

2.2 Specification

| Item | Unit | VMC-1600F |
|--------------------------------------|-------|------------------------------------|
| Spindle | | |
| Spindle nose taper | | ISO40 / ISO50 (opt.) |
| Spindle speed | rpm | 10000 / 6000 (opt.) |
| Spindle throat | mm | 710 |
| Spindle bearing inside diameter | mm | 70 |
| Spindle drive | ISO40 | Belt driven |
| | ISO50 | Geared head w/belt driven |
| Automatic tool changer (opt.) | | |
| No. of tools | | 24(ISO40) / 32(ISO50) |
| Tool selection | | ARM TYPE |
| Tool holder type | | BT / CAT / -#40; / DIN69871 |
| Max. tool dia. | mm | $\phi 78$ / $\phi 76$ / $\phi 125$ |
| Max. tool weight | kg | 7(ISO40) / 15(ISO50) |
| Table | | |
| Table size overall | mm | 1800 x 800 |
| T slot (width x pitch x number) | mm | 18 x 135 x 6 |
| Table load capacity | kg | 2000 |
| Table height | mm | 880 |
| Traverse | | |
| X axis travel | mm | 1600 |
| Y axis travel | mm | 800 |
| Z axis travel | mm | 710 |
| Spindle nose to table | mm | 150-860 |
| Ballscrew | | |
| Transmission | | Direct |
| X axis | | $\phi 50$ x P12 x C3 |
| Y axis | | $\phi 50$ x P12 x C3 |
| Z axis | | $\phi 40$ x P12 x C3 |
| Performance | | |
| Positioning accuracy | inch | ± 0.005 |
| Repeatability | inch | 0.005 |

Microcut

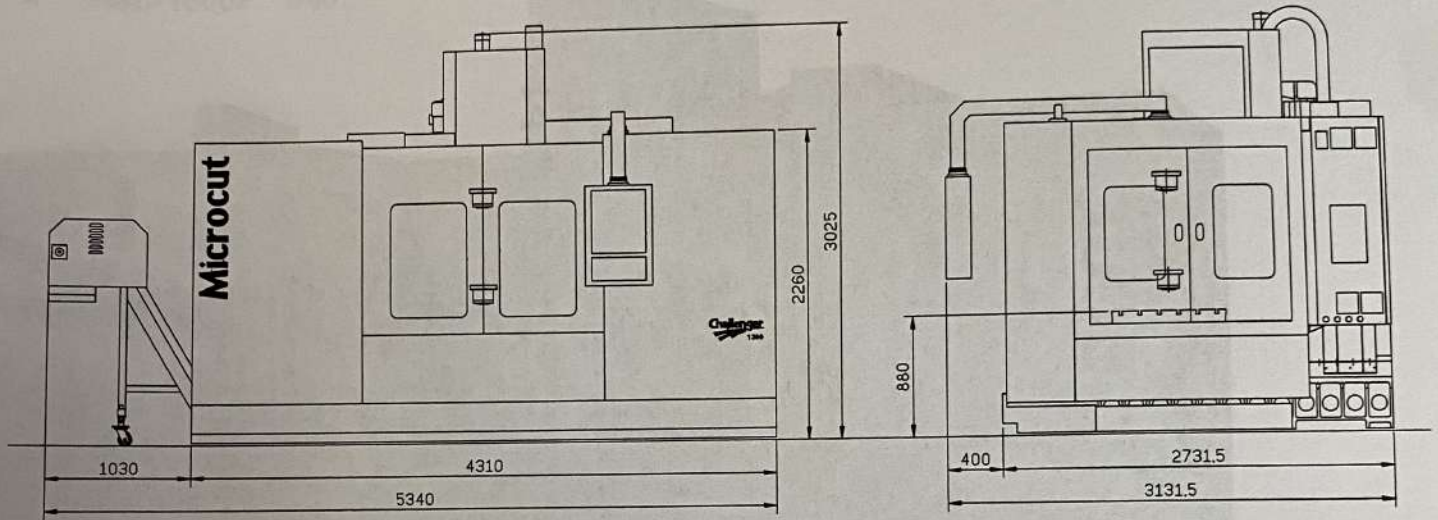
MACHINE MANUAL
VMC-1600

| | | |
|----------------------------------|-------|--------------------------------------|
| Rapid traverse (X / Y / Z) | m/min | 24 |
| Feed rate | m/min | 10 |
| Guide ways | | |
| X-width x thick x guide distance | mm | 90 x 40 x 600 |
| Y-width x thick x guide distance | mm | 90 x 40 inside 690, outside 1450 |
| Z-width x thick x guide distance | mm | 90 x 40 x 480 |
| Motor | | |
| Spindle motor | kW | 15/18.5 (ISO 40) 18.5/22 (ISO 50) |
| X axis motor | kW | 30 (Fanuc) |
| Y axis motor | kW | 30 (Fanuc) |
| Z axis motor | kW | 30 (Fanuc) |
| Machine size | | |
| Machine height | mm | 3100 |
| Floor space | mm | 5410 x 4550 |
| Machine weight | kg | 12000 |
| Splash guard weight | | |
| Front repairs (L) | kg | 150 |
| Front repairs (R) | kg | 150 |
| Sliding front door (L) | kg | 60 |
| Sliding front door (R) | kg | 60 |
| Main coolant tank | kg | 130 |
| Coolant tank (L) | kg | 120 |
| Coolant tank (R) | kg | 120 |
| Chip conveyor | kg | 350 |
| Chip bucket | kg | 50 |
| ATC - #40 24T | kg | 400 |
| ATC - #50 32T | kg | 700 |
| ATC - #50 24T | kg | 1000 |

*Specifications are subject to change without notice.

2.3 Layout

■ VMC-1600F



■ VMC-1600F #50

