

Vertical Machining Centre

The MV range of vertical machining centres offers high speed, high power machining and a rigid cast iron frame with large X & Y travels on a compact footprint.



Main spindle: (B) Belt spindle (C) Coupling spindle (A) Oil air motor spindle

MV154 / MV184									
P					M				
9B	12B	15C	20C ⁽⁵⁾	18A	24A	15C	20C ⁽⁵⁾	18A	24A
900 x 500					1,200 x 600				
762 / 530 / 560					1,020 / 610 / 610				
150~ 710					100~ 710				
500									
4,712 / 4,712 / 11,519					-				
6,951 / 6,951 / 11,310		6,951 / 6,951 / 13,666			17,279 / 17,279 / 23,562		-		
-					-				
4,712 / 4,712 / 14,137					-				
40 / 40 / 36 (F)(T)(S)					24 (F)(T)		24 (T)		
6 / 5 / 4					-				
5 / 4 / 5					10 / 10 / 8.5				
-					-				
6 / 5 / 5					-				
Ø45 / P = 16 / 16 / 12					Ø45 / P = 8 / 8 / 8				
0.008 / 0.004									
± 0.003 / ± 0.002									
0.008 / 0.004									
40 Taper									
9,000	12,000	15,000	20,000	18,000	24,000	15,000	20,000	18,000	24,000
1,125 / -	1,500 / -	1,400 / -	1,500 / -	-	-	1,400 / -	1,500 / -	-	-
1,125	1,500	2,000	-	2,000	2,850	2,000 / -	-	2,000 / -	2,850 / -
25 / -	26 / -	15 ⁽²⁾ / -	-	-	-	26 / -	15 ⁽²⁾ / -	-	-
32 / 28.5	27.7	-	23 ⁽¹⁾	24 ⁽¹⁾	27.7 / -	-	23 ⁽¹⁾ / -	24 ⁽¹⁾ / -	
212 / -	159 / -	177 / -	96 ⁽²⁾ / -	-	-	177 / -	96 ⁽²⁾ / -	-	-
272 / 242	204 / 182	132	-	113.8 ⁽¹⁾	82 ⁽¹⁾	132 / -	-	113.8 ⁽¹⁾ / -	82 ⁽¹⁾ / -
Belt		Coupling		Motor spindle		Coupling		Motor spindle	
Ø70		Ø70(Ø80)		Ø70		Ø70(Ø80)		Ø70	

Continued »

Main spindle: (B) Belt spindle (C) Coupling spindle (A) Oil air motor spindle

MV154 / MV184									
P					M				
9B	12B	15C	20C ⁽⁵⁾	18A	24A	15C	20C ⁽⁵⁾	18A	24A
Random									
30 (std.) 48 & 60 (opt.)									
76.2					76.2				
125					125				
280					280				
7					7				
4 (F) 4.5(T) 5.5(S)					4 (F) 5(T) 5(T)				
300									
75 L / min., 3 bar					75 L / min., 3 bar				
25 L / min., 8 bar					25 L / min., 20 bar				
75 L / min., 3 bar					75 L / min., 3 bar				
2,955 / 2,860		3,055 / 3,065			3,020 / 2,870		3,055 / 3,065		3,020 / 2,870
2,540 x 2,600 2,760 x 2,800									
2,540 x 2,625 / 2,540 x 3,005 2,760 x 2,835 / 2,760 x 3,210									
6,400 7,390									
200V / 60Hz or 400V / 50Hz									
25 (F)(T) 29 (S)		33 (F) (T) 38 (S)			42 (T) 35 (S)		33 (F)(T)		43 (T)

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

● =Standard ○ =Option x =N/A

Standard / Option accessories	MV154 / MV184				
	C			E	
Spindle code	10B	10C	12C	9B	12B
■ QUASER mill i	○	○	○	○	○
■ FANUC 31iB	X	X	X	X	X
■ AICCI (Look-ahead 200 blocks)	○	○	○	○	○
■ FANUC - data server	○	○	○	○	○
■ FANUC - high speed processing (Look-ahead 600 blocks)	X	X	X	X	X
■ HEIDENHAIN TNC640	X	X	X	X	X
■ HEIDENHAIN Option2	X	X	X	X	X
■ HEIDENHAIN TNC620	X	X	X	○	○
■ SIEMENS 828D	○	○	○	X	X
■ MITSUBISHI M80 (package A)	X	○	○	X	X
■ MITSUBISHI M830	X	○	○	X	X
■ Tooling – BT40	●	●	●	●	●
– ISO40 & DIN	○	○	○	○	○
– HSK A63	X	X	X	X	X
■ Pull stud for BT tooling	○	○	○	●	●
■ Balance tooling for spindle warm up	○	○	○	●	●
■ Spindle re-greasing system	X	X	X	●	●
■ BBT spindle attachment (simultaneous contact)	●	●	●	●	●
■ Spindle ECO cooler	●	●	X	●	●
■ Spindle oil chiller ⁽¹⁾	○	○	●	○	○
■ 30 position tool magazine	●	●	●	●	●
■ 48 position tool magazine	X	X	X	○	○
■ 60 position tool magazine	X	X	X	○	○
■ ATC auto door	X	X	X	○	○
■ 4 th axis preparation	X	X	X	●	●
■ Ø255 mm rotary table & tail stock	X	X	X	○	○
■ Remote MPG *	○	○	○	○	○
■ Transformer	○	○	○	●	●
■ Linear encoder	X	X	X	○	○
■ Coolant through ball screw	X	X	X	X	X
■ Thermal compensation	X	X	X	X	X
■ Spindle nose thermal compensation package (Z direction < 15µm)	X	X	X	X	X
■ Work probe	X	X	X	○	○
■ Tool length / breakage measurement	○	○	○	○	○
■ Coolant wash down & wash gun	●	●	●	●	●
■ 8 bar through spindle coolant	X	X	○ ⁽²⁾	●	●
■ 20 bar through spindle coolant	X	X	○ ⁽²⁾	○	○
■ 50 bar through spindle coolant	X	X	○ ⁽²⁾	○	○
■ Stainless steel chip pan	●	●	●	●	●
■ Cutter air blast	●	●	●	●	●
■ Chip conveyor	○	○	○	●	●
■ Oil-mist collector	○	○	○	○	○
■ Bag filtration	○	○	○	○	○
■ Filtration unit	○	○	○	○	○
■ Documentation (paper)	○	○	○	○	○
■ Foundation bolts & blocks	●	●	●	●	●
■ Work light	●	●	●	●	●
■ Machine status light	●	●	●	●	●
■ CE & EMC ⁽³⁾ / GB	○	○	○	○	○

Note: ⁽¹⁾The chiller cooling capacity are different depends on models. ⁽²⁾ Not available on Fanuc model.⁽³⁾Standard for Eu area except C type. * HEIDENHAIN standard

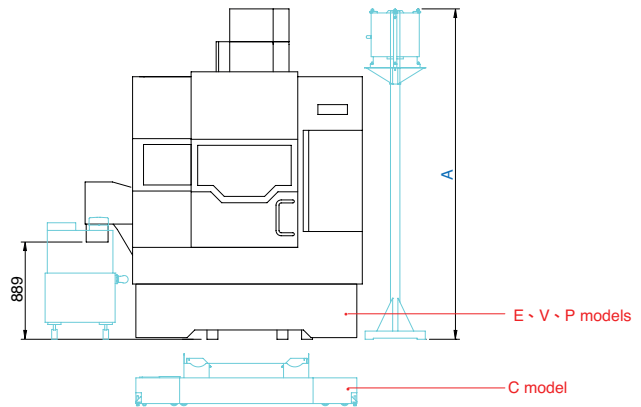
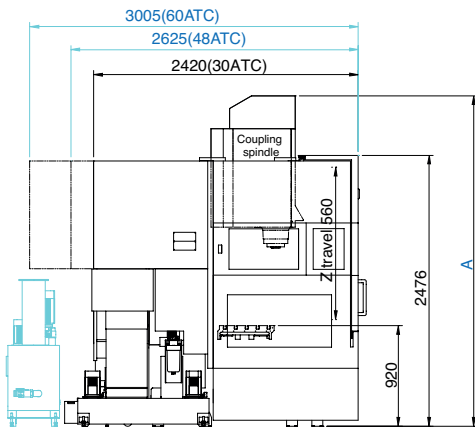
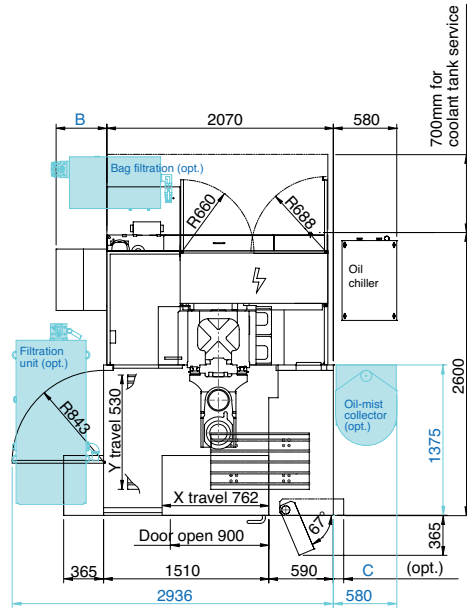
● =Standard ○ =Option x =N/A

Standard / Option accessories	MV154 / MV184									
	P						M			
Spindle code	9B	12B	15C	20C	18A	24A	15C	20C	18A	24A
■ QUASER mill i	X	X	X	X	X	X	X	X	X	X
■ FANUC 31iB	○	○	○	○	X	X	○	○	○	X
AICCII (Look-ahead 200 blocks)	○	○	○	○	X	X	○	○	○	X
FANUC - data server	○	○	○	○	X	X	○	○	○	X
FANUC - high speed processing (Look-ahead 600 blocks)	○	○	○	○	X	X	○	○	○	X
■ HEIDENHAIN TNC640	○	○	○	X	○	○	○	○	X	○
HEIDENHAIN Option2	○	○	○	X	○	○	○	○	X	○
■ HEIDENHAIN TNC620	X	X	X	X	X	X	X	X	X	X
■ SIEMENS 828D	○	○	○	X	○	○	○	X	X	X
■ MITSUBISHI M80 (package A)	X	X	X	X	X	X	X	X	X	X
■ MITSUBISHI M830	X	X	X	X	X	X	X	X	X	X
■ Tooling – BT40	●	●	●	●	X	X	●	●	X	X
– ISO40 & DIN	○	○	○	○	X	X	○	○	X	X
– HSK A63	X	X	○	○	●	●	○	○	●	●
■ Pull stud for BT tooling	●	●	●	●	X	X	●	●	X	X
■ Balance tooling for spindle warm up	●	●	●	●	●	●	●	●	●	●
■ Spindle re-greasing system	●	●	●	●	X (Oil-Air)	X (Oil-Air)	●	●	X (Oil-Air)	X (Oil-Air)
■ BBT spindle attachment (simultaneous contact)	●	●	●	●	X	X	●	●	X	X
■ Spindle ECO cooler	●	●	X	X	X	X	X	X	X	X
■ Spindle oil chiller ⁽¹⁾	○	○	●	●	●	●	●	●	●	●
■ 30 position tool magazine	●	●	●	●	●	●	●	●	●	●
■ 48 position tool magazine	○	○	○	○	○	○	○	○	○	○
■ 60 position tool magazine	○	○	○	○	○	○	○	○	○	○
■ ATC auto door	○	○	○	○	○	○	○	○	○	○
■ 4 th axis preparation	●	●	●	●	●	●	●	●	●	●
■ Ø255 mm rotary table & tail stock	○	○	○	○	○	○	○	○	○	○
■ Remote MPG *	○	○	○	○	○	○	●	●	●	●
■ Transformer	●	●	●	●	●	●	●	●	●	●
■ Linear encoder	○	○	○	○	○	○	●	●	●	●
■ Coolant through ball screw	○	○	○	○	○	○	●	●	●	●
■ Thermal compensation	○	○	○	○	○	○	●	●	●	●
■ Spindle nose thermal compensation package (Z direction < 15µm)	○	○	○	○	○	○	●	●	●	●
■ Work probe	○	○	○	○	○	○	○	○	○	○
■ Tool length / breakage measurement	○	○	○	○	○	○	○	○	○	○
■ Coolant wash down & wash gun	●	●	●	●	●	●	●	●	●	●
■ 8 bar through spindle coolant	●	●	●	●	●	●	X	X	X	X
■ 20 bar through spindle coolant	○	○	○	○	○	○	●	●	●	●
■ 50 bar through spindle coolant	○	○	○	○	○	○	○	○	○	○
■ Stainless steel chip pan	●	●	●	●	●	●	●	●	●	●
■ Cutter air blast	●	●	●	●	●	●	●	●	●	●
■ Chip conveyor	●	●	●	●	●	●	●	●	●	●
■ Oil-mist collector	○	○	○	○	○	○	○	○	○	○
■ Bag filtration	○	○	○	○	○	○	○	○	○	○
■ Filtration unit	○	○	○	○	○	○	○	○	○	○
■ Documentation (paper)	○	○	○	○	○	○	○	○	○	○
■ Foundation bolts & blocks	●	●	●	●	●	●	●	○	●	●
■ Work light	●	●	●	●	●	●	●	●	●	●
■ Machine status light	●	●	●	●	●	●	●	●	●	●
■ CE & EMC ⁽³⁾ / GB	○	○	○	○	○	○	○	○	○	○

- For C series ambient temperature greater then 35°C, the cabinet heat exchanger is required.

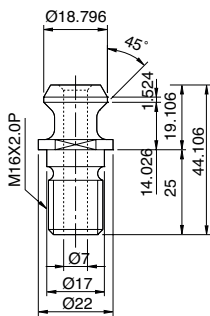
Installation dimensions:

MV154 C / E / P / M		
A	10C / 12C	3,060
	9B / 10B / 12B	2,955
	15C / 20C	3,055
	18A / 24A	3,020
B	Chip conveyor	465
C	M720	95

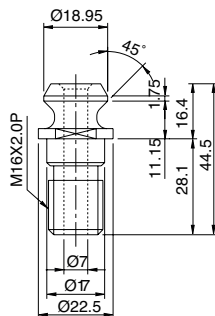


Pull stud and applicable tools:

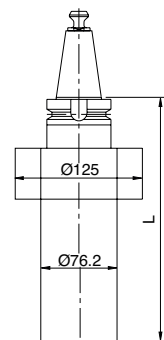
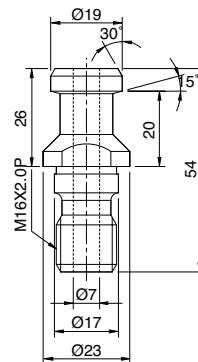
BT 40



ISO (7388-B)



DIN (69872-A)



Installation dimensions:

MV184 C / E / P / M		
A	10C / 12C	3,070
	9B / 10B / 12B	2,860
	15C / 20C	3,065
	18A / 24A	2,870
B	Chip conveyor	465
C	M720	95

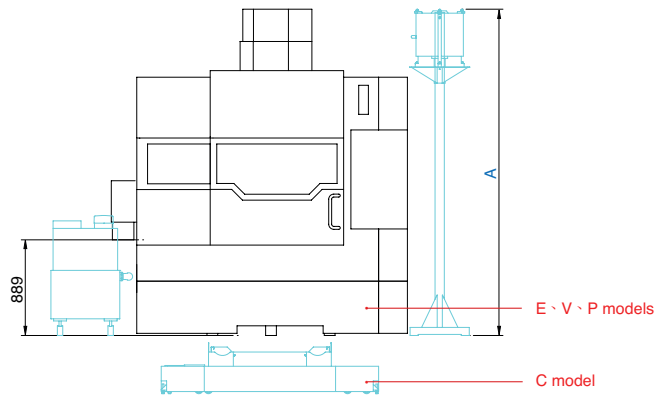
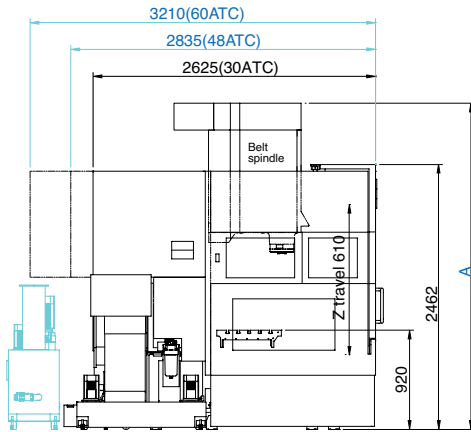
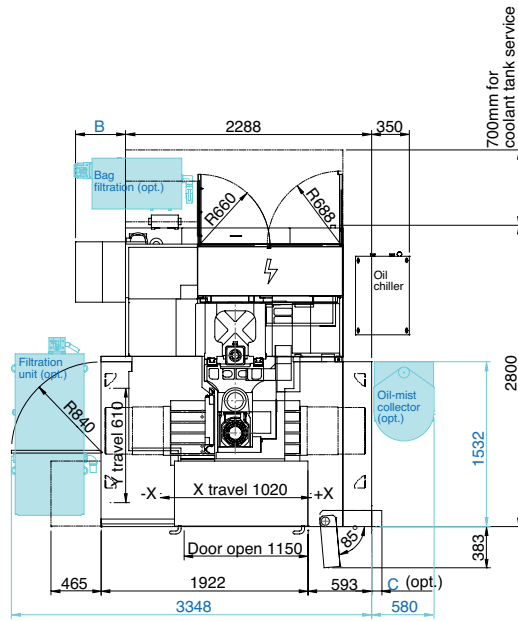
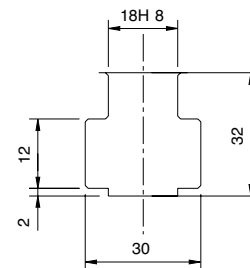
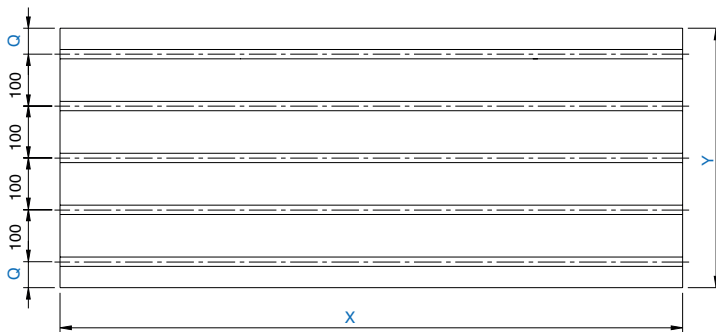
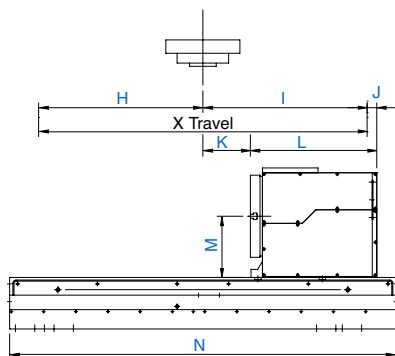
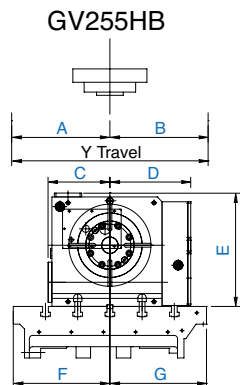


Table dimension:

	MV154	MV184
X	900	1200
Y	500	600
Q	50	100



4th axis:



	MV154	MV184
A	265	305
B	265	305
C	192	192
D	251	251
E	352	352
F	265	300
G	250	300
H	381	510
I	381	510
J	98	30
K	55.5	147.5
L	392.5	392.5
M	190	190
N	900	1200
O	230	470
P	300	515
Q	385	385
R	35	35

