

LP-4021

CNC Bridge Type Vertical Machining center



Specification / Model	Unit	LP3021	LP4021	LP5021
X travel (Left & right)	mm(in)	3000(118.1)	3060(120.5)	4000(157.5)
Y travel (in & out)	mm(in)	2100(82.6)		
Z travel (up & down)	mm(in)	760(30.0)Standard, 1000(40.0) Option		
Distance from spindle nose to table top	mm(in)	240-1000 (9.4-39.4)Standard , 440-1200(17.3-47.3) Option, 440-1440(17.3-56.7)Option		
Distance between columns	mm(in)	2300(90.5)		
Table size (X direction)	mm(in)	3000(118.0)	4000 (157.5)	5000(196.8)
Table size (Y direction)	mm(in)	2000(78.7)		
Table load capacity	kg(lb)	10000 (22000)	12000 (26450)	15000 (33000)
Spindle motor (cont. / 30min. rating)	kw(HP)	22/ 26 (30/ 35)		
Spindle speed	rpm	Two steps geared spindle 10-6000 (Standard), 10-8000 direct driven spindle (Option) ,10-4000 geared spindle for Z axis travel of 1000 mm (Option)		
Spindle taper		BT# 50(ISO 50) / DIN 69871A (OPT)		
Rapid traverse rate X axis	mm(in) / min	15000(590.6)		10000(393.7)
Rapid traverse rate Y/ Z axis	mm(in) / min	15000 (590.6) / 10000 (393.7)		
Cutting feedrate	mm(in) / min	1-8000 (0.04-315.0)		
Tool magazine capacity	Pcs	32 (60,120 Option)		
Max. tool dia. / adjacent empty	mm(in)	127/ 215(5.0/ 8.5)		
Max. tool length	mm(in)	350 (13.8)		
Max. tool weight	kg(lb)	20(44.1)		
Positioning accuracy (JIS 6338)	mm(in)	+ 0.015(+ 0.006) full travel		
Positioning accuracy (VDI 3441)	mm(in)	P 0.035(0.0014)	P 0.035(0.0014)	P 0.045(0.0018)
Repeatability (JIS 6338)	mm(in)	+ 0.003(0.0001)	+ 0.003(0.0001)	+ 0.003(0.0001)
Repeatability (VDI 3441)	mm(in)	Ps 0.028(0.001)	Ps 0.028(0.001)	Ps 0.028(0.001)
Total required power		50KVA, 220+ 10%Vac, 3 phase 60/ 50 HZ		
Pneumatic pressure requirement	kg / cm ²	5		
Hydraulic unit tank capacity	liter	120(31.8)with 10HP		
Lubrication oil tank capacity	liter	6 (1.6)		
Coolant tank capacity	liter	650(170) at 1.5HP		
Axis guide-ways		THK X&Y Linear way +Tacho Way+ Z Turcite harden way		
Machine weight	kg(lb)	33000(72750)	38000(83700)	45000(99200)
Standard accessories : 1.Spindle speed of 6000 rpm with geared train 2.Spindle & gear train temperature control system 3.Adjustable torque-limit clutch (3 axes) 4.External pulse coder (3 axes) 5.Centralized automatic lubricating system 6.Full splash guard -1700mm (66.9") 7.Flood Coolant system (Pump & tank) 8.Recycling lubricating oil collector for 3axes 9.Twin screw & caterpillar types conveyor and bucket 10.32 tool magazine 11.Rigid tapping 12.Foot switch for tool clamping 13.Remote handwheel control 14.Work light 15.Operation cycle finish and alarm lights 16.RS 232 interface 17.Spray hose for chip washdwn 18.Foundation bolt kit 19.Machine manuals		Optional accessories : 1.Roof enclosure guarding system 2.Spindle speed up to 8000 rpm direct 3.Linear scale feedback system for X.Y axes 4. 60 or 120 tool magazine 5.Coolant through the tool 6.Coolant through the spindle (Form A) 7. Z travel of 1000 mm (40") , geared spindle speed of 4000 rpm 8. Angular head (90 degree) index in 4 positions manual 9. 35 degree head index in 4 position manual 10.Extension head 11.Universal head 12Automatic workpiece measuring system 13.Scanning systems Die & Mold 14.CNC rotary table		



BRIDGE BRINGS PERFORMANCE

Specification / Model	Unit	LP3025	LP4025	LP5025	LP6025
X travel (Left & right)	mm(in)	3000(118.1)	4000(157.5)	5000(196.8)	6000(236.2)
Y travel (in & out)	mm(in)	2500(98.4)			
Z travel (up & down)	mm(in)	760(30.0)Standard, 1000(40.0) Option			
Distance from spindle nose to table top	mm(in)	240-1000 (9.4-39.4)Standard , 440-1200(17.3-47.3) Option, 440-1440(17.3-56.7)Option			
Distance between columns	mm(in)	2700(106.3)			
Table size (X direction)	mm(in)	3000(118.0)	4000 (157.5)	5000(196.8)	6000(236.2)
Table size (Y direction)	mm(in)	2400(94.5)			
Table load capacity	kg(lb)	12000 (26450)	15000 (33000)	18000 (39680)	20000(44000)
Spindle motor (cont. / 30min. rating)	kw(HP)	22/ 26 (30/ 35)			
Spindle speed	rpm	Two steps geared spindle 10-6000 (Standard), 10-8000 direct driven spindle (Option) ,10-4000 geared spindle for Z axis travel of 1000 mm (Option)			
Spindle taper		BT# 50(ISO 50) / DIN 69871A (Option)			
Rapid traverse rate X axis	mm(in) / min	12000(472.4)	10000(393.7)	10000(393.7)	7500(295.3)
Rapid traverse rate Y/Z axis	mm(in) / min	15000 (590.6) / 10000 (393.7)			
Cutting feedrate	mm(in) / min	1-8000 (0.04-315.0)		1-5000(0.04-196.9)	
Tool magazine capacity	Pcs	32 (60,120 Option)			
Max. tool dia. / adjacent empty	mm(in)	127/ 215(5.0/ 8.5)			
Max. tool length	mm(in)	350 (13.8)			
Max. tool weight	kg(lb)	20(44.1)			
Positioning accuracy (JIS 6338)	mm(in)	+ 0.015(+ 0.006) full travel			
Positioning accuracy (VDI 3441)	mm(in)	P 0.035(0.0014)		P 0.045(0.0018)	
Repeatability (JIS 6338)	mm(in)	+ 0.003(0.0001)			
Repeatability (VDI 3441)	mm(in)	Ps 0.028(0.001)		Ps 0.028(0.001)	
Total required power		50KVA, 220+ 10%Vac, 3 phase 60/ 50 HZ			
Pneumatic pressure requirement	kg / cm ²	5			
Hydraulic unit tank capacity	liter	120(31.8)with 10HP			
Lubrication oil tank capacity	liter	6 (1.6)			
Coolant tank capacity	liter	750(198) at 1.5HP			
Axis guide-ways		THK X&Y Linear way +Tacho Way+ Z Turcite harden way			
Machine weight	kg(lb)	36000(79400)	40000(88100)	44000(97000)	48000(105800)
Standard accessories : 1.Spindle speed of 6000 rpm with geared train 2.Spindle & gear train temperature control system 3.Adjustable torque-limit clutch (3 axes) 4.External pulse coder (3 axes) 5.Centralized automatic lubricating system 6.Full splash guard -1700mm (66.9") 7.Flood Coolant system (Pump & tank) 8.Recycling lubricating oil collector for 3axes 9.Twin screw & caterpillar types conveyor and bucket 10.32 tool magazine 11.Rigid tapping 12.Foot switch for tool clamping 13.Remote handwheel control 14.Work light 15.Operation cycle finish and alarm lights 16.RS 232 interface 17.Spray hose for chip washdwon 18.Foundation bolt kit 19.Machine manuals		Optional accessories : 1.Roof enclosure guarding system 2.Spindle speed up to 8000 rpm direct 3.Linear scale feedback system for X,Y axes 4. 60 or 120 tool magazine 5.Coolant through the tool 6.Coolant through the spindle (Form A) 7. Z travel of 1000 mm (40") , geared spindle speed of 4000 rpm 8. Angular head (90 degree) index in 4 positions manual 9. 35 degree head index in 4 position manual 10.Extension head 11.Universal head 12Automatic workpiece measuring system 13.Scanning systems Die & Mold 14.CNC rotary table			