

KIWA Japan

Triple H40

Column Traverse Type Horizontal Machining Center



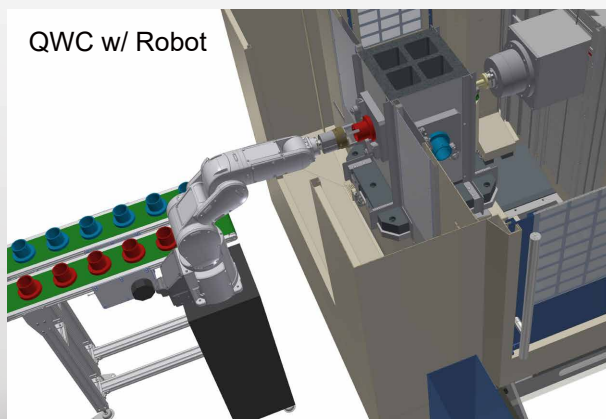
What is QWC ?

The QWC (Quick Work Changer) is Kiwa's unique option for the Triple H40.

Adding a 4th-axis rotary table on a single pallet machine, it performs like a machine with APC. This option also realizes quicker work change compared to the ordinary APC. The machining area and machine front area are divided by slide doors. Workpiece load/unload is possible during cutting (Workpiece on 3 faces can be cut.)

Integration of a robot will help realization of automated mass production solution.

Quick Work Changer



KIWA MACHINERY CO., LTD.

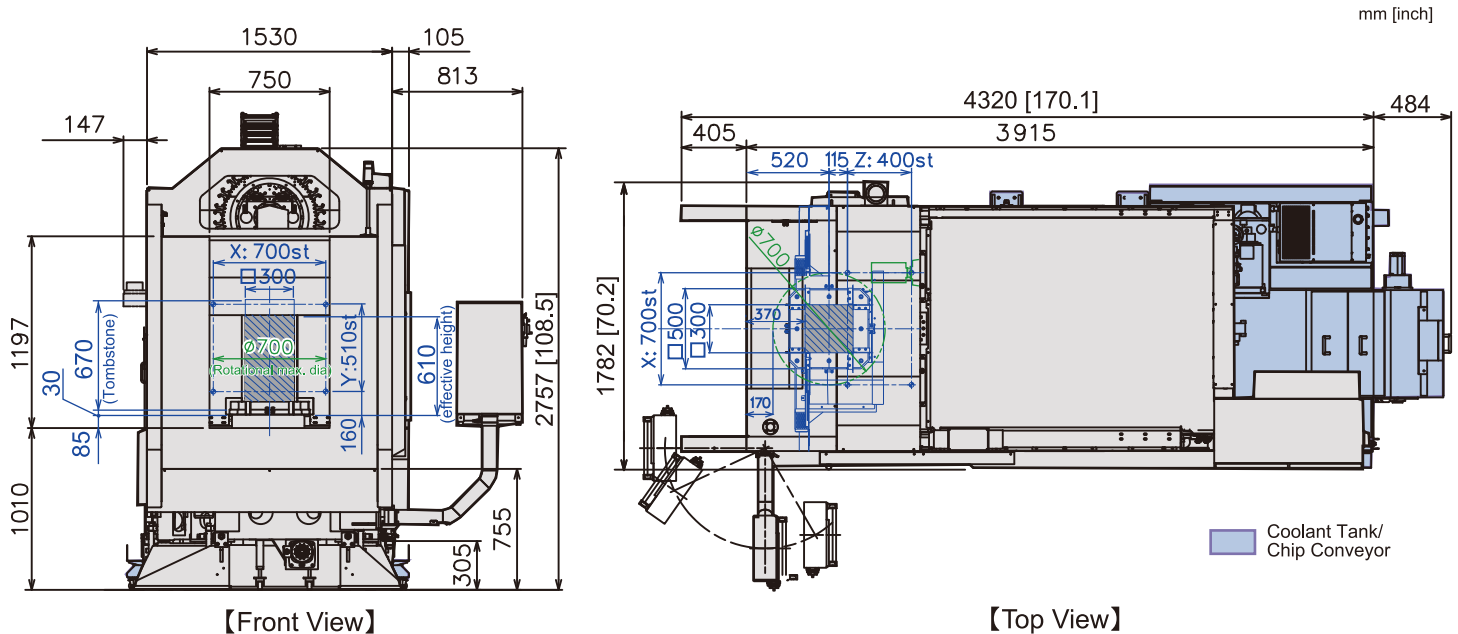
Triple H40 with Quick Work Changer

| | | | |
|------------------------------------------------|---------------------------------------------------------------|----------------------------------------------|-------------------------------------------------------------------------------------------|
| ● TRAVEL | | ● SPINDLE | |
| X, Y, Z axes | 700x510x400 mm [27.6"x20.1"x15.7"] | Spindle speed | 8,000 min ⁻¹ (OP. 12,000 min ⁻¹) |
| Spindle nose to table center | 115 to 515 mm [4.5" to 20.3"] | Max. torque | 140 Nm (OP. 96 Nm for 12,000 min ⁻¹) |
| ● QUICK WORK CHANGER (Option) | | Spindle taper | 7/24 Taper No. 40 |
| Tombstone size | 300x300 square (4 faces) | ● MOTOR | |
| Rotational max. diameter | Dia. 700 mm [Dia. 27.6"] | Spindle motor | 22 / 15 kW [29.5 / 20 HP] (OP. 15 / 7.5 kW [20 / 10 HP] for 12,000 min ⁻¹) |
| Max. load | 650 kgs [1,430 lbs] (including Tombstone) | Feed axis motors (X/Y/Z/B) | 3.0 / 7.0 / 3.0 / 4.5 kW [4.0 / 9.4 / 4.0 / 6.0 HP] |
| Number of ports | 8 hydraulic / pneumatic ports (Max. 3.5MPa) 1 coolant port | Lubrication pump motor | Grease: 20W [0.027 HP] |
| ● AUTOMATIC TOOL CHANGER | | Coolant pumps | 600 W [0.8 HP] x 3 |
| Type of tool shank | BT40 / CAT40 | Hydraulic pump | 2.2 kW [3.0 HP] |
| Type of pull-stud | JIS | ● SUPPLY | |
| Number of tools | 20 (OP. 40 / 60) Note: 60ATC uses Tool change arm. | Electric voltage | 200 V 50/60 Hz |
| Max. tool diameter (Adjacent ports full/empty) | Dia. 90 / 180 mm [Dia. 3.5" / 7.1"] | Electric power supply | 31 kVA |
| Max. tool length | 300 mm [11.8"] | Air pressure | 0.4 MPa [58 psi] |
| Max. tool weight | 8 kgs [17.6 lbs] | Air volume | 360 liters/min. [95 gal/min.] |
| Tool selection system | Fixed tool pot | ● TANK | |
| Chip to chip | 4.5 sec. with min. index 5.5 sec. with max. index | Coolant tank | 450 liters [119 gal.] |
| ● FEED | | ● SIZE | |
| Rapid feed | 60,000 mm/min. [2,362 ipm] | Floor space (w/o Coolant tank/Chip conveyor) | 1,782 x 4,320 mm [70.2" x 170.1"] |
| Cutting feed | 30,000 mm/min. [1,181 ipm] | Machine height | 2,757 [108.5"] with 20ATC |
| | | Machine weight | 7,300 kgs [16,060 lbs] with 20ATC |

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

- Controlled axes: 4
- Max. simultaneously controlled axes: 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



Specifications and dimensions are subject to change without notice.

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