



MV1 SERIES

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New!

MV134C / E / P



MV154 MV154L
Generation I (2003~2007)



MV154 MV154L
Generation II (2007~2010)



MV154 C / E / P / M MV184 C / D / E / P / M
Generation III (2010~2017)

- Enlarge the machining status observation window
- Ergonomic operation panel with adjustable angle
- Maintenance door with improved accessibility, suitable for long workpiece machining
- Ceiling wash down achieve better chip management(opt.)



Generation IV

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

MV1 SERIES

MV134 C / E / P

Travel X / Y / Z: 661 / 572 / 560 (mm)



MV154 C / E / P

Travel X / Y / Z: 762 / 530 / 560 (mm)



MV154 M

Travel X / Y / Z: 700 / 530 / 560 (mm)



MV184 C / D / E / P

Travel X / Y / Z: 1,020 / 610 / 610 (mm)



MV184 M

Travel X / Y / Z: 900 / 610 / 610 (mm)

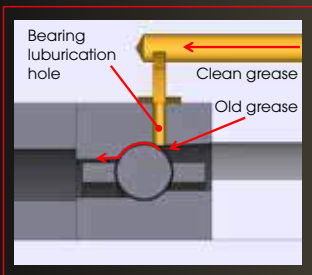
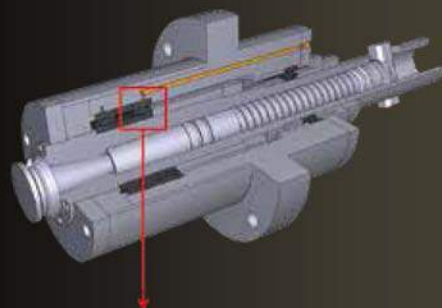


FANUC = **F** SIEMENS = **S** MITSUBISHI = **M** HEIDENHAIN = **T**

Motor		MV134C	MV134E		MV134P				MV154C & MV184C		MV154E & MV184E		MV154P & MV184P				MV154M & MV184M		MV184D		
Spindle code		12C	9B	12B	9B	12B	15C	20C	10C	12C	9B	12B	9B	12B	15C	20C	15C	20C	12C	15C	20C
X / Y / Z (kW)	F	3 / 3 / 4							-	3 / 3 / 4	3 / 3 / 4		3 / 3 / 4				4 / 4 / 5.5		3 / 4 / 4		
	S	2.7 / 2.7 / 3.1	2.7 / 2.7 / 3.1	2.7 / 2.7 / 4.9			-	-	2.7 / 2.7 / 3.1	-		2.7 / 2.7 / 4.9			-	-	-	-	3.3 / 3.1 / 4.9	-	
	M	2.2 / 2.2 / 3	-	-			-	2.2 / 2.2 / 3	-		-				-	-	-	-	-	-	
	T	-	3.1 / 3.1 / 4.5	4.5 / 4.5 / 5.1	4.5 / 4.5 / 5.4	-	-	-	3.1 / 3.1 / 4.5	4.5 / 4.5 / 5.1	4.5 / 4.5 / 5.4	-	5.1 / 5.4 / 5.4	-	-	-	-	-	-		

Unique spindle technology

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



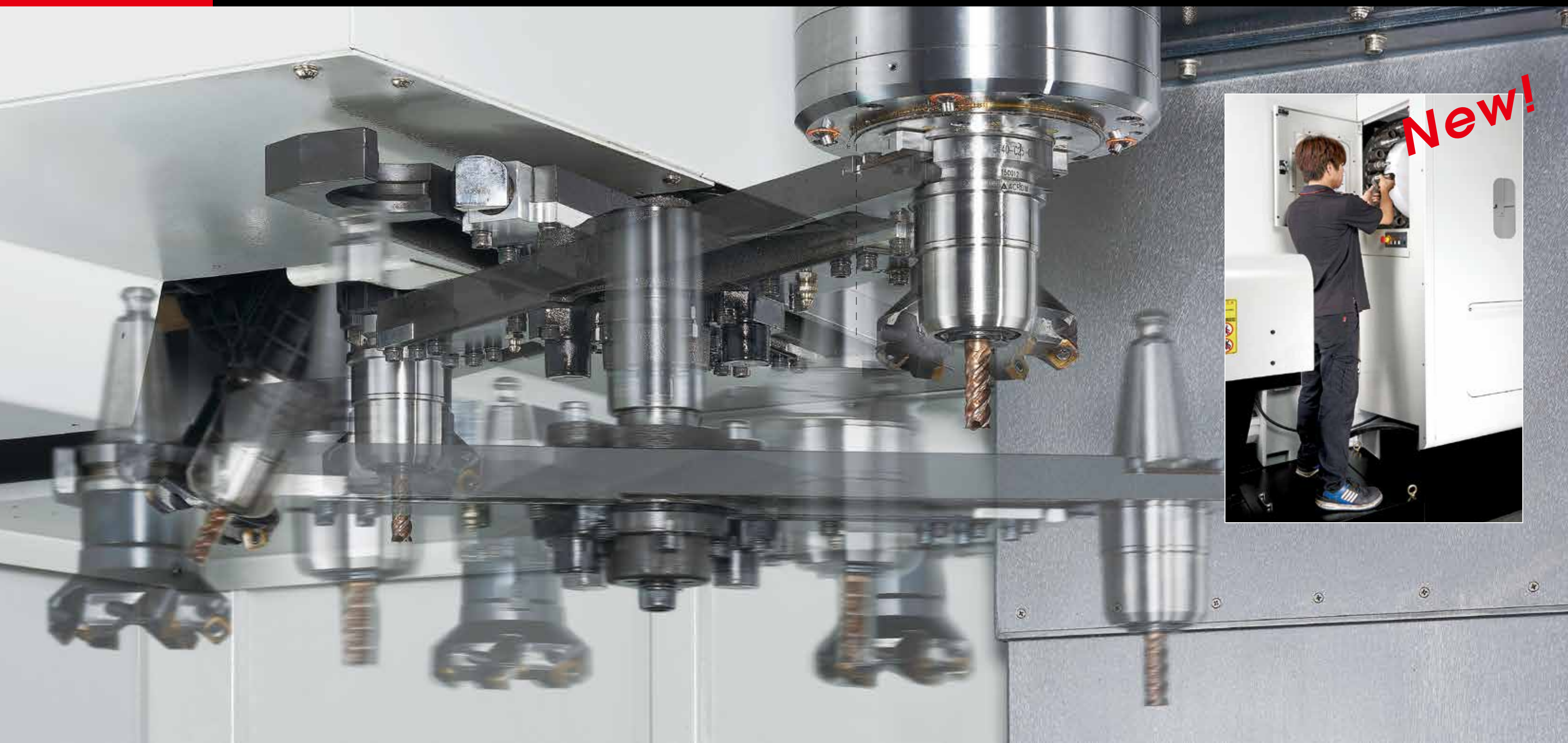
- Standard on all models



New spindle code	MB-4.0				SC-4.2					MC-4.1R		MC-4.0R
Shaft diameter	Ø70 / Ø65				Ø80 / Ø70					Ø80 / Ø65		Ø70 / Ø60
Spindle Taper	ISO-40				ISO-40					ISO-40 / HSK A63		
Bearing arrangement	< > =				<< >>					< > =		< > =
Ball bearing type	Ceramic				Ceramic					Ceramic		Ceramic
Roller bearing type	Steel				-					Steel		Ceramic
Bearing lubrication	Grease packed				Grease packed					Re-Grease		
Transmission	Belt				Coupling					Coupling		
Spindle Speed	9,000	12,000	9,000	12,000	10,000	12,000				15,000		20,000
FANUC												
Spindle base speed	1,125	1,500	1,125	1,500	-	1,500	1,500			1,500	1,400	1,150
Spindle output power kW (S3-25%)	18.5		25		-	18.5	15			15	26	15
Spindle output torque Nm (S3-25%)	157	118	212	159	-	118	95.5			96.5	177	125
HEIDENHAIN												
Spindle base speed	1,125	1,500	1,125	1,500	-	-	-			2,000		-
Spindle output power kW (S6-25%)	17		32		-	-	-			27.7		-
Spindle output torque Nm (S6-25%)	144	108	272	204	-	-	-			132		-
SIEMENS												
Spindle base speed	1,125	1,500	1,125	1,500	-	1,500				2,000		-
Spindle output power kW (S6-25%)	17.6		28.5		-	17.6				27.7		-
Spindle output torque Nm (S6-25%)	149 ⁽¹⁾	112 ⁽¹⁾	242	182	-	112				132		-
MITSUBISHI												
Spindle base speed	-	-	-	-	1,500	1,500	1,500	1,500	1,500	-		-
Spindle output power kW (30min.)	-	-	-	-	15	11	18.5	11	18.5	-		-
Spindle output torque Nm (30min.)	-	-	-	-	96	70	102	70	102	-		-
CTS Availability	●	●	●	●	X	X		Opt.		●		●
Available NC adapting	FANUC = ● HEIDENHAIN = ● SIEMENS = ● MITSUBISHI = ●											
MV134 C	-	-	-	-	-	●●●	-	●●●	-	-	-	-
MV134 E	●●	●●	-	-	-	-		-		-	-	-
MV134 P	●●	●●	●	●	-	-		-		●●●	-	●
MV154C / MV184 C	-	-	-	-	●	-	●●●	-	●●●	-	-	-
MV154E / MV184 E	●●	●●	-	-	-	-		-		-	-	-
MV154P / MV184 P	-	-	●●●	●●●	-	-		-		-	●●●	●
MV154M / MV184 M	-	-	-	-	-	-		-		-	●●	●
MV184D	-	-	-	-	-	●	●		-		●●	●

Note : ⁽¹⁾S6-40%

ATC system



30 ATC (std.)

48 ATC (opt.)

60 ATC (opt.)

120 ATC (opt.)

ATC auto door (opt.)



Coolant system & Chip management



			MV134			MV154 / MV184				MV184
			C	E	P	C	E	P	M	D
A	Coolant tank		350L			480L				480L
B	Coolant through spindle		-	8 bar		-	8 bar		20 bar	Opt.
C	Nozzle coolant		3 bar			3 bar				
D	Wash gun		Std.			Std.				
E	Chip augers		Std.			Std.				
F	Chip conveyor	Scraper type	Opt.	Std.		Opt.	Std.			Opt.
G	Filtration unit		-	Opt.		-	Opt.			
H	High-angle telescopic cover design with excellent chip		Std.			-				
I	Wash down		1.1 bar			3 bar				

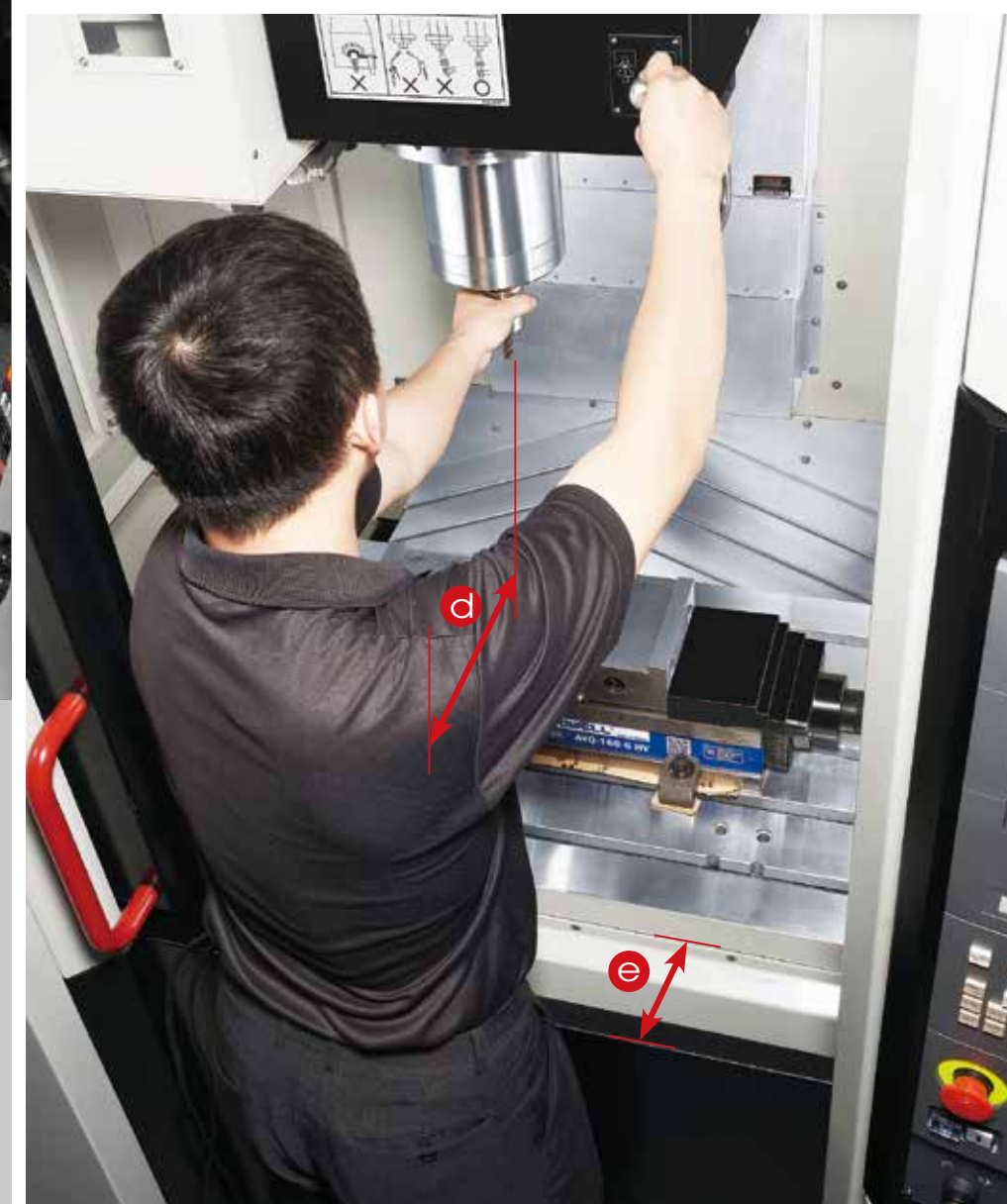


Easy operation



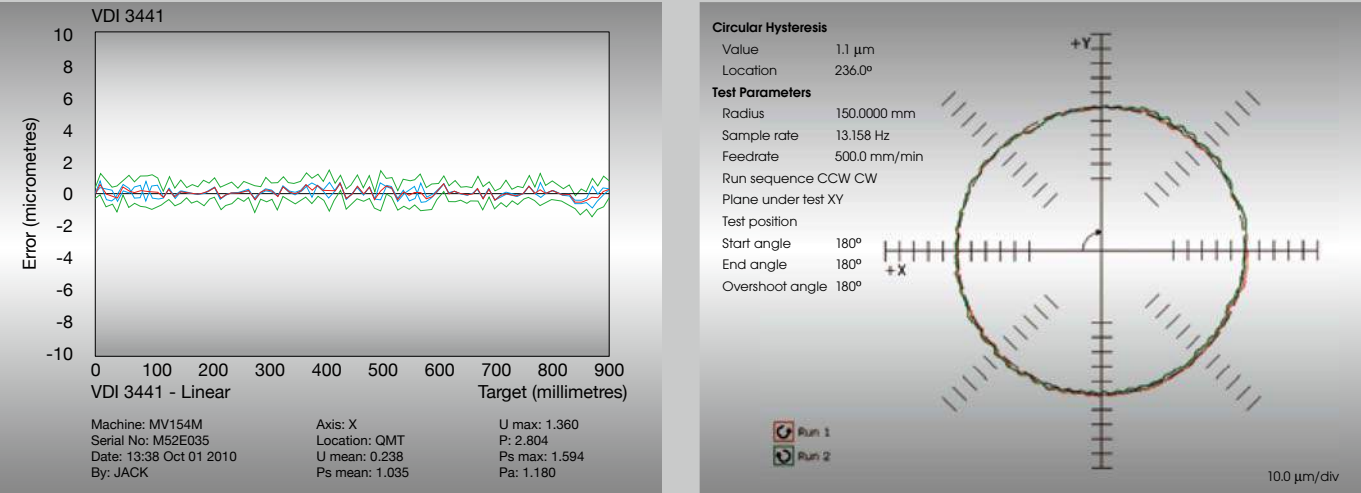
- a** Front door opening at
 - MV134: 730 mm
 - MV154: 821 mm
 - MV184: 1,077 mm
- b** Larger opening for service or exchange to auto door for robot
- c** Ergonomic operation panel with adjustable angle

- d** Convenient distance from operator to the spindle
 - MV134: 715 mm
 - MV154: 753 mm
 - MV184: 861 mm
- e** Table to front door with easy accessibility
 - MV134: 154 mm
 - MV154: 168 mm
 - MV184: 255 mm



Precision accuracy

Positioning accuracy=1.180 μm VDI 3441 Feed rate: 500 mm / min, Value: 1.1 μm



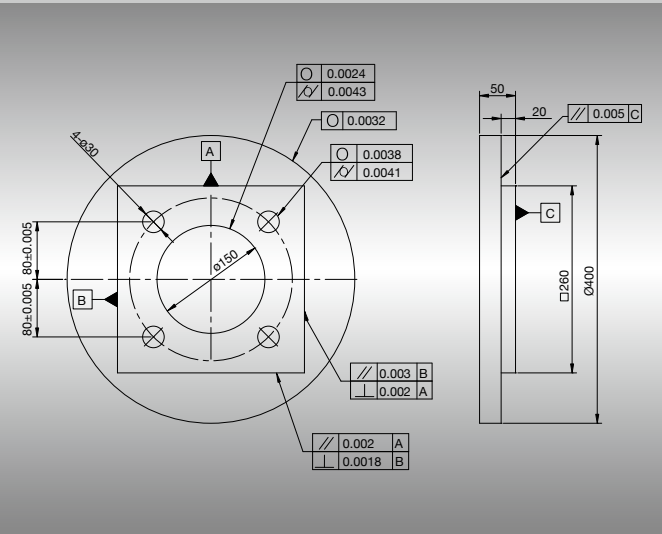
Note: The above data is sampled randomly selected from M-model machine.

ISO 10791-1 / ISO 10791-4.2		ISO STANDARD	QUASER STANDARD	
			(MV134/C & /E & /P) (MV154/C & /E & /P) (MV184/C & /D & /E & /P)	(MV154M / MV184M)
Straightness	X	0.015 / Full Stroke	0.010 / Full Stroke	0.005 / 0.008
	Y	0.010 / Full Stroke	0.010 / Full Stroke	0.005 / 0.005
	Z	0.010 / Full Stroke	0.010 / Full Stroke	0.005 / 0.005
Perpendicularity	X-Y	0.02 / 500	0.01 / 500	0.006 / 0.006
	Y-Z	0.02 / 500	0.01 / 500	0.006 / 0.006
	Z-X	0.02 / 500	0.01 / 500	0.006 / 0.006
Positioning accuracy (VDI 3441)	X	0.02	0.01	0.003 / 0.005
	Y	0.016	0.008	0.003 / 0.003
	Z	0.016	0.008	0.003 / 0.003
Positioning repeatability (VDI 3441)	X	0.008	0.004	0.002 / 0.003
	Y	0.006	0.004	0.002 / 0.002
	Z	0.006	0.004	0.002 / 0.002
Spindle run-out on table surface (for 300 mm distance)		0.02 / 300	0.01 / 300	0.005 / 0.005
Spindle run-out (with a test bar mounted)	At base	0.01	0.004	0.003 / 0.003
	At 300 mm	0.02	0.008	0.006 / 0.006
Circularity (Ø300 mm, F5000 & F500)	CW	N.A	0.010	(0.003 / 0.003)*
	CCW	N.A	0.010	(0.003 / 0.003)*

Note: * Ø300 mm, F500
The measuring results indicated in this catalog are provided as an example by random selection.

Unit: mm

Results
Text island height
Q = 3.0 μm
U = 2.5 μm
A = 2.0 μm
S = 1.5 μm
E = 1.0 μm
R = 0.5 μm

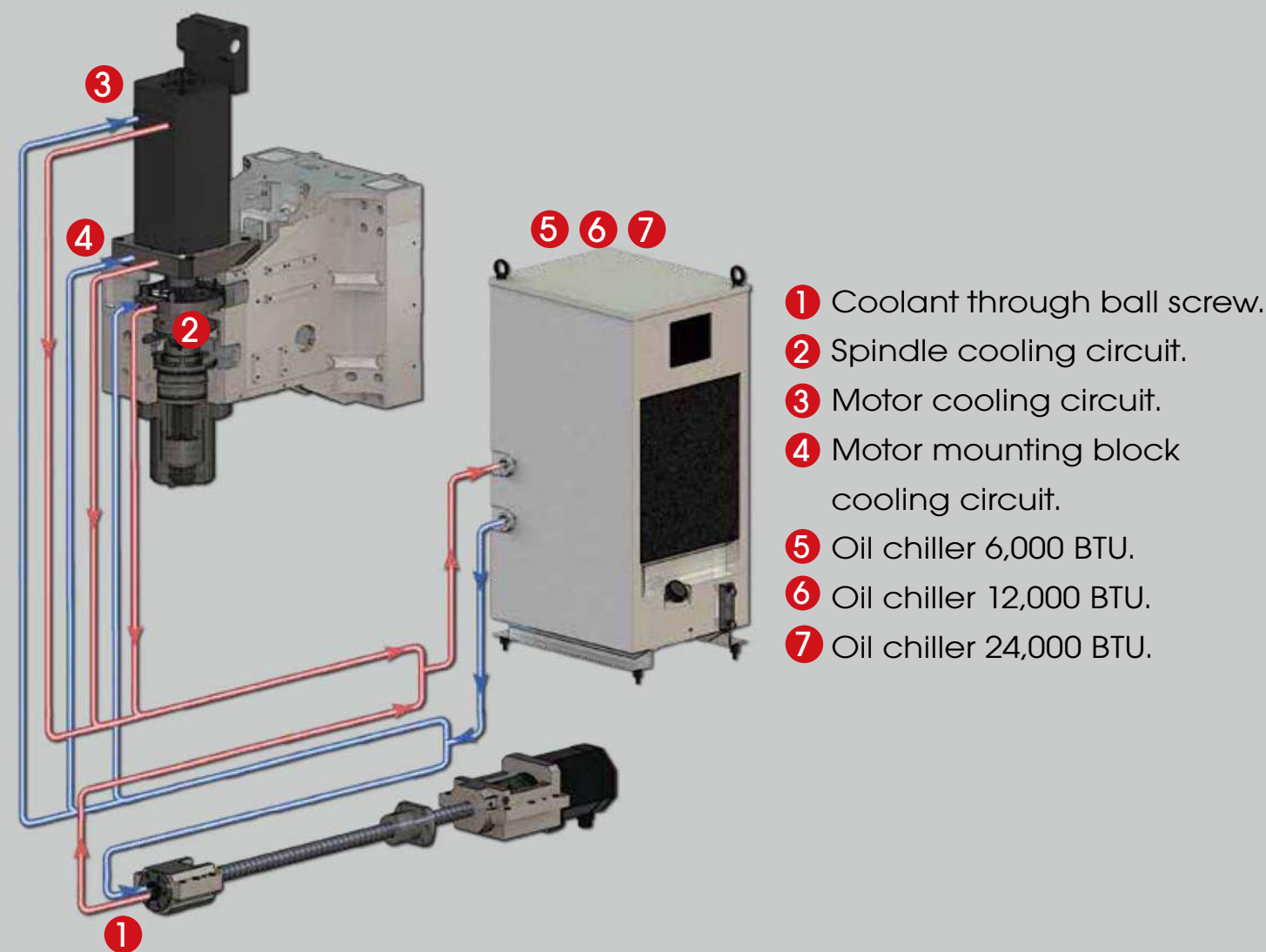


M model
Machining test parts is measured by LEITZ pmmc and each geometric accuracy test result is less than 0.005mm.



Thermal Management

To meet the demand of severe ACCURACY requirements, our "THERMAL MANAGEMENT":



●=Standard O=Option X=N/A

	MV134C	MV134E	MV134P		MV154C/ MV184C		MV154E/ MV184E	MV154P/ MV184P		MV154M/ MV184M	MV184D
	Coupling	Belt	Belt	Coupling	Belt	Coupling	Belt	Belt	Coupling	Coupling	Coupling
1	X	X	O	O	X	X	X	O	O	●	O
2	●	●	●	●	●	●	●	●	●	●	●
3	X	X	X	● Note2	X	X	X	X	● Note2	● Note2	● Note2
4	●	X	X	●	X	●	X	X	●	●	●
5	●	●	●	X	●	●	●	●	X	X	●
6	X	X	X	● Note1	X	X	X	X	● Note1	● Note1	O
7	X	X	X	● Note2	X	X	X	X	● Note2	● Note2	X

Note1: 15,000 rpm / ● Note2: 20,000 rpm / ●

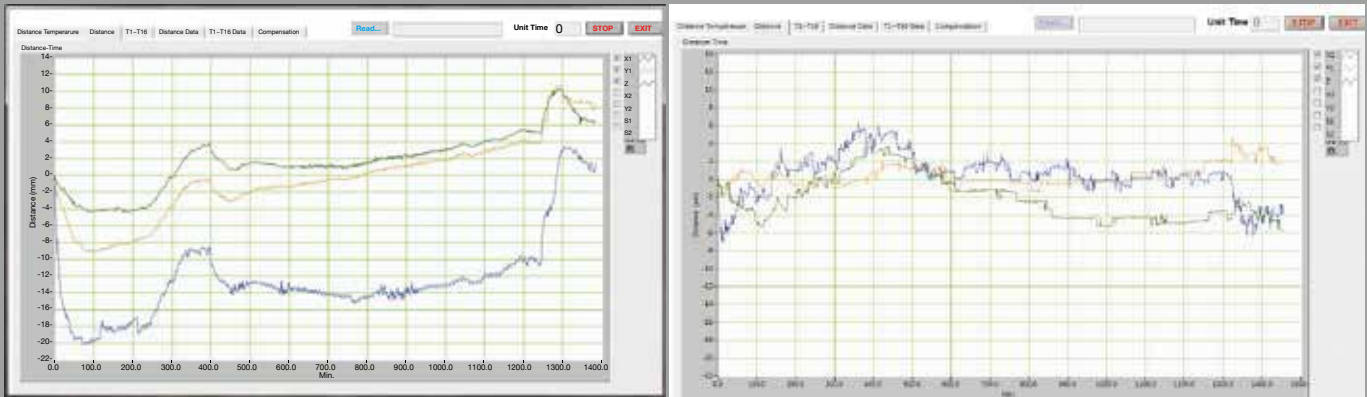
Heat generated from spindle and spindle motor are quickly removed by cooling circuits on spindle housing, spindle motor, motor mounting plate and spindle head. The heat is exchanged by a large capacity oil chiller, and the thermal compensation function to reduce thermal impact to a minimum.



Thermal compensatin on X, Y & Z

Before

After



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

Technical data		MV134		
		C	E	
Spindle code		12C	9B	12B
Work range				
Table size (mm)		940 x 550		
Travel X / Y / Z (mm)		661 / 572 / 560		
Spindle nose to table surface (mm)		100 ~ 660		
Table load capacity (kg)		500		
Feed drive				
Feed force	X / Y / Z (N)	6,283 / 6,283 / 11,519 (F) 6,283 / 6,283 / 10,472 (S) 6,283 / 6,283 / 11,781 (M)	6,283 / 6,283 / 11,519 (F) 6,807 / 6,807 / 9,268 (T)	
Rapid movement	X / Y / Z (m/min)	36 / 36 / 36	36 / 36 / 36	
(1)Acceleration	X / Y / Z (m/s²)	6 / 5 / 4 (F)(M) 4.6 / 4.4 / 5.7 (S)	6 / 5 / 4 (F) 3 / 3 / 2.5 (T)	
Dia & pitch of the ball screw		Ø40 / P= 12	Ø40 / P= 12	
Accuracy Positioning / Repeatability				
ISO 230-2		0.008 / 0.004		
JIS 6338 (300 mm)		±0.003 / ±0.002		
VDI 3441		0.008 / 0.004		
Main spindle				
Spindle Taper		BBT40		
Max. spindle speed		12,000	9,000	12,000
Tool changer				
Tool selection		Random		
Magazine positions		30 (std.)	30 (std.) 48 / 60 (opt.)	
Max. tool diameter (mm)		Ø76.2		
Max. tool dia. Due to neighbor pots are empty		Ø150		
Max. tool length (mm)		300		
Max. tool weight (kg)		10		
T to T time-ISO 10791-9 (sec.)		1.7		
C to C time-ISO 10791-9 (sec.)		4.1		
Coolant system				
Coolant tank capacity (Liter)		350L		
Pump capacity				
- Nozzle capacity		75L / min., 3 bar		
- Coolant through spindle		-	25 L / min., 8 bar	
- Wash down		75L / min., 1.1 bar		
Machine size				
Height (mm)		3,000		
Floor space W x D (mm)	30 ATC	2,050 x 3,141		
	48 / 60ATC	-	2,050 x 3,141	
Weight (kg)		6,000 (30ATC)	6,000(30ATC) 6,400(48ATC) 6,600(60ATC)	
Connections				
Main power		220V / 60Hz or 400V / 50Hz		
Power consumption (KVA)		23 (F) 23 (S) 20.6 (M)	23 (F) 24.8 (T)	

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.

Main spindle: (B) Belt spindle (C) Coupling spindle

MV134			
P			
9B	12B	15C	20C ⁽²⁾
940 x 550			
661 / 572 / 560			
100 ~ 660			
500			
4,712 / 4,712 / 8,639 (F) 6,951 / 6,951 / 8,482 (T) 4,712 / 4,712 / 10,603 (S)		4,712 / 4,712 / 8,639 (F) 6,951 / 6,951 / 10,249 (T) 4,712 / 4,712 / 10,603 (S)	4,712 / 4,712 / 8,639 (F)
48 / 48 / 48			
8 / 6 / 4 (F) 5 / 3.5 / 5.5 (T) 5.3 / 4.7 / 5.7 (S)		8 / 6 / 4 (F) 4.5 / 3.5 / 5.5 (T) 8 / 5.3 / 5.7 (S)	8 / 6 / 4 (F)
Ø40 / P= 16			
0.008 / 0.004			
±0.003 / ±0.002			
0.008 / 0.004			
BBT40			
9,000	12,000	15,000	20,000
Random			
30 (std.) 48 / 60 (opt.)			
Ø76.2			
Ø150			
300			
10			
1.7			
4.1			
350L			
75L / min., 3 bar			
25 L / min., 8 bar			
75L / min., 1.1 bar			
3,000			
2,050 x 3,141			
2,050 x 3,141			
6,000(30ATC) 6,400(48ATC) 6,600(60ATC)			
220V / 60Hz or 400V / 50Hz			
23 (F) 31.4 (T) 29.3 (S)		23 (F) 29 (T) 27 (S)	29(F)

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

Technical data		MV154 / MV184			
		C		E	
Spindle code		10C	12C	9B	12B
Work range					
Table size (mm)		900 x 500 1,200 x 600			
Travel X / Y / Z (mm)		762 / 530 / 560 1,020 / 610 / 610			
Spindle nose to table surface (mm)		150 ~ 710 100 ~ 710			
Table load capacity (kg)		500			
Feed drive					
Feed force X / Y / Z (N)	F	-	6,283 / 6,283 / 11,519	4,712 / 4,712 / 11,519	
	T	-		6,807 / 6,807 / 13,902	
	M	6,283 / 6,283 / 17,671		-	
	S	-	4,712 / 4,712 / 15,708	-	
Rapid movement X / Y / Z (m/min)		32 / 32 / 24 (F) (M) (S)		40 / 40 / 36 (F) 32 / 32 / 24 (T)	
⁽¹⁾ Acceleration X / Y / Z (m/s²)	F	-	3.5 / 3.5 / 3	4 / 4 / 4	
	T	-		2.5 / 2 / 2	
	M	2.9 / 2.9 / 2.8		-	
	S	-	3.5 / 2.5 / 2	-	
Dia. & pitch of the ball screw		Ø45 / P = 12 / 12 / 12 (F) Ø45 / P = 12 / 12 / 8 (M) Ø45 / P = 16 / 16 / 8 (S)		Ø45 / P = 16 / 16 / 12 (F) Ø45 / P = 12 / 12 / 8 (T)	
Accuracy Positioning / Repeatability					
ISO 230-2		0.008 / 0.004			
JIS 6338 (300 mm)		±0.003 / ±0.002			
VDI 3441		0.008 / 0.004			
Main spindle					
Spindle model		40 Taper			
Max. spindle speed		10,000	12,000	9,000	12,000
Tool changer					
Tool selection		Random			
Magazine positions		30		30 (std.) 48 & 60 (opt.)	
Max. tool diameter		76.2			
w/o adjacent tool		125			
Max. tool length		280			
Max. tool weight		7			
CTC time –ISO 10791-9 (sec.)		4.2 (F) 4 (M) 4.7 (S)		4 (F) 4.2 (T)	
Coolant system					
Coolant tank capacity (Liter)		480L			
Pump capacity					
- Nozzle coolant		75 L / min., 3 bar			
- Coolant through spindle		-		25 L / min., 8 bar	
- Wash down		75 L / min., 3 bar			
Machine size					
Height (mm)		3,025 / 3,030		2,860	
Floor space W x D (mm)	30 ATC	2,100 x 3,036 / 2,548 x 3,240		2,663 x 3,135 / 2,912 x 3,339	
	48 / 60ATC	-		2,663 x 3,135 / 2,663 x 3,240 2,912 x 3,339 / 2,912 x 3,349	
Weight (kg)		6,000-6,300 / 6,990		6,100-6,400 / 7,090	
Connections					
Main power		200V / 60Hz or 400V / 50Hz			
Power consumption (KVA)		20 (M)	16 (F) 20 (M) 29 (S)	20 (F) 21 (T)	

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 form the catalogue if there any specification update.

Main spindle: (B) Belt spindle (C) Coupling spindle

MV154 / MV184						MV184		
P				M		D		
9B	12B	15C	20C ⁽²⁾	15C	20C ⁽²⁾	12C	15C	20C ⁽²⁾
900 x 500 1,200 x 600						1,200 x 600		
762 / 530 / 560 1,020 / 610 / 610				700 / 530 / 560 900 / 610 / 610		1,020 / 610 / 610		
150 ~ 710 100 ~ 710						100 ~ 710		
500						500		
4,712 / 4,712 / 11,519				17,279 / 17,279 / 23,562		9,425 / 17,279 / 17,279		
6,951 / 6,951 / 11,310		6,951 / 6,951 / 13,666		16,965 / 20,499 / 20,499		-		
-				-		-		
4,712 / 4,712 / 14,137				-		-	12,566 / 15,708 / 21,206	-
40 / 40 / 36 (F) (T) (S)				24 (F) (T)		24 / 24 / 24		
4 / 4 / 4				3.5 / 3.5 / 8.5		3 / 3 / 3		
3.5 / 2.5 / 5				5 / 7 / 8.5		-		
-				-		-		
4 / 2.5 / 5				-		-	3 / 3 / 3	-
Ø45 / P = 16 / 16 / 12				Ø45 / P = 8 / 8 / 8		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	15,000	20,000	12,000	15,000	20,000
Random								
30 (std.) 48 & 60 (opt.)								
76.2				76.2		76.2		
125				125		125		
280				280		280		
7				7		7		
4 (F) 4.5 (T) 4.7 (S)				4 (F) 4.2 (T)		4		
480L						480L		
75 L / min., 3 bar								
25 L / min., 8 bar				25L / min., 20 bar		-		
75 L / min., 3 bar								
2,860	3,025 / 3,030		3,025 / 3,030			3,030		
2,663 x 3,135 2,912 x 3,339						2,912 x 3,339		
2,663 x 3,135 / 2,663 x 3,240 2,912 x 3,339 / 2,912 x 3,349						2,912 x 3,339 / 2,912 x 3,349		
6,100-6,400 / 7,090						6,890		
200V / 60Hz or 400V / 50Hz								
25 (F) (T) 29 (S)		33 (F) (T) 28 (S)		33 (F) (T)		23 (F)	33 (F) 29 (S)	33 (F)

●=Standard ○=Option x=N/A

Standard / Option accessories	MV134							MV154 / MV184										MV184		
	C	E		P				C		E		P				M		D		
Spindle code	12C	9B	12B	9B	12B	15C	20C	10C	12C	9B	12B	9B	12B	15C	20C	15C	20C	12C	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	×	×	×	○	○	○	×	×	×	×	×	○	○	○	×	○	×	×	×	×
■ HEIDENHAIN TNC620	×	○	○	×	×	×	×	×	×	○	○	×	×	×	×	×	×	×	×	×
■ SIEMENS 828D	○	×	×	○	○	○	×	×	○	×	×	×	○	×	×	×	×	×	○	×
■ MITSUBISHI M80 (package A)	○	×	×	×	×	×	×	○	○	×	×	×	×	×	×	×	×	×	×	×
■ MITSUBISHI M830	×	×	×	×	×	×	×	○	○	×	×	×	×	×	×	×	×	×	×	×
■ 40 Taper 30 position tool magazine	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
■ 40 Taper 48 position tool magazine	×	○	○	○	○	○	○	×	×	○	○	○	○	○	○	○	○	○	○	○
■ 40 Taper 60 position tool magazine	×	○	○	○	○	○	○	×	×	○	○	○	○	○	○	○	○	×	×	×
■ 40 Taper 120 position tool magazine ⁽⁵⁾	×	×	×	×	×	×	×	×	×	×	×	×	×	○	○	○	○	×	×	×
■ 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)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
■ Oil chiller	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
■ 4 th axis preparation	×	●	●	●	●	●	●	×	×	●	●	●	●	●	●	●	●	×	×	×
■ Ø255mm rotary table & tail stock	×	○	○	○	○	○	○	×	×	○	○	○	○	○	○	○	○	×	×	×
■ Remote MPG ⁽¹⁾	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
■ Transformer ⁽²⁾	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
■ Linear scale	×	○	○	○	○	○	○	×	×	○	○	○	○	○	○	●	●	○	○	○
■ Thermal compensation	×	×	×	×	×	○	○	×	×	×	×	×	×	○	○	●	●	×	×	×
■ Work probe receive OMI-2T	×	○	○	○	○	○	○	×	×	○	○	○	○	○	○	○	○	○	○	○
■ Work probe	×	○	○	○	○	○	○	×	×	○	○	○	○	○	○	○	○	○	○	○
■ Tool length / breakage measurement	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
■ Coolant system	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
■ Coolant wash down / wash gun	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
■ Air 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	○	●	●	●	●	●	●	○	○	●	●	●	●	●	●	●	●	○	○	○
■ Hinge external lift-up conveyor	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
■ Scraper external lift-up conveyor (drum type)	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
■ Hinge external lift-up conveyor (drum type)	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
■ Oil-mist collector	○	○	○	○	○	○	○	○	×	○	○	○	○	○	○	○	○	○	○	○
■ Bag filtration	×	○	○	○	○	○	○	×	×	○	○	○	○	○	○	○	○	×	×	×
■ Filtration unit	×	○	○	○	○	○	○	×	×	○	○	○	○	○	○	○	○	×	×	×
■ Documentation (CD-ROM) ⁽³⁾	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
■ Total Enclosure Guard (with Top side cover)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
■ Foundation bolts & blocks	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
■ Work light	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
■ Machine status light	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
■ CE & EMC ⁽⁴⁾ / GB	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

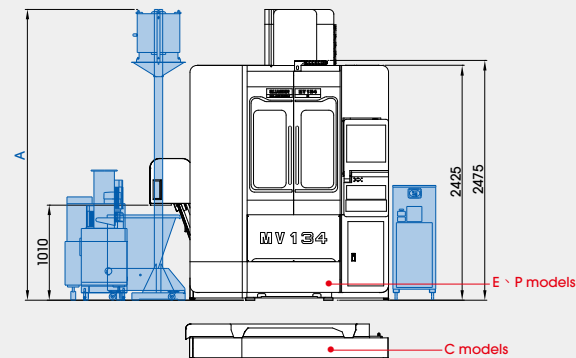
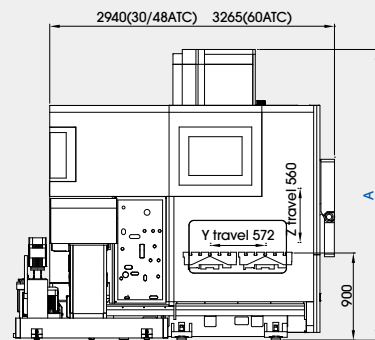
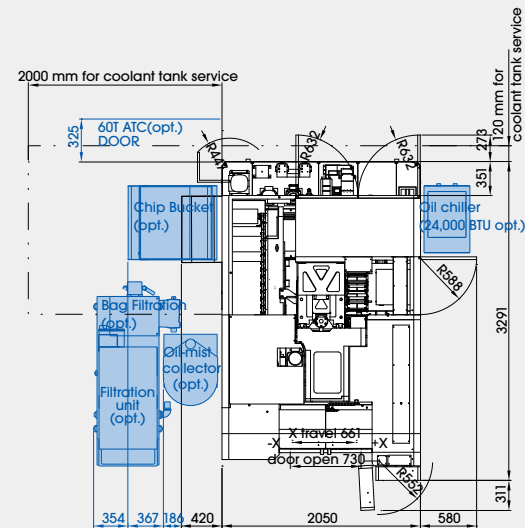
Note: ⁽¹⁾ HEIDENHAIN as standard.
⁽²⁾ Transformer as standard or option item will be varied according to control system and power supply condition.
⁽³⁾ Paper documentation is option ⁽⁴⁾ Standard for EU area except C type. ⁽⁵⁾ Only for MV184 coupling spindle
- Machine specification might be different from the catalog if there is any specification update.

Machine Dimensions

MV134

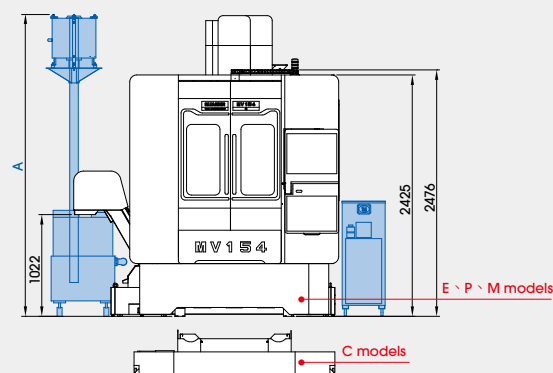
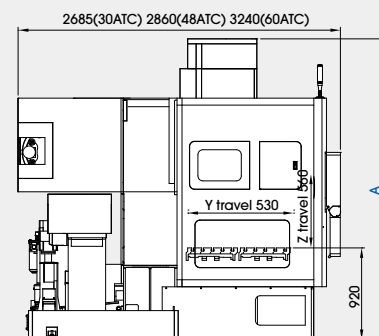
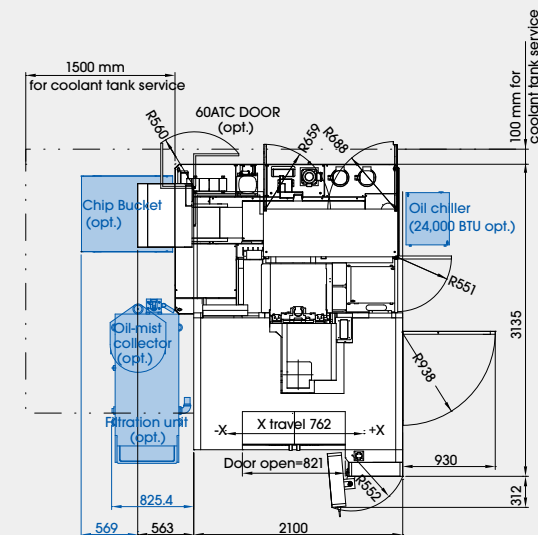
Installation dimension

A	12C/15C/20C	3,005
	9B / 12B	2,915



MV154

A	10C/12C/15C/20C	3,025
	9B / 12B	2,860



MV184

Installation dimension

A	10C/12C/15C/20C	3,030
	9B / 12B	2,860

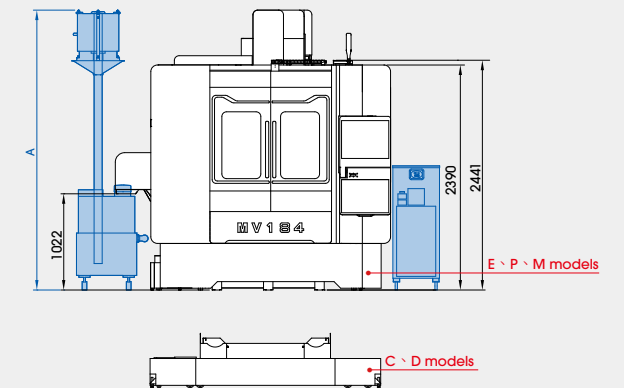
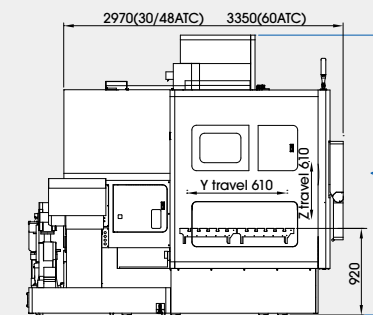
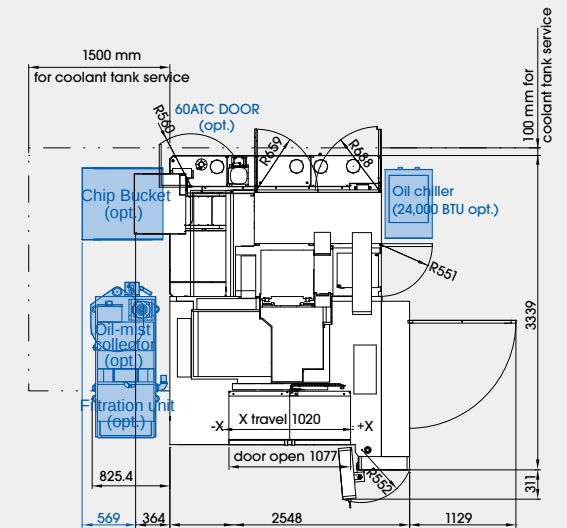
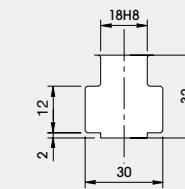


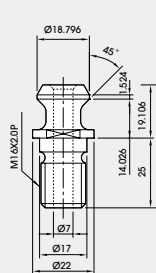
Table dimension

	MV134	MV154	MV184
X	940	900	1200
Y	550	500	600
Q	75	50	100

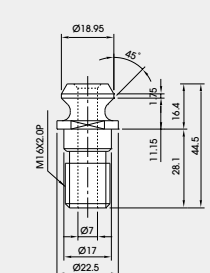


Pull stud and applicable tools

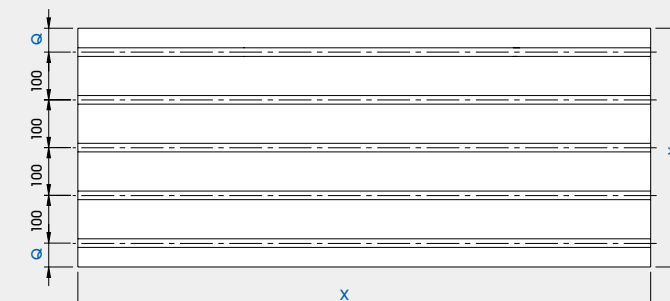
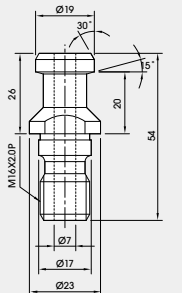
BT 40



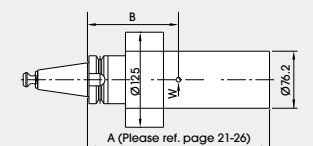
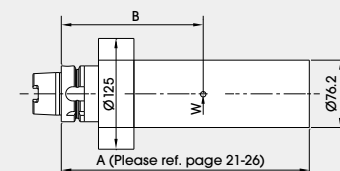
ISO (7388-B)



DIN (69872-A)

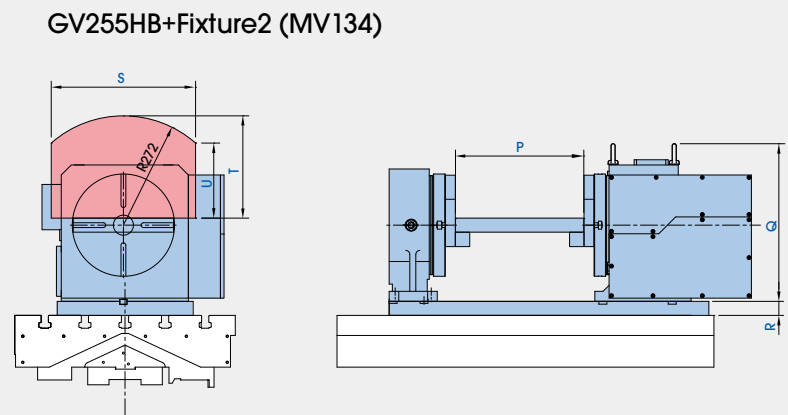
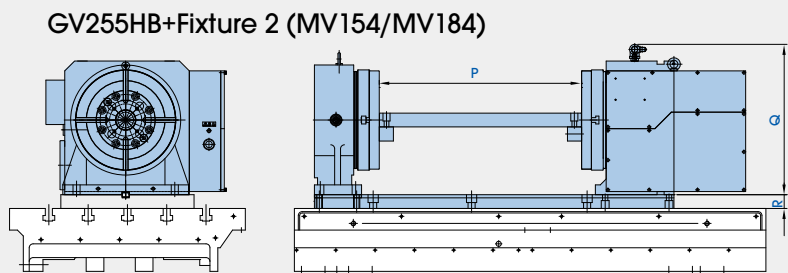
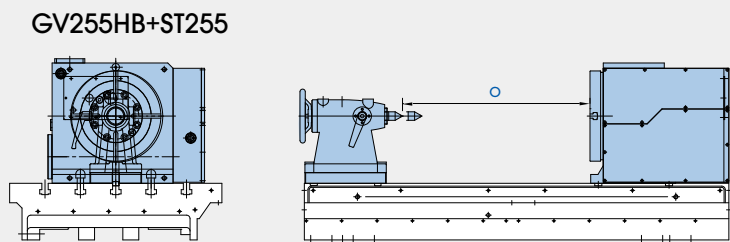
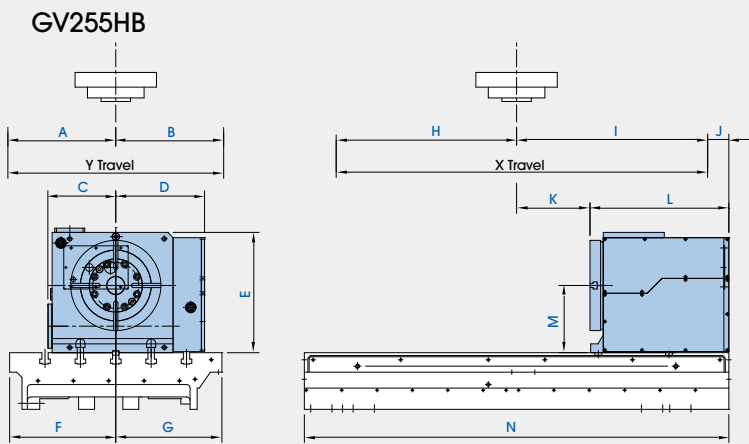


B	tool median point distance	
W	tool weight	
MOMENT=W*B(≤ 10.29 N-m)		MOMENT=W*B(≤ 9.85 N-m)



- Very classic craftsmanship combined with the most advanced modern equipment in a clean environment...

	MV134	MV154	MV184
A	286	265	305
B	286	265	305
C	192	192	192
D	251	251	251
E	352	352	352
F	375	265	300
G	175	250	300
H	330.5	381	510
I	330.5	381	510
J	232	98	30
K	170	55.5	147.5
L	392.5	392.5	392.5
M	190	190	190
N	940	900	1200
O	364	230	470
P	340	300	515
Q	391	391	391
R	35	35	35
S	360	-	-



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