

HV SERIES

CNC Bridge Type Five Sides Multicenter





BRIDGE BRINGS PERFORMANCE

MACHINE SPECIFICATION:

MACHINE MODEL	UNIT	HVM- 4025	HVM- 5025	HVM- 6025
Table travel left and right (X- axis)	mm(in)	4000(157.5)	5000(196.9)	6000(236.2)
Spindle head travel in and out (Y- axis)	mm(in)	3200(126.0)	3200(12.6)	3200(126.0)
Spindle head travel up and down (Z- axis)	mm(in)	1000(39.4)		
Distance between table and vertical spindle	mm(in)	200-1, 200(7.9-47.2) / option:400-1,440(15.7-55.1)		
Distance between table and center line of horizontal spindle	mm(in)	0-978(0.-38.5)/ option :178-1,178(7.0-46.4)		
Distance between columns	mm(in)	2500(98.4)	2500(98.4)	2500(98.4)
Table size in X direction	mm(in)	4000(157.5)	5000(196.9)	6000(236.2)
in Y direction	mm(in)	2000(78.7)	2000(78.7)	2000(78.7)
Table load capacity	kg(lb)	12000(26, 400)	15000(33, 000)	18000(39, 600)
Spindle drive		Gear transmission (two step. Auto exchange)		
Spindle motor	KW (HP)	22/ 26 (30 / 35)		
Spindle speed (in vertical direction)	rpm	10-4000(stepless)		
(in horizontal direction)	rpm	20-2400(stepless)		
Distance from table to ground	m / min (in / min)	890(35.0)		
Spindle nose configuration		BT#50		
Rapid traverse rate X axis	m / min (in / min)	15(590.55)	10(393.70)	7.5(295.28)
Y axis	m / min (in / min)	15(590.55)	15(590.55)	15(590.55)
Z axis	m / min (in / min)	10(393.7)		
Cutting feed rate (max)	m / min (in / min)	5000(196.9)		
Tool magazine capacity		60(90/ 120option)		
Max. tool diameter / adacent pockets empty	mm(in)	127(5.0)/ 240(9.4)		
Max. tool length (from gauge line)	mm(in)	400(15.7)		
Max. tool weight	kg(lb)	25(55)		
Indexing degree	deg	90°		
Pull stud		MAS 403P50T-1(45 deg.)		
CNC Controller		FANUC 18iMB		
Vertical / Horizontal exchange time	sec	80		
Positioning accuracy (X,Y axes)	mm(in)	+ 0.01(+ 0.0004")/ full travel		
(Z-axis)	mm(in)	+ 0.015(+ 0.0006")/ full travel		
Repeatability	mm(in)	+ 0.005(+ 0.0002")		
Total required power	KVA	70		
Pneumatic pressure requirement	kg/ cm ²	5		
Hydraulic unit tank capacity	Liter	180 (45gal)		
Lubrication oil tank capacity	Liter	6(1.5 gal)		
Coolant tank capacity	Liter	700(175gal)		
Floor space requirement (length)	mm(in)	10600(417.3)	12600(496.1)	14600(574.8)
(width)	mm(in)	8500(334.6)	8500(334.6)	8500(334.6)
(height)	mm(in)		6600(259.8)	
Machine weight	kg(lb)	53000(116600)	55000(12100)	57000(125400)
STANDARD ACCESSORIES		10.Spindle temperature control system	19.Spray hose for chip washdown	
1.Adjust torque limiting overload clutch		11.Recycling lubricating oil collector for all axes	20.RS-232 inter face	
2.X, Y close loop feedback		12.Flood coolant system and chip bucket	21.Protection cover for vertical head	
3.External pulse coder on Z axis		13.Chip collector on both sides of table	22.Foundation bolt kit	
4.Automatic head exchange system		14.Four splash guard	23.Tool box	
5.Horizontal head 90 degrees		15.Over head swivel pendulum type control panel	24.Automatic power off function	
6.60 tools magazine		16.Remote handwheel		
7.Two step gear head		17.Work light		
8.Automatic tool change system in Vertical and Horizontal		18.Operation cycle finish and alarm light		
9.Centralized automatic lubricating system				
OPTIONAL ACCESSORIES		6.MP10 scanning systems for mold and die		
1.5 degrees indexing head		7.Automatic workpiecemeasuring system		
2.90/ 120 tools magazine		8.14" color CRT		
3.Caterpillar type chip conveyor		9.Full splash guard		
4.CNC rotary tables		10.Special spindle head on requested		
5.Rigid tapping				



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