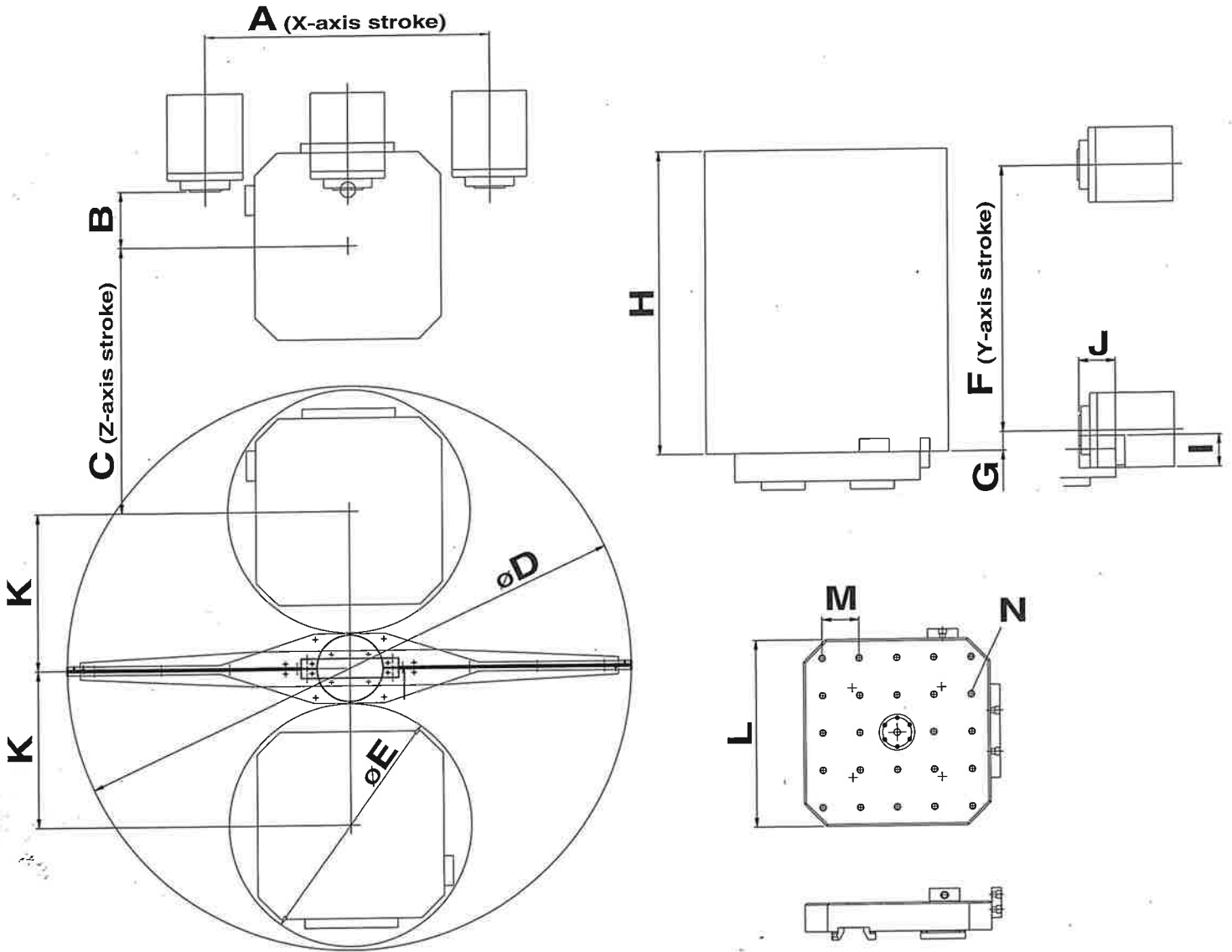


+ FEELER ≠

17.4.24

THREE AXES TRAVEL RANGE



Unit : mm

	FMH-400	FMH-500#40	FMH-500#50	FMH-630	FMH-800	FMH-1000
A	610	762	730	1000	1250	1500
B	130	150	200	200	200	200
C	560	710	710	850	1000	1200
D	1285	1510	1510	2070	2500	2800
E	600	650	650	950	1040	1300
F	560	710	710	850	1050	1200
G	50	50	50	50	50	50
H	660	810	810	950	1150	1300
I	86	86	100	113	125	125
J	95	100	50	115	120	120
K	335	420	420	560	700	800
L	400X400	500X500	500X500	630X630	800X800	1000X1000
M	80	100	100	125	160	160
N	24-M16X2.0P	24-M16X2.0P	24-M16X2.0P	24-M16X2.0P	24-M16X2.0P	24-M16X2.0P

## MACHINE SPECIFICATIONS

TRAVEL	MODEL	FMH-500	
		NO.40	NO.50
X Axis Travel	610 mm	762 mm	730 mm
Y Axis Travel	560 mm	710 mm	
Z Axis Travel	560 mm	710 mm	
Spindle Center to Table Surface	50 mm~610 mm	50 mm~760 mm	
Spindle Nose to Table Center	130 mm~690 mm	150~860 mm	200~910 mm
Table Surface to Floor	1,100~1,150 mm	1,200 mm	
TABLE			
Table Dimensions	400 mm x 400 mm	500 mm x 500 mm	
Max. Loading Weight	400 KG	800 KG	
Screw Specifications	M16XP2		
Min. Indexing Degree	1°/OPT:0.001°/5°		1°/OPT:0.001°/5°
SPINDLE			
Spindle Speed	50~8,000 RPM/ 10,000 RPM (OPT)	8,000 RPM/ 10,000 RPM (OPT)	6,000 RPM/ 8,000 RPM (OPT)
Spindle Nose Taper	7/24 taper NO.40	7/24 taper NO.40	7/24 taper NO.5
Dia. of Spindle	Ø85 mm	Ø85 mm	Ø100 mm
Spindle Motor	Built in 7.5/11 kw	7.5/11 kw	11/15 kw
FEEDRATE			
X Axis Rapid Traverse	30,000 mm/min	30,000 mm/min	
Y Axis Rapid Traverse	30,000 mm/min	30,000 mm/min	
Z Axis Rapid Traverse	30,000 mm/min	30,000 mm/min	
Cutting Feedrate	1-8,000 mm/min	1-8,000 mm/min	
AUTOMATIC TOOL CHANGER			
No. of Tools	40:60/120 (OPT)	40: 60/90 (OPT)	
Pull Stud (degree)	P40T-1	P40T-1	P50T-1
Max. Tool Weight	8 KG	8 KG	20 KG
Max. Tool Length	300 mm	300 mm	400 mm
Max. Tool Diameter	Ø85 mm	Ø85 mm	Ø125 mm
Max. Tool Diameter (no adjacent tool)	140 mm	Ø140	Ø220
Tool Changing Time (tool to tool)	3~4 sec (60 HZ)	3~4 sec (60 HZ)	8 sec (60 HZ)
Tool Changing Time (chip to chip)	6 sec (60 HZ)	6 sec (60 HZ)	12 sec (60 HZ)
Number of Pallets	2	2	
Method of Pallet Change	ROTARY	ROTARY	
Pallet Change Time	8 sec (60 HZ)	10 sec (60 HZ)	
Floor Space	2,885 mm x 3,495 mm	3,131 x 3,950 mm	3,723 x 3,950 mm
Machine Weight (net)	8,500 KG	13,500 KG	16,000 KG
Max. Machine Height	2,784 mm	2,974 mm	3,171 mm
Power Capacity	40KVA		
Air Source	6~8 kgf/cm <sup>2</sup> (85 psi)		

- Specifications subject to change without prior notice.
- FMH-800, FMH-1000 (Under Development).

# Horizontal

## ■ NC Specifications

STANDARD:◎ OPTION:○ NOT AVAILABLE:…

Function	Fanuc		Meldas	Siemens	Heidenhain
	21i	18i	M65S	810DE(840DE)	iTNC530
Controlled axis / (max.)	4	4(6)	4(6)	4(6)	6
Simultaneously controlled axis / (opt.)	3(4)	3(4)	3(4)	3(4)	3(4)
Program storage	640M	640M	600M	1MB(4G)	6G
Registerable program	200	200	400	400	1000
Background editing	◎	◎	◎	◎	◎
Main program / Sub program call	◎	◎	◎	◎	◎
Display	10.4"LCD	10.4"LCD	10.4"LCD	10.4"TFT	15.1"TFT
Graphic display	◎	◎	◎	◎	◎
Tool offset memory / (opt.)	400 Pairs	400 Pairs	400(999)Pairs	600 Pairs	999 Pairs
Tool length compensation	◎	◎	◎	◎	◎
Tool life management	○	○	○	◎	◎
Positioning (G00)	◎	◎	◎	◎	◎
Linear interpolation (G01)	◎	◎	◎	◎	◎
Circular interpolation (G02 ~ G03)	◎	◎	◎	◎	◎
Advanced preview control	◎	◎	◎	◎	◎
Exact stop	◎	◎	◎	◎	◎
Programmable data input (G10)	◎	◎	◎	◎	◎
Single direction positioning (G60)	◎	◎	○	…	…
Cylindrical interpolation	○	○	○	○	○
Canned cycles	◎	◎	◎	◎	◎
Helical interpolation	◎	◎	◎	◎	◎
Scaling (G50 ~ G51)	◎	◎	…	◎	◎
Optional block skip	◎	◎	◎	◎	◎
Skip function (G31)	◎	◎	◎	◎	◎
Multi block skip	○	○	○	○	…
Mirror image	◎	◎	◎	◎	◎
Mirror image G command (G50.1 ~ G51.1)	◎	◎	◎	◎	…
Inch / Metric conversion (G20 ~ G21)	◎	◎	◎	◎	◎
Rigid tapping	◎	◎	◎	◎	◎
Automatic acc. / dec.	◎	◎	◎	◎	◎
Automatic corner deceleration	…	◎	◎	◎	◎
Reference point return (G27 ~ G29)	◎	◎	◎	◎	◎
2nd reference point return (G30 P2)	◎	◎	◎	◎	…
3rd, 4th reference point return (G30 P3 ~ P4)	◎	◎	◎	○	…
Work coordinate system (G52 ~ G59)	◎	◎	◎	◎	◎
Coordinate system setting (G92)	◎	◎	◎	◎	◎
Absolute / Incremental program (G90 ~ G91)	◎	◎	◎	◎	◎
Polar coordinate command (G15 ~ G16)	…	◎	◎	◎	◎
Program coordinate rotation (G68 ~ G69)	◎	◎	◎	◎	◎
Additional work coordinate (G54.1 P1 ~ P48)	◎	◎	◎	◎	◎
Program stop / Program end	◎	◎	◎	◎	◎
Auxiliary function lock	◎	◎	◎	…	…
Dry run, Single block, Manual absolute	◎	◎	◎	◎	◎
Program restart	◎	◎	◎	◎	◎
Override: Feedrate, Rapid travel, Spindle	◎	◎	◎	◎	◎

### ■ Recommended function for mold making

G05.1 Q1 + Data Servo	○	○	○	…	…
G05 P10000 + Data servo	○	○	○	…	…
Fine spline control	…	○	○	○	○
Data server (hard disk or memory card)+Ethernet	○	○	○	○	◎
High precision control (G61.1)	…	…	◎	◎	◎
High speed machining mode (3)	…	…	○	…	○
NURBS	…	○	◎	○	…