MAM72-100H

5-Axis Horizontal Machining Center

Products are subject to all applicable export control laws and regulations.
Introducing the **MAM72-100H**

Our Largest Capacity

5 Axis Machine Ever

**Robust, Stable & Highly Rigid Design**

Utilizing FEM Analysis and Matsuura’s prestigious engineering experience, the **MAM72-100H** is a highly rigid and stable machining platform – for any application cutting any material.
Achieves Reduced Setup & Cycle Times & a Faster Return on Investment

Matsuura’s Unique DD Technology

Vast Machining Enclosure – Effective & Proven Swarf Management

<table>
<thead>
<tr>
<th>Movement and Ranges</th>
<th>Max. Work Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>X-Axis Travel (mm (in.))</td>
<td>Ø1,000 × H770 (Ø39.37 × H30.31) (with restrictions)</td>
</tr>
<tr>
<td>Y-Axis Travel (mm (in.))</td>
<td>780 (1,719)</td>
</tr>
<tr>
<td>Z-Axis Travel (mm (in.))</td>
<td></td>
</tr>
<tr>
<td>A-Axis Travel (deg)</td>
<td></td>
</tr>
<tr>
<td>B-Axis Travel (deg)</td>
<td></td>
</tr>
</tbody>
</table>

Max. Work Size

<table>
<thead>
<tr>
<th>Max. Work Size (mm (in.))</th>
<th>Loading Capacity (kg (lb.))</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ø1,000 × H770 (Ø39.37 × H30.31) (with restrictions)</td>
<td>780 (1,719)</td>
</tr>
</tbody>
</table>
Unmanned Operation on the **MAM72-100H**
Achieves Reduced Setup & Cycle Times & a Faster

**Multi Pallet Systems**
- APC option line-up for continuous unmanned production.

**Drum Magazine**
- The automatic tool changer is equipped with a Matsuura designed & proven drum-type tool magazine driven by a servomotor for short tool indexing time, low noise and low vibration.

**800 Square Pallet**
- Loading Capacity is 640Kg (Standard 780Kg) and Maximum Work Size is same as Standard.

**Drum Magazine**
- 60 tools with fixed address system

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- Max. tool size (units: mm (in.))
- Max. tool Mass 20kg (44lb.)

※ 1 No adjacent tool (Store position is limited)
※ 2 No adjacent tool (Store position is limited)
When Ø320 (Ø12.59) tools are set next to each other, there should be 2 empty pots in between.
The **MAM72-100H** comes equipped with a twin pallet changer PC2 & 60 tools as standard. Optional large capacity Multi Pallet Systems & Matrix Magazines dramatically increase cost effective unmanned operation & lights out production.

**Return on Investment**

**Matrix Magazine**
- Established & proven in all environments on Matsuura products – the Matrix Magazine ATC option can hold from 150 to 360 tools - ample storage for long periods of unmanned lights out production. A chain type ATC is also available with 120 tool places.
- The magazine ceiling guard and the ATC double shutter are provided to prevent coolant from entering the Matrix Magazine. This maintains a much cleaner tool storage environment, especially reducing the amount of coolant grime build up on the tool shanks and drastically improving ATC reliability.

<table>
<thead>
<tr>
<th>Matrix Magazine</th>
<th>Option</th>
</tr>
</thead>
<tbody>
<tr>
<td>240-tool base</td>
<td>360-tool base</td>
</tr>
<tr>
<td>150 tools</td>
<td>270 tools</td>
</tr>
<tr>
<td>180 tools</td>
<td>300 tools</td>
</tr>
<tr>
<td>210 tools</td>
<td>330 tools</td>
</tr>
<tr>
<td>240 tools</td>
<td>360 tools</td>
</tr>
</tbody>
</table>

**Max. tool size** (units: mm (in.))

- Max. tool Mass 20Kg (44lb.)

※ 1 No adjacent tool (Store position is limited)
※ 2 No adjacent tool (Store position is limited)
When Ø320 (Ø12.59) tools are set next to each other, there should be 2 empty pots in between.

**Chain Magazine**

<table>
<thead>
<tr>
<th>Chain Magazine</th>
<th>Option</th>
</tr>
</thead>
<tbody>
<tr>
<td>120 tools</td>
<td></td>
</tr>
</tbody>
</table>

**A new larger 10 inch screen has been added to the ATC – allowing effortless data control of all aspects of ATC management & functionality.**
High Speed Rotation & High Accuracy Positioning : Matsuura’ s Unique DD Technology

Ultra Robust DD Motor

Designed in house by Matsuura, the DD A/B-Axis Motor achieves high positional accuracy during Milling & high speed rotation whilst Turning.

A-axis DD motor

B-axis DD motor

High speed, high precision A / B Axis – powered by Direct Drives

The A-/ B-axis table configured with state of the art direct drive motors operate at a maximum feedrate of 50 min\(^{-1}\) (A-axis: tilting axis) or 75 min\(^{-1}\) (B-axis: rotating axis), ensuring high speed and high precision.

**Effects of DD motors**

<table>
<thead>
<tr>
<th>Faster acceleration</th>
<th>A</th>
<th>50min(^{-1})</th>
</tr>
</thead>
<tbody>
<tr>
<td>Faster traverse &amp; cutting speeds</td>
<td>B</td>
<td>75min(^{-1})</td>
</tr>
<tr>
<td>Zero parts wear</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sustained long term accuracy</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
The Matsuura Hi-Tech Spindle
: Designed & Built In-House

Matsuura Hi-Tech Spindle
The Matsuura Hi-Tech Spindle delivers effortless power & unerring accuracy with any application and any material. Matsuura's pioneering heritage with high speed & high torque spindles guarantees reliability & longevity of service.

Cutting Performance [BT50 10,000min⁻¹]

<table>
<thead>
<tr>
<th>FACE MILL</th>
<th>Spindle &amp; Feed rate</th>
<th>Quantity</th>
<th>Spindle &amp; Feed rate</th>
<th>Spindle &amp; Feed rate</th>
<th>Quantity</th>
<th>Spindle &amp; Feed rate</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>A5052</td>
<td>Ø100m (3.94) 4th cable</td>
<td>V=+45m (1.77) D=+5m (2.0)</td>
<td>5,500 min⁻¹</td>
<td>9.000m/min (354.3)</td>
<td>6060 cc/min 136% DRILL A5052</td>
<td>Ø52m (2.06) cable</td>
<td>V=+55m (2.18) D=+5m (2.0)</td>
</tr>
<tr>
<td>S50C</td>
<td>Ø100m (3.94) 4th cable</td>
<td>V=+10m (3.94) D=+1m (0.39)</td>
<td>300 min⁻¹</td>
<td>800m/min (31.5)</td>
<td>560 cc/min 104%</td>
<td>S50C</td>
<td>Ø52m (2.06) cable</td>
</tr>
<tr>
<td>END MILL</td>
<td>Ø25m (0.98) 2nd cable</td>
<td>V=-35m (1.38) D=+1m (0.39)</td>
<td>10,000 min⁻¹</td>
<td>6000m/min (236.2)</td>
<td>720 cc/min 135% TAP A5052</td>
<td>M42×4.5 HSS</td>
<td>120 min⁻¹</td>
</tr>
<tr>
<td>S50C</td>
<td>Ø25m (0.98) 2nd cable</td>
<td>V=-35m (1.38) D=+1m (0.39)</td>
<td>5000 min⁻¹</td>
<td>6000m/min (236.2)</td>
<td>720 cc/min 135%</td>
<td>S50C</td>
<td>M42×4.5 HSS</td>
</tr>
</tbody>
</table>

※ These are resulting data. In some cases, the catalogue data may not be obtained, depending on difference in the conditions.

Assembled in a Clean Room Environment
Matsuura’s Spindle Engineers work in a dedicated Clean Room complex to assure the highest standards of build quality & reliability. Our ultra precision spindles are guaranteed to have a runout of less than 1 µm (0.000039 in.) - this is an actual measured value at the spindle nose.

※ These are resulting figures, and not guaranteed figures.
Vast Machining Enclosure
- Effective & Proven Swarf Management

X-Type APC Door
Featured only on Matsuura products, our X-Type APC door design removes all opportunity for swarf to build up & become trapped, eventually causing machine downtime.

W-Type Slide Cover
By integrating steep angled steel Z-Axis covers, swarf is efficiently directed into 2 gutters, where standard spiral chip conveyors rapidly transport waste material out of the enclosure.
Matsuura’s own & patented Flip Up Arm APC configuration shortens the machine length considerably & significantly reduces the overall machine footprint.

**Mist Separator Unit**

By having a mist separator in place, you can keep your shop area clean and comfortable and avoid any negative health impact on machine operators.

**Lift-Up Chip Conveyors**

- **Scraper Type**
  - Drum Filter
  - Oily Coolant Applicable (less than 10 cSt)

- **Hinge + Scraper Type**
  - Drum Filter
  - Only Water Solution
  - Coolant Applicable

**Thermal Meister™**

Thermal Meister™ monitors the temperature of the spindle and the X, Y and Z axes and supplies a constant feed of compensation values to the NC to maintain assured accuracy.

**Spiral Chip Conveyor**

To accommodate high volumes of metal removal of all types, a wide variety of swarf management system designs are available.
The Latest High Performance NC System

- High speed CPU and FSSB, internal CNC bus, optical fiber cables used for high speed data transfer.
- Nanometer resolution.
- 10.4 inch color LCD, Compact Flash Port, PC file management structure.
Automatically Controlled Toolpath/ Tool Speed

**Tool Center Point Control (TCPC)**
Tool center point moves according to the program command with table tilt/rotation.

**Easy Programming (3+2-Axis)**
Tilted working plane command which takes over necessary calculations for coordinate values including necessary axes motions. When rotary axes are moved, rather complex calculations, in the with machine axes configuration, should be made for re-calculating and establishing suitable work coordinate system for the new surface & its orientation.

Optimized Functions for High Speed Machining

**Machining for General Parts or Mold & Die**
IZ-1/15F

**Machining for more Complex, Precision Parts**
IZ-1/30NF, IZ-2/150NF (Look Ahead Linear Acc./Dec.+nano interpolation)

Executing the maximum 200 (IZ-1/30NF) or 600* (IZ-2/150NF) block look ahead linear acc./dec. before interpolation achieves a smooth acc./dec. across the multiple blocks calculated by nano order.

*max. 1,000 block available as option.

High-Speed Precision Machining

**Program Support Function**
IPC / AD-TAP

IPC (Adjustment Function for High Speed/Accuracy Machining)
For high speed cutting applications, Matsuura’s proven and pioneering software is recommended. When utilizing this software, setting the required part accuracy level is quick, simple and user friendly, allowing you to prioritize precision against speed.

**AD-TAP**
Matsuura’s unique spindle motor control technology- AD-TAP, intelligently optimizes the torque V speed characteristics of the spindle motor, depending on the size of the tap used. This provides average reduction of 20% in tapping time. (Patented)

Tool Diameter Interpolations on 5-Axis

Three Dimensional Cutter Compensation

3-dimensional cutter compensation sets the value of tool-off-sets automatically for simultaneous 5-Axis machining according to the pre-set value. It enables the safe & automatic use of different diameter tools during 5-Axis machining with the table tilted.
Ultra Safe Collision Protection

Collision Avoidance during Setup
Tool length compensation data is linked with the Intelligent Protection System. As NC data changes, PC compensation data is automatically updated.

Collision Avoidance during Automatic Operation
Collision check can be activated during simulation. The collision check function renders the part in real time on screen.

On-Line Link with PC
- Intelligent Protection System simulates your programmed component, alerting the user to any interference or collision before any actual machining.
- Requires end user PC - consult Matsuura for full specifications.

Standard Accessories
- Software
- Communication cable
- Machine model data
- PC communication board
- A high quality cable is provided to route from the NC to your PC Communication Board.
Matsuura Intelligent Meister System

Meister's knowledge, skills, and ideas combined

- Eco Meister
  - Power Saving
    - Power cut-off function
    - Energy-saving devices installed

- Thermal Meister
  - Stable Accuracy
    - Spindle thermal displacement compensation

- Operability Meister
  - Fuss-Free Simple Operation
    - Tool setup support
    - Part setup support
    - Restart after machining stop

- Reliability Meister
  - Machine Down Time Reduction
    - Preventive maintenance support functions
    - Machine restoration support functions

- Reliability Meister Plus
  - Increased Security Provided
    - Electronic manual
    - E-mailing function

※ Reliability Meister Plus requires a PC. Consult Matsuura for more information.
# Standard Machine Specifications

## Movement and Ranges

<table>
<thead>
<tr>
<th>Axis</th>
<th>Travel mm (in.)</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>X-Axis</td>
<td>1,050 (41.33)</td>
<td></td>
</tr>
<tr>
<td>Y-Axis</td>
<td>920 (36.22)</td>
<td></td>
</tr>
<tr>
<td>Z-Axis</td>
<td>960 (37.79)</td>
<td></td>
</tr>
<tr>
<td>A-Axis</td>
<td>-120 to +30</td>
<td></td>
</tr>
<tr>
<td>B-Axis</td>
<td>360</td>
<td></td>
</tr>
</tbody>
</table>

## Pallet

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Working Surface</td>
<td>630 x 630 (24.80 x 24.80)</td>
</tr>
<tr>
<td>Loading Capacity</td>
<td>780 (1.719)</td>
</tr>
<tr>
<td>Max. Work Size</td>
<td>Ø1,000 x H770 (Ø39.37 x 30.31)</td>
</tr>
</tbody>
</table>

## Spindle

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spindle Speed Range</td>
<td>45 ~ 12,000</td>
</tr>
<tr>
<td>Spindle Drive Motor (kW)</td>
<td>15/22/26 (Low: 40% / 15%)</td>
</tr>
<tr>
<td>Max. Spindle Torque (N·m)</td>
<td>451 (550min⁻¹)</td>
</tr>
</tbody>
</table>

## Feedrate

<table>
<thead>
<tr>
<th>Rate Type</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rapid Traverse</td>
<td>60,000/60,000/50,000 (2,362.20/2,362.20/1,968.50)</td>
</tr>
<tr>
<td>Max. Tool Diameter</td>
<td>0 Ø10 (0.43)</td>
</tr>
<tr>
<td>Max. Tool Length</td>
<td>600 (23.62)</td>
</tr>
<tr>
<td>Max. Tool Mass</td>
<td>20 (44)</td>
</tr>
</tbody>
</table>

## Automatic Tool Changer

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type of Tool Shank</td>
<td>JIS B 6339 tool shank 50T</td>
</tr>
<tr>
<td>Type of Retention knob</td>
<td>JIS B 6339 pullstud 50P</td>
</tr>
<tr>
<td>Tool Changing Time (tool-to-tool)</td>
<td>2.0 (When tool mass is less than 10kg (22 lb.))</td>
</tr>
<tr>
<td></td>
<td>3.6 (When tool mass is over 10kg (22 lb.))</td>
</tr>
</tbody>
</table>

## Power Sources

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Capacity</td>
<td>kVA 122</td>
</tr>
<tr>
<td>Volume of Compressed Air</td>
<td>600</td>
</tr>
</tbody>
</table>

## Tank Capacity

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coolant Tank Capacity</td>
<td>L 600</td>
</tr>
</tbody>
</table>

## NC System

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Control System</td>
<td>Jatisura 4000-30</td>
</tr>
</tbody>
</table>

## Standard Accessories

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Splash Guard</td>
<td>01.</td>
</tr>
<tr>
<td>ATC Auto Door</td>
<td>02.</td>
</tr>
<tr>
<td>Synchronized Tapping</td>
<td>03.</td>
</tr>
<tr>
<td>AD-TAP Function</td>
<td>04.</td>
</tr>
<tr>
<td>IPC Function</td>
<td>05.</td>
</tr>
<tr>
<td>Auto Grease Supply Unit</td>
<td>07.</td>
</tr>
<tr>
<td>Cooler for Direct Drive motor</td>
<td>08.</td>
</tr>
<tr>
<td>Coolant Unit</td>
<td>09.</td>
</tr>
<tr>
<td>Chip Flush</td>
<td>11.</td>
</tr>
<tr>
<td>Spiral Chip Conveyor (Right/Left)</td>
<td>12.</td>
</tr>
<tr>
<td>Work Light</td>
<td>13.</td>
</tr>
<tr>
<td>Standard Mechanical Tools &amp; Tool box</td>
<td>14.</td>
</tr>
<tr>
<td>Machine Color Paint</td>
<td>15.</td>
</tr>
<tr>
<td>Leveling Pads &amp; Bolts</td>
<td>16.</td>
</tr>
<tr>
<td>Scale Feedback for A/B Axis</td>
<td>17.</td>
</tr>
<tr>
<td>MINS</td>
<td>18.</td>
</tr>
<tr>
<td>Intelligent Protection System</td>
<td>19.</td>
</tr>
<tr>
<td>Spindle Run Hour Meter</td>
<td>20.</td>
</tr>
<tr>
<td>Automatic Operation Run Meter</td>
<td>21.</td>
</tr>
<tr>
<td>Movable Manual Pulse Generator</td>
<td>22.</td>
</tr>
<tr>
<td>PC tool for memory card program operation and editing</td>
<td>23.</td>
</tr>
<tr>
<td>Operator Platform</td>
<td>24.</td>
</tr>
</tbody>
</table>

## Floor Plan

Units: mm (in.)

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**Floor Plan**

- **600** (23.62)
- **7213 (283.97)**
- **2740 (107.87)**
- **10553 (415.47)**
- **524 (20.62)**
- **5916 (232.91)**
- **4716 (185.66)**
- **2520 (99.21)**
- **1290 (50.78)**
- **115 (4.52)**
- **642 (25.27)**
- **1275 (50.19)**
- **695 (27.36)**
- **1220 (48.03)**
- **138 (5.43)**
- **3213 (126.1)**
- **144 (5.67)**
- **1139 (44.84)**
- **882 (34.72)**
- **1139 (44.84)**
- **414 (16.34)**
- **476 (18.74)**
- **524 (20.62)**
- **524 (20.62)**
- **1290 (50.78)**
- **695 (27.36)**
- **4612 (181.57)**
- **N.C. Box**
- **Air Dryer**
- **Oil Cooler**
- **Hydraulic Unit**
- **Leveling Bolts**
- **Chip Flush**
- **Spiral Chip Conveyor (Right and Left)**
- **Spindle Overload Protect**
- **Work Light**
- **Standard Mechanical Tools & Tool box**
- **Machine Color Paint**
- **Leveling Pads & Bolts**
- **Scale Feedback for A/B Axis**
- **Intelligent Protection System**
- **Spindle Run Hour Meter**
- **Automatic Operation Run Meter**
- **Movable Manual Pulse Generator**
- **Operator Platform**
- **PC tool for memory card program operation and editing**

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**Matsuura MAM72-100H**

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**Matsuura MAM72-100H**
Optional Specifications & Equipment

- **Spindle**
  - 12,000 min⁻¹ (BT50 Oil Air)
  - 10,000 min⁻¹ (BT50 Oil Air)
  - 15,000 min⁻¹ (BT50 Oil Air)
  - Spindle Drive Motor: kW 26 / 30
  - Max. Spindle Torque: N·m 700 (300min⁻¹)

- **ATC**
  - 60 tools (Drum Magazine Fixed Address)
  - 120 tools (Chain Magazine)
  - 150 / 180 / 210 / 240 tools (Matrix Magazine 240 base)
  - 270 / 300 / 330 / 360 tools (Matrix Magazine 360 base)

- **High Accuracy Control**
  - Scale Feedback X/Y-Axis
  - Scale Feedback Z-Axis
  - Scale Feedback X/Y/Z-Axis

- **APC**
  - PC2
  - PC6 (Floor Pallet System)
  - PC17 ~ (Linear Pallet System)

- **Pallet**
  - Working Surface: mm (in.) 800 x 800 (31.5 x 31.5)
  - Loading Capacity: kg (lb.) 640 (1,411)
  - Max. Work Size: mm (in.) Ø1,000 x H770 (Ø39.37 x 30.31) (with restrictions)

- **Coolant**
  - Coolant Unit
  - Coolant Thru Spindle: Vacuum Type Coolant Thru A (14MPa)
  - Coolant Thru Spindle: Vacuum Type Coolant Thru B (14MPa)
  - Coolant Thru Spindle: Vacuum Type Coolant Thru C (14MPa)
  - Coolant Flow Checker
  - Mist Separator Unit (without Fire Protect Damper)
  - Mist Separator Unit (with Fire Protect Damper)
  - Coolant Temperature Controller Separate Type, 100L Tank
  - Coolant Temperature Controller Separate Type, 200L Tank

- **In-Process Measurement + Tool Breakage**
  - In-Process Measurement/Auto Centering (Optical Touch Probe)
  - Broken Tool Detection/Auto Tool Length Measurement (Touch Sensor)
  - Broken Tool Detection/Auto Tool Length Measurement (Laser Sensor)
  - In-Process Measurement (Optical Touch Probe & Broken Tool Detection (Touch Sensor)
  - In-Process Measurement (Optical Touch Probe & Broken Tool Detection (Laser Sensor)

- **Swarf Management**
  - Total Splash Guard
  - ATC Auto Door
  - Spiral Chip Conveyor
  - Chip Flush System
  - External Nozzle: 2 MPa with Spindle Thru
  - External Nozzle: 7 MPa with Spindle Thru
  - Lift-Up Chip Conveyor (Scraping, Hinge + Scraper)
  - Chip Bucket
  - Chip removing air blow
  - Workpiece Cleaning Gun (Machine Side)
  - Workpiece Cleaning Gun (APC Side)

- **Operation/Maintenance Support**
  - AD-TAP Function
  - IPC Function
  - MIMS
  - Intelligent Protection System
  - Auto Grease Supply Unit for Feed Axes
  - Work Light
  - Movable Manual Pulse Generator
  - Spindle Run Hour Meter
  - Additional Eight M Functions
  - Spindle Load Monitoring Function
  - Weekly Timer
  - Rotary Wiper (air driven)
  - Rotary Wiper (electrically driven)
  - Automatic Operation Run Hour Meter
  - Optional Block Skip
  - Reliability Meister Plus

- **Safety Regulation**
  - Matsuura Safety Specification
  - Auto. Fire Extinguisher

- **Option Package**
  - Hi-Speed Hi-Precision Package
  - 5-Axis Package
  - Hi-Speed Hi-Precision / 5-Axis Package
  - Value Package
  - Hi-Speed Hi-Precision / 5-Axis Package + TRUE PATH

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**External View**

**Pallet Top View**
5-Axis Horizontal Machining Center

Products are subject to all applicable export control laws and regulations.

● Product specifications and dimensions are subject to change without prior notice.
● The photos may show optional accessories.

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