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# MV1 SERIES

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MV154 MV154L  
**Generation I** (2003~2007)



MV154 MV154L  
**Generation II** (2007~2010)

- C** : Cost effect
- E** : Standard
- P** : Performance
- M** : High precision
- D** : Mold processing



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



**Generation IV**

**New!**

## MV134C / E / P



- Enlarge the machining status observation window
- Ergonomic operation panel with adjustable angle
- Maintenance door with improved accessibility, suitable for long workpiece machining

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)

## MV184 C / D / E / P

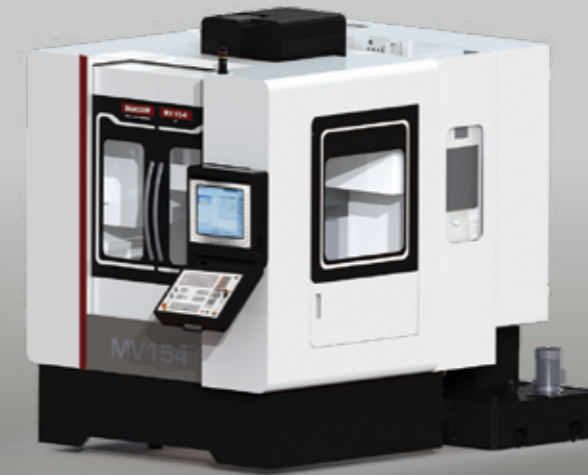
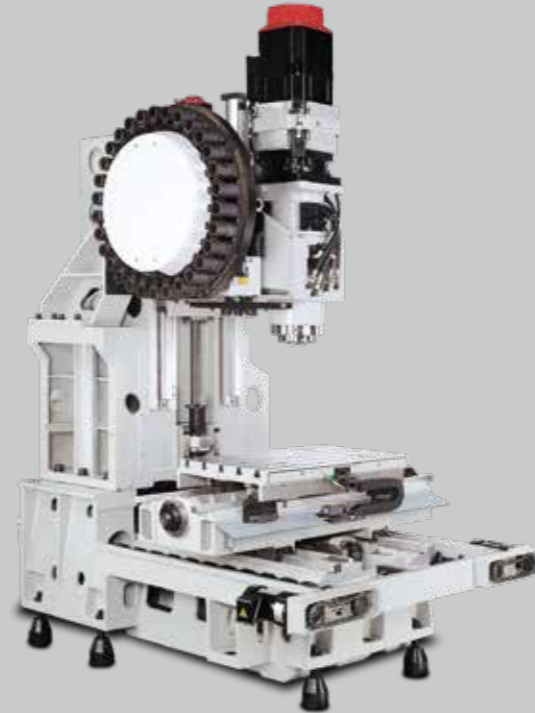
Travel X / Y / Z: 1,020 / 610 / 610 (mm)

## MV154 M

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

## MV184 M

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

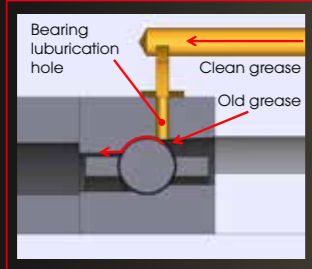
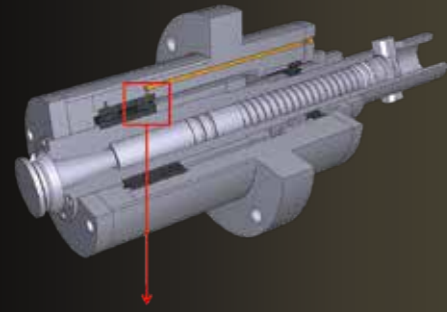


FANUC = **F** SIEMENS = **S** MITSUBISHI = **M** HEIDENHAIN = **T**

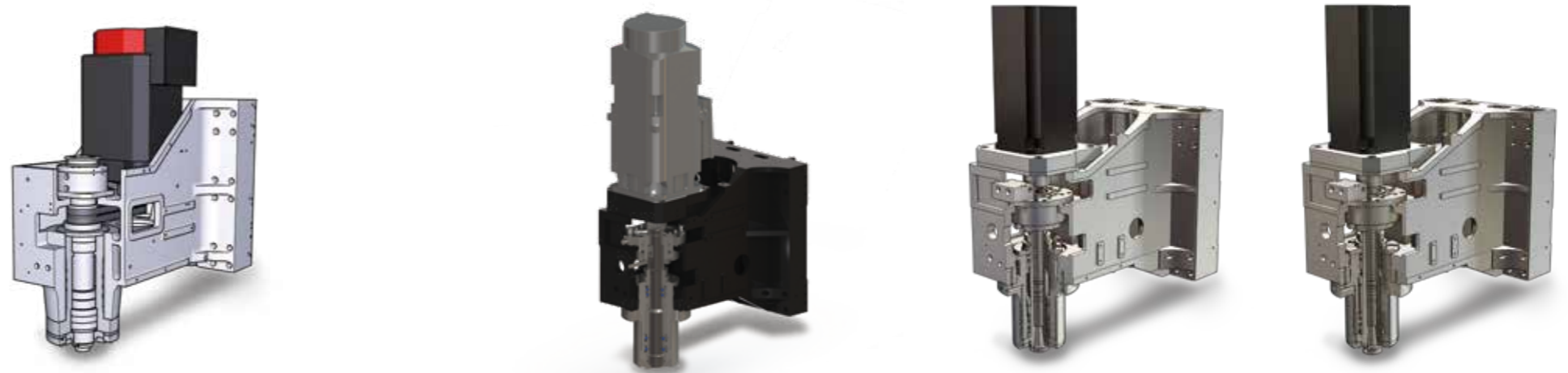
Motor	MV134C	MV134E	MV134P				MV154C & MV184C		MV154E & MV184E		MV154P & MV184P				MV154M & MV184M		MV184D				
Spindle code	12C	9B	12B	9B	12B	15C	20C	10C	12C	9B	12B	9B	12B	15C	20C	15C	20C	12C	15C	20C	
X / Y / Z (kW)	<b>F</b>	3 / 3 / 4				-	-	-	3 / 3 / 4	3 / 3 / 4	3 / 3 / 4				4 / 4 / 5.5		3 / 4 / 4				
	<b>S</b>	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	-
	<b>M</b>	2.2 / 2.2 / 3	-	-		-	-	2.2 / 2.2 / 3		-	-				-	-	-	-	-	-	-
	<b>T</b>	-	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.



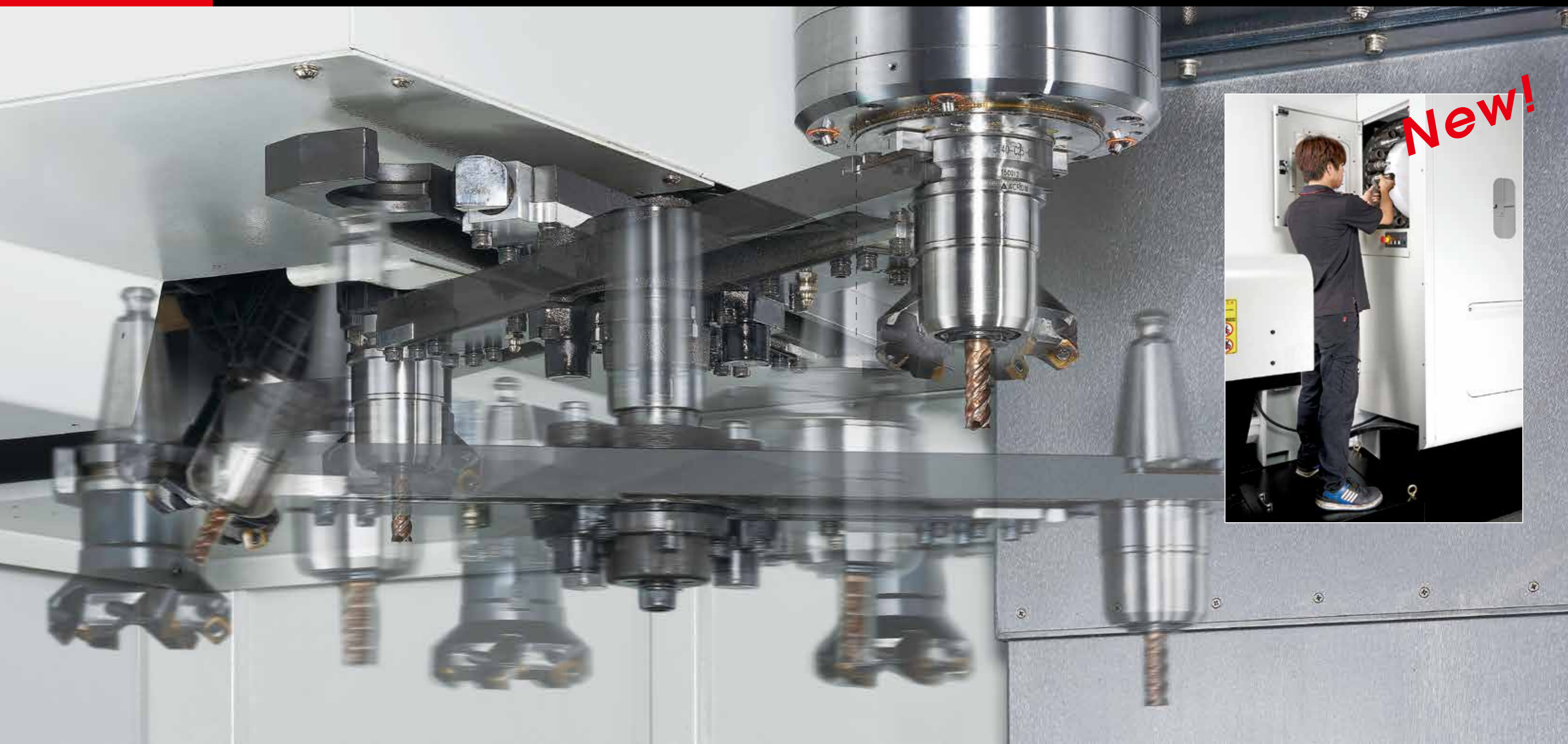
- Standard on all models



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			
<b>FANUC</b>												
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		
<b>HEIDENHAIN</b>												
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	-			
<b>SIEMENS</b>												
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 <sup>(1)</sup>	112 <sup>(1)</sup>	242	182	-	112		132	-			
<b>MITSUBISHI</b>												
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 : <sup>(1)</sup>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
<b>A</b>	Coolant tank	350L			480L				480L
<b>B</b>	Coolant through spindle	-	8 bar		-	8 bar		20 bar	Opt.
<b>C</b>	Nozzle coolant	3 bar			3 bar				
<b>D</b>	Wash gun	Std.			Std.				
<b>E</b>	Chip augers	Std.			Std.				
<b>F</b>	Chip conveyor	Scraper type	Opt.	Std.	Opt.	Std.		Opt.	
<b>G</b>	Filtration unit	-	Opt.		-	Opt.			
<b>H</b>	High-angle telescopic cover design with excellent chip	Std.			-				
<b>I</b>	Wash down	1.1 bar			3 bar				



# Easy operation



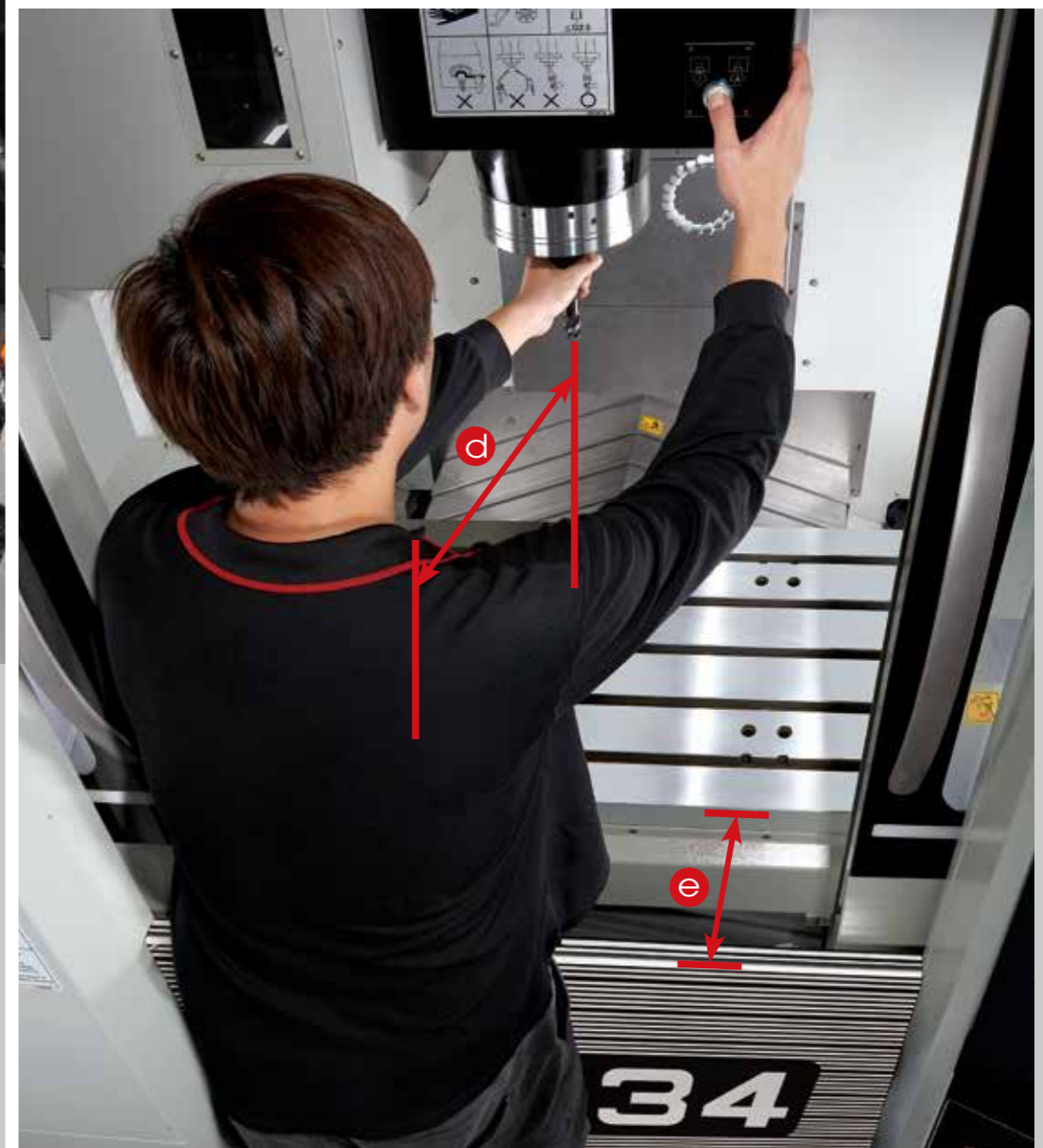
- a** Front door opening at
  - MV134: 730 mm
  - MV154: 821 mm
  - MV184: 1,077 mm

- b** Larger opening for service or exchange to auto door for robot

- c** Ergonomic operation panel with adjustable angle

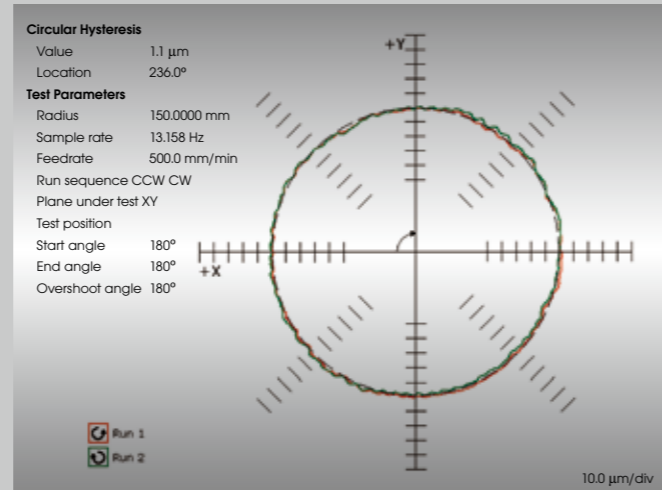
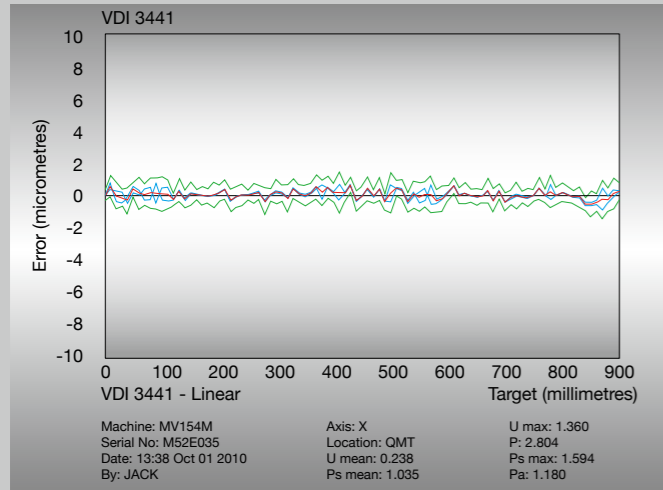
- d** Convenient distance from operator to the spindle
  - MV134: 715 mm
  - MV154: 753 mm
  - MV184: 861 mm

- e** Table to front door with easy accessibility
  - MV134: 154 mm
  - MV154: 168 mm
  - MV184: 255 mm



# Precision accuracy

Positioning accuracy=1.180  $\mu\text{m}$  VDI 3441 Feed rate: 500 mm / min, Value: 1.1  $\mu\text{m}$



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

Results

Text island height

Q = 3.0  $\mu\text{m}$

U = 2.5  $\mu\text{m}$

A = 2.0  $\mu\text{m}$

S = 1.5  $\mu\text{m}$

E = 1.0  $\mu\text{m}$

R = 0.5  $\mu\text{m}$

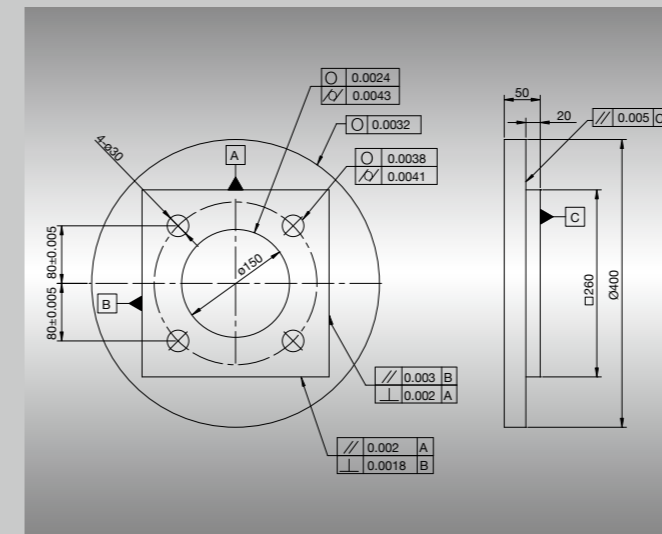


ISO 10791-1 / ISO 10791-4.2	ISO STANDARD	QUASER STANDARD		
		(MV134/C & /E & /P) (MV154/C & /E & /P) (MV184/C & /D & /E & /P)	(MV154M / MV184M)	
Straightness	X	0.015 / Full Stroke	0.010 / Full Stroke	0.005 / <b>0.008</b>
	Y	0.010 / Full Stroke	0.010 / Full Stroke	0.005 / <b>0.005</b>
	Z	0.010 / Full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

Note: \* Ø300 mm, F500

Unit: mm

The measuring results indicated in this catalog are provided as an example by random selection.



## M model

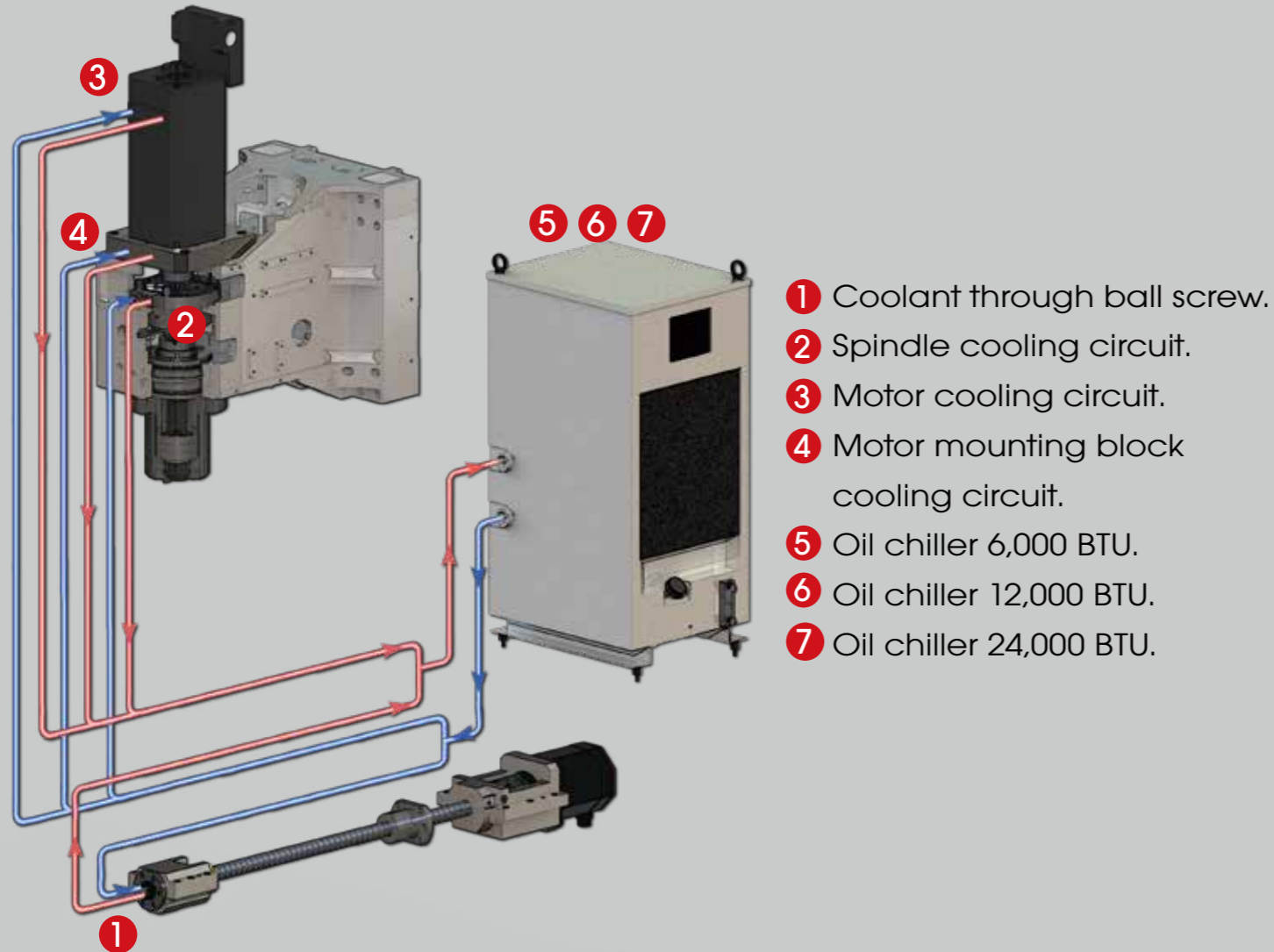
Machining test parts is measured by LEITZ pmmc and each geometric accuracy test result is less than 0.005mm.





# Thermal Management

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



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.



●=Standard ○=Option ×=N/A

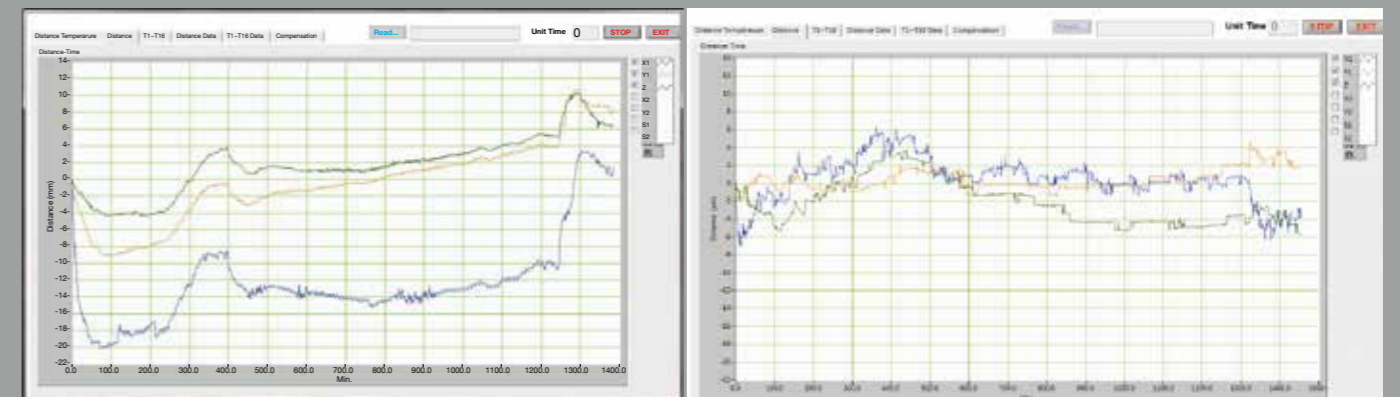
	MV134C	MV134E	MV134P		MV154C/ MV184C		MV154E/ MV184E	MV154P/ MV184P		MV154M/ MV184M	MV184D
	Coupling	Belt	Belt	Coupling	Belt	Coupling	Belt	Belt	Coupling	Coupling	Coupling
1	×	×	○	○	×	×	×	○	○	●	○
2	●	●	●	●	●	●	●	●	●	●	●
3	×	×	×	● Note2	×	×	×	×	● Note2	● Note2	● Note2
4	●	×	×	●	×	●	×	×	●	●	●
5	●	●	●	×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

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

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
<b>Work range</b>				
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		
<b>Feed drive</b>				
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		
<sup>(1)</sup> Acceleration	X / Y / Z (m/s <sup>2</sup> )	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		∅40 / P= 12		
<b>Accuracy Positioning / Repeatability</b>				
ISO 230-2		0.008 / 0.004		
JIS 6338 (300 mm)		±0.003 / ±0.002		
VDI 3441		0.008 / 0.004		
<b>Main spindle</b>				
Spindle Taper		40 Taper		
Max. spindle speed		12,000	9,000	12,000
<b>Tool changer</b>				
Tool selection		Random		
Magazine positions		30 (std.)	30 (std.) 48 / 60 (opt.)	
Max. tool diameter (mm)		∅76.2		
Max. tool dia. Due to neighbor pots are empty		∅150		
Max. tool length (mm)		300		
Max. tool weight (kg)		10		
T to T time-ISO 10791-9 (sec.) <sup>(3)</sup>		1.7		
C to C time-ISO 10791-9 (sec.) <sup>(3)</sup>		4.1		
<b>Coolant system</b>				
Coolant tank capacity (Liter)		350L		
Pump capacity		75L / min., 3 bar		
- Nozzle capacity		75L / min., 3 bar		
- Coolant through spindle		-	25 L / min., 8 bar	
- Wash down		75L / min., 1.1 bar		
<b>Machine size</b>				
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)	
<b>Connections</b>				
Main power		220V or 380V or 400V or 415V / 50Hz or 60Hz		
Power consumption (KVA)		23 (F) 23 (S) 20.6 (M)	23 (F) 24.8 (T)	

Note: <sup>(1)</sup> Test condition: values are measured by half of the maximum table load capacity. <sup>(2)</sup> Only for FANUC control. <sup>(3)</sup> At 60Hz.

- 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 <sup>(2)</sup>	
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)
∅40 / P= 16				
0.008 / 0.004				
±0.003 / ±0.002				
0.008 / 0.004				
40 Taper				
9,000	12,000	15,000	20,000	
Random				
30 (std.) 48 / 60 (opt.)				
∅76.2				
∅150				
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 or 380V or 400V or 415V / 50Hz or 60Hz				
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

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

Technical data		MV154 / MV184			
		C		E	
Spindle code		10C	12C	9B	12B
<b>Work range</b>					
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			
<b>Feed drive</b>					
Feed force X / Y / Z (N)	F	-	6,283 / 6,283 / 11,519	4,712 / 4,712 / 11,519	
	T	-	-	6,807 / 6,807 / 9,268	
	M	6,283 / 6,283 / 11,781		-	
	S	-	4,712 / 4,712 / 10,472	-	
Rapid movement X / Y / Z (m/min)		32 / 32 / 24 (F) (M) (S)		40 / 40 / 36 (F) 32 / 32 / 24 (T)	
<sup>(1)</sup> Acceleration X / Y / Z (m/s <sup>2</sup> )	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 / 12 (M) Ø45 / P = 16 / 16 / 12 (S)		Ø45 / P = 16 / 16 / 12 (F) Ø45 / P = 12 / 12 / 12 (T)	
<b>Accuracy Positioning / Repeatability</b>					
ISO 230-2		0.008 / 0.004			
JIS 6338 (300 mm)		±0.003 / ±0.002			
VDI 3441		0.008 / 0.004			
<b>Main spindle</b>					
Spindle model		40 Taper			
Max. spindle speed		10,000	12,000	9,000	12,000
<b>Tool changer</b>					
Tool selection		Random			
Magazine positions		30	30 (std.) 48 & 60 (opt.)		
Max. tool diameter (mm)		76.2			
w/o adjacent tool (mm)		125			
Max. tool length (mm)		280			
Max. tool weight (kg)		7			
CTC time -ISO 10791-9 (sec.) <sup>(3)</sup>		4.2 (F) 4 (M) 4.7 (S)		4 (F) 4.2 (T)	
<b>Coolant system</b>					
Coolant tank capacity (Liter)		480L			
Pump capacity		75 L / min., 3 bar			
- Nozzle coolant		75 L / min., 3 bar			
- Coolant through spindle		-	25 L / min., 8 bar		
- Wash down		75 L / min., 3 bar			
<b>Machine size</b>					
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	
<b>Connections</b>					
Main power		220V or 380V or 400V or 415V / 50Hz or 60Hz			
Power consumption (KVA)		20 (M)	16 (F) 20 (M) 29 (S)	20 (F) 21 (T)	

Note: <sup>(1)</sup> Test condition: values are measured by half of the maximum table load capacity. <sup>(2)</sup> Only for FANUC control. <sup>(3)</sup> At 60Hz.

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

MV154 / MV184						MV184		
P			M			D		
9B	12B	15C	20C <sup>(2)</sup>	15C	20C <sup>(2)</sup>	12C	15C	20C <sup>(2)</sup>
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			11,519 / 11,519 / 15,708			11,519 / 11,519 / 11,519		
6,951 / 6,951 / 11,310		6,951 / 6,951 / 13,666		11,310 / 13,666 / 13,666		-		
-						-		
4,712 / 4,712 / 14,137			-			-	8,378 / 10,472 / 14,137	-
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 = 12 / 12 / 12			Ø45 / P = 12 / 12 / 12		
0.008 / 0.004						0.008 / 0.004		
±0.003 / ±0.002						±0.003 / ±0.002		
0.008 / 0.004						0.008 / 0.004		
40 Taper						40 Taper		
9,000	12,000	15,000	20,000	15,000	20,000	12,000	15,000	20,000
Random						Random		
30 (std.) 48 & 60 (opt.)						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						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		
2,860		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		
220V or 380V or 400V or 415V / 50Hz or 60Hz						220V or 380V or 400V or 415V / 50Hz or 60Hz		
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					
	12C	9B	12B	9B	12B	15C	20C	10C	12C	9B	12B	9B	12B	15C	20C	15C	20C	12C	15C	20C
Spindle code	●	○	●	×	×	×	×	×	●	○	●	×	×	×	×	×	×	●	○	○
■ QUASER mill 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 311B <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 <sup>(5)</sup>	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
■ 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 <sup>th</sup> axis preparation	×	●	●	●	●	●	●	×	×	●	●	●	●	●	●	●	●	×	×	×
■ Ø255mm rotary table & tail stock	×	○	○	○	○	○	○	×	×	○	○	○	○	○	○	○	○	×	×	×
■ Remote MPG <sup>(1)</sup>	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
■ Transformer <sup>(2)</sup>	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
■ 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 (USB) <sup>(3)</sup>	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
■ Total Enclosure Guard (with Top side cover)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
■ Foundation bolts & blocks	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
■ Work light	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
■ Machine status light	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
■ CE & EMC <sup>(4)</sup> / GB	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

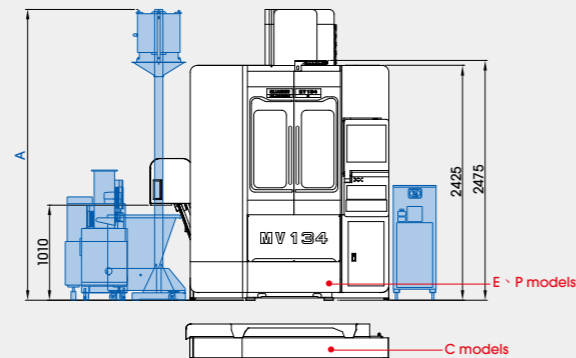
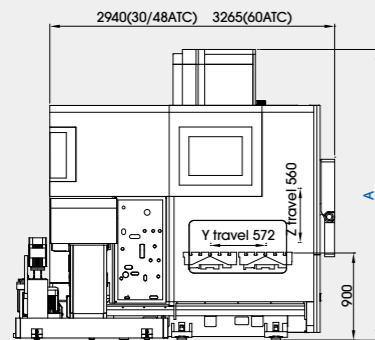
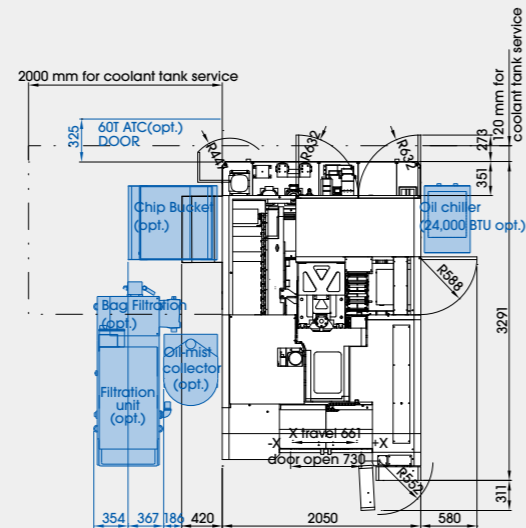
Note: <sup>(1)</sup> HEIDENHAIN as standard. <sup>(2)</sup> Transformer as standard or option item will be varied according to control system and power supply condition. <sup>(3)</sup> Paper documentation is option. <sup>(4)</sup> Standard for EU area except C type. <sup>(5)</sup> Only for MV184 coupling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

# Machine Dimensions

## MV134

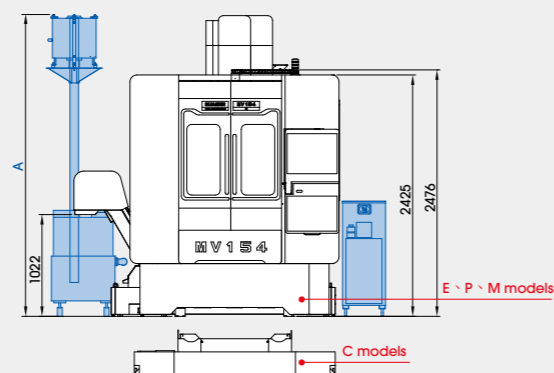
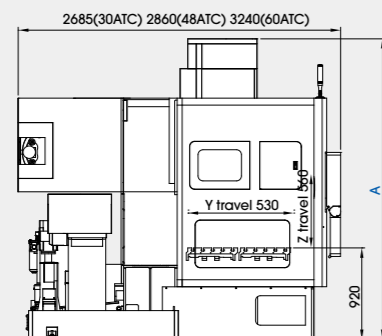
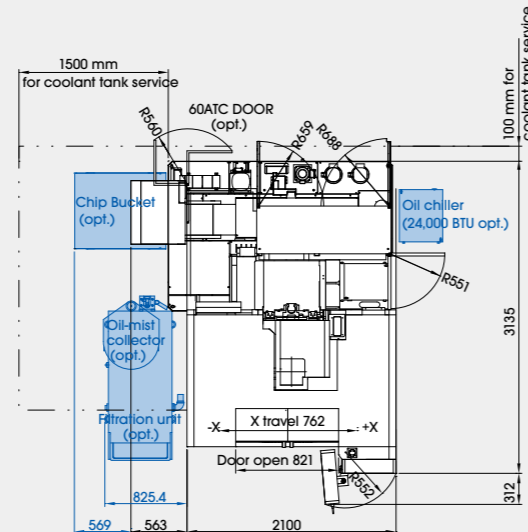
### Installation dimension

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



## MV154

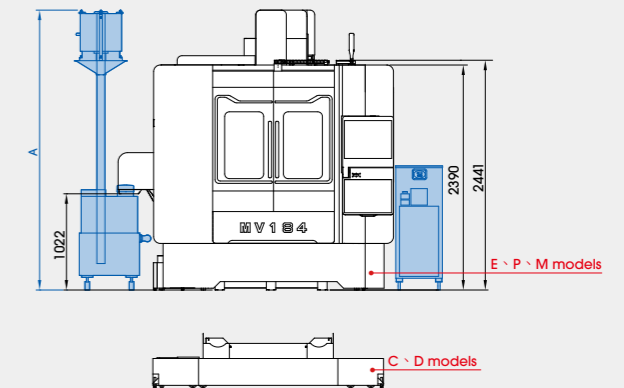
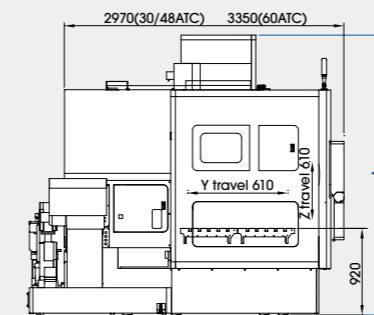
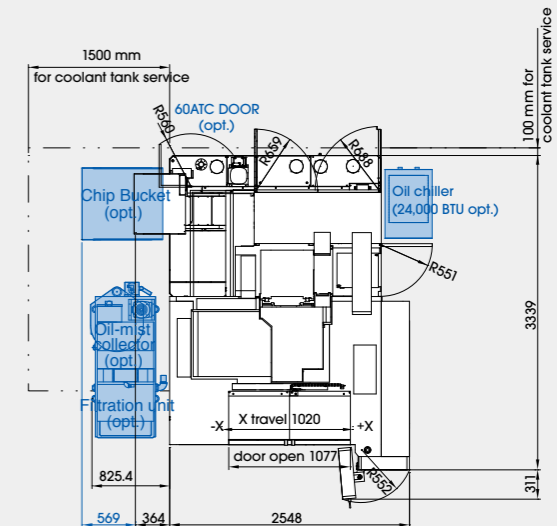
A	10C/12C/15C/20C	3,025
	9B / 12B	2,860



## MV184

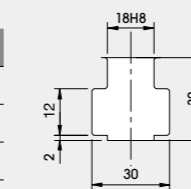
### Installation dimension

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

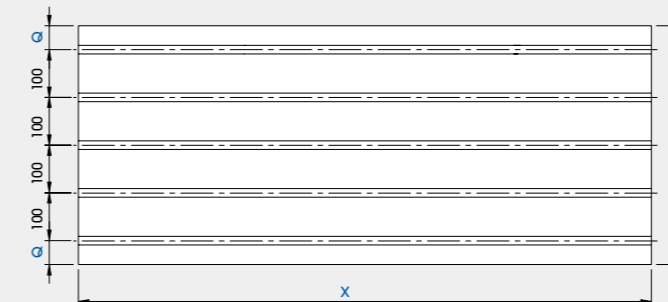
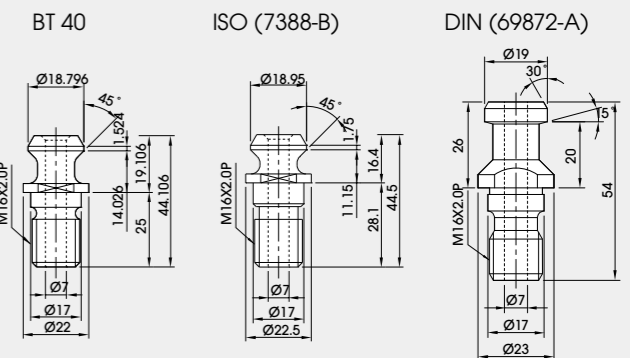


### Table dimension

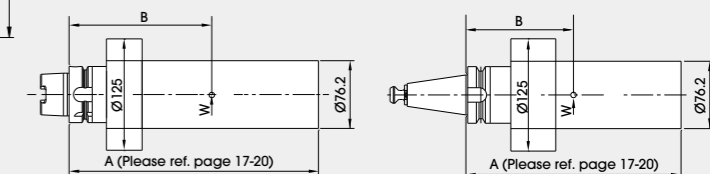
	MV134	MV154	MV184
X	940	900	1200
Y	550	500	600
Q	75	50	100



### Pull stud and applicable tools



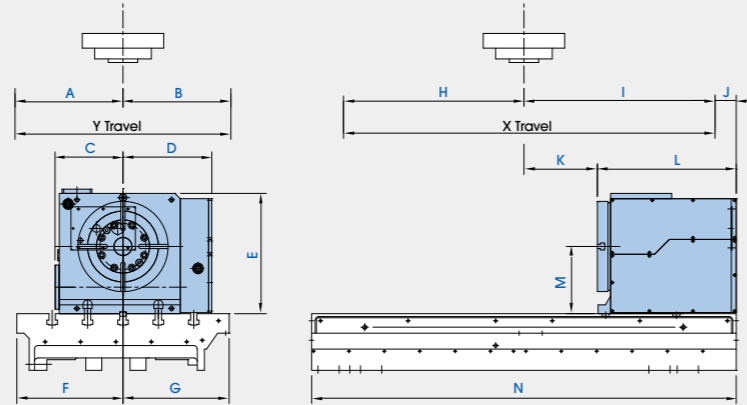
B tool median point distance  
 W tool weight  
 $MOMENT=W \cdot B (\leq 10.29N \cdot m)$   $MOMENT=W \cdot B (\leq 9.85N \cdot m)$



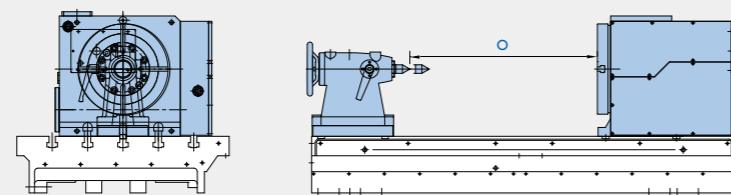
- Very classic craftsmanship combined with the most advanced modern equipment in a clean environment...

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

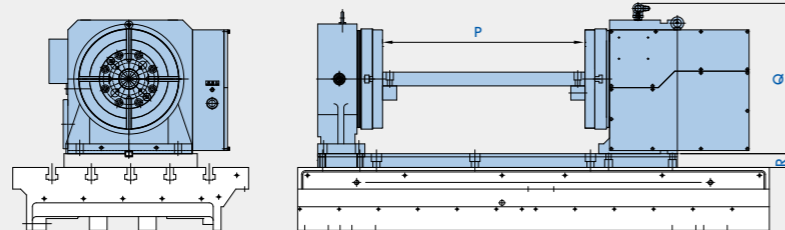
GV255HB



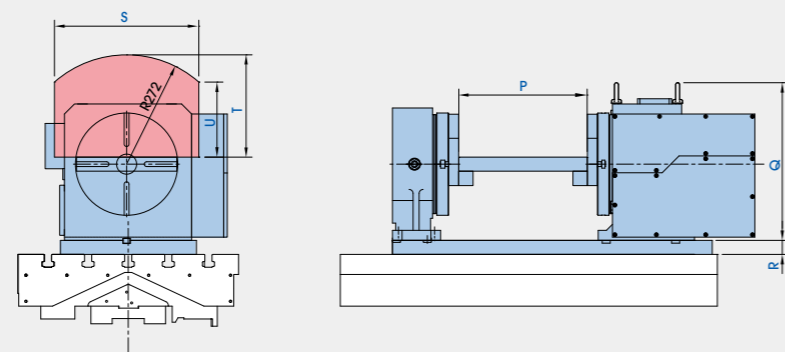
GV255HB+ST255



GV255HB+Fixture 2 (MV154/MV184)



GV255HB+Fixture2 (MV134)



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