Hartford innovation

Leabourn & Rose Ltd
Heavy Machine Tools
Address: 87 Springs Rd, East Tamaki, Auckland
Email: info@Leabourn-rose.co.nz **Phone:** (09) 274 6186

ITEM		UNIT	5A-650	5A-650F(4+1 axis)	VM-65(table type)
Table					
Table size		mm (inch)	Ø650 (25.59″)	Ø650 (25.59″)	750 x 620 (29.53″ x 24.41″)
T-slot (size x number x pitch)		mm (inch)	18 x 5 x 100 (0.71″ x 5 x 3.94″)	18 x 5 x 100 (0.71 x 5 x 3.94″)	18 x 6 x 100 (0.71″ x 6 x 3.94″)
Max. Table load		Kg (lbs)	Horizontal: 300 (661.39) Vertical: 200 (440.92)	Horizontal: 300 (661.39) Vertical: 200 (440.92)	500 (1102.31)
Travel					
Longitudinal travel (X-axis)		mm (inch)	660 (25.98″)	660 (25.98″)	660 (25.98″)
Cross travel (Y-axis)		mm (inch)	550 (21.65″)	550 (21.65″)	550 (21.65″)
Vertical travel (Z-axis)		mm (inch)	460 (18.11″)	460 (18.11″)	460 (18.11″)
Cross travel (B-axis)		Deg.	+110° ~ -50°	+110° ~ -50°	
Vertical travel (C-axis)		Deg.	360°	360°	
Distance from spindle end to table		mm (inch)	150~610 (5.91″ ~ 24.02″)	150~610 (5.91″ ~ 24.02″)	150~610 (5.91″ ~ 24.02″)
Spindle					
Spindle nose taper			ISO40 HSK-A63(24K only)	ISO40 HSK-A63(20K/24K only)	ISO40 HSK-A63(20K/24K only)
Spindle speed (standard)	Direct-drive Type	rpm	10K(OPT：12K/15K)	10K(OPT：12K/15K/20K)	10K(OPT：12K/15K/20K)
	Built-in Type	rpm	OPT：24K	OPT：24K	OPT：24K
Feed					
Cutting feed rate	X, Y, Z-axis	m / min (ipm)	20 (787.4)	20 (787.4)	20 (787.4)
	B-axis	rpm	25	25	-
	C-axis	rpm	25	25	-

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ITEM		UNIT	5A-650	5A-650F(4+1 axis)	VM-65(table type)
Rapid traverse	X, Y, Z-axis	m / min (ipm)	36 (1417.32)	36 (1417.32)	36 (1417.32)
	B-axis	rpm	25	25	-
	C-axis	rpm	25	25	-
ATC					
Tool storage capacity	A type	PCS	24 (OPT:30 / 40 / 60)	24 (OPT: 30/40/60)	24(OPT: 30/40/60)
Max. Tool weight		kg (lbs.)	7 (15.43")	7 (15.43")	7 (15.43")
Max. Tool size (dia. x length)		mm (inch)	Ø75 x 250L (Ø2.95" x 9.84")	Ø75 x 250L (Ø2.95" x 9.84")	Ø75 x 250L (Ø2.95" x 9.84")
Tool selection			Random	Random	Random
Tool change time (Approx)	A type	sec	5	5	5
Tool shank			ISO40/HSK-A63	ISO40/HSK-A63	ISO40/HSK-A63
Tool stud bolt			MAS-P40T-1/ CAT-40/DIN69872	MAS-P40T-1/ CAT-40/DIN69872	MAS-P40T-1/ CAT-40/DIN69872
Motor					
Spindle drive motor	MITSUBISHI	kW (HP)	-	-	11 (14.8)
(30 min rating)	FANUC	kW (HP)	-	11 (14.8)	11 (14.8)
	HEIDENHAIN (TNC 640)	kW (HP)	12.5 (16.76)	12.5 (16.76)	12.5 (16.76)
X.Y.Z axis drive motor	MITSUBISHI	kW (HP)	-	-	3.5 / 3.5 / 3.5 (4.69 / 4.69 / 4.69)
	FANUC	kW (HP)	-	4 / 4 / 4 (5.36 / 5.36 / 5.36)	4 / 4 / 4 (5.36 / 5.36 / 5.36)
	HEIDENHAIN (TNC 640)	kW (HP)	4.5 / 5.1 / 5.4 (6.03 / 6.84 / 7.24)	4.5 / 5.1 / 5.4 (6.03 / 6.84 / 7.24)	4.5 / 5.1 / 5.4 (6.03 / 6.84 / 7.24)
B.C axis drive motor	MITSUBISHI	kW	-	-	-
	FANUC	kW (HP)	-	7 / 3 (9.39 / 4.02)	-
	HEIDENHAIN (TNC 640)	kW (HP)	8.6 / 4.5 (11.53 / 6.03)	8.6 / 4.5 (11.53 / 6.03)	-

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ITEM		UNIT	5A-650	5A-650F(4+1 axis)	VM-65(table type)
Positioning Accuracy					
Three Axes Laser Positioning Accuracy (JIS B6228)					
Positioning Accuracy / Full Travel		mm	±0.006	±0.006	±0.006
Repetitive Positioning Accuracy		mm	±0.002	±0.002	±0.002
Three Axes Laser Positioning Accuracy (VDI 3441) / Repeated 5 Times					
Positioning Accuracy		mm	0.008	0.008	0.008
Repetitive Positioning Accuracy		mm	0.006	0.006	0.006
VDI 3441 accuracy available upon order request					
Accuracy					
Accuracy Positioning	B-axis(with angle encoder)	sec	10	10	-
	C-axis(with angle encoder)	sec	7	7 (OPT.)	-
Accuracy Repeatability	B-axis(with angle encoder)	sec	5	5 (OPT.)	-
	C-axis(with angle encoder)	sec	5	5 (OPT.)	-

* Specifications of the machine are subject to be modified without prior notice. (Please refer to the shipping document for the precise machine weight)