

Milling Cell

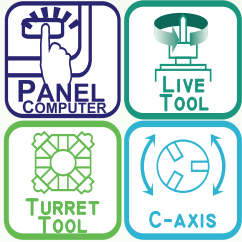
HM-3000/3400

5-Face Machining in a Single Chucking!

Original technology that supports Fuji automated turning as parallel task

5-face machining via 4-axis (X/Y/Z/C) control

Simultaneous 4-axis control makes 5-face machining possible in one chucking.



The above photo includes options

Milling Cell
HM-30T

			HM-3000 L673-H	HM-3400 L672-B
Recommended work size	Dia. X length	mm [inch]	φ 200 × 100 [φ 7.9X3.9]	φ 300 × 120 [φ 11.8X4.7]
C-axis spindle dia.		mm [inch]	65 [2.7]	80 [3.2]
C-axis spindle nose			A2-6	A2-6
Slide stroke	X-axis	mm [inch]	275 [10.83]	275 [10.83]
	Z-axis	mm [inch]	355 [13.98]	400 [15.75]
	Y-axis	mm [inch]	230 [9.06]	230 [9.06]
Rapid traverse rate	X-axis	m/min [inch/min]	20 [787]	20 [787]
	Z-axis	m/min [inch/min]	20 [787]	20 [787]
	Y-axis	m/min [inch/min]	13 [512]	13 [512]
	C-axis	min-1	130	130
Least input increment	X-axis	mm [inch]	0.001 [0.0001]	0.001 [0.0001]
	Z-axis	mm [inch]	0.001 [0.0001]	0.001 [0.0001]
	Y-axis	mm [inch]	0.001 [0.0001]	0.001 [0.0001]
	C-axis	deg	0.015	0.015
Feed motor	X-axis	kw [hp]	3.0 [4.0]	3.0 [4.0]
	Z-axis	kw [hp]	3.0 [4.0]	3.0 [4.0]
	Y-axis	kw [hp]	3.0 [4.0]	3.0 [4.0]
	C-axis	kw [hp]	3.0 [4.0]	4.0 [5.4]
Number of tool stations			6, 10, 15	6, 10, 15
Turret index time		sec	3	3
Drill size		mm [inch]	φ 25, 20, 16 [1.0, 0.8, 0.6]	φ 25, 20, 16 [1.0, 0.8, 0.6]
Live tool spindle speed		min-1	Max. 3200 (6-pos.), Max. 5000 (10-pos., 15-pos.)	Max. 3200 (6-pos.), Max. 5000 (10-pos., 15-pos.)
Live tool spindle motor		kw [hp]	3.7 / 5.5 [5.0 / 7.5]	3.7 / 5.5 [5.0 / 7.5]
Chuck size		inch	8	10
CNC control			FANUC 210i-MB	FANUC 210i-MB
Robot type			L673-H	L672-B
Carrying capacity		kg [lb]	5+5 [11+11]	10 + 10 [22 + 22]
Robot controller			MAX SP1	MAX SP1
Footprint	Width	mm [inch]	1750 [5'9"]	1850 [6'1"]
	Depth	mm [inch]	1800 [5'11"]	1850 [6'1"]
	Height	mm [inch]	2830 [9'3"]	3160 [10'4"]
Machine weight		kg [lb]	4500 [9900]	5500 [12100]

Note: Specifications subject to change without notice.

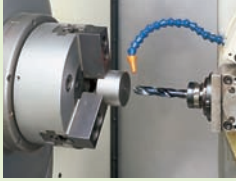
HM-3000

HM-3400

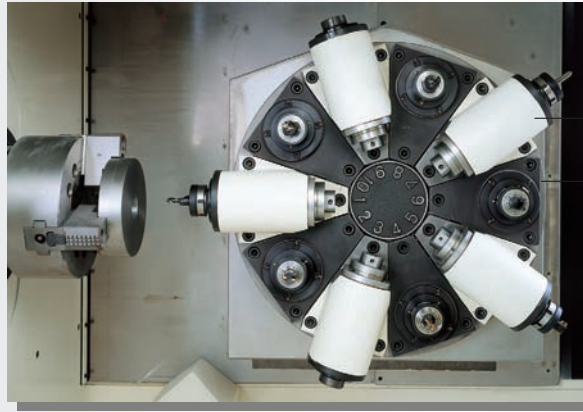
Radial Machining



Axial Machining



Angular Hole Machining

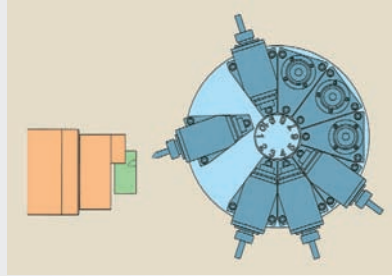


Axial holder

Radial holder

Live tool spindles mounted on a turret

Axial and radial holders can be freely attached anywhere on the turret, as needed.



Angular Hole machining

Attaching an axial holder diagonally creates a B-axis on the machining center for machining angular holes.

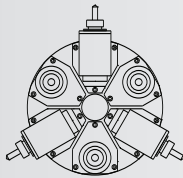


Superior chip flow

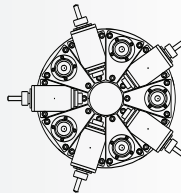
The machining position is directly above a large chip receptacle at the bottom of the machine. Chips fall directly from the machining position into the chip receptacle, and are effectively transported away by a dedicated chip conveyor.

Turret selectable from 6 positions, 10 positions and 15 positions (SM22)

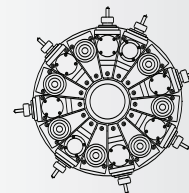
• 6 positions



• 10 positions



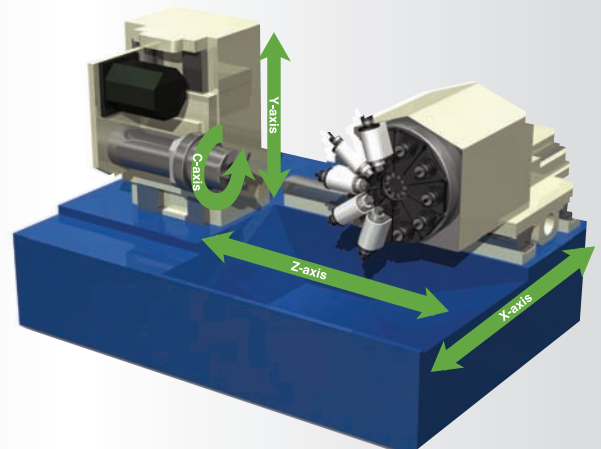
• 15 positions



	SM22-6
Number of tools	6
Live tool speed	Max.3200min ⁻¹
Live tool spindle motor	3.7/5.5kw [5.0/7.5hp]
Max. output	5.5kw [7.5hp]
Collet size	40mm [1.5"]
Max.clamping tool dia.	ø25mm [ø1.0"]

	SM22-10
Number of tools	10
Live tool speed	Max.5000min ⁻¹
Live tool spindle motor	3.7/5.5kw [5.0/7.5hp]
Max. output	3.7kw [5.0hp]
Collet size	32mm [1.25"]
Max.clamping tool dia.	ø20mm [ø0.8"]

	SM22-15
Number of tools	15
Live tool speed	Max.5000min ⁻¹
Live tool spindle motor	3.7/5.5kw [5.0/7.5hp]
Max. output	3.2kw [4.5hp]
Collet size	25mm [1.0"]
Max.clamping tool dia.	ø16mm [ø0.6"]



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