

Specification

Model	Unit	NV-1020	NV-1280
Travel			
X-axis travel	mm (in)	1,020 (40.1")	1,280 (50.3")
Y-axis travel	mm (in)	610 (24")	650 (25.5")
Z-axis travel	mm (in)	610 (24")	630 (24.8")
Distance from spindle nose to table surface	mm (in)	85~695 (3.3"~27.3")	100~730 (3.9"~28.7")
Distance from spindle center to column	mm (in)	688 (27")	722 (28.4")
Table			
Table dimension	mm (in)	1,120 x 610 (44" x 24")	1,380 x 650 (54.3" x 25.5")
Max. loading weight	kg (lb)	800 (1,763)	1,200 (2,645)
T-slots <W x No. x P>	mm (in)	18 x 5 x 100 (0.7" x 5 x 3.9")	
Spindle			
Spindle speed (OPT.)	rpm	10,000 (12,000)	
Spindle motor	kW (HP)	11/15 (20)	
Spindle taper	type	7 / 24 taper NO.40	
Automatic Tool Changer			
ATC type	type	Arm Type	
Tool shank	type	BT-40	
Pull stud	type	P-40T (45°)	
Tool storage capacity (OPT.)	pcs.	24 (30 / 32 / 40)	
Max. tool diameter	mm (in)	Ø80 (3.1")	
Max. tool diameter (Adjacent empty)	mm (in)	Ø150 (5.9")	
Max. tool length	mm (in)	250 (9.8")	
Max. tool weight	kg (lb)	7 (15.4)	
Tool change time (Tool to Tool)	sec.	2.5	
Tool change time (Chip to Chip)	sec.	7	
Feedrate			
Rapid traverse (X/Y/Z)	m (in) /min.	48 / 48 / 32 (1.889.7 / 1.889.7 / 1.259.8)	36 / 36 / 24 (1.417.3 / 1.417.3 / 944.8)
Cutting feedrate	mm (in) /min.	10,000 (393.7)	
Other			
Floor plan (W x D)	mm (in)	3,330 x 2,350 (131" x 92")	3,750 x 2,500 (147" x 98")
Machine weight	kg (lb)	7,100 (15,652)	8,500 (18,739)
Max. machine height	mm (in)	2,770 (109")	2,800 (110")
Air source	kg/cm ² (PSI)	6~8 (85~113)	
Power supply	KVA	25	

• Machine specifications and design are subject to change without prior notice due to on-going innovation.

Standard accessories

- 10,000 rpm belt type transmission
- Spindle oil cooler
- Rigid tapping
- Spindle air blast system
- Coolant flushing device
- Pre-tensioned ballscrews on 3 axes

- Telescopic covers on 3 axes
- Pneumatic system
- Automatic lubrication system
- Heat exchanger for electrical cabinet
- Built-in twin chip screws

Optional accessories

- 12,000 rpm belt type transmission spindle
- 10,000 / 12,000 rpm I.D.D. spindle
- Chip screw conveyor
- Chain type chip conveyor
- Coolant through spindle
- Deep hole adaptor
- High pressure pump
- Linear scales
- CNC rotary table
- Automatic tool length measurement
- Workpiece measurement
- Air condition
- CE modification
- Transformer



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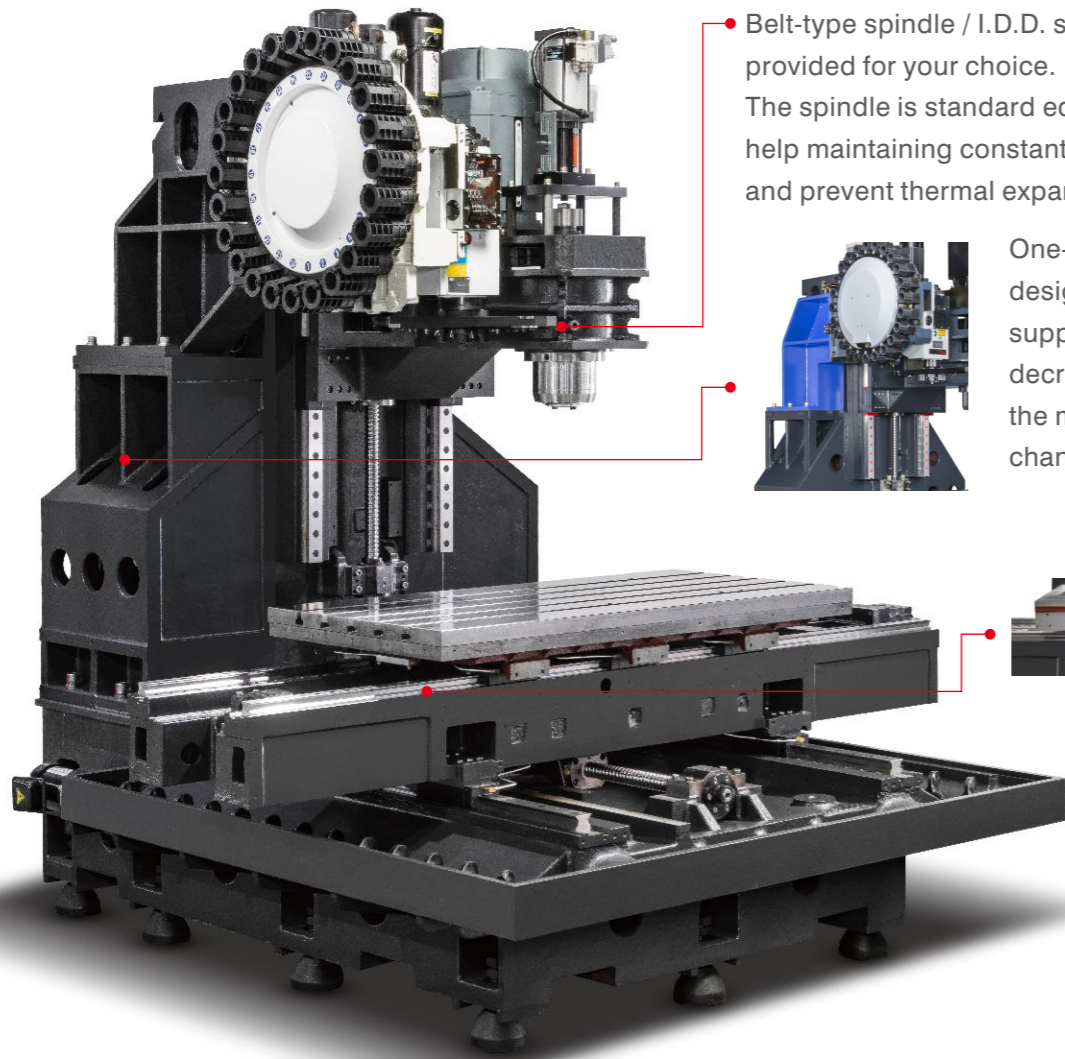
CNC Vertical Machining Center

NV Series



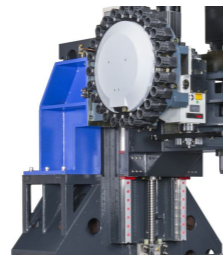
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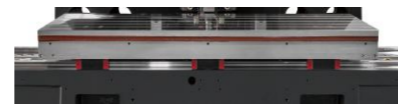


• NV-1280 structure.

• Belt-type spindle / I.D.D. spindle are able to be provided for your choice. The spindle is standard equipped with oil cooler to help maintaining constant operation temperature and prevent thermal expansion.



One-piece column which designed with shoulder to support tool magazine to decrease vibration and increase the machine stability while tool changes.

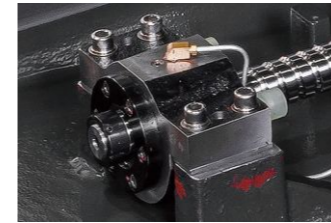


Three blocks on X-axis which provides full support for working table, performs max. machine rigidity and loading capacity.

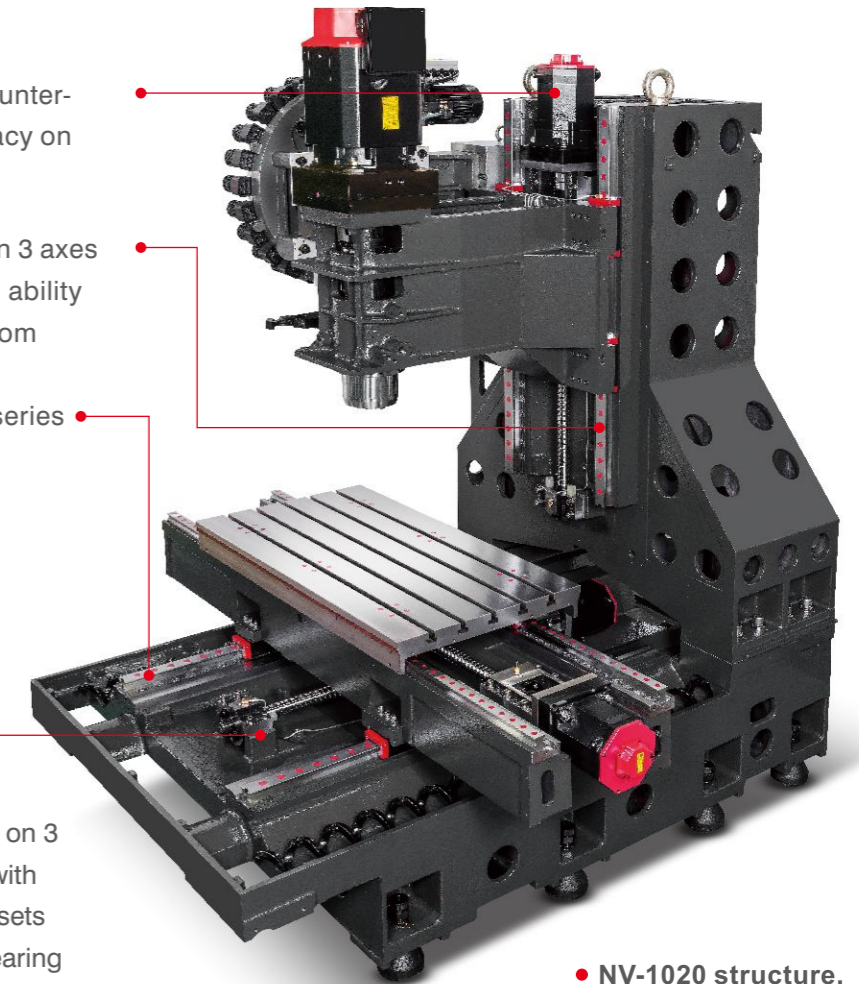
Z-axis servo motor with brake replaces counter-balance to provide optimal surface accuracy on 3D machining.

Heavy-duty roller type linear guideways on 3 axes which provide integration of heavy cutting ability from box way and fast movement ability from linear guideway.

Compete with same VMC linear type, NV series provide more Y-axis travel to fulfill various working needs.



Pretensioned class C3 precision ballscrews on 3 axes help to eliminate backlash. Bearings with dust-protection device are assembled by 3 sets both in the front and rear. The Ball screw bearing lubrication system designed reduces risk of bearing failure and less labor. (NV-1280 Opt.)



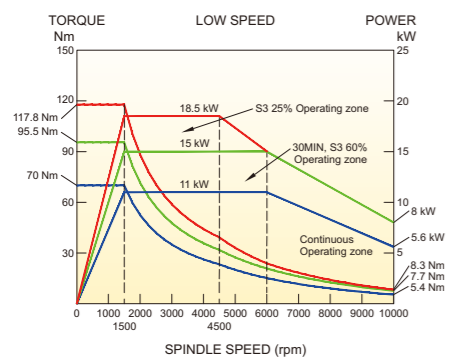
• NV-1020 structure.

Spindle Diagram

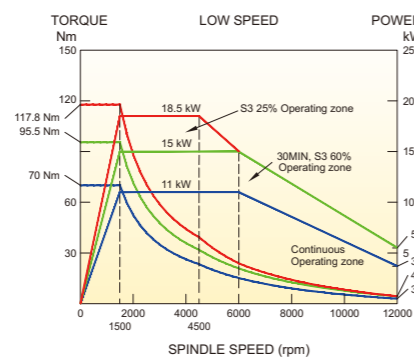
Table Dimensions NV-1020 / NV-1280

Unit : mm

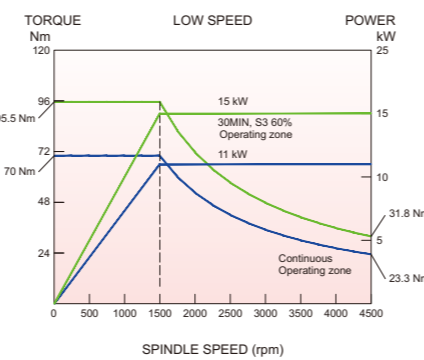
Fanuc 20HP Belt Type



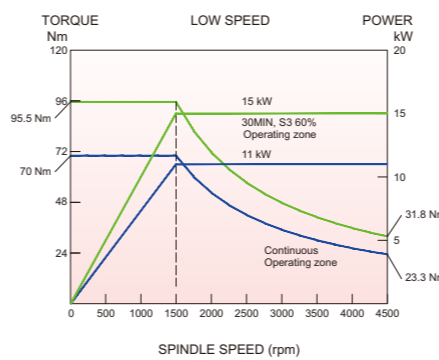
Fanuc 20HP I.D.D. Type



Meldas 20HP Belt Type



Meldas 20HP I.D.D. Type



Machine Dimensions NV-1020 / NV-1280

Unit : mm

