

MV3

Vertical machining center

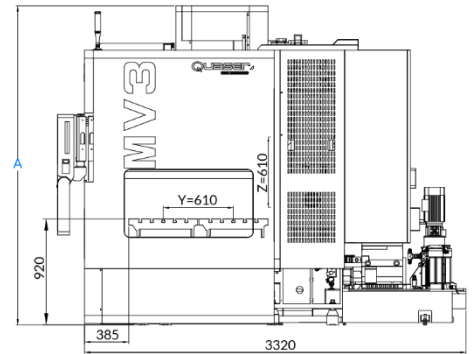
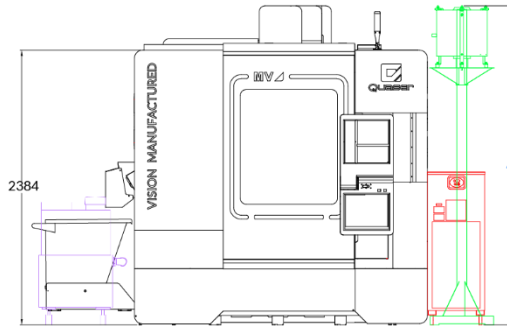
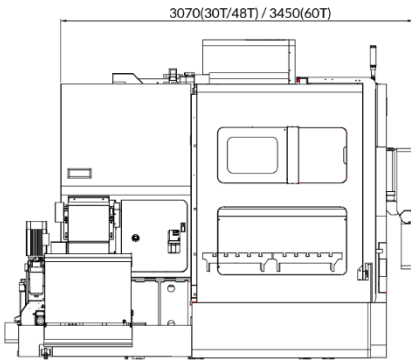
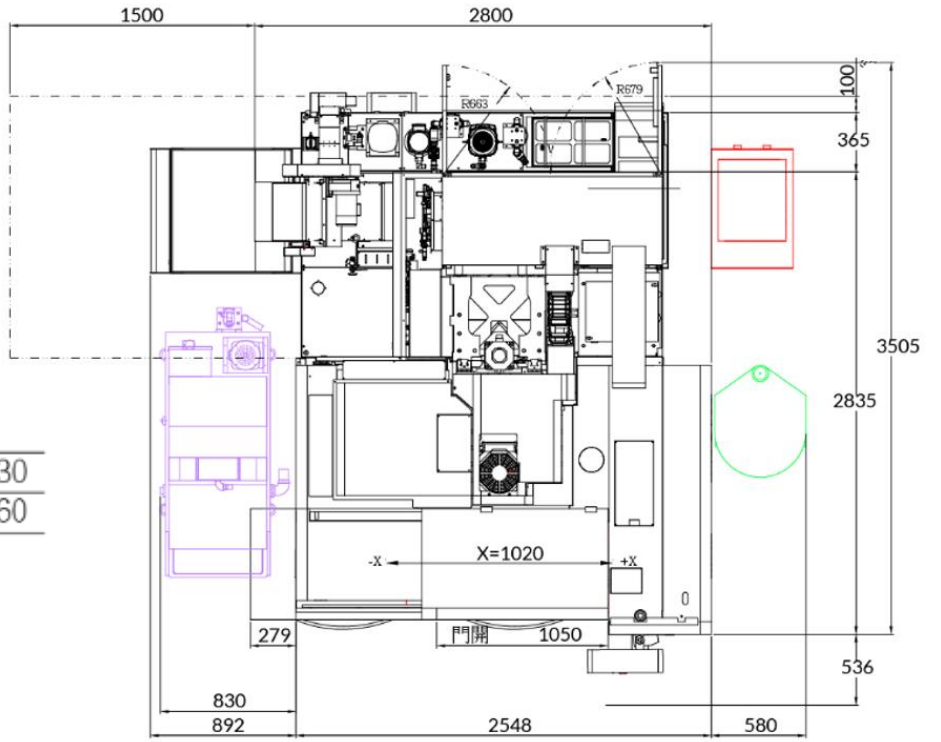


MV3 Layout

Installation dimension

5

A	12C/15C/20C	3030
	12B	2860



Technical Data

Technical Data	MV3
Spindle code	12C
Main spindle	
Spindle taper	40 Taper
Work range	
Table size (mm)	1,200 x 600
Travel X / Y / Z (mm)	1,020 / 610 / 610
Spindle nose to table surface (mm)	100~710
Table load capacity (kg)	500

Feed drive

Feed force X / Y / Z (N)	F	6,283 / 6,283 / 11,519
	T	6,807 / 6,807 / 9,268
	S	6,283 / 6,283 / 14,137
Rapid movement X / Y / Z (m/min)		32 / 32 / 32 (F) (T) (S)
⁽¹⁾ Acceleration X / Y / Z (m/s ²)	F	3.5 / 3.5 / 3
	T	2 / 2 / 2
	S	3.5 / 2.5 / 2
Dia. & pitch of the ball screw (mm)		Ø45 / P = 12 / 12 / 12

Tool changer

Tool selection	Random
Magazine positions	30 (std.) 48 / 60 (opt.)
Max. tool diameter (mm)	76.2
Max. tool dia. Due to neighbor pots are empty (mm)	125
Max. tool length (mm)	280
Max. tool weight (kg)	7
CTC time-ISO 10791.9(SEC.)-60Hz	4.7±0.2

Technical Data

MV3			
15C	20C ⁽²⁾	18M	24M
40 Taper			
1,200 x 600			
1,020 / 610 / 610			
100~710			
500			

4,712 / 4,712 / 11,519
6,951 / 6,951 / 13,666
4,712 / 4,712 / 14,137
40/40/36(F)(T)(S)
4 / 4 / 4
3.5 / 2.5 / 5
4 / 2.5 / 5
Ø45 / P = 16 / 16 / 12

Random
30 (std.) 48 / 60 (opt.)
76.2
125
280
7
4.7±0.2

Technical Data

Technical Data	MV3
Spindle code	12C
Main spindle	
Spindle taper	40 Taper
Coolant system	
Coolant tank capacity (Liter)	480L
Pump capacity	
-Nozzle coolant	75L / min, 3bar
-Coolant through spindle	25L/min, 8bar
-Wash down	75L / min, 3bar
Machine Size	
Height (mm)	3,030
Floor space W x D (mm)	
30ATC / 48ATC / 60ATC	2,830 x 3,340
Weight (kg)	7,090
Connections	
Main power	220~230V / 50~60 Hz, 380~415V/50~60Hz
Power consumption (KVA)	30 (F)(T)(S)

Note: ⁽¹⁾ Test condition: values are measured by half of the maximum table load capacity.

⁽²⁾ Only for FANUC control.

* Machine specification might be different from the catalogue if there is any specification update.

Technical Data

MV3			
15C	20C ⁽²⁾	18M	24M
40 Taper			
480			
75L / min, 3bar			
25L/min, 8bar			
25L/min, 8bar			
3,030			
2,830 x 3,340			
7,090			
220~230V / 50~60 Hz, 380~415V/50~60Hz			
30 (F)(S) 35 (T)		40 (F) 45 (S) 50 (T)	

Control: (F): FANUC (T): HEIDENHAIN (S): SIEMENS

Standard/ Option Accessories

Standard / Optional Accessories	MV3				
	12C	15C	20C	18M	24M
Spindle code					
FANUC	○	○	○	○	○
HEIDENHAIN	○	○	×	○	○
SIEMENS	○	○	×	○	○
40 Taper 30 position tool magazine	●	●	●	●	●
40 Taper 48 position tool magazine	○	○	○	○	○
40 Taper 60 position tool magazine	○	○	○	○	○
ATC auto door	●	●	●	●	●
Tooling - BT40	●	●	●	●	●
- ISO40 & DIN40	○	○	○	○	○
- HSK A63	×	○	○	○	○
Pull stud for BT tooling	●	●	●	●	●
Balance tooling for spindle warm up	●	●	●	●	●
4th axis preparation	●	●	●	●	●
Ø255mm rotary table & tail stock	○	○	○	○	○
Transformer ⁽¹⁾	○	○	○	○	○
Linear scale	○	○	○	○	○
Work probe	○	○	○	○	○
Tool length / breakage measurement	○	○	○	○	○

Standard/ Option Accessories

Standard / Optional Accessories	MV3				
	12C	15C	20C	18M	24M
Spindle code					
Coolant system	●	●	●	●	●
Coolant wash down / wash gun	●	●	●	●	●
Coolant through ball screw	○	○	○	○	○
Coolant through spindle 8 bar	●	●	●	●	●
Coolant through spindle 20 bar	○	○	○	○	○
Coolant through spindle 50 bar	○	○	○	○	○
Cutter air blast	●	●	●	●	●
Chip auger	●	●	●	●	●
Scraper external lift-up conveyor	●	●	●	●	●
Oil-mist collector	○	○	○	○	○
Filtration unit	○	○	○	○	○
Documentation (USB) ⁽²⁾	●	●	●	●	●
Total Enclosure Guard (with Top side cover)	●	●	●	●	●
Work light	●	●	●	●	●
Machine status light	●	●	●	●	●
CE	●	●	●	●	●

Note: ⁽¹⁾ Transformer will be varied according to control system and power supply condition.

⁽²⁾ Paper documentation is optional.

- Machine specification might be different from the catalog if there is any specification update.