

Five-Axis



Specification / Model	Unit	FH630SX-i 5-Axis	FA800S 5-Axis	FA1050S 5-Axis	FH1250SX 5-Axis
Pallet Size	in (mm)	24.8 x 24.8 (630 x 630)	31.5 x 31.5 (800 x 800)	41.3 x 41.3 (1,050 x 1,050)	49.2 x 49.2 (1,250 x 1,250)
X-axis Travel (column)	in (mm)	31.5 (800)	43.3 (1,100)	59.1 (1,500)	86.6 (2,200)
Y-axis Travel (spindle head)	in (mm)	33.46 (850)	45.2 (1,150)	55.1 (1,400)	63 (1,600)
Z-axis Travel (work table)	in (mm)	41.33 (1,050)	45.2 (1,150)		72.8 (1,850)
Max. Workpiece Swing (diameter)	in (mm)	46.06 (1,170)	62.99 (1,600)	51.18 (1,300)	84.49 (2,400)
Max. Workpiece Height	in (mm)	62.99 (1,600)	51.18 (1,300)	32.48 (825)	70.87 (1,800)
Maximum Load on Pallet	lb (kg)	3,306 (1,500)	2,204 (1,000)	4,400 (2,000)	11,000 (5,000)
Spindle Speed	RPM	8,000, 15,000	6,000, 8,000, 15,000		15,000
Spindle Taper	-	CAT 50		CAT50	
Rapid Feedrate (X,Y and Z)	ipm (m/min)	2,362 ipm (60 m/min), 2,362 ipm (60 m/min), 2,362 ipm (60 m/min)	590 ipm (15 m/min), 944 ipm (24 m/min), 944 ipm (24 m/min)		1,260 ipm (32 m/min), 1,260 ipm (32 m/min), 1,654 ipm (42 m/min)
Tool Storage Capacity	number	60, 120, 240, 330	60, 120, 190, 240	60, 190, 240, 384	60, 121
Standard Foot Print with Standard Magazine, Spindle, Coolant Tank and Chip Conveyor (L x W x H)	in (mm)	170 x 266 x 130 (4,320 x 6,800 x 3,308)	208 x 268 x 152 (5,290 x 6,800 x 3,865)	276 x 331 x 161 (7,000 x 8,400 x 4,100)	249 x 394 x 178 (6,320 x 10,000 x 4,520)

Specifications subject to change without notice

400 mm Pallet



Specification / Model	Unit	FH400J	FH450S
Pallet Size	in (mm)	15.75 x 15.75 (400 x 400)	17.72 x 17.72 (450 x 450)
X-axis Travel (column)	in (mm)	23.62 (600)	
Y-axis Travel (spindle head)	in (mm)	22.05 (560)	23.62 (600)
Z-axis Travel (work table)	in (mm)	24.80 (630)	23.62 (600)
Max. Workpiece Swing (diameter)	in (mm)	24.80 (630)	
Max. Workpiece Height	in (mm)	35.43 (900)	29.53 (750)
Max. Load on Pallet	lb (kg)	880 (400)	
Spindle Torque	ft-lb (Nm)	123 (167)	
Spindle Speed	RPM	15,000	
Spindle Taper	-	CAT40	
Rapid Feedrate (X,Y and Z)	ipm (m/min)	2,362 (60)	1,968 (50)
Tool Storage Capacity	number	60, 119	60, 120
Standard Foot Print with Standard Magazine, Spindle, Coolant Tank and Chip Conveyor (L x W x H)	in (mm)	163 x 99 x 108 (4,122 x 2,500 x 2,733)	243 x 100 x 125 (6,159 x 2,520 x 3,160)

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500 mm Pallet



Specification / Model	Unit	FH500J	HMC500	FH550SX
Pallet Size	in (mm)	19.68 X 19.68 (500 X 500)		21.65 x 21.65 (550 x 550)
X-axis Travel (column)	in (mm)	28.74 (730)	25.2 (650)	29.52 (750)
Y-axis Travel (spindle head)	in (mm)	28.74 (730)	24 (610)	31.50 (800)
Z-axis Travel (work table)	in (mm)	33.46 (850)	26.8 (680)	33.46 (850)
Max. Workpiece Swing (diameter)	in (mm)	31.50 (800)	29.5 (630)	33.46 (850)
Max. Workpiece Height	in (mm)	31.5 x 39.4 (1,000)	35.43 (900)	45.0 (1,143)
Maximum Load on Pallet	lb (kg)	1,540 (700)	1,100 (500)	1,760 (800)
Spindle Torque	ft-lb (Nm)	224 (304)	123 (167)	887 (1,202)
Spindle Speed	RPM	15,000		6,000
Spindle Taper	-	CAT40		CAT50
Rapid Feedrate (X,Y and Z)	ipm (m/min)	2,362 (60)		
Tool Storage Capacity	number	60, 119	60	60, 121
Standard Foot Print with Standard Magazine, Spindle, Coolant Tank and Chip Conveyor (L x W x H)	in (mm)	186 x 104 x 113 (4,710 X 2,635 X 2,868)	104 x 181 x 115 (2,650 x 4,603 x 2,936)	284 x 131 x 126 (7,207 x 3,312 x 3,180)

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630 mm Pallet



Specification / Model	Unit	FH630SX-i	FA630S
Pallet Size	in (mm)	24.80 x 24.80 (630 x 630)	
X-axis Travel (column)	in (mm)	41.34 (1,050)	39.37 (1,000)
Y-axis Travel (spindle head)	in (mm)	35.43 (900)	33.46 (850)
Z-axis Travel (work table)	in (mm)	41.34 (1,050)	29.52 (750)
Max. Workpiece Swing (diameter)	in (mm)	46.06 (1,170)	39.37 (1,000)
Max. Workpiece Height	in (mm)	49.21 (1,250)	39.37 (1,000)
Maximum Load on Pallet	lb (kg)	2,646 (1,200)	2,860 (1,300)
Spindle Torque	ft-lb (Nm)	887 (1,202)	
Spindle Speed	RPM	8,000, 15,000	
Spindle Taper	-	CAT50	
Rapid Feedrate (X,Y and Z)	ipm (m/min)	2,362 (60)	1,417 (36)
Tool Storage Capacity	number	60, 121, 200	60, 120, 190, 240
Standard Foot Print with Standard Magazine, Spindle, Coolant Tank and Chip Conveyor (L x W x H)	in (mm)	*271 x 142 x 126 (*6,884 x 3,600 x 3,208)	232 x 172 x 142 (5,894 x 4,353 X 3,561)

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* Does not include coolant tank in measurement.

800 mm Pallet



Specification / Model	Unit	FH800SX-i	FA800S
Pallet Size	in (mm)	31.50 x 31.50 (800 x 800)	
X-axis Travel (column)	in (mm)	57.09 (1,450)	53.15 (1,350)
Y-axis Travel (spindle head)	in (mm)	49.21 (1,250)	45.27 (1,150)
Z-axis Travel (work table)	in (mm)	61.02 (1,550)	45.27 (1,150)
Max. Workpiece Swing (diameter)	in (mm)	59.05 (1,500)	62.99 (1,600)
Max. Workpiece Height	in (mm)	59.05 (1,500)	51.18 (1,300)
Maximum Load on Pallet	lb (kg)	5,511 (2,500)	5,500 (2,500)
Spindle Torque	ft-lb (Nm)	887 (1,202)	
Spindle Speed	RPM	8,000, 15,000	
Spindle Taper	-	CAT50	
Rapid Feedrate (X,Y and Z)	ipm (m/min)	2,127 (54)	945 (24)
Tool Storage Capacity	number	60, 121	60, 120, 190, 240
Standard Foot Print with Standard Magazine, Spindle, Coolant Tank and Chip Conveyor (L x W x H)	in (mm)	382 x 185 x 145 (9,680 x 4,680 x 3,680)	291 x 192 x 166 (7,369 x 4,860 x 4,210)

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1,000 mm Pallet



Specification / Model	Unit	FH1000SX	FA1050S
Pallet Size	in (mm)	39.37 x 39.37 (1,000 x 1,000)	41.33 x 41.33 (1,050 x 1,050)
X-axis Travel (column)	in (mm)	62.99 (1,600)	
Y-axis Travel (spindle head)	in (mm)	55.11 (1,400)	
Z-axis Travel (work table)	in (mm)	72.83 (1,850)	45.2 (1,150)
Max. Workpiece Swing (diameter)	in (mm)	70.86 (1,800)	72.83 (1,850)
Max. Workpiece Height	in (mm)	62.99 (1,600)	61.02 (1,550)
Maximum Load on Pallet	lb (kg)	6,600 (3,000)	
Spindle Torque	ft-lb (Nm)	887 (1,202)	
Spindle Speed	RPM	8,000, 15,000	
Spindle Taper	-	CAT50	
Rapid Feedrate (X,Y and Z)	ipm (m/min)	2,126 (54)	945 (24)
Tool Storage Capacity	number	60, 121	60, 120, 190, 240
Standard Foot Print with Standard Magazine, Spindle, Coolant Tank and Chip Conveyor (L x W x H)	in (mm)	369 x 249 x 159 (9,350 x 6,305 x 4,037)	321 x 213 x 161 (8,140 x 5,400 x 4,090)

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