

CNC Vertical Machining Center Die & Mould Series -

ARJUN PLUS V600 / V800 / V1100

Vertical Machining Center



- 8,000 / 10,000 RPM
- 24-Tool ATC
- International Standard LM guide and Ball screw
- BT#40 Spindle - 7.5 / 11 Kw Spindle Motor
- Better Chip evacuation with engineered splash guard



ARJUN PLUS V600 / V800 / V1100

Specification	ARJUN Plus V 600	ARJUN Plus V 800	ARJUN Plus V 1100
Axis Travel			
X-Travel	600mm	800mm	1100mm
Y-Travel	500mm	500mm	600mm
Z-Travel	500mm	500mm	600mm
Spindle Nose to Table Surface	100 – 650mm	100 – 600mm	150 – 750mm
Work Table			
Table Surface Dimension (X, Y)	900 x 500mm	1000 x 500mm	1200 x 600mm
T-Slot Dimension/ No./ Pitch	18mmx5x80mm	18mmx5x100mm	18mmx5x110mm
Table Height	850mm /460mm	850mm/460mm	900mm
Maximum Table Weight	500 kg	600 kg	1000 kg
Spindle			
Spindle Motor Power (Cont./30 min)	7.5/11 Kw	7.5/11 Kw	7.5/11 Kw , 11/15 (OPT)
Spindle Motor Coupling	Belt Driven	Belt Driven	Belt Driven
Spindle Speed	8,000 rpm, (10,000/12,000 rpm optional)	8,000 rpm, (10,000/12,000 rpm optional)	8,000 rpm, 10,000/12,000 RPM (Optional) - 2Rear BT50(OPT)
Tool Type	BT #40, 4-bearing spindle – 2-Front, 2-Rear	BT #40, 5-bearing spindle – 1-Front, 2-Rear	BT #40, 5-bearing spindle – 1-Front,
Spindle Bearing - Inner Diameter	60mm	60mm	70mm
Spindle Material / Hardness	Shaft SAE 8620 / HRC 58-60	Shaft SAE 8620 / HRC 58-60	Shaft SAE 8620 / HRC 58-60
Spindle Runout	0.002mm At Bore Taper ,On 300mm	0.002mm At Bore Taper ,On 300mm	0.002mm At Bore Taper ,On 300mm
	Mandrel – 0.010mm	Mandrel – 0.010mm	Mandrel – 0.010mm
Retention System / Holding Capacity	700 ± 100 KgF	700 ± 100 KgF	850 ± 100 KgF
Axis Feeds			
Rapid Traverse – X/Y/Z	36/36/24 m / minute	36/36/24 m / minute	36/36/24 m / minute
Rated Cutting Feedrate – X/Y/Z	10/10/10 m/min.	10/10/10 m/min.	10/10/10 m/min.
Mechanical Way System – X/Y/Z	30/35/35mm width	35/45/45mm width	35/45/45mm width
Axis Drive Motor Power – X, Y/Z	3/3/3 Kw	3/3/3 Kw	3/3/4.5 Kw
Axis Thrust Force – X, Y/Z	22.5/22.5/22.5 Nm	22.5/22.5/22.5 Nm	22.5/22.5/37.2 Nm
Ballscrews – X, Y, Z	32mm Ballscrews	32mm Ballscrews	40mm Ballscrews
Positioning Accuracy – X/Y/Z	0.010mm	0.010mm	0.010mm
Positioning Repeatability – X/Y/Z	0.006mm	0.006mm	0.006mm
Least Input Command Increment	0.001mm	0.001mm	0.001mm
Tool Changer			
Tool Capacity	24-Tools, Arm Turret (Option)	24-Tools, Arm Turret (Option)	24-Tools, Arm Turret (Option)
Tool Shank	BT#40,BBT 40 (Option)	BT#40, BBT 40 (Option)	BT#40, BBT 40 (Option)
Tool Change Time	2.5-sec. tool-to-tool,	2.5-sec. tool-to-tool,	2.5-sec. tool-to-tool,
Maximum Tool Diameter / with adjacent tool	75mm with no adjacent tool/ 150mm w/o Adj. Tool	75mm with no adjacent tool/ 150mm w/o Adj. Tool	75mm with no adjacent tool/ 150mm w/o Adj. Tool
Maximum Tool Length / Weight	250mm / 8 kg	250mm / 8 kg	250mm / 8 kg
Tool Selection / Tool Access	Random access Bi-directional shortest path	Random access Bi-directional shortest path	Random access Bi-directional shortest path
Specifications			
Air Service Requirements	6 Kg/cm2	6 Kg/cm2	6 Kg/cm2
Connected Load	22 Kva	22 Kva	25 Kva
Coolant Tank Capacity	350 liters	350 liters	425 liters
Coolant Pump - LPM /Pressure	200 LPM , 2 Bar	200 LPM , 2 Bar	200 LPM , 2 Bar
Floor space requirements (L x W x H)	2550x2950x2550 mm	2550x2950x2550 mm	3100x3250x2950 mm
Machine Weight	5600 kg	5700 kg	6200 kg

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In keeping with our constant endeavour to meet ever-changing market needs, we reserve the right to alter or change the specifications mentioned without prior notice.

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An ISO 9001:2015 Certified Organisation

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