axis	450 (+200)	420
	Z axis	390	390
VERTICAL SPINDLE	Spindle nose	DIN-40 (DIN69871)	DIN-40 (DIN69871)
	Range of Spindle speed	4 no. 38 – 3800rpm	5 no. 48 – 3800rpm
	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. 38 – 3800rpm	5 no. 48 – 3800rpm
	Center to Table surface	105 – 520	152 – 580
FEED	X/Y/Z axes (mm/min)	10 – 2000	10 – 2000
RAPID FEED	X/Y/Z axes (mm/min.)	5000	5000
MOTOR	Motor for Ver./Hor. (kw)	7.5	5.5 (AC motor)
	Table feed (X/Y/Z) (kw)	2.29/2.29/3.2	1.48/1.48/2.14
	Coolant Pump (kw)	0.09	0.09
SIZE	Machine size (cm)	188 x 168 x 186	188 x 168 x 182
	Net Weight (kg)	1980	1950
	Gross Weight (kg)	2080	2050

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

Standard Accessories

1. Completely control panel assembly.
2. SIEMENS switch (CE) inside of Electrical cabinet
3. C3 Precision Ball screw on X/Y/Z axes.
4. Geared transmission for the spindle speed (Taiwan made).
5. E-Stop switch build on right side of column.
6. Brake system and pre-load tension seat biuld on Z axis movement.
7. 3 pcs of reducing sleeves (MT-1, MT-2, MT-3)
8. Collet chuck with 7 pcs collets (Ø 6, 8, 10, 12, 16, 20, 25 mm)
9. One-piece drawbar (ISO40) for horizontal Spindle. (UM600CNC only)
10. Outer arbor support for Hor. Milling w/1pce of long cutter arbor Φ27mm.
11. LED Work lamp.
12. 3 colos light
13. Automatically lubrication system.
14. Safety handle wheel on X/Y/Z axis.
15. Coolant system.
16. Telescoping dust shield cover for X & Z axis.
17. G2 type table guard assembly (with the CE Door switch).
18. Levelling pad & bolts.
19. Tools & tool box.
20. Manual and Spare Parts List

CNC Controller system



HEIDENHAIN TNC620

The TNC620 is a compact but versatile contouring control for up to live controlled axes. Thanks to its flexible operating concept-workshop-oriented programmability and its scope of feature, it's especially suited for use on universal milling, drilling and boring machines for the following:

- Series and single-part building.
- Tool making machine building.
- Research and development.
- Prototypes and pilot plants.
- Repair departments.
- Training and education facilities.

<u>Universal milling machines</u>

- Free contour programming.
- Milling cycles for complex contours.
- Fast presetting with HEDEINHAIN touch probe.

<u>Drilling and Boring machines</u>

- Cycles for drilling, boring and spindle alignment.
- Cycles for linear and circular point patterns.

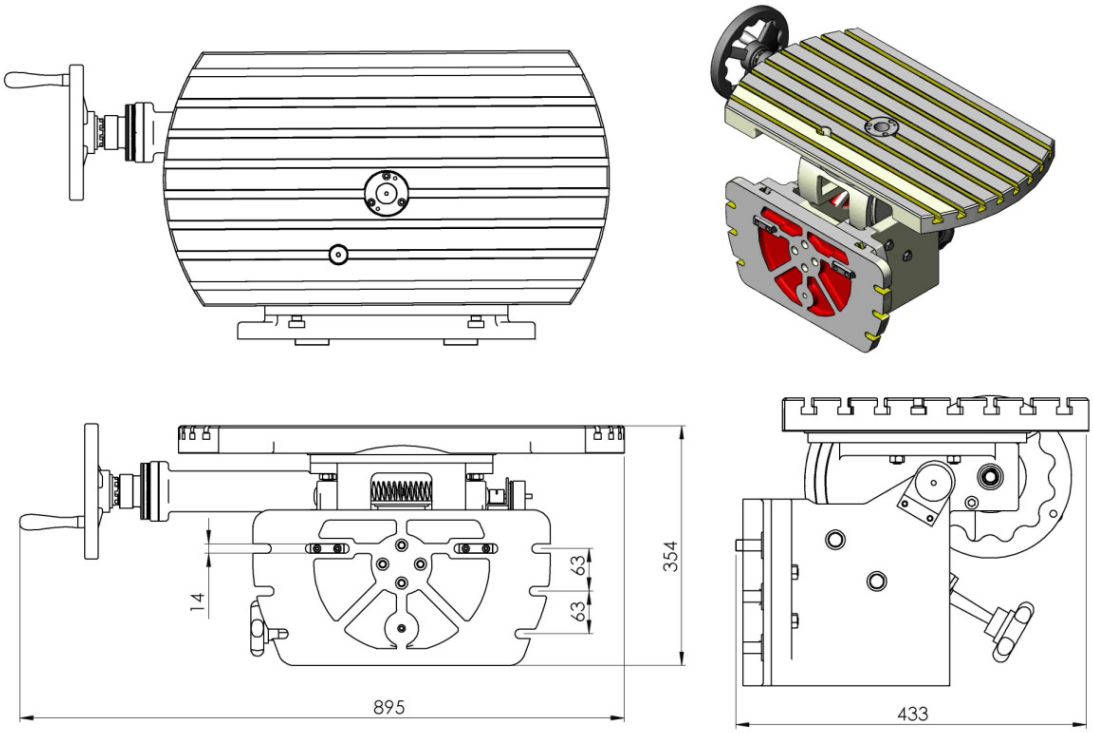
SIEMENS SINUMERIK 828D

The performance of the SINUMERIK 828D is a class of its own. Even in the compact frame size, the familiar SINUMERIK state-of-the-art technology ensure the highest possible level of precision and productivity.

- Front interfaces (IP65): RJ45 Ethernet, USB 2.0 Compact flash (CF) card.
- Panel based CNC with panel front manufactured out of die-cast magnesium.
- 10.4" color TFT display.
- 16 soft keys.
- No battery (continuous data buffering using NY-RAV technology), no fan, no hard disk.
- Full QWERTY keyboard.
- Proximity sensor / distance sensor for smart display control.

Optional Accessories

1. Swivel table (ST-3)



2. TUV-CE license with company information.
3. Long cutter arbors for Horizontal milling (Φ16, Φ22,Φ32 mm on each)
4. ShopMill function (machine step programing)
5. 3D Simulation (machined part)
6. External coolant tank (200L)
7. 3 & 4 jaws chuck onto dividing head attachment
8. Air/Water gun