

**KIWA** Japan

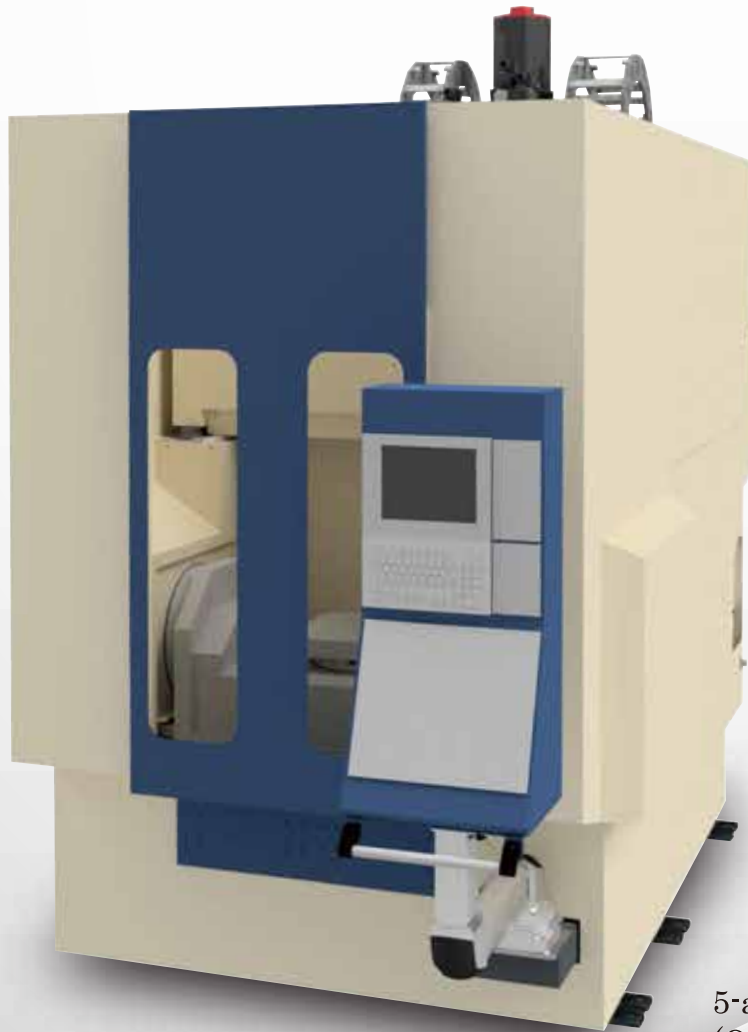
# Triple V40

Column Traverse Type Vertical Machining Center



**NEW**

**Space-Saving Design**



5-axis Machine  
(Option)

**KIWA MACHINERY CO., LTD.**

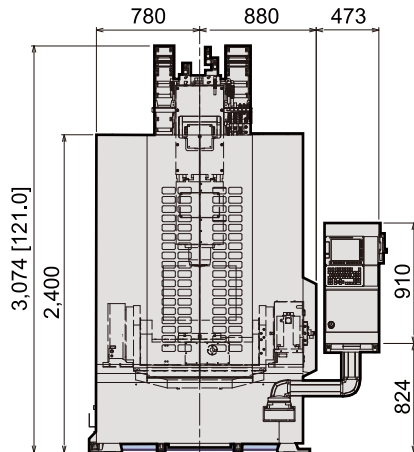
# Triple V40 5-axis Machine

| ● TRAVEL                            |                   |   | ● FEED                       |                  |   |
|-------------------------------------|-------------------|---|------------------------------|------------------|---|
| X, Y, Z axes                        | mm [inch]         | 550 x 550 x 410 [21.7 x 21.7 x 1 6.1]               | Rapid feed (X/Y/Z)           | mm/min. [ipm]    | 60,000 [2,362.2]  |
| Spindle nose to table top           | mm [inch]         | 100 to 510 [3.9 to 20.1]                            | Cutting feed                 | mm/min. [ipm]    | 30,000 [1,181.1]  |
| Pallet top height (from the floor)  | mm [inch]         | 900 [35.4]  | ● MOTOR                      |                  |   |
| ● TILTING ROTARY TABLES (Option)    |                   |   | Spindle motor                | kW [hp]          | 22/15 [30/20]<br>(OP. 15/7.5 [20/10] for 12,000 min <sup>-1</sup> ) |
| Pallet size                         | mm [inch]         | Dia. 320 [Dia. 12.6]                                | Feed axes motors (X/Y/Z/A/C) | kW [hp]          | 3.0/3.0x2/5.5/4.5/4.5 [4.0/4.0x2/7.4/6.0/6.0]                       |
| Max. workpiece size                 | mm [inch]         | Dia. 700 x 300 [Dia. 27.6 x 11.8]                   | Lubrication pump motor       | W [hp]           | 24 [0.032]  |
| Max. load                           | kg [lbs]          | 250 [550]   | Coolant pumps                | W [hp]           | 600 x 2 [0.8]   |
| Tilting angle                       | degrees           | +30 to -120   | Hydraulic pump               | kW [hp]          | 2.8 [3.8]   |
| Tilting speed                       | min <sup>-1</sup> | 16.6  | ● SUPPLY                     |                  |   |
| Rotating speed                      | min <sup>-1</sup> | 33.3  | Electric voltage             | V                | 200 to 220 (50/60Hz)  |
| Number of hydraulic/pneumatic ports |                   | 8   | Electric power supply        | KVA              | 41  |
| Number of coolant port              |                   | 1   | Air pressure                 | MPa [psi]        | 0.4 [58]  |
| ● AUTOMATIC TOOL CHANGER            |                   |   | Air volume                   | liters [gal]/min | 360 [95]  |
| Type of tool shank                  |                   | MAS BT40/CAT40                                      | ● LUBRICATION                |                  |   |
| Type of pull-stud                   |                   | JIS   | Spindle                      |                  | Grease  |
| Number of tools                     |                   | 20  | Ballscrews                   |                  | Grease (Automatically supplied)                                     |
| Max. tool diameter                  | mm [inch]         | Dia. 90/180 [Dia. 3.5/7.1]                          | Roller guides                |                  | Grease (Automatically supplied)                                     |
| (Adjacent pots full/empty)          |                   |   | ● TANK                       |                  |   |
| Max. tool length                    | mm [inch]         | 300 [11.8]  | Hydraulic unit tank          | liters [gal]     | 18 [4.8]  |
| Max. tool weight                    | kg [lbs]          | 8 [17.6]  | Coolant tank                 | liters [gal]     | 450 [118.9]   |
| Tool selection system               |                   | Fixed tool pot                                      | Grease cartridge             | liters [gal]     | 0.7 [0.2]   |
| Chip to chip                        | sec.              | 3.2 with min. index / 4.1 with max. index           | ● SIZE                       |                  |   |
| ● SPINDLE                           |                   |   | Floor space                  | mm [inch]        | 1,660x3,223 [65.4x126.9] (w/o Coolant tank/Conveyor)                |
| Spindle speed                       | min <sup>-1</sup> | 8,000 Direct drive (OP. 12,000 Direct drive)        | Machine height               | mm [inch]        | 3,074 [121.0]   |
| Spindle rated torque                | Nm                | 140 (OP. 96 [S3 25%] for 12,000 min <sup>-1</sup> ) | Machine weight               | kg [lbs]         | 6,500 [14,330]  |
| Spindle taper                       |                   | ISO 7/24 Taper NT No.40                             |                              |                  |   |

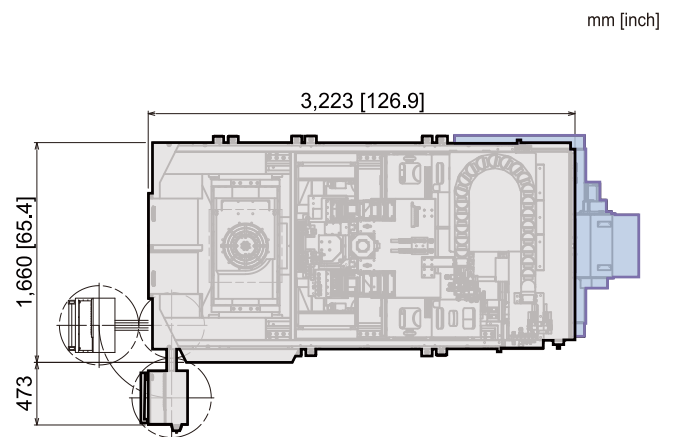
## FANUC Oi-MF (Package 1) ● Standard Features □ Options

- Controlled axes: 3 (OP. Max. 5)
- Max. simultaneously controlled axes: 3 (OP. Max. 4)
- Spindle override 50-150% (each 10%)
- Cutting feed override 0-200% (each 10%)
- Rapid traverse override 1,2,4,8,15,25,50,100%
- Rapid traverse bell-shaped acceleration/deceleration
- Manual handle feed 1 unit
- Thread cutting, synchronous cutting
- Workpiece coordinate system
- Addition of workpiece coordinate system 48 sets
- Programmable data input G10
- Custom macro
- Canned cycles for drilling
- Scaling
- Rigid tapping
- Tool offset: 400 pcs
- Tool radius / Tool nose radius compensation
- Stored pitch error compensation
- Part program storage: 512 Kbyte
- Number of registrable programs: 400 pcs
- Background editing
- Run hour and parts count display
- Single direction positioning
- Cylindrical interpolation
- Helical interpolation
- AI advanced preview control (20 look-ahead blocks)
- Optional chamfering / corner R
- Automatic corner override
- Programmable mirror image
- Coordinate system rotation
- Tool offset memory C
- Tool life management
- AI contour control (40 look-ahead blocks)
- AI contour control II (200 look-ahead blocks)
- Optional block skip

## MACHINE SIZE (5-axis Machine)



【Front View】



【Top View】

Coolant Tank/Chip Conveyor

Specifications and dimensions are subject to change without notice.

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