QUASER

we cut faster

MV2 SERIES

CONTENTS

MV2 SERIES:

MV204 / MV205

MV214 / MV215

MV234 / MV235

Note: The object might be different from the photos of catalogue if there is any specification update.


QUASER
we cut faster
MV204
V
MV204

MV2 SERIES

Travel X / Y / Z

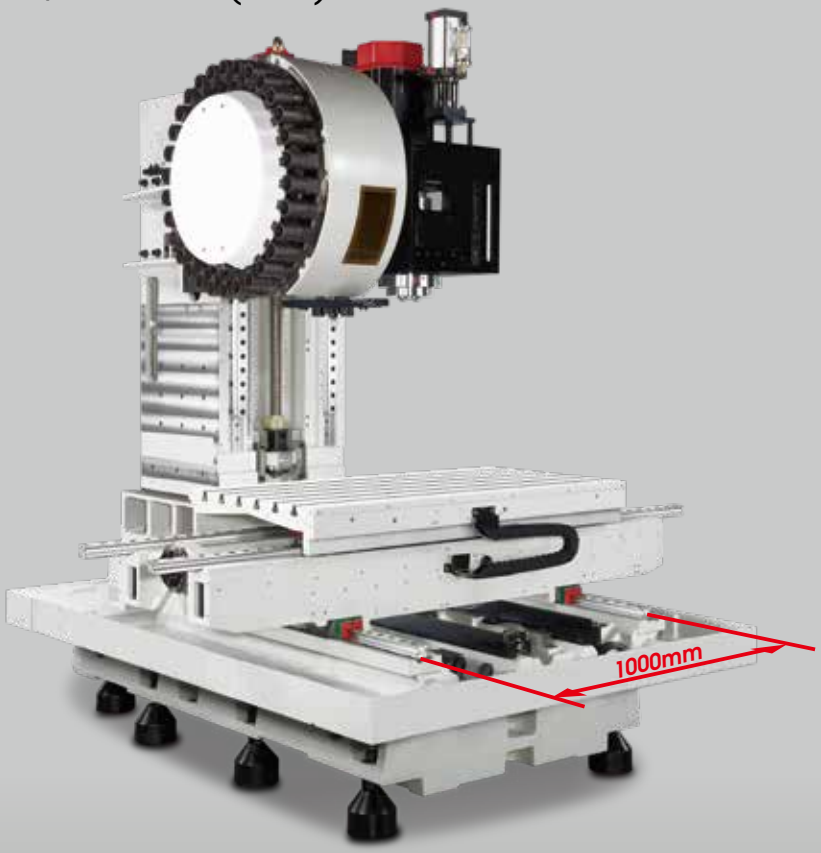
MV204 & MV205:

1,270 / 700 / 610 (mm)

Table size

MV204 & MV205:

1,400 x 700 (mm)



Travel X / Y / Z

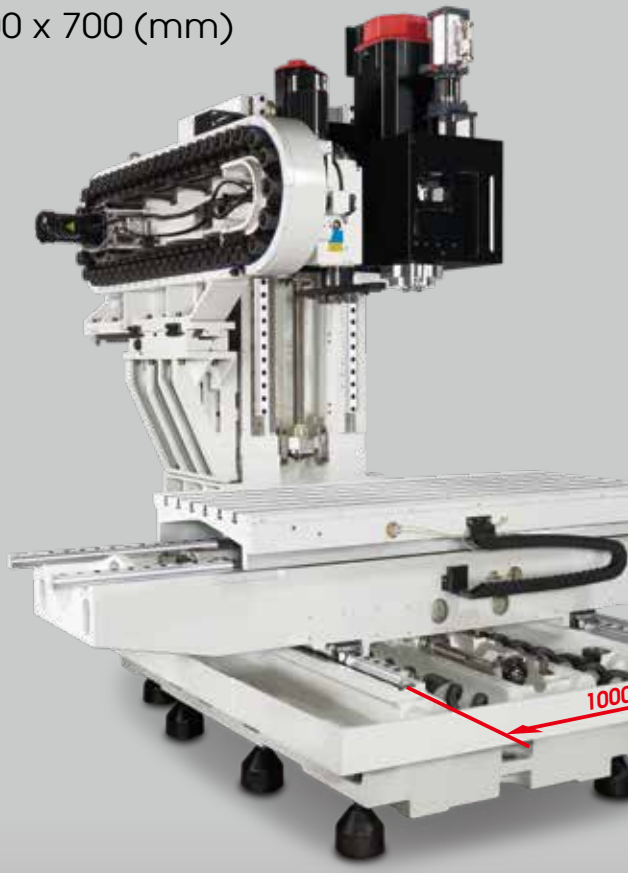
MV214 & MV215:

1,524 / 700 / 610 (mm)

Table size

MV214 & MV215:

1,700 x 700 (mm)



MV204 & MV205

MV214 & MV215

Travel X / Y / Z

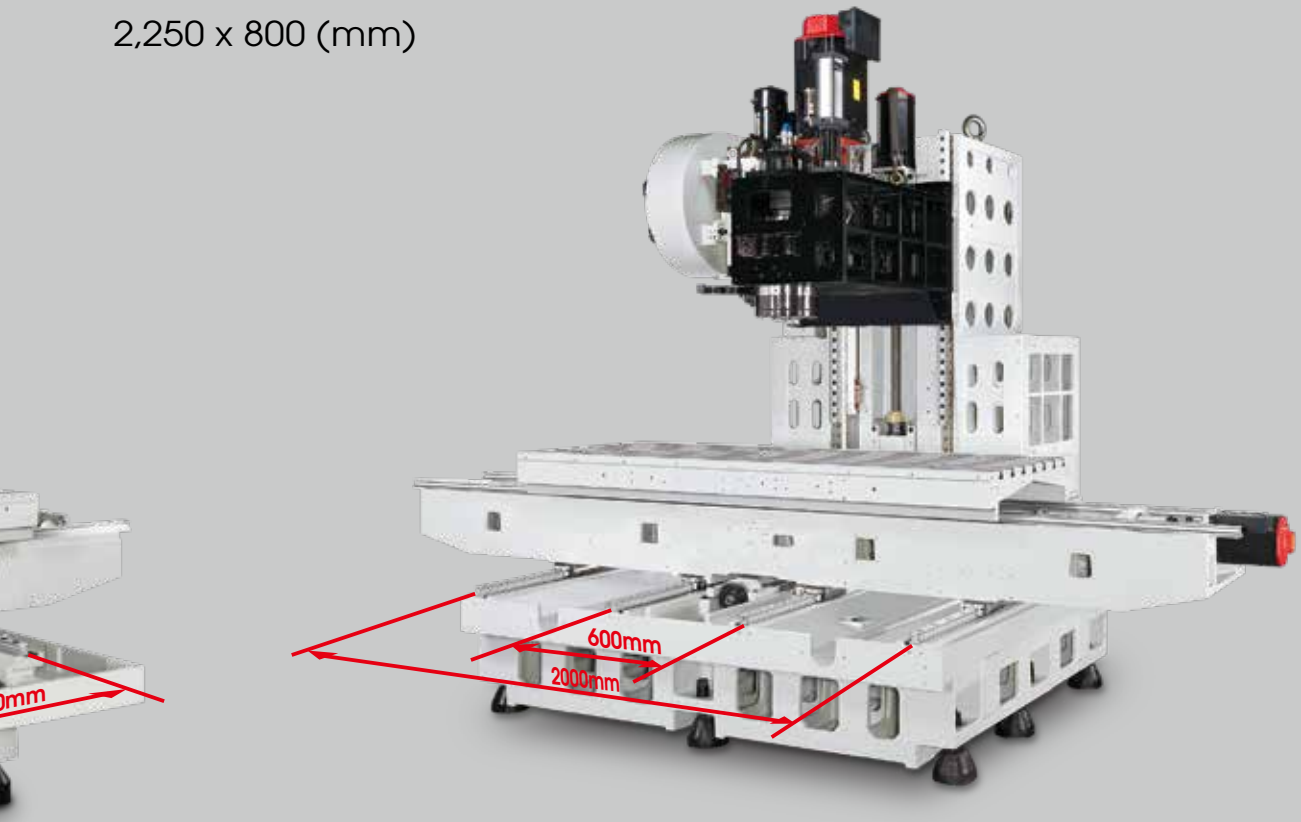
MV234 & MV235:

2,040 / 800 / 661 (mm)

Table size

MV234 & MV235:

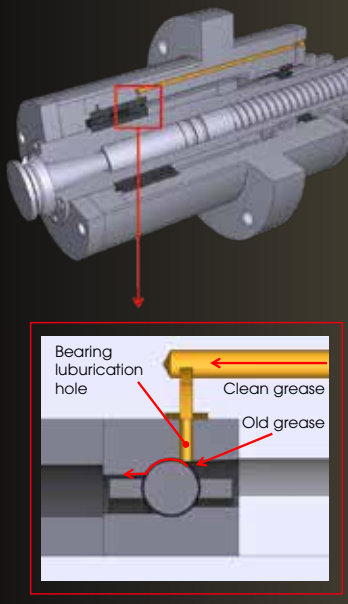
2,250 x 800 (mm)



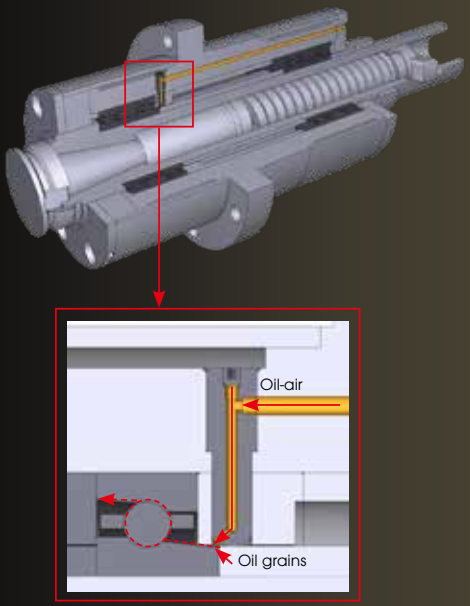
MV234 & MV235

Unique spindle technology

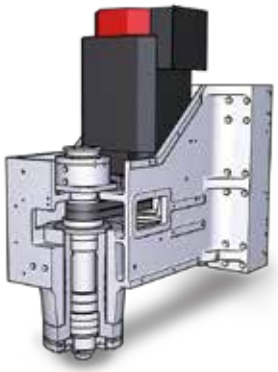
- Re-grease supply system is stable and eco-friendly by supplying new grease intermittently to bearings during high speed rotation.



- Oil-Air lubrication system realizes stable operation on high speed rotation with large diameter spindles by utilizing compressed air to supply very little oil intermittently to the bearings .



40 Taper



New spindle code		
Shaft diameter		
Spindle Taper		
Bearing arrangement		
Ball bearing type		
Roller bearing type		
Bearing lubrication		
Transmission		
Spindle Speed		9,000
FANUC		
Spindle base speed		1,125
Spindle output kW	(S3-25%)	25
Spindle output torque Nm	(S3-25%)	212
HEIDENHAIN		
Spindle base speed		1,125
Spindle output power kW	(S6-25%)	32
Spindle output torque Nm	(S6-25%)	272
SIEMENS		
Spindle base speed		1,125
Spindle output power kW	(S6-25%)	28.5
Spindle output torque Nm	(S6-25%)	242
MITSUBISHI		
Spindle base speed		-
Spindle output power kW	(30min.)	-
Spindle output torque Nm	(30min.)	-
CTS Availability		●
Available NC		
40 Taper		
MV204C		-
MV204E		●
MV204V		● ●
MV204P / MV214P		-
MV234E		●
MV234P		-
50 Taper		
MV205E / MV215E		-
MV205P / MV215P		-
MV235E		-
MV235P		-

Note : (1)S3-60% (2)S6-40% (3)S3-40%

50 Taper

MB-4.0			SC-4.2		MC-4.1R		MC-4.0R	SB-5.0A		MC-5.0A
Ø70 / Ø65			Ø80 / Ø70		Ø80 / Ø65		Ø70 / Ø60	Ø100 / Ø90		Ø90
ISO-40			ISO-40		ISO40 / HSK A63			ISO-50		ISO-50 / HSK-A100
< > =			<< >>		< > =		< > =	= << > =		<< >>
Ceramic			Ceramic		Ceramic		Ceramic	Ceramic		Ceramic
Steel			-		Steel		Ceramic	Steel		-
Grease packed			Grease packed		Re-Grease			Oil-Air		Oil-Air
Belt			Coupling		Coupling			Belt	Belt + Gear box	Coupling
12,000	9,000	12,000	10,000	12,000	15,000		20,000	6,000	7,500	15,000
1,500	1,125	1,500	-		1,400	600	1,150	750	375	600
25	35		-		26	30(1)	15	35	35	30(1)
159	297	223	-	-	177	350(3)	125	446	891	350(3)
1,500	1,500	2,000	-	-	2,000		-	-	437.5	-
32	46.5		-	-	46.5		-	-	40.9	-
204	296	222	-	-	222		-	-	892	-
1,500	1,500	2,000	-	1,500	2,000		-	-	437.5	-
28.5	46.5		-	17.6(2)	46.5		-	-	40.9	-
182	296	222	-	112(2)	222		-	-	892	-
-	-	-	1,500	1,400	-		-	-		-
-	-	-	15	18.5	-		-	-		-
-	-	-	96	102	-		-	-		-
●	●	●	X	○	●	●	●	●	●	●
FANUC = 🟡 HEIDENHAIN = 🟤 SIEMENS = 🔵 MITSUBISHI = 🔴										
-	-	-	🔴	🔵 🔴	-	-	-	-	-	-
🟡	-	-	-	-	-	-	-	-	-	-
🟡 🟤	-	-	-	-	-	-	-	-	-	-
-	🟡 🟤 🔵	🟡 🟤 🔵	-	-	🟡 🟤 🔵	🟡 🟤 🔵	🟡	-	-	-
🟡	-	-	-	-	-	-	-	-	-	-
-	🟡 🟤 🔵	🟡 🟤 🔵	-	-	🟡 🟤 🔵	🟡 🟤 🔵	🟡	-	-	-
-	-	-	-	-	-	-	-	-	🟡	-
-	-	-	-	-	-	-	-	-	🟡 🟤	🟡
-	-	-	-	-	-	-	-	🟡	-	-
-	-	-	-	-	-	-	-	-	🟡 🟤 🔵	🟡

F = FANUC M = MITSUBISHI S = SIEMENS T = HEIDENHAIN

Motor		MV204C		MV204E		MV204V		MV204P & MV214P			
Spindle code		10C	12C	9B	12B	9B	12B	9B	12B	15C	20C
X / Y / Z (kW)	F	-		3 / 3 / 4		3 / 3 / 4		4 / 4 / 4			
	T	-		-		4.5 / 4.5 / 5.1		5.1 / 5.1 / 8.6			-
	S	-	3.1 / 3.1 / 4.3	-		-		4.9 / 4.9 / 4.9			-
	M	2 / 2 / 3		-		-		-			

Motor		MV205E & MV215E	MV205P & MV215P		MV234E		MV234P				MV235E	MV235P	
Spindle code		7.5B	7.5B	15C	9B	12B	9B	12B	15C	20C	6B	7.5B	15C
X / Y / Z (kW)	F	4 / 4 / 4	4 / 4 / 4		4 / 7 / 7		4 / 7 / 7				4 / 7 / 7		
	T	-	5.1 / 5.1 / 8.6	-	-		8.6 / 8.6 / 8.6			-	-	8.6 / 8.6 / 8.6	-
	S	-	-		-		5.2 / 5.2 / 7.7			-	-	5.2 / 5.2 / 7.7	-
	M	-	-		-		-			-	-	-	

ATC system

40 Taper

30 ATC

48 ATC

60 ATC

50 Taper

30 ATC / 40 ATC

Coolant system & Chip management

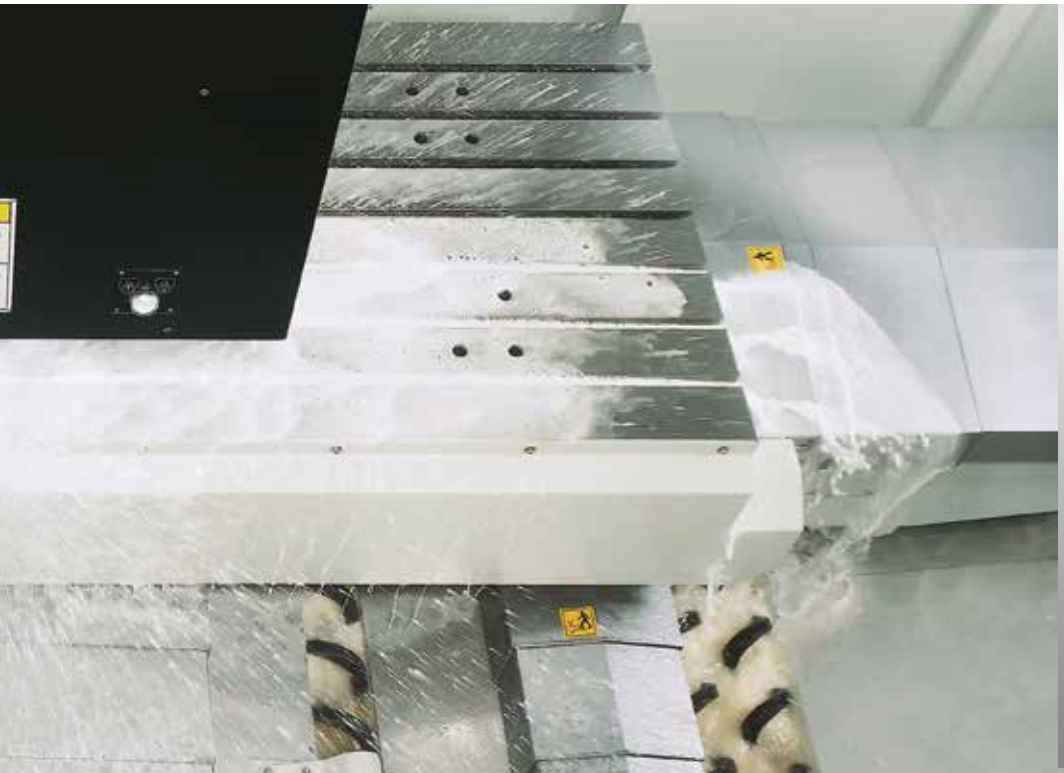
		MV204C	MV204 MV205	MV214 MV215	MV234 MV235
A	Chip slot	4			
B	Augers plus chip conveyor	2			6
C	Wash gun	1		2	2
D	Coolant through spindle*	-	20 Bar		
E	Nozzle coolant	3.5 Bar			
F	Auto flushing on stainless	3.5 Bar	4.5 Bar		
G	Coolant tank	600 L			710 L
H	External chip auger	std.	-		
I	External chip conveyor	opt.	std.		

Note: * MV204C not available.


C


D

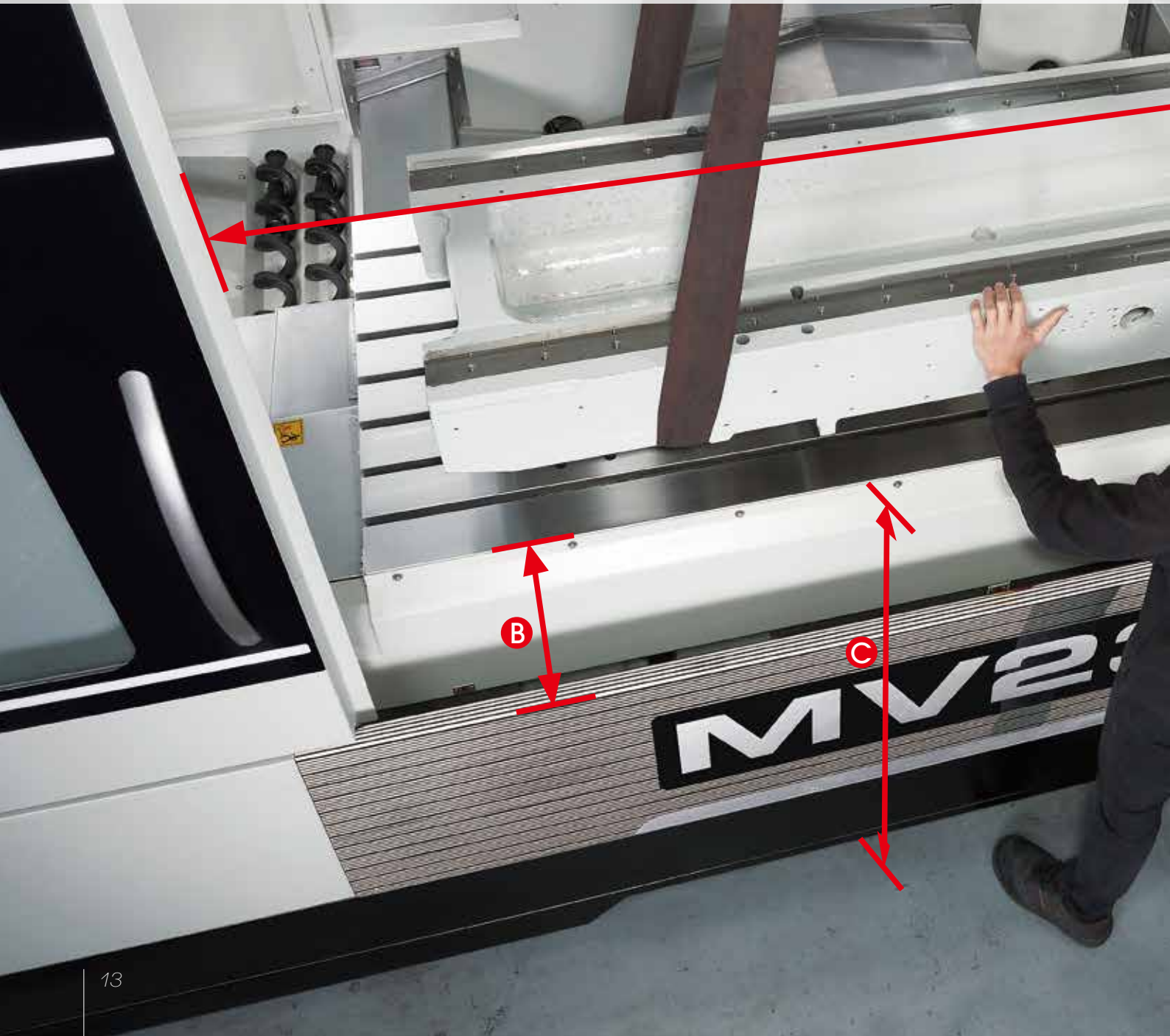

E



Easy operation

		MV204 MV205	MV214 MV215	MV234 MV235
A	Max. size when operator door open, easy loading of large workpiece (mm)	1,400	1,700	2,210
B	Table to front door with easy accessibility (mm)	195	195	200
C	Table surface to floor* (mm)	1,040	1,040	1,040
D	Ergonomic operation panel with adjustable angle			
E	Documentation & hand tool shelf			
F	Larger opening for service or exchange to auto door for robot			

Note: * MV204C table surface to floor at 970 mm.




MV234
P
A
D
E
F

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

Technical data		MV204 C		MV204 E / V		MV204 MV214 P			
Spindle code		10C	12C	9B	12B	9B	12B	15C [2]	20C [3]
Work range									
Table size (mm)		1,400 x 700				1,400 x 700	1,700 x 700		
Travel X / Y / Z (mm)		1,270 / 700 / 610 [1]				1,270 / 700 / 610 [1] 1,524 / 700 / 610 [1]			
Spindle nose to table surface (mm)		150 ~ 760 [1]				150 ~ 760 [1]			
Table load capacity (kg)		1,000				1,800 / 2,000			
Feed drive									
Feed force X / Y / Z (N)	F	-		6,283 / 6,283 / 11,519		11,519 / 11,519 / 11,519			
	T	-		9,268 / 9,268 / 11,310		11,310 / 11,310 / 19,897			
	M	7,173 / 7,173 / 17,671		-		-			
	S	-	10,472 / 10,472 / 14,137	-		14,137 / 14,137 / 14,137			
Rapid movement X / Y / Z (m/min.)		24 / 24 / 16		36 (F) / 36 (F) 32 (T)		36			
*Acceleration X / Y / Z (m/s^2)	F	-		3 / 2.5 / 3		3.5 / 3 / 4			
	T	-		2.5 / 2 / 4		5 / 5 / 4 4 / 4 / 4			
	M	3 / 3 / 3		-		-			
	S	-	2.5 / 2.5 / 3	-		3.5 / 2.5 / 3 3 / 2.5 / 3			
Dia. & pitch of the ball screw		Ø45 / P = 12 / 12 / 8 (M) Ø45 / P = 12 / 12 / 12 (S)		Ø45 / P = 12 / 12 / 12 (F) (T)		Ø45 / P = 12 / 12 / 12 (F) (T) (S)			
Accuracy Positioning / Repeatability									
ISO 230-2		0.008 / 0.004							
JIS 6338 (300mm)		±0.003 / ±0.002							
VDI 3441		0.008 / 0.004							
Main spindle									
Spindle taper		40 Taper							
Tool changer									
Tool selection		Random							
Magazine positions	Std.	30				30 / 48			
	Opt.	-		48 / 60		48 & 60 / 60			
Max. tool diameter (mm)		76.2							
Max. tool dia. Due to neighbor pots are empty		125							
Max. tool length (mm)		300							
Max. tool weight (kg)		7							
CTC time-ISO 10791-9 (sec.)-60Hz		4.2 (M)	4.2 (M) 4.7 (S)	5.2		4.7			
Coolant system									
Coolant tank capacity (Liter)		600							
Pump capacity									
- Nozzle coolant		60L / min, 3.5 bar							
- Coolant through spindle		-	opt.	25L / min, 20 bar					
- Wash down		60L / min, 3.5 bar		60L / min, 4.5 bar					
Machine size						3,300		3,300	
Height (mm)		3,300		3,300		3,500		3,400	
Floor space W x D (mm)	30 ATC	3,920 x 3,570		3,700 x 3,570		3,700 x 3,570 / -			
	48 ATC	-		3,700 x 3,750		3,700 x 3,750 / 4,520 x 3,780			
	60 ATC	-		3,700 x 4,050		3,700 x 4,050 / 4,520 x 4,080			
Weight (kg)		9,300		9,500 - 10,000		9,500 - 10,100 / 10,100 - 11,000			
Connections									
Main power		220V or 380V or 400V or 415V / 50Hz or 60Hz							
Power consumption (KVA)		20 (M)	30 (M) 28 (S)	28 (F) 30 (T)		36 (F) 42 (T) 42 (S)		33 (F) 42 (T) 42 (S)	31 (F)

Note: [1] For detailed specification of Z axis travel 800mm, please refer to page 22 ~ 24.
[2] when MC-4.1 R equipped with option item α L26, its KVA would be 44
[3] Only for FANUC control.
*Test condition: values are measured by half of the maximum table load capacity.

● = Standard ○ = Option × = N/A

Standard / Option accessories	MV204 MV214							
	C		E / V		P			
Spindle code	10C	12C	9B	12B	9B	12B	15C	20C
QUASER mill i for MV204E only	×	×	○ / ×	● / ×	×	×	×	×
AICC Ⅰ								
Mold machining pack (R660)	×	×	○ / ×	○ / ×	×	×	×	×
AICC Ⅱ (Look-ahead 200 blocks)								
Smooth tolerance control								
Jerk control								
Machining quality level adjust function								
FANUC - data server								
FANUC 31iB	×	×	× / ○	× / ○	○	●	○	○
AICC Ⅱ (Look-ahead 200 blocks)	×	×	○ / ○	○ / ○	○	●	○	○
FANUC - data server	×	×	○	○	○	○	○	○
FANUC – high speed processing (Look-ahead 600 blocks)	×	×	× / ○	× / ○	○	○	○	○
HEIDENHAIN TNC640	×	×	× / ○	× / ○	○	○	○	×
HEIDENHAIN advanced function set2								
SIEMENS 828D	×	●	×	×	○	○	○	×
MITSUBISHI M80 (package A)	○	○	×	×	×	×	×	×
MITSUBISHI M830	○	○	×	×	×	×	×	×
Column raiser (150 mm)	○	○	○	○	○ / ×	○ / ×	○ / ×	○ / ×
Tall column (one piece column) / Z axis travel 800mm	○	○	○	○	○	○	○	○
Oil chiller	●	●	●	●	●	●	●	●
4th axis preparation	×	×	●	●	●	●	●	●
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	○	○	●	●	●	●	●	●
BBT spindle attachment (simultaneous contact)	●	●	●	●	●	●	●	●
Remote manual pulse generator	●	●	●	●	●	●	●	●
Transformer (1)	○	○	○	○	○	○	○	○
Linear scale	×	×	○	○	○	○	○	○
Thermal compensation	×	×	×	×	×	×	○	○
Work probe receiver OMI-2T	×	×	○	○	○	○	○	○
Work Probe	×	×	○	○	○	○	○	○
Tool length / breakage measurement	○	○	○	○	○	○	○	○
Coolant system	●	●	●	●	●	●	●	●
Coolant wash gun / wash down	●	●	●	●	●	●	●	●
Air gun	○	○	○	○	○	○	○	○
Coolant through spindle 20 bar	×	○	●	●	●	●	●	●
Coolant through spindle 50 bar	×	○	○	○	○	○	○	○
Cutter air blast	●	●	●	●	●	●	●	●
External chip auger	●	●	×	×	×	×	×	×
External chip conveyor	○	○	●	●	●	●	●	●
Oil-mist collector	○	○	○	○	○	○	○	○
Oil skimmer	○	○	○	○	○	○	○	○
Bag filtration	○	○	○	○	○	○	○	○
Filtration unit	×	○	○	○	○	○	○	○
Documentation (CD-ROM) (2)	●	●	●	●	●	●	●	●
Total Enclosure Guard (with Top side cover)	●	●	●	●	●	●	●	●
Foundation bolts & blocks	●	●	●	●	●	●	●	●
Work light	●	●	●	●	●	●	●	●
Machine status light	●	●	●	●	●	●	●	●
CE & EMC (3) / GB	○	○	○	○	○	○	○	○

Note: (1) Transformer as standard or option item will be varied according to control system and power supply condition.
(2) Paper documentation is option (3) Standard for Eu area except C type.
- Machine specification might be different from the catalog if there is any specification update.

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

Technical data		MV234					
		E		P			
Spindle code		9B	12B	9B	12B	15C [2]	20C [3]
Work range							
Table size (mm)		2,250 x 800					
Travel X / Y / Z (mm)		2,040 / 800 / 661 [1]					
Spindle nose to table surface (mm)		150 ~ 811 [1]					
Table load capacity (kg)		2,000					
Feed drive							
Feed force X / Y / Z (N)	F	11,519 / 15,708 / 15,708		11,519 / 15,708 / 15,708			
	T	-		19,897 / 19,897 /19,897			-
	S	-		18,849 / 18,849 / 25,133			-
Rapid movement X / Y / Z (m/min.)		20 / 20 / 16					
*Acceleration X / Y / Z (m/s^2)	F	2 / 2 / 2					
	T	-		3.5 / 3.5 / 3.5			-
	S	-		3.5 / 3.5 / 3.5			-
Dia. & pitch of the ball screw		Ø50 / P =12 /12 / 12					
Accuracy Positioning / Repeatability							
ISO 230-2		0.008 / 0.004					
JIS 6338 (300mm)		±0.003 / ±0.002					
VDI 3441		0.008 / 0.004					
Main spindle							
Spindle taper		40 Taper					
Tool changer							
Tool selection		Random					
Magazine positions		48 (std.) 60 (opt.)					
Max. tool diameter (mm)		76.2					
Max. tool dia. Due to neighbor pots are empty		125					
Max. tool length (mm)		300					
Max. tool weight (kg)		7					
CTC time-ISO 10791-9 (sec.)-60Hz		5.2		4.7 (F) 5.7 (T)			4.7 (F)
Coolant system							
Coolant tank capacity (Liter)		710					
Pump capacity							
- Nozzle coolant		60 L / min, 3.5 bar					
- Coolant through spindle		25 L / min, 20 bar					
- Wash down		60 L / min, 4.5 bar					
Machine size							
Height (mm)		3,400				3,500	
Floor space W x D (mm)	48 ATC	5,760 x 4,260					
	60 ATC	5,760 x 4,260					
Weight (kg)		13,700 (48ATC) 13,800 (60ATC)					
Connections							
Main power		220V or 380V or 400V or 415V / 50Hz or 60Hz					
Power consumption (KVA)		38 (F)		44 (F) 46 (T) 47 (S)		38 (F) 46 (T) 47 (S)	38 (F)

Note: [1] For detailed specification of Z axis travel 800mm, please refer to page 22 ~ 24.
[2] when MC-4.1 R equipped with option item α L26, its KVA would be 48
[3] Only for FANUC control.
*Test condition: values are measured by half of the maximum table load capacity.

● = Standard ○ = Option × = N/A

Standard / Option accessories	MV234					
	E		P			
Spindle code	9B	12B	9B	12B	15C	20C
QUASER mill i AICC Ⅰ	○	●	×	×	×	×
Mold machining pack (R660) AICC Ⅱ (Look-ahead 200 blocks) Smooth tolerance control Jerk control Machining quality level adjust function FANUC - data server	○	○	×	×	×	×
FANUC 31iB AICC Ⅱ (Look-ahead 200 blocks)	×	×	○	●	○	○
FANUC - data server FANUC – high speed processing (Look-ahead 600 blocks)	×	×	○	○	○	○
HEIDENHAIN TNC640 HEIDENHAIN advanced function set2	×	×	○	○	○	×
SIEMENS 828D	×	×	○	○	○	×
SIEMENS 840D	×	×	○	○	○	×
Z axis travel 800 mm (column raiser)	○	○	○	○	○	○
Oil chiller	●	●	●	●	●	●
4th axis preparation	●	●	●	●	●	●
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	●	●	●	●	●	●
BBT spindle attachment (simultaneous contact)	●	●	●	●	●	●
Remote manual pulse generator	●	●	●	●	●	●
Transformer (1)	○	○	○	○	○	○
Linear scale	○	○	○	○	○	○
Thermal compensation	×	×	×	×	○	○
Work probe receiver OMI-2T	○	○	○	○	○	○
Work Probe	○	○	○	○	○	○
Tool length / breakage measurement	○	○	○	○	○	○
Coolant system	●	●	●	●	●	●
Coolant wash gun / wash down	●	●	●	●	●	●
Air gun	○	○	○	○	○	○
Coolant through spindle 20 bar	●	●	●	●	●	●
Coolant through spindle 50 bar	○	○	○	○	○	○
Cutter air blast	●	●	●	●	●	●
External chip conveyor	●	●	●	●	●	●
Oil-mist collector	○	○	○	○	○	○
Oil skimmer	○	○	○	○	○	○
Bag filtration	○	○	○	○	○	○
Filtration unit	○	○	○	○	○	○
Documentation (CD-ROM) (2)	●	●	●	●	●	●
Total Enclosure Guard (with Top side cover)	●	●	●	●	●	●
Foundation bolts & blocks	●	●	●	●	●	●
Work light	●	●	●	●	●	●
Machine status light	●	●	●	●	●	●
CE & EMC (3) / GB	○	○	○	○	○	○

Note: (1) Transformer as standard or option item will be varied according to control system and power supply condition.
(2) Paper documentation is option (3) As standard for Europe area.
- Machine specification might be different from the catalog if there is any specification update.

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

Technical data		MV205 MV215			MV235		
		E	P		E	P	
Spindle code		7.5B	7.5B	15C	6B	7.5B	15C
Work range							
Table size (mm)		1,400 x 700 1,700 x 700			2,250 x 800		
Travel X / Y / Z (mm)		1,270 / 700 / 610 (1) 1,524 / 700 / 610 (1)			2,040 / 800 / 661 (1)		
Spindle nose to table surface (mm)		190 ~ 800 (1)			150 ~ 811 (1)		
Table load capacity (kg)		1,800 / 2,000			2,000		
Feed drive							
Feed force X / Y / Z (N)	F	11,519 / 11,519 / 11,519		11,519 / 11,519 / 11,519	11,519 / 15,708 / 15,708	11,519 / 15,708 / 15,708	11,519 / 15,708 / 15,708
	T	-	11,310 / 11,310 / 19,897	-	-	19,897 / 19,897 /19,897	-
	S	-		-	-	18,849 / 18,849 / 25,133	-
Rapid movement X / Y / Z (m/min.)		36			20 / 20 / 16		
*Acceleration X / Y / Z (m/s^2)	F	3.5 / 3 / 2			2 / 2 / 2		
	T	-	5 / 5 / 4 4 / 4 / 4		-	3.5 / 3.5 / 3.5	
	S	-			-	3.5 / 3.5 / 3.5	
Dia. & pitch of the ball screw		Ø45 / P = 12 / 12 / 12			Ø50 / P = 12 / 12 / 12		
Accuracy Positioning / Repeatability							
ISO 230-2		0.008 / 0.004					
JIS 6338 (300mm)		±0.003 / ±0.002					
VDI 3441		0.008 / 0.004					
Main spindle							
Spindle taper		50 Taper					
Tool changer							
Tool selection		Random					
Magazine positions		30 (std.) 40 (opt.)					
Max. tool diameter (mm)		125					
Max. tool dia. Due to neighbor pots are empty		200					
Max. tool length (mm)		350					
Max. tool weight (kg)		15					
CTC time-ISO 10791-9 (sec.)-60Hz		9			10		
Coolant system							
Coolant tank capacity (Liter)		600			710		
Pump capacity							
- Nozzle coolant		60 L / min, 3.5 bar					
- Coolant through spindle		25 L / min, 20 bar					
- Wash down		60 L / min, 4.5 bar					
Machine size			3,650	3,350			
Height (mm)			3,800	3,400	3,500		3,400
Floor space W x D (mm)	30 ATC	3,700 x 3,900 / 4,520 x 3,930			5,745 x 4,260		
	40 ATC	3,700 x 4,450 / 4,520 x 4,480			5,745 x 4,430		
Weight (kg)		10,000 - 10,600 / 11,000 - 12,000			14,000 (30 ATC) 14,500 (40 ATC)		
Connections							
Main power		220V or 380V or 400V or 415V / 50Hz or 60Hz					
Power consumption (KVA)		40 (F)	40 (F) 47 (T)	45 (F)	44 (F)	44 (F) 52 (T) 47 (S)	49 (F)

Note: (1) For detailed specification of Z axis travel 800mm, please refer to page 22 ~ 24.
*Test condition: values are measured by half of the maximum table load capacity.

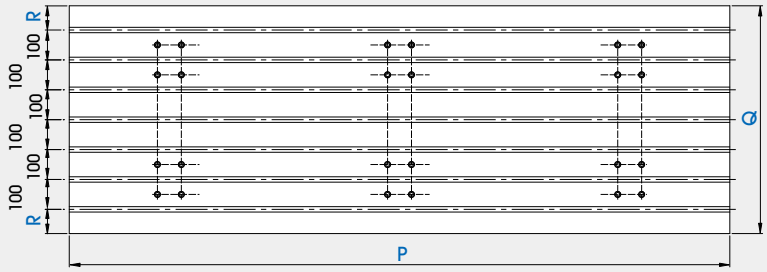
● = Standard ○ = Option × = N/A

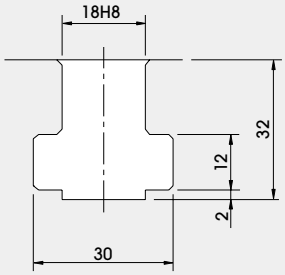
Standard / Option accessories	MV205 MV215			MV235		
	E	P		E	P	
Spindle code	7.5B	7.5B	15C	6B	7.5B	15C
■ QUASER mill I ■ AICC I	●	×	×	●	×	×
■ Mold machining pack (R660) AICC II (Look-ahead 200 blocks) Smooth tolerance control Jerk control Machining quality level adjust function FANUC - data server	○	×		○	×	
■ FANUC 31iB	×	●	○	×	●	○
AICC II (Look-ahead 200 blocks)	×	●	○	×	●	○
FANUC - data server	×	○	○	×	○	○
FANUC – high speed processing (Look-ahead 600 blocks)	×	○	○	×	○	○
■ HEIDENHAIN TNC640 HEIDENHAIN advanced function set2	×	○	×	×	○	×
■ SIEMENS 828D	×	×	×	×	○	×
■ SIEMENS 840D	×	×	×	×	○	×
■ Tall column (one piece column)/Z axis travel 800mm	○	○	○	×	×	×
■ Z axis travel 800 mm (column raiser)	×	×	×	○	○	○
■ Oil chiller	●	●	●	●	●	●
■ 4th axis preparation	●	●	●	●	●	●
■ 50 Taper 30 position tool magazine	●	●	●	●	●	●
■ 50 Taper 40 position tool magazine	○	○	○	○	○	○
■ ATC auto door	○	○	○	○	○	○
■ Tooling - BT50	●	●	●	●	●	●
- ISO50 & DIN50	○	○	○	○	○	○
■ Pull stud for BT tooling	●	●	●	●	●	●
■ Balance tooling for spindle warm up	●	●	●	●	●	●
■ BBT spindle attachment (simultaneous contact)	●	●	●	●	●	●
■ Remote manual pulse generator	●	●	●	●	●	●
■ Transformer (1)	○	○	○	○	○	○
■ Linear scale	○	○	○	○	○	○
■ Thermal compensation	×	×	○	×	×	○
■ Work probe receiver OMI-2T	○	○	○	○	○	○
■ Work Probe	○	○	○	○	○	○
■ Tool length / breakage measurement	○	○	○	○	○	○
■ Coolant system	●	●	●	●	●	●
■ Coolant wash gun / wash down	●	●	●	●	●	●
■ Air gun	○	○	○	○	○	○
■ Coolant through spindle 20 bar	●	●	●	●	●	●
■ Coolant through spindle 50 bar	○	○	○	○	○	○
■ Cutter air blast	●	●	●	●	●	●
■ External chip conveyor	●	●	●	●	●	●
■ Oil-mist collector	○	○	○	○	○	○
■ Oil skimmer	○	○	○	○	○	○
■ Bag filtration	○	○	○	○	○	○
■ Filtration unit	○	○	○	○	○	○
■ Documentation (CD-ROM) (2)	●	●	●	●	●	●
■ Total Enclosure Guard (with Top side cover)	●	●	●	●	●	●
■ Foundation bolts & blocks	●	●	●	●	●	●
■ Work light	●	●	●	●	●	●
■ Machine status light	●	●	●	●	●	●
■ CE & EMC (3) / GB	○	○	○	○	○	○

Note: (1) Transformer as standard or option item will be varied according to control system and power supply condition.
(2) Paper documentation is option (3) Standard for Eu area.
- Machine specification might be different from the catalog if there is any specification update.

Table dimension

	MV204C	MV204/205	MV214/215	MV234/235
P	1,400	1,400	1,700	2,250
Q	700	700	700	800
R	100	100	100	100
T-Slots No.	6	6	6	7

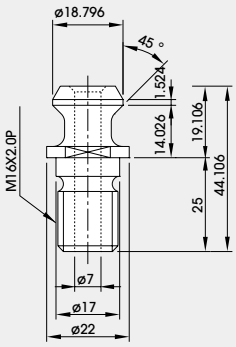




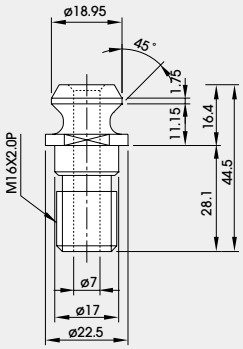
Pull stud and applicable tools ISO-40

B	tool median point distance	tool middle point distance
W	tool weight	tool weight
	MOMENT=W*B(≦10.29N-m)	MOMENT=W*B(≦9.85N-m)

BT 40



ISO (7388-B)



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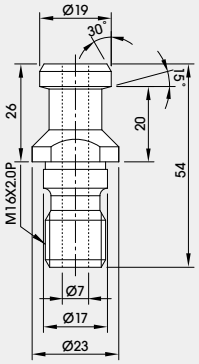
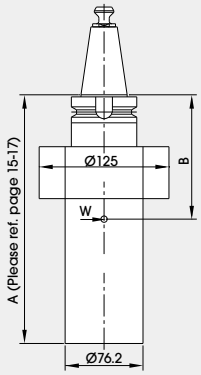
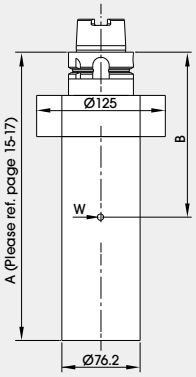


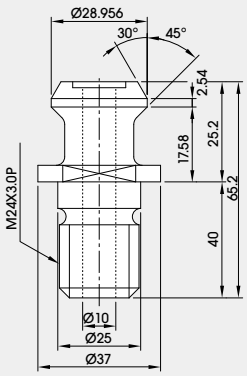




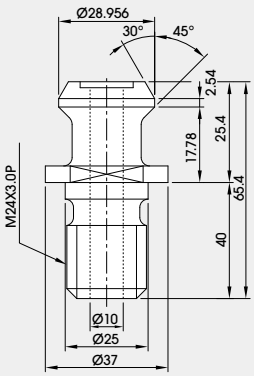
Pull stud and applicable tools ISO-50

B	tool median point distance
W	tool weight
	MOMENT=W*B(≦25.72N-m)

BT 50



ISO (7388-B)



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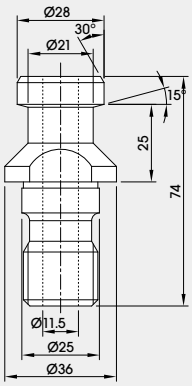
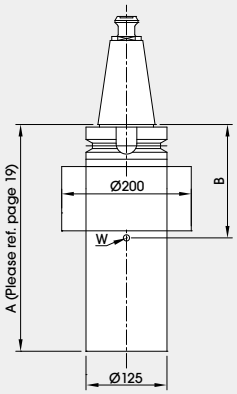
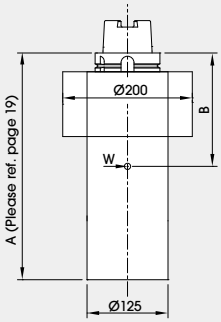


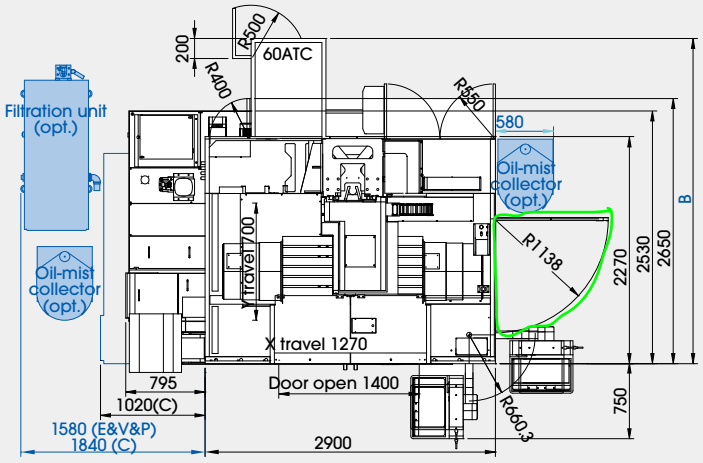


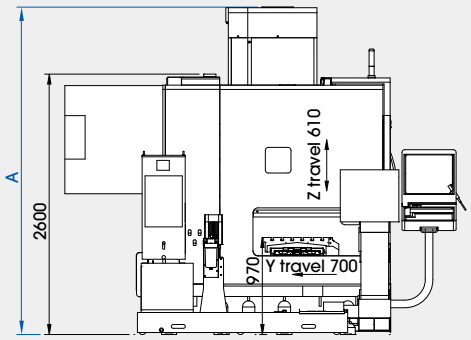


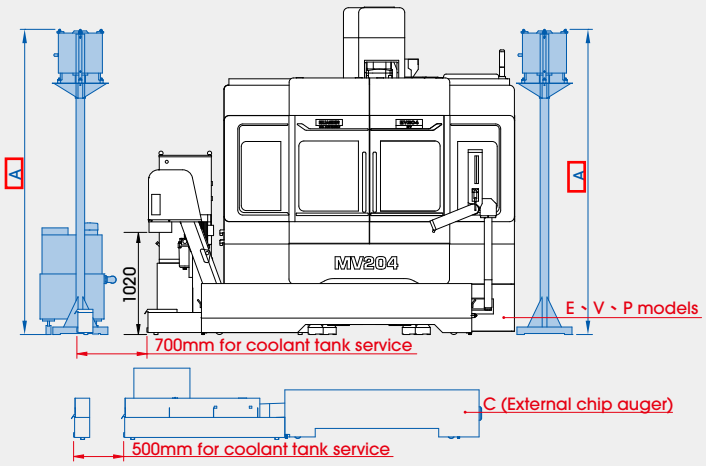
MV204 / MV205 Layout

Max. Machine Height	MV204			MV205	
	C	E & V & P	P	E & P	P
Spindle code	10C / 12C	9B / 12B	15C / 20C	7.5B	15C
A Standard column 1. Z axis travel 610mm 2. Spindle nose to table surface 150~760 mm (#40) 190~800 mm (#50)	3,300	3,300	3,300	3,650	3,350
A Column raiser (150mm) 1. Z axis travel 610 mm 2. Spindle nose to table surface 300~910 mm (#40) 340~950 mm (#50)	3,450	3,450	3,450	-	-
A Tall column (one piece column) 1. Z axis travel 800 mm 2. Spindle nose to table surface 150~950 mm (#40) 190~990 mm (#50) *Container shipment is not possible	3,500	3,500	3,500	3,850*	3,550*

MV204	B	40 Taper	30 ATC	2,550
			48 ATC	3,000
			60 ATC	3,300
MV205		50 Taper	30 ATC	3,150
			40 ATC	3,700





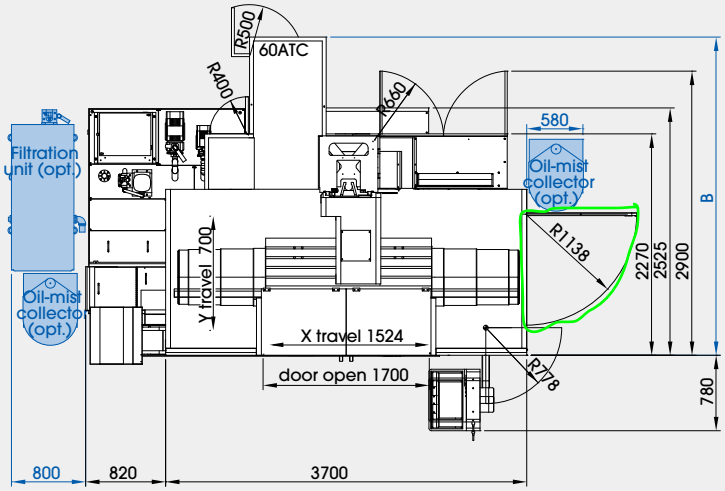


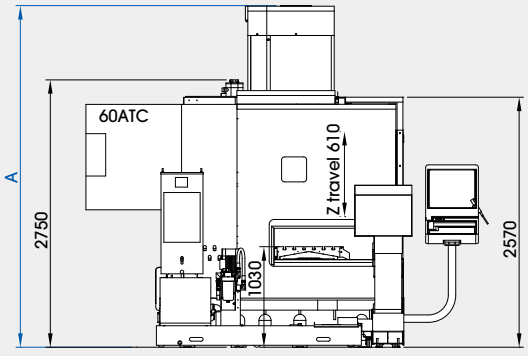
MV214 & MV215 Layout

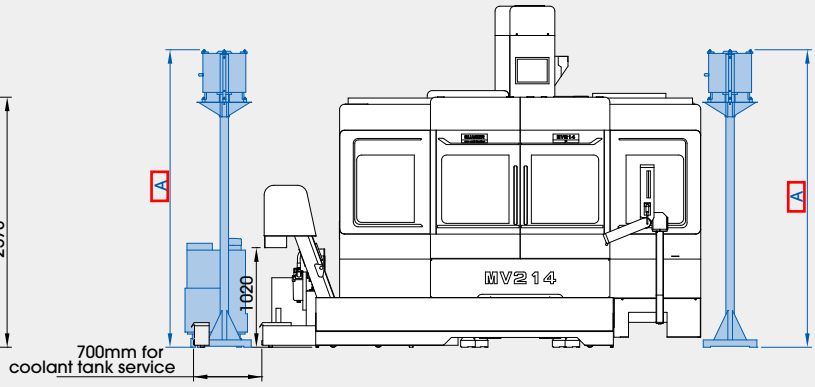
Installation dimension

Max. Machine Height	MV214		MV215	
	P		E & P	P
Spindle code	9B / 12B	15C / 20C	7.5B	15C
A Standard column 1. Z axis travel 610 mm 2. Spindle nose to table surface 150~760 mm (#40) 190~800 mm (#50)	3,500	3,400	3,800	3,400
A Tall column (one piece column) 1. Z axis travel 800 mm 2. Spindle nose to table surface 150~950 mm (#40) 190~990 mm (#50) *Container shipment is not possible	3,700*	3,600*	4,000*	3,600*

MV214	B	40 Taper	48 ATC	3,000
			60 ATC	3,300
MV215		50 Taper	30 ATC	3,150
			40 ATC	3,700





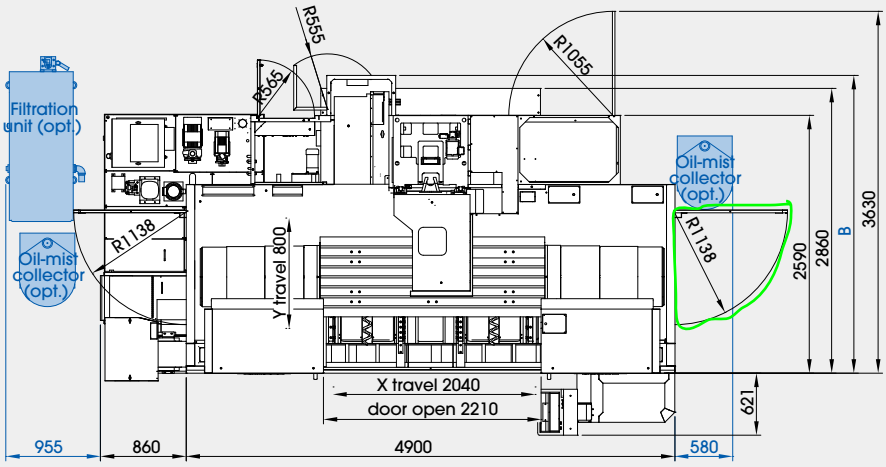


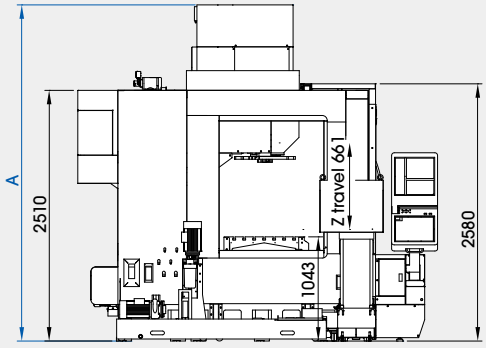
MV234 / MV235 Layout

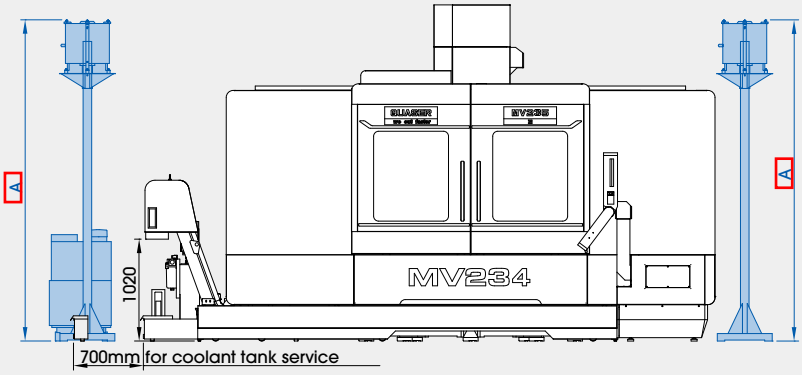
Installation dimension

Max. Machine Height	MV234		MV235	
	E & P	P	E & P	P
Spindle code	9B / 12B	15C / 20C	6B / 7.5B	15C
A Standard column 1. Z axis travel 661 mm 2. Spindle nose to table surface 150~811 mm (#40 & #50)	3,400	3,500	3,500	3,400
A Tall column (column raiser) 1. Z axis travel 800 mm 2. Spindle nose to table surface 150~950 mm (#40 & #50) *Container shipment is not possible	3,600*	3,650*	3,700*	3,600*

MV234	B	40 Taper	48 ATC	3,100
			60 ATC	3,500
MV235		50 Taper	30 ATC	3,200
			40 ATC	3,800







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Address: Unterlettenstrasse 16, CH- 9443
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E-mail: qe@qmt.com.tw

KUNSHAN QUASER MACHINE TOOLS, INC.

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Address: Unterlettenstrasse 16, CH- 9443 Widnau Switzerland
Tel: +41 71 722 43 43
Mobile phone: +41798229028
E-mail: qe@qmt.com.tw

KUNSHAN QUASER MACHINE TOOLS, INC.

Address: (B) No. 287, Kangzhuang Road, Zhoushi Town, Kunshan City, Jiangsu,P.R. China
Tel: 0512-82627139
Fax: 0512-82627138
E-mail: qmtc@qmt.com.tw

QUASER AMERICA MACHINE TOOLS INC.

Address: 3049 Southcross Boulevard,Rock Hill, SC, 29730, UNITED STATES
Tel: +1 803-324-7123
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