

India's Largest Manufacturer of Machining Centers

Double Column Vertical Machining Centers

The *Double Column Vertical Machining Centers* are designed specifically for *Heavy Duty applications* along with full milling capabilities. The DC (Double Column) Machines having *Rigid structure, High speed machining* with incredible efficiency. These machines are designed to achieve high accuracy and productivity. The machine is best suited for machining large sized components for Automobile, Die Mould, Aerospace Components, Earth Moving, Mining, Railways, Energy, Printing & Pattern Making Sectors.

- Highly Rigid Structure, X-axis configuration to the table, Y & Z-axis configuration to the spindle.
- Hardened ground LM roller guideways for X, Y & Z-axis
- Hardened ground, Precision Ball-screws for all 3 axis.
- Programmable Automatic 90 deg. Head / Universal Head (with Parking Stations) (Optional)
- Wider Gap Between Columns
- Direct drive/ Inline Spindle
- Spindle Chiller Unit for decreasing spindle thermal displacement.



- Machine image (DC-3020) mentioned is with optional features.

Right Solution for Large Sized Components !

Series 1	Series 2	Series 3
DC 2512 DC 2516	DC 3016 DC 3020	DC 4020

Machine Specifications

Specifications	Unit	DC 2512	DC 2516	DC 3016	DC 3020	DC 4020
Travels						
X axis	mm	2700	2700	3200	3200	4200
Y axis	Std./ Opt.	1450/2200	1700/2200	1700/2200	2200/2700	2200/2700
Z axis	Std./ Opt.	800/1000	800/1000	800/1000	800/1000	800/1000
Dist. from Spindle face to Table top	mm	200-1000	200-1000	200-1000	200-1000	200-1000
Table						
Table size	mm	2500 x 1250	2500 x 1600	3000 x 1600	3000 x 2000	4000 x 2000
Max. load on Table	kg	5000	6000	6000	8000	10000
Table Height from floor	mm	950	950	950	950	950
Distance between Columns	mm	1670	2100	1870	2300	2300
Spindle						
Spindle Taper type		BT-50	BT-50	BT-50	BT-50	BT-50
Spindle speed	Std.	6000(DD)	6000(DD)	6000(DD)	6000(DD)	6000(DD)
Spindle power-Fanuc	kW	22/18.5/15	22/18.5/15	22/18.5/15	22/18.5/15	22/18.5/15
Spindle Torque	Nm	365/307/249	365/307/249	365/307/249	365/307/249	365/307/249
Feed						
Cutting feed	mm/min	1-10000	1-10000	1-10000	1-10000	1-10000
Rapid traverse	m/min	18/18/15	18/18/15	15/15/15	15/15/15	10/15/15
Automatic Tool Changer						
No. of tools	Std./ Opt.	20/40	20/40	20/40	20/40	20/40
Tool diameter (Full Pocket/ Adj. Pocket Empty)	mm	125/200	125/200	125/200	125/200	125/200
Tool weight Max.	kg	20	20	20	20	20
Tool length Max.	mm	300	300	300	300	300
Tool change system		Twin Arm	Twin Arm	Twin Arm	Twin Arm	Twin Arm
Tool Selection		Bi-Directional	Bi-Directional	Bi-Directional	Bi-Directional	Bi-Directional
Accuracy (As per VDI DGQ 3441)						
Positioning accuracy	mm	0.025	0.025	0.025	0.025	0.025
Repeatability	mm	±0.005	±0.005	±0.005	±0.005	±0.005
Control System						
Fanuc		0iMF+	0iMF+	0iMF+	0iMF+	0iMF+
Siemens / Mitsubishi		828D / M80 AVU	828D / M80 AVU	828D / M80 AVU	828D / M80 AVU	828D / M80 AVU
Machine weight – Net	kgf	25000	26500	30000	34000	40000

- Due to continuous updating of machines, images & specifications mentioned herein are subject to change without notice.

- All the dimensions mentioned are in mm.

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