

MAM72 Series Machine Specifications

		MAM72-35V	MAM72-42V	MAM72-52V
		 New!	 New!	
Travel (X/Y/Z)	mm (in.)	550 / 440 / 580 (21.65 / 17.32 / 22.83)	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 ~ +65 / 360 (B/C)	-125 ~ +30 / 360 (B/C)
Working Surface	mm (in.)	ø130 (ø5.12)	ø130 (ø5.12)	ø400 (ø15.74)
Max. Work Size	mm (in.)	ø350 x H315 (ø13.77 x H12.40)	ø420 x H315 (ø16.54 x H12.40)	ø520 x H400 (ø20.47 x H15.74)
Loading Capacity	kg (lb.)	60 (132)	80 (176)	300 (660)
Spindle Speed	min ⁻¹	12,000 : BT40 15,000 / 20,000 : BT40 Standard Option	12,000 : BT40 15,000 / 20,000 : BT40 Standard Option	15,000 : BT40 12,000 / 20,000 : BT40 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)	60 / 60 / 60 (2,362.2 / 2,362.2 / 2,362.2)
Rapid Traverse	min ⁻¹	50 / 100 (B/C)	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 Standard Option	130 : BT40 170 / 210 / 250 / 290 / 330 : BT40 370 / 410 / 450 / 490 / 530 : BT40 Standard Option	130 : BT40 170 / 210 / 250 / 290 / 330 : BT40 370 / 410 / 450 / 490 / 530 : BT40 Standard Option
Number of Pallets	—	2 32 / 40 : Tower Pallet System (1 Work Station) Standard Option	32 : Tower Pallet System Standard	15 : Tower Pallet System 1 Standard Option
NC System	—	Matsuura G-Tech 31i	Matsuura G-Tech 31i	Matsuura G-Tech 31i

		MAM72-70V	MAM72-100H
			
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) with restrictions
Loading Capacity	kg (lb.)	500 (1,100)	780 (1,719)
Spindle Speed	min ⁻¹	15,000 : BT40 15,000 トルク Up : BT40 20,000 : BT40 Standard Option	12,000 : BT50 10,000 : BT50 15,000 : BT50 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 ⁻¹	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 Standard Option	60 : BT50 120 : BT50 114 / 144 / 174 / 209 : BT50 120 / 150 / 180 / 210 / 245 : BT50 Standard Option
Number of Pallets	—	2 6 : Floor Pallet System 18 : Tower Pallet System Standard Option	2 6 : Floor Pallet System Standard Option
NC System	—	Matsuura G-Tech 31i	Matsuura G-Tech 31i



MATSUURA MACHINERY CORPORATION 4-201 Higashimorida, Fukui-city 910-8530 Japan
TEL : +81-776-56-8106 FAX : +81-776-56-8151 URL : <https://www.matsuura.co.jp> E-MAIL : webmaster@matsuura.co.jp
MATSUURA EUROPE GMBH Berta-Cramer-Ring 21 D-65205 Wiesbaden-Delkenheim, Germany
TEL : +49-6122-7803-80 FAX : +49-6122-7803-33 URL : <https://www.matsuura.de/> E-MAIL : info@matsuura.de
MATSUURA MACHINERY LTD. Gee Road, Whitwick Business Park, Coalville Leicestershire LE67 4NH, England
TEL : +44-1530-511-400 FAX : +44-1530-511-440 URL : <https://www.matsuura.co.uk/> E-MAIL : sales@matsuura.co.uk
ELLIOTT MATSUURA CANADA INC. 2120 Buckingham Road Oakville Ontario L6H 5X2, Canada
TEL : +1-905-829-2211 FAX : +1-905-829-5600 URL : <https://www.elliottmachinery.com/> E-MAIL : sales@elliottmachinery.com
MATSUURA MACHINERY USA INC. 325 Randolph Ave., St.Paul, MN 55102, U.S.A.
TEL : +1-651-289-9700 URL : <https://www.matsuurausa.com/> E-MAIL : info@matsuurausa.com

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 E4.0 202210 2000 S



5-Axis Machining Center

MAM72 Series



MAM72-35V



MAM72-42V



MAM72-52V



MAM72-70V



MAM72-100H



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

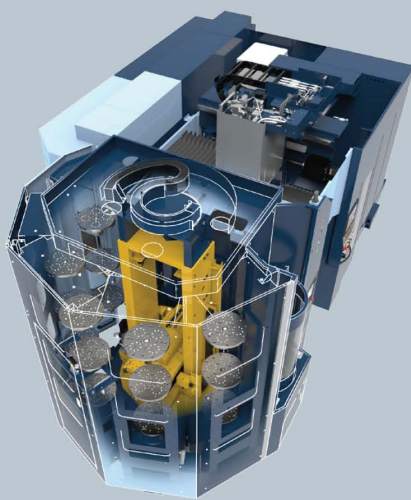
Matrix Magazine
Sufficient tool storage capacity to support a wide variety of machining applications in a small footprint

APC

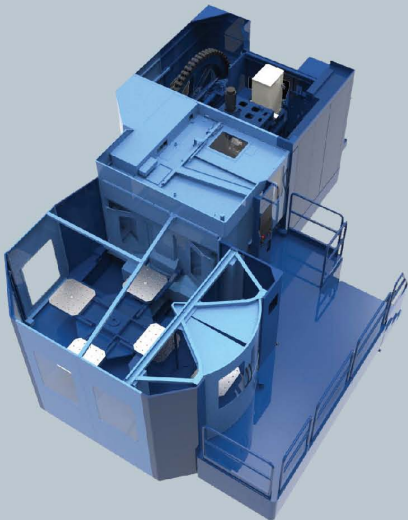
Multi-pallet systems to provide flexibility for variable-part variable-volume production



330 tool Matrix Magazine



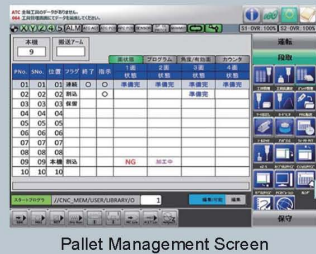
Tower Pallet System
(MAM72-52V)



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

	Flexible production Daytime	High-volume production Night time
Operation	Manual operation by operators	Unmanned automatic operation by program
Workpiece type	• High-mix low volume production, high-value added parts • One-off parts	• Low-mix high volume production, priority on costs • Volume production parts
Workpiece value	High	Low
Production volume per lot	Low	High

5-Axis Vertical Machining Center

MAM72-35V PC32

New!



- 4th-/5th-axis table of dedicated design (DD Motor) Achieving high speed, high precision and high rigidity
Feederate : **B axis** (tilting axis) **50min⁻¹**, **C axis** (rotating axis) **100min⁻¹**
- 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

ø350mm
(ø13.77 in.)
60kg
(132 lb.)



5-Axis Vertical Machining Center

MAM72-42V PC32

New!



- 4th-/5th-axis table of dedicated design (DD Motor) Achieving high speed, high precision and high rigidity
Feederate : **B axis** (tilting axis) **50min⁻¹**, **C axis** (rotating axis) **100min⁻¹**
- 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

ø420mm
(ø16.54 in.)
80kg
(176 lb.)



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
Feederate : **B axis** (tilting axis) **50min⁻¹**, **C axis** (rotating axis) **100min⁻¹**
- 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

ø520mm
(ø20.47 in.)
300kg
(660 lb.)



5-Axis Vertical Machining Center

MAM72-70V PC18



- 4th-/5th-axis table of dedicated design Achieving high speed, high precision and high rigidity
Feederate : **B axis** (tilting axis) **50min⁻¹**, **C axis** (rotating axis) **100min⁻¹**
- 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

ø700mm
(ø27.56 in.)
500kg
(1,100 lb.)



5-Axis Horizontal Machining Center

MAM72-100H



- 4th-/5th-axis table of dedicated design (DD Motor) Achieving high speed, high precision and high rigidity
Feederate : **A axis** (tilting axis) **50min⁻¹**, **B axis** (rotating axis) **75min⁻¹**
- For Large, complicated 3D Work & 'Hard-to-Cut' Materials

ø1,020mm
(ø40.15 in.)
780kg
(1,719 lb.)

