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

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

Matsuura 5-Axis Vertical Machining Center MAANT2-25V



NON-PC





In a

MAXIA

AM72-25









5-Axis Multiface Machining

(3 Key Points)

1. One Hit Process, One Set Up

• The concept behind 5-axis machining is to complete the component in "one hit, one loading", greatly reducing set up times. Because of this process of "one hit, one loading", set up times between different operations are eliminated. In addition to this, errors caused by set up changeover & fixturing, usually between 2 or more different machine tools, are also eliminated, adding assured precision to the process.



2. Simplified Fixturing - Lower Costs, Reduced Downtime

- 5-axis machining can significantly reduce fixture costs & set up times by utilizing "fixture holes" into the billet that will become the finished component. The example to the right demonstrates this concept
 the "fixture holes" on the billet fix directly to the pallet or fixture plate.
- Many Matsuura 5-axis Customers utilize this process, eliminating their fixture costs & minimising setup & down time by having the same configuration across their range of machined components. In terms of cost, this standardization has inherent & significant financial savings to the end user.



3. Reliable, Effective Unmanned Production

 Matsuura's outstanding palletization systems across the entire range of machining center's, coupled with the versatile flexibility of simultaneous 5-axis machining offers users unparalleled heights of reliable, proven unmanned production. All of Matsuura's range of machine tools can have their stock number of pallets increased at a later date, should there be a requirement. Retro fitting a higher capacity APC is a very straight forward process, as all versions of Matsuura APC's are integrated into the machine at design stage making expansion at a later date simple.

Simultaneous 5-Axis Machining

(3 Key Points)

1. Reduced the Cycle Time, Improved Machining Surface

With a 3 axis machine, spindle interference is a real problem when working with standard length tooling. Matsuura's 5-axis configuration of the 4/5th axis table eliminates this problem by means of the tilting the table during high speed machining. With a fixed spindle / tilting table configuration maximum rigidity of the tool & tool holder is achieved , whilst allowing the tool to access even the most difficult aspects of a complicated workpiece.



2. Simultaneous 5-Axis Machining

5-Axis Swarf Machining



5-Axis Heel Machining





3. NC Functionality, CAD/CAM & Simulation Software

- Matsuura's **MAM72 Series** of simultaneous 5-axis machines possess a vast arsenal of optional NC Functions.
- All relevant models needed to run optional software are available such as for Collision Avoidance Software. Recognised as a world leader for 5-axis products - our **MAM72** has been the clear market leader for machines in its class for over a decade, we have gained the necessary 5-axis design, manufacture & installation experience to convert any organisation from a 3 axis process to 5-axis.
 - * Optional 3rd party CAD/CAM software.
 - * Graphics from PC Monitor linked to NC

Post Processor CAMplete TruePath

• CAMplete TruePath provides everything you need to analyze, edit, optimize and verify 5-axis toolpaths in a seamless 5 view 3D environment. Take control of your post processing and reap the benefits from your Matsuura 5-axis machine.







Com	pact & Cos	st Effective 5-Axis
5-Axis Vertical Ma	chining Center Standard	
	(NON-PC)	
Travel (X/Y/Z)	: 550 / 410 / 450 mm	
	: (21.65 / 16.14 / 17.71 in.)	
Travel (B/C)	: -110 ~ +110 / 360 deg	
Max. Work Size	: Ø300 x H250 mm	
	: (Ø11.81 x H9.81 in.)	
Max. Work Weigh	nt: 40 kg	
5-Axis Vertical Ma	chining Center Option	AMAM72-25V
MAM	72-25V 🚌	MAXIA
Equipped with Cor	npact Twin Pallet Changer	
No. of Pallets	: 2	
Max. Work Size	: Ø250 x H250 mm	
	: (Ø9.81 x H9.81 in.)	
5-Axis Vertical Ma	chining Center Option	
Γ.Γ.Γ.Γ.Γ.Γ.Γ.Γ.Γ.Γ.Γ.Γ.Γ.Γ.Γ.Γ.Γ.Γ.Γ.	72-25V cm	*12-2 V
		MAXES
For Long Periods I	Unmanned Operation	r 🖬 🕴 🖬 🛃
No. of Pallets	: 10	
Max. Work Size	: Ø250 x H250 mm	
	: (Ø9.81 x H9.81 in.)	
5-Axis Vertical Ma	chining Center Option	Floor Pallet System
	72_25V @	MAXIA See
IVI #4 IVI		
High Productivity N	Machining Cell System	
No. of Pallets	· 40	
Max Work Size	· · · · Ø250 x H250 mm	
WIGA. WORLDIZE	: (Ø9 81 x H9 81 in)	
	. (20.01 × 110.01 III.)	

Tower Pallet System

Productivity

Matsuura Designed & Built 4/5th Axis Table

- Designed in house by Matsuura, the 4/5th table has been integrated into the very heart of the **MAM72 Series** of machines. Offering life long accuracy & durability, this unique & proven configuration optimizes working envelopes & eliminates all possible interference.
- Retro fitting a higher capacity APC is a very straight forward process, as all versions of Matsuura 5-axis APC multi pallet systems are integrated into the machine at design stage, making expansion at a later date simple with minimum fuss & machine downtime.



Proven & Established 5-Axis Accuracy

· Sustained high accuracy has always been an admirable & desirable feature of Matsuura CNC Products. Based on many years attaining excellence through innovation, our 5-axis machines are second to none in terms of longevity & accuracy performance. Only the best available supplied components are considered in the design stage of any Matsuura Product. The Cone Cutting Test, rapidly becoming a standard for testing the capability of a 5-axis machine tool, can be demonstrated on any Matsuura 5-axis Machine with accuracy & deflection results always scoring under 10 µm.



<Cone-cutting-test (NAS979)>

• The Cone Cutting test is becoming the industry standard test for measuring the performance & accuracy of a 5-axis machine tool. After setting the billet in a fixture tilted on the table of the machine, the side cutter of a straight endmill cuts a taper shape around the circumference of the billet. The accuracy of circularity cutting is measured from this cut. This test utilizes all axis simultaneously. Generally speaking, 20 microns is considered a good result - Matsuura 5-axis machines consistently score under 10 microns. As the results on the left show, the MAM72-25V achieved accuracy in this test of 5.5 microns



Filter	1-15 upr
Material	A5052
Material	ø100 mm (ø3.93in.)
Spindle Speed	S5,000 min ⁻¹
Feedrate	F1,000 mm/min (39.3 ipm)
Tool	ø16 mm 2-teeth End mill

Reliable Unmanned Production

- No other machine tool manufacturer in the same class as Matsuura can offer your business the same large capacity APC Palletized system, as found on our *MAM72 Series* of simultaneous 5-axis machines. Our 5-axis machines offer proven ability in terms of reliable unmanned production. Our *MAM72 Series* feature the unique "double access" to the component, either in the machining enclosure or in the APC & or Workstation Loading Area, even on the standard *MAM72-25V*.
- Matsuura have long extolled the virtues of the extremely cost effective nature of unmanned production. To those ends Matsuura have invested in decades of R & D, resulting in the proven high productivity multi pallet systems across our entire range of machine tools, & operated by some of the worlds leading companies.



Vast Array of Productivity Enhan

Ample Tool Storage for all Applications



BT40 : 30 Tool Magazine (Chain-pot Type)

MAM

· 30 Tool ATC Magazine supplied as standard.

- · An optional matrix type tool magazine can store up to 240 tools. The benefits of a larger capacity ATC can be realized when long periods of unmanned running & volume production are required, offering the ability to have duplicate "sister" tooling available in the event of tool damage, or when machining extremely complex shapes requiring many different tools.
- Also, as the MAM72 multi pallet machine is geared to hold many different jobs to be executed at short notice - having a full compliment of tooling available at all times removes tool setting & set up times.

Number of Tools
Standard
BT40 : 30 (Chain-pot Type)
Option
BT30:30 / 40 (Chain-pot Type)
BT40:40/80 (Chain-pot Type)
BT40:120/150/180/210/240 (Matrix Type)



Option



Maximum Tool Size Standard

Diameter	: 96 mm (3.77 in.)*
when the pote	s on both sides are empty : 150 mm)
ength	: 300 mm (11.81 in.)
Weight	: 10 kg (22 lb.)

* 80 mm (3.14 in.) : In case of optional matrix type tool magazine.

· Larger tool sizes are available, with restrictions. Please contact Matsuura for a full evaluation of your requirements.

cing Options

The 2 Pallet Changer System

 The MAM72-25V PC2 incorporates the highly rigid, high accuracy BIG COROMANT CAPTO^{*} pallet clamping system.



BIG COROMANT CAPTO is a registered trademark of between SANDVIK, .Inc. and BIG DAISHOWA SEIKI co, .Itd.

APC Options: From a Standard Twin Pallet to Full FMS



PC10

Floor Pallet System Integrated Multi Pallet Pool. 10 Pallets.







Robust and Compact

Robust and Compact 4/5th Table, In-house Design

- The MAM72 Series of machines have been designed as fully fledged & integrated 5-axis machine tools not just 3 axis machines with a "bolt on" 4/5th axis table. Due to design integration at the machines inception, the MAM72 has an optimized work enclosure, offering maximum working envelopes and limiting interference and collisions. Even cutting at the maximum component weight, the MAM72 can operate at its maximum rapid traverse rate, achieving full high speed operation & simultaneous 5-axis machining.
- Designed around the operator, the **MAM72** allows full & easy access to the machine work enclosure & APC loading station, & offers easy viewing of the 4/5th table when machining. All tasks that require access to the machine have been ergonomically designed with the operators comfort in mind & to minimize downtime.



Largest B-Axis Stroke in its Class

• The **MAM72-25V** has a B-axis Stroke of 220 degrees, the largest in its class (-110 to +110 degrees). The true benefits of the B-axis Stroke are realized when machining intricate, complex & irregular shapes.

Maximum Work Size



*Larger work sizes can accommodate with restrictions, depending on the component. Please contact Matsuura for a full evaluation of your component if it falls outside of the stated maximum work size.



High Speed High Accuracy

Scale Feed Back System as STD.

• The 4/5th axes motors generate exceptionally high speed rotation and high torque. Supplied as standard, the B/ C axis are equipped with a proven scale feedback system, delivering superb repeatability and many years of reliable, highly accurate operation.

4/5th Table Specification

Rotation Speed (B/C)	$30 / 50 \mathrm{min}^{-1}$
Max. Acceleration (B/C)	: 0.25G / 0.5G
Max. Table Cutting Torque	: 1,070 / 192 N•m
Table Break Torque	: 1,112 / 500 N∙m
Min. Indexing	0.001 deg
Pallet* Clamping Force	22.5 kN
Indexing Accuracy (B/C)	5 / 5 sec.
ACTUAL RESULTS	2.4 / 1.9 sec.
Indexing Repeatability (B/C) :	±2 / ±2 sec.

Tail-Stock Option

• When machining long, slender type components, the optional tail-stock system provides maximum rigidity when the component is inclined horizontally.



Fixtures

 The MAM72-25V pallet* has been designed and configured to accept a large variety of fixtures.



*Pallets are installed on machines equipped with pallet changer (MAM72-25V PC2/PC10/PC40)

Matsuura Hi-Tech Spindle

Eco-Friendly Grease Lubrication

 The Spindle bearing is lubricated by an automated grease supply system. Low noise operation, with minimum air requirement. Eco friendly & maintenance free.



Designed & Assembled "in-house"

 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.) as actual measured value at the spindle nose.

Unique Spindle Coupling

• The spindle and the motor are connected by Matsuura's unique coupling. This assembly is designed to prevent the heat from being transferred from the motor to the spindle & contributes to the high accuracy of the spindle.

Spindle Cooling

• To minimize heat buildup in the spindle, cooled oil is circulated around the outer jacket of the spindle thus sustaining its high accuracy.

Double Face Contact

• The standard, double contact of the face & taper, unification of the spindle & drive key features a unique tool clamp mechanism to improve repeatability and stationary/dynamic rigidity. This results in excellent material removal rates and surface finish.





Spindle Thermal Displacement Compensation Option

 Matsuura's own Thermal Displacement Compensation function assures long periods of accurate machining performance.

Vacuum Type Coolant-Thru-Spindle Option

 This function prevents coolant from dripping & scattering in the machine enclosure & in the ATC during tool change. A vacuum mechanism aspirates the remaining coolant in the circuit.

*Vacuum Type Coolant-Thru for 30,000min⁻¹ spindle is not available

Standard		TORQUE(N·m)	SPINDLE TORQUE & POWER DIAGRAM POWER(kW) Matsuura G-Tech 840D/
Spindle Specification			50
Spindle Speed	BT40 : 15,000 min ⁻¹	100 65.1 N· 47.7 N·	m7.5 kW ⁰ m5.5 kW
Spindle Motor Power	5.5 / 7.5 kW (10 HP)	10	11.8 2.8 2.1 8.9 1
Spindle Motor Torque	65.1 N•m / 1,100 min⁻¹	0.34 kV 0.25 kV	N
		1 10	0.1 50 1100 1500 8000 15000



Option		TORQU	SPINDL E(N·m)	E TORQUE & POWEF	R DIAGRAM PO	WER(kW)
Spindle Specification		1		Matsuura G-Tech 840DI		100
Spindle Speed	BT40 : 15,000 min ⁻¹	100	95.4 N·m 47.8 N·m		. 15 kW 11 7.5 kW 5.5	10
Spindle Motor Power	7.5 / 15 kW (20 HP)	10		23.8	47.0 5 5	1
Spindle Motor Torque	95.4 N•m / 1,500 min⁻¹		0.5 kW 0.25 kW	10 min. Ra	ting Rating 3.5 M	N∙m I∙m
		1	10 50 100) 1500 3	000 15000	0.1

Option	
Spindle Specification	
Spindle Speed	BT40 : 15,000 min ⁻¹
Spindle Motor Power	7.5 / 15 kW (20 HP)
Spindle Motor Torque	95.4 N•m / 1,500 min⁻¹





SPINDLE SPEED (min⁻¹)

SPINDLE SPEED (min⁻¹)

BT40 : 20,000 min ⁻¹
7.5 / 11 kW (15 HP)
70.7 N⋅m /1,500 min ⁻¹



Excellent Swarf Management

Robust & Reliable Swarf Management

 Protective axes telescopic covers feature 38 degree angled slopes, with minimal projections and no swarf "traps", for superbly efficient swarf flow and chip removal. Deep troughs integrated into both sides of the bed facilitate the fast and effective removal of swarf into the coolant tank, situated at the rear of the machine. An "operator side exit" swarf management system offering the same high level of operation is available, should the location and installation of the MAM72-25V require it.



Coolant Tank Oil Capacity 400L





Spiral Chip Conveyors

Option

 Twin spiral conveyors are available as an option for operations generating very high volumes of swarf.



Option

 In addition to the spiral chip conveyors, a lift up type chip conveyor with a drum filter is available for fully automated swarf management.

Superb Access

Machine Front Side and Operator Side

(NON-PC) PC2





Access Distance Bog Dans (2,5,9 in) Deor Open Wight (3,2,5 in)

Machine Front Side

Operator Side

State-of-the-art NC System

Matsuura G-Tech 840DI



<FEATURES>

- Equipped with the Latest high performance CPU, Windows XP Professional[®], graphical user interface, USP port.
- 10.4 inch color LCD, soft keys vertically arranged.
- · Faster editing, machine power on/off.

For High Speed and Finer Machined Surface

<Machining for General Parts or Mold & Die>



<Machining for more Complex, Precision Parts>

IZ-1/COMP Option

(Max.5,000 Block Look Ahead + Spline Interpolation)

 After compressing a maximum of 50 blocks & engaging the 100 Block Look Ahead function, IZ-1/COMP interpolates & applies to the B-Spline to the nearest point selected.

Windows XP Professional is a Microsoft Corporation Trademark

Matsuura G-Tech 30i



<FEATURES>

- High Speed CPU and FSSB, Internal CNC Bus, Optical Fiber Cables used for High Speed Data Transfer.
- Nanometer Resolution.
- 10.4 inch color LCD, soft keys vertically arranged. Compact Flash Port, PC File Management structure.

For High Speed and Finer Machined Surface

<Machining for General Parts or Mold & Die>

IZ-1/15F Standard

<Machining for more Complex, Precision Parts>

IZ-1/30NF, IZ-2/150NF

Option

(Look Ahead Linear Ace./dec.+nano interpolation)

 Executing the max. 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.

Proven Software Performance for 5-Axis Machining

Automatically Controlled Toolpath / Tool Speed Option

 5-Axis Transformation (TRAORI) is the kinematics transformation function of G-Tech840DI which realizes easy tool center point programming for 5-Axis machining. The path and path velocity of the tool center point, can be programmed based on the workpiece ccrdinate system, in the same way as that for 3-Axis machine tools.



Tool center point moves according to the program command with table tilt/rotation

Tool Diameter Interpolations on 5-Axis Option



Easy Programming (3+2-Axis) Option

· G-Tech 840DI offers, as standard feature, CYCLE800 which takes over necessary calculations fo 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.

	Name: 182			-	-
	Betractio		A		
	Selve1:		Tes .		
1	Second adams		100		
	Buf, paints	-			1005
		W			1000
		-			-
	Salard sealer	-	for an.	_	
	Bot. armoutt	10.1		- 1	-
	But around'r	181		1	-
	Ret. aroundI	121			-
	Barry packet :	**		14	-
		11		16	-
		21		1	-
	Street inc.		H Louis	-	-
	Track Inc. 10.				

Matsuura G-Tech 840DI Option

Cycle800 Matsuura G-Tech 30i Option Tilted Working Plane Command

NC Package Option

· Packages of NC Software, tailored to your production, are available. Please consult your Matsuura dealer for full details & assessment of your requirements.

5-Axis Related Option Package Matsuura G-Tech 840DI				
RTCP (TRAORI, CUT3DC, Cycle800, etc)				
5-Axis Related Option Package Matsuura G-Tech 30i				
Tool Center Point Control				
Tilted Working Plane Command				
3-Dimensional Cutter Compensation				
Work Setting Error Compensation				
Inverse Time Feed				
Tool Posture Control				
IZ-1/30NF				
Optimum Torque Acceleration/Deceleration				
High Speed High Precision Package Matsuura G-Tech 840DI				
High Speed High Precision Package Matsuura G-Tech 30i				
IZ-2/150NF				
Lookahead Block Expansion up to 1000 pcs				
NANO Smoothing				
NANO Smoothing 2				
Optimal Torque Acceleration/Deceleration				

Fast Data Server Function

High-Speed Precision Machining Program Support Function

Matsuura G-Tech 840DI Matsuura G-Tech 30i	Standard	IPC	

· When utilizing this software, setting the required part accuracy level is quick, simple and user friendly, allowing you to prioritize precision against speed.



Handy Man II

Standard Handy Manll

· Handy ManII provides major savings by reducing set-up, programming, operating & maintenance times.

Main Specifications

NON-PC

Movement & Ranges		
X-Axis Travel	mm (in.)	550 (21.65)
Y-Axis Travel	mm (in.)	410 (16.14)
Z-Axis Travel	mm (in.)	450 (17.71)
B-Axis Travel	deg	-110~+110
C-Axis Travel	deg	360
■ Pallet		
Working Surface	mm (in.)	ø170 (6.69)
Working Surface with PC	mm (in.)	ø130 (5.11)
Loading Capacity	kg (lb.)	40 (88)
Max. Work Size	mm (in.)	ø300 × H250 (ø11.81 × H9.84)
Max. Work Size with PC	mm (in.)	ø250 × H250 (ø9.84 × H9.84)
■ Spindle : BT40		
Spindle Speed Range	min ⁻¹	50 ~ 15,000
Type of Spindle Taper Hole		7/24 Taper BT40
Spindle Bearing Inner Diameter	mm (in.)	ø70 (2.75)
Max. Spindle Torque	Nm/min ⁻¹	65.1 /1 ,100
Spindle Motor Power	kW (HP)	5.5 / 7.5 (10)
■ Feedrate		
Rapid Traverse Rate (X/Y/Z)	mm/min ⁻¹ (ipm)	50,000 (1,968.5)
Rapid Traverse Rate (B/C)	min ⁻¹	30 / 50
Rapid Traverse Acc. (X/Y/Z)	G	0.6 / 0.6 / 0.6
Rapid Traverse Acc. (B/C)	deg/sec ² .	2,500 / 5,000
Min.Movement Increment (X/Y/Z)	mm (in.)	0.001 (0.000039)
Min.Movement Increment (B/C)	deg	0.001
Automatic Tool Changer		
Type of Tool Shank		JIS B 6339 tool shank 40T
Type of Retention Knob		JIS B 6339 pullstud 40T
Tool Storage Capacity	pcs.	30 (Chain-Pot Type)
Max. Tool Diameter	mm (in.)	ø96 (3.77)
Max. Tool Diameter When the pockets on both sides are empty	mm (in.)	ø150 (5.90)
Max. Tool Length	mm (in.)	300 (11.81)
Max. Tool Weight	kg (lb.)	10 (22)
Method of Tool Selection		Memory random
Tool Change Arm		Double grip type

Power Supply				
Input Power	kVA	32		
Voltage	V	AC 200/220 ± 10%		
Frequency	Hz	50/60 ± 1		
Air Source	MPa	0.54~0.93		
Volume of compressed air	NL/min	20 (Max.350)		
Tank Capacity				
Hydraulic oil tank capacity	L	25		
Coolant Tank Capacity	L	400		
Standard Accessories				
01. Total Splash Guard				
02. ATC Auto Door	03	. Air Mover		
04. Synchronized Tapping	05	. AD-TAP Function		
06. IPC Function	07	. Spindle Oil Cooler		
08. Auto. Grease Supply to Feed Axis 09. Coolant Unit				
10. Chip Flow	11.	. Chip Flush System		
12. Spindle Overload Protect	t 13	. M-Code Counter (9 M-code)		
14. Work Light	15	. Standard Mechanical Tools and Tool Box		
16. Machine Color Paint				
17. Leveling Plates and Bolts (not utilized for the foundation)				
18. Scale Feedback for B/C-axis				
19. Handy Manll F				
20. CD-ROM for Memory Card Operation only for Matsuura G-Tech 30i				
21. Spindle Creaner for C-ax	cis			
22. Matsuura Safety Specific	cation			

Table Surface (NON-PC)





Center Hole



Equipment

■ Spindle				
15,000 min ⁻¹	0			
20,000 min ⁻¹				
33,000 min ⁻¹				
■ ATC				
30 (BT40 Chain Pot Type)	0			
40 / 80 (Chain Pot Type)				
90 / 120 / 150 / 180 / 210 / 240 (Matrix Type 240 base)				
■ High Accuracy Control				
Scale Feedback System X/Y-Axis				
Scale Feedback System Z-Axis				
Scale Feedback System X/Y/Z-Axis				
Scale Feedback System B/C-Axis	0			
■ APC				
NON-PC	0			
PC2				
PC10 (Floor Pallet System)				
PC40 (Tower Pallet System)				
■ Coolant				
Coolant Unit	0			
Vacuum Type Coolant-Thru-Spindle Type A	▲*			
Vacuum Type Coolant-Thru-Spindle Type B	▲*			
Vacuum Type Coolant-Thru-Spindle Type C (2MPa)	▲*			
Vacuum Type Coolant-Thru-Spindle Type C (5MPa)	▲*			
Vacuum Type Coolant-Thru-Spindle Type C (7MPa)	▲*			
Coolant Flow Checker				
Mist Separator Unit				
Mist Separator Unit with Fire Protect Damper				
Coolant Temperature Controller Tank 100L				
Coolant Temperature Controller Tank 200L				

* Vacuum Type Coolant-Thru for 30,000min⁻¹ Spendle is not available

Swarf Management Total Splash Guard 0 ATC Auto Door Ο Spiral Chip Conveyor Chip Flush System Lift-up Chip Conveyor (Hinge, Drum Filter+Spiral Chip Conveyor) Chip Bucket Workpiece Cleaning Gun (Machine Side) Operation / Maintenance **AD-TAP** Function 0 **IPC** Function 0 0 Handy ManII Y/F Auto Grease Supply to Feed Axis Ο 0 Work Light Work Counter Ο 8 Sets of Extra M Function Spindle Load Monitoring Function ▲ Weekly Timer ▲ Spindle Run Hour Display Unit Rotary Wiper (by Air) ▲ Rotary Wiper (by Electricity) Cumulative Run Hour Display Unit Exterminal Manual Pulse Generator Program End Announcement Light (Red, Yelloew, Green) Safety Features Matsuura Safety Specification Ο ■ In-Process Measurement / Broken Tool Detection In-Process Measurement / Auto Centering (Touch Probe) Broken Tool Detection / Auto Tool Length (Touch Sensor) Broken Tool Detection / Auto Tool Length (Laser Sensor) ▲ In-Process Measurement (Touch Probe) + Broken Tool Detection (Touch Sensor) ▲ In-Process Measurement (Touch Probe) + Broken Tool Detection (Laser Sensor) Tailstock Tail Stock System ▲

Pallet Surface with PC





MAM72-25V NON-PC

Unit: mm (in.)



Floor Plan





MAM72-25V PC2

Unit: mm (in.)



Floor Plan

MAM72-25V PC2



MAM72-25V PCID





Floor Plan

MAM72-25V EGIO



MAM72-25V PC40



Floor Plan







MAM72-25V PC2 / PC10 / PC40 Spindle Movement Interference



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