

MACHINE SPECIFICATIONS

| TRAVEL | MODEL | UNIT | FMH-400 | FMH-500 | | FMH-500 Premium | FMH-630 | FMH-800 | FMH-1000 | |
|---------------------------------------|-------|--------|-----------------------|-----------------------|----------------------|----------------------|--|----------------------|-----------------------------|-----------------------------|
| | | | No.40 | No.40 | No.50(DDS) | No.50(BELT) | No.40 | No.50 | No.50 | No.50 |
| X Axis Travel | | mm | 610 | 762 | 730 | 730 | 762 | 1,000 | 1,300 | 1,300 |
| Y Axis Travel | | mm | 560 | 710 | | 710 | 850 | 1,020 | 1,020 | 1,020 |
| Z Axis Travel | | mm | 560 | 710 | | 800 | 850 | 1,100 | 1,100 | 1,100 |
| Spindle Center To Table Surface | | mm | 50~610 | 50~760 | | 50~760 | 50~900 | 100~1,120 | 60~1,080 | 60~1,080 |
| Spindle Nose To Table Center | | mm | 130~690 | 150~860 | 100~810 | 100~810 | 100~900 | 200~1,050 | 150~1,250 | 150~1,250 |
| Table Surface To Floor | | mm | 1,140 | 1,200 | | 1,050 | 1,300 | 1,475 | 1,515 | 1,515 |
| TABLE | | | | | | | | | | |
| Table Dimension | | mm | 400 X 400 | 500 X 500 | | | 630 X 630 | 800 X 800 | 1000 X 1000 | 1000 X 1000 |
| Max.loading Weight | | kg | 400 | 1°:500KG/0.001°:600kg | | | 1,200 | 2,000 | 2,000 | 2,000 |
| Screw Specifications | | - | M16 X P2 | M16 X P2 | | | M16 X P2 | M16 X P2 | M20 X P2.5 | M20 X P2.5 |
| Min. Indexing Degree | | degree | 1°(opt:0.001°) | 1°(opt:0.001°) | | | 1°(opt:0.001°) | 1°(opt:0.001/5°) | 1°(opt:0.001) | 1°(opt:0.001) |
| SPINDLE | | | | | | | | | | |
| Spindle Speed | | rpm | 8,000/ 10,000(opt) | 8,000/ 10,000(opt) | 6,000/ 8,000(opt) | 6,000/ 8,000(opt) | 8000/ 12,000(opt) | 6,000/ 8,000(opt) | 6,000/ 8,000(opt) | 6,000/ 8,000(opt) |
| Spindle Nose Taper | | - | 7/24 Taper No.40 | 7/24 Taper No.40 | 7/24 Taper No.50 | 7/24 Taper No.50 | 7/24 Taper No.40 | 7/24 Taper No.50 | 7/24 Taper No.50 | 7/24 Taper No.50 |
| Dia. of Spindle | | mm | Ø85 | Ø85 | Ø90 | Ø100 | Ø80/Ø90 (OPT) | Ø100 | Ø110 | Ø110 |
| Spindle Motor | | kW | (Built in) 7.5/11 | (Built in) 7.5/11 | (DDS) 15/18.5 | (BELT) 7.5/15 | (Built in)18.5/22 (DDS)15/18.5(opt) | (BELT) 11/18.5 | (BELT) 22/26 | (BELT) 22/26 |
| FEEDRATE | | | | | | | | | | |
| X Axis Rapid Traverse | | m/min | 30(60) | 30(60) | 30(48) | 30(48) | 48(60) | 42(48) | 42 | 42 |
| Y Axis Rapid Traverse | | m/min | 30(60) | 30(60) | 30(48) | 30(48) | 48(60) | 42(48) | 42 | 42 |
| Z Axis Rapid Traverse | | m/min | 30(60) | 30(60) | 30(48) | 30(48) | 48(60) | 42(48) | 42 | 42 |
| Cutting Feedrate | | m/min | 20 | 20 | 20 | 20 | 20 | 15(20) | 20 | 20 |
| AUTOMATIC TOOL CHANGER | | | | | | | | | | |
| No. of Tools | | - | 40:60/120(opt) | 40:60/90(opt) | | 40:60/120(opt) | 40:60/90(opt) | 60:90/120(opt) | 60:90/120(opt) | 60:90/120(opt) |
| Pull Stud(degree) | | - | P40T-1 | P40T-1 | P50T-1 | P50T-1 | P40T-1 | P50T-1 | P50T-1 | P50T-1 |
| Max. Tool Weight | | kg | 8 | 8 | 20 | 20 | 12 | 20 | 0~15/15~25 | 0~15/15~25 |
| Max. Tool Length | | mm | 300 | 300 | 500 | 400 | 550 | 500 | 500 | 500 |
| Max. Tool Diameter | | mm | Ø85 | Ø85 | Ø125 | Ø125 | Ø95 | Ø125 | Ø125 | Ø125 |
| Max. Tool Diameter (No Adjacent Tool) | | mm | Ø140 | Ø140 | Ø220 | Ø220 | Ø190 | Ø220 | Ø250 | Ø250 |
| Tool Changing Time (Tool To Tool) | | sec/Hz | 2/60 | 2/60 | 8/60 | 8/60 | 1.3/60 | 8/60 | 3.5/60 Heavy Tool=4.7/60 | 3.5/60 Heavy Tool=4.7/60 |
| Number of Pallets | | - | 2 | | | | | | | |
| Method of Pallet Change | | - | ROTARY | ROTARY | | ROTARY | ROTARY | ROTARY | ROTARY | ROTARY |
| Pallet Change Time | | sec/Hz | 8/60 | 8/60 | | 8/60 | 10/60 | 20/60 | 20 (60HZ) | 20 (60HZ) |
| Floor Space | | mm | 2,610X4,750 | 3,050X5,120 | 3,210X5,120 | 3,210X5,120 | 3,150X5,200 | 4,130X6,624 | 4,900X7,745 | 4,900X7,745 |
| Machine Weight(net) | | kg | 8,500 | 13,500 | 15,000 | 16,000 | 15,000 | 19,000 | 30,000 | 30,000 |
| Max. Machine Height | | mm | 2,730 | 2,915 | 3,280 | 3,280 | 2,900 | 3,661 | 4,060 | 4,060 |
| Power Capacity | | KVA | 40 | | | | 65 | 70 | 70 | 70 |
| Air Source | | bar | 6~8(85psi) | | | | | | | |

- Specifications are subject to change without prior notice.
- Heavy Tool definition = Over 15kg Tool.