





# MAM72 Series Machine Specifications

**Matsuura**

5-Axis Machining Center

# MAM72 Series

		<b>MAM72-35V</b>		<b>MAM72-52V</b>	
					
Travel (X/Y/Z)	mm (in.)	550 / 440 / 580 (21.65 / 17.32 / 22.83)		1,010 / 540 / 610 (39.76 / 21.25 / 24.01)	
Travel	deg	-125 ~ +65 / 360 (B/C)		-125 ~ +30 / 360 (B/C)	
Working Surface	mm (in.)	ø130 (ø5.12)		ø400 (ø15.74)	
Max. Work Size	mm (in.)	ø350 x H315 (ø13.77 x H12.40)		ø520 x H400 (ø20.47 x H15.74)	
Loading Capacity	kg (lb.)	60 (132)		300 (660)	
Spindle Speed	min <sup>-1</sup>	12,000 : BT40 15,000 / 20,000 : BT40		15,000 : BT40 12,000 / 20,000 : BT40	
		Standard Option		Standard Option	
Rapid Traverse (X/Y/Z)	m/min (ipm.)	60 / 60 / 60 (2,362.2 / 2,362.2 / 2,362.2)		60 / 60 / 60 (2,362.2 / 2,362.2 / 2,362.2)	
Rapid Traverse	min <sup>-1</sup>	50 / 100 (B/C)		50 / 100 (B/C)	
Number of Tools	—	60 : BT40 130 / 170 / 210 / 250 / 290 / 330 : BT40 370 / 410 / 450 / 490 / 530 : BT40		130 : BT40 170 / 210 / 250 / 290 / 330 : BT40 370 / 410 / 450 / 490 / 530 : BT40	
		Standard Option		Standard Option	
Number of Pallets	—	2 32 / 40 / 49 / 60 : Tower Pallet System (1 Work Station) 38 / 47 : Tower Pallet System (Twin Work Stations)		15 : Tower Pallet System 1	
		Standard Option		Standard Option	
NC System	—	Matsuura G-Tech 31i		Matsuura G-Tech 31i	

		<b>MAM72-70V</b>		<b>MAM72-100H</b>	
					
Travel (X/Y/Z)	mm (in.)	1,200 / 720 / 710 (47.24 / 28.34 / 27.95)		1,050 / 920 / 960 (41.33 / 36.22 / 37.79)	
Travel	deg	-125 ~ +30 / 360 (B/C)		-120 ~ +30 / 360 (A/B)	
Working Surface	mm (in.)	500 x 500 (19.69 x 19.69)		630 x 630 (24.80 x 24.80)	
Max. Work Size	mm (in.)	ø700 x H500 (ø27.56 x H19.68)		ø1,020 x H770 (ø40.15 x H30.31) <small>with restrictions</small>	
Loading Capacity	kg (lb.)	500 (1,100)		780 (1,719)	
Spindle Speed	min <sup>-1</sup>	15,000 : BT40 15,000 Torque Up : BT40 20,000 : BT40		12,000 : BT50 10,000 : BT50 15,000 : BT50	
		Standard Option		Standard Option	
Rapid Traverse (X/Y/Z)	m/min (ipm.)	60 / 60 / 60 (2,362.2 / 2,362.2 / 2,362.2)		60 / 60 / 50 (2,362.2 / 2,362.2 / 1,968.5)	
Rapid Traverse	min <sup>-1</sup>	50 / 100 (B/C)		50 / 75 (A/B)	
Number of Tools	—	90 : BT40 130 / 170 / 210 / 250 / 290 / 330 : BT40 370 / 410 / 450 / 490 / 530 : BT40		60 : BT50 120 : BT50 114 / 144 / 174 / 209 : BT50 120 / 150 / 180 / 210 / 245 : BT50	
		Standard Option		Standard Option	
Number of Pallets	—	2 6 : Floor Pallet System 18 : Tower Pallet System		2 6 : Floor Pallet System	
		Standard Option		Standard Option	
NC System	—	Matsuura G-Tech 31i		Matsuura G-Tech 31i	



**MAM72-35V**



**MAM72-52V**



**MAM72-70V**



**MAM72-100H**



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Product specifications and dimensions are subject to change without prior notice. This product is subject to all applicable export control laws and regulations

MAM72-Series E3.0 202207 2000 S

**MAXIA**  
 Innovation by Matsuura



# 5-Axis + Multi-Pallet / Variable part, volume production for extended unmanned production

## MAM72 Series - Representative of 5-Axis control Machining Centers

Tailored options from one offs to low volume to full lights out unmanned running

**ATC**

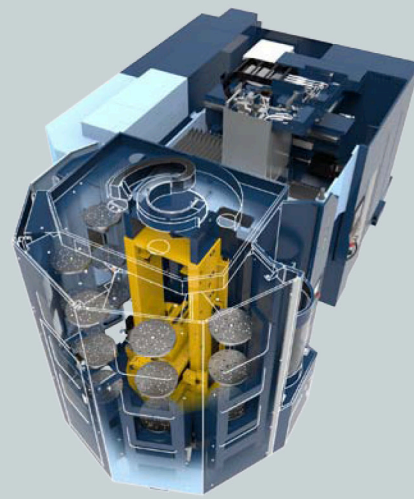
Matrix Magazine  
Sufficient tool storage capacity to support a wide variety of machining applications in a small footprint

**APC**

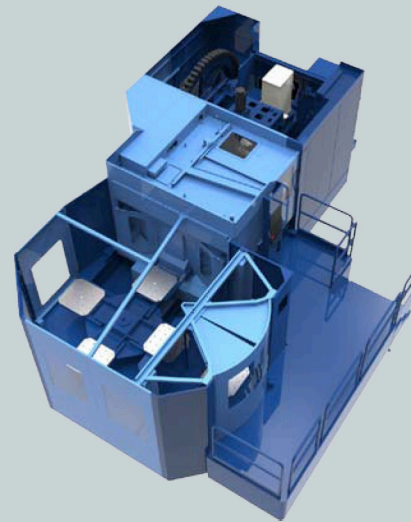
Multi-pallet systems to provide flexibility for variable-part variable-volume production



330 tool Matrix Magazine



Tower Pallet System  
(MAM72-52V)



Floor Pallet System  
(MAM72-100H)

### Schedule Operation Details

- Schedule operation** | Machining from a pallet with a smaller schedule number
- "Interruption" pallet setting** | Giving top priority to urgent parts and interrupting in the preset schedule
- "Hold" pallet setting** | Setting up pallets during the daytime for unmanned machining at night time
- Continuous operation** | Machining. Specified pallets continuously
- "End" pallet setting** | Finishing the schedule operation when the machining on an "end" pallet is completed



Pallet Management Screen

**Extended unmanned operation example**

### Continuous operation using a multi-pallet system and the scheduling function

	<b>Flexible production</b> Daytime	<b>High-volume production</b> Night time
Operation	Manual operation by operators	Unmanned automatic operation by program
Workpiece type	<ul style="list-style-type: none"> <li>High-mix low volume production, high-value added parts</li> <li>One-off parts</li> </ul>	<ul style="list-style-type: none"> <li>Low-mix high volume production, priority on costs</li> <li>Volume production parts</li> </ul>
Workpiece value	<b>High</b>	Low
Production volume per lot	Low	<b>High</b>

5-Axis Vertical Machining Center

### MAM72-35V **PC32**



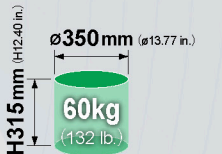
- 4th-/5th-axis table of dedicated design (DD Motor) Achieving high speed, high precision and high rigidity

Feedrate : B axis (tilting axis) 50min<sup>-1</sup>, C axis (rotating axis) 100min<sup>-1</sup>

- Excellent accessibility to the machining area enables smooth working

Reducing the load on the operator during setup work

450mm (17.71 in.) from the operator position to the pallet center & 280mm (11.02 in.) to the spindle center



5-Axis Vertical Machining Center

### MAM72-52V **PC15**



- 4th-/5th-axis table of dedicated design (DD Motor) Achieving high speed, high precision and high rigidity

Feedrate : B axis (tilting axis) 50min<sup>-1</sup>, C axis (rotating axis) 100min<sup>-1</sup>

- Excellent accessibility to the machining area enables smooth working

Reducing the load on the operator during setup work

564mm (22.20 in.) from the operator position to the pallet center & 134mm (5.27 in.) to the spindle center



5-Axis Vertical Machining Center

### MAM72-70V **PC2**



- 4th-/5th-axis table of dedicated design Achieving high speed, high precision and high rigidity

Feedrate : B axis (tilting axis) 50min<sup>-1</sup>, C axis (rotating axis) 100min<sup>-1</sup>

- Excellent accessibility to the machining area enables smooth working

Reducing the load on the operator during setup work

620mm (24.40 in.) from the operator position to the pallet center & 90mm (3.54 in.) to the spindle center



5-Axis Horizontal Machining Center

### MAM72-100H



- 4th-/5th-axis table of dedicated design (DD Motor) Achieving high speed, high precision and high rigidity

Feedrate : A axis (tilting axis) 50min<sup>-1</sup>, B axis (rotating axis) 75min<sup>-1</sup>

- For Large, complicated 3D Work & 'Hard-to-Cut' Materials

