Matsuura 5-A NIX-850





Matsuura MX-850

Cost Effective, Large Capacity 5 Axis Excellence

Introducing the big brother of the globally acclaimed MX-520

Developed in response to global market demand following the runaway success of the **MX-520**, the **MX-850** is the largest in the series so far - offering established and aspirational companies alike a high quality, large capacity single table 5 axis Matsuura - at an investment level that will surprise you.

From Beginner to Advanced, the **MX-850** Offers Sublime Usability

Equipped with a new operating system that allows for direct, instinctive control as well as MIMS (Matsuura Intelligent Meister System) and Matsuura's proprietary Intelligent Protection System for the prevention of collisions, the **MX-850** can be used simply, safely, and with confidence.

Superb & Efficient Design

Designed for efficient, safe working practices and operator comfort, the **MX-850** offers superb access to the enclosure for the rapid set up of work - even utilising overhead cranes to load up to 500kg on the trunnion table.

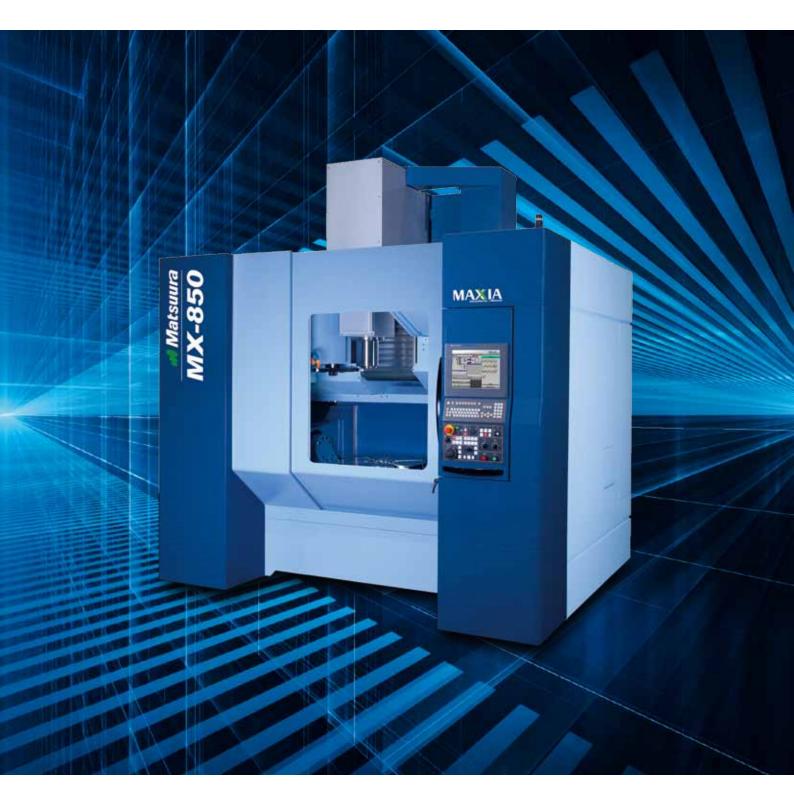
Large Workpiece Machining

The standard table has a diameter of Ø500mm. Optional side tables offer superb versatilty with the 500 table - taking the outer rotary side table size to SIZE REQUIRED. An optional Ø700mm rotary table is also available. The maximum workpiece size on the standard Ø500mm table is 850mm in width with a height of 450mm, combined with a maximum weight of 500kg



The Matsuura **MX-850** - bringing raw cutting power and Matsuura 5 axis high speed finesse to within reach of every company. From aluminium to hard to cut materials - the **MX-850** is the market solution to large and complex machining tasks.







MAX IA Spindles from Matsuura - the Pioneers of High Speed Spindles

A replete line-up of spindles that meets all machining needs, from high-torque heavy cutting to high-speed machining.



High Precision, High Durability and Maintenance Free

MAXIA Spindles – from Matsuura, the pioneers of spindle technology. MAXIA Matsuura spindles are renowned the world over for their robust operation, sustained high accuracy, low noise & low or zero maintenance – offering users the very best in machining versatility – from aluminium to pre-hardened materials. The MX-850 is launched with three powerful spindle options

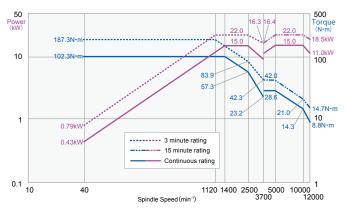
Spindle Thermal Displacement Compensation Function Equipped as Standard

Thermal distortion caused by the spindle is corrected automatically, maintaining stable and precise machining at all times.

Spindle Motor Torque & Power Diagram

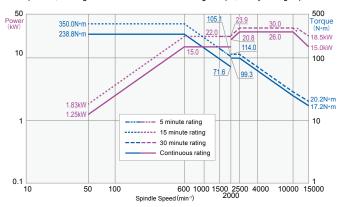
Standard BT40 12,000 min⁻¹

An all-round spindle that offers excellent cost performance.



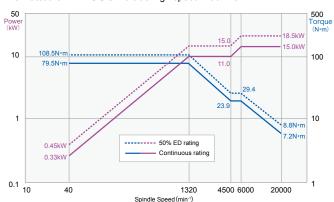
Option BT40 15,000 min⁻¹

A new product, offering enhanced 350 N·m/600 min⁻¹ high torque, heavy cutting capabilities.



Option BT40 20,000 min⁻¹

The Matsuura **MX-850** – a true high speed machine



A high speed type, excelling during high speed machining such as on aluminium.

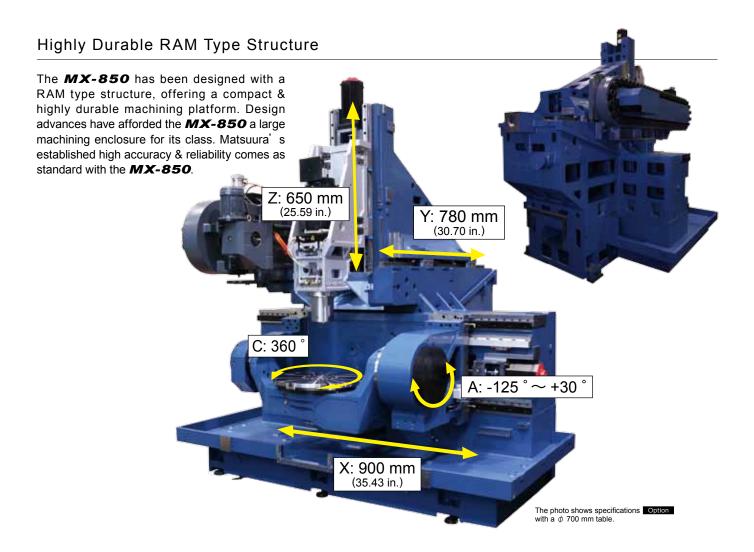
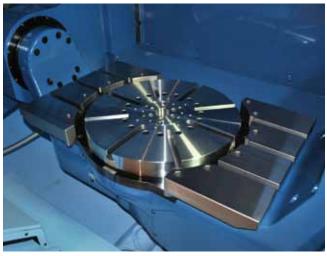
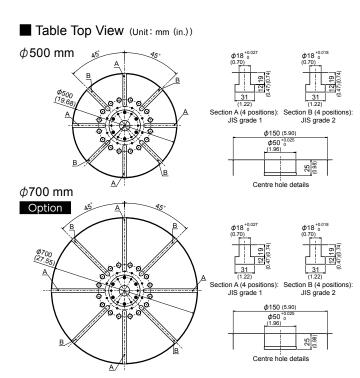


Table Options That Meet All Machining Needs

The ϕ 500 mm table comes equipped as standard. You can also choose from a ϕ 700 mm table or one with an attached flat table (ϕ 500 mm) according to your machining needs.



The photo shows specifications with a flat table. (ϕ 500 mm) Option



Designed for Sustained Performance





The photo shows specifications with a ϕ 700 mm table. Option

Excellent Workpiece and Spindle Accessibility – by design

The **MX-850** possesses a cavernous enclosure door opening width of 1,055mm – allowing safe and ergonomic loading of even the most unwieldy billets. The distance from the front of the machine to the spindle is just 110mm – assuring operator comfort whilst work setting & routine maintenance.





The photo shows specifications with a ϕ 700 mm table. Option

Designed for easy crane access

A sliding roof cover, incorporating a proven Matsuura design, affords the operator a spacious 435mm roof opening for loading billets safely by crane.

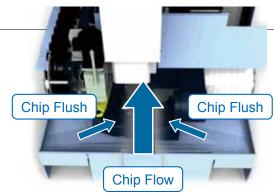


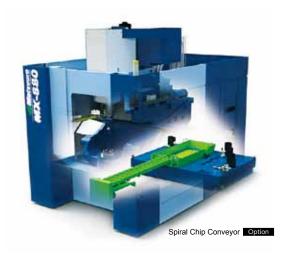


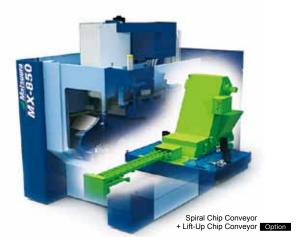
Proven Chip Removal Design

Smooth Chip Removal

Dynamic chip flush & chip flow are fitted as standard, evacuating the machining enclosure of chips. Optional larger tanks & conveyors can be added allowing longer periods of continuous machining.







60 Tool Chain Magazine as Standard

The standard 60 tool chain type ATC offers ample storage for a vast array of machining processes.



Automation

Robotic Interface Enabling Connections to External Workpiece Conveying Machines Responding to demand for automatic workpiece conveyors using robotics.

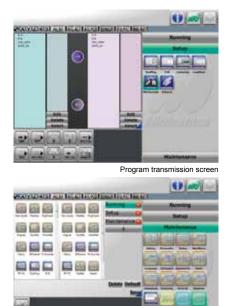
- Robotic interface
- Automatic door (automatically opens and closes the operator door)
- Pressure supply system for jigs (supplies pressure to the auto clamping device for the workpiece)



Intuitive, Superlative Control – from Beginner to Advanced Operators

New Operating System, Incorporating Large Touch Screen Technology – Effortless & Safe NC Navigation & Operation.

Running, set-up and maintenance screens are just a touch away – offering status at a glance to the operator and full control over all functionality and systems. Effortless, fast navigation and a custom view function allows the operator to set the control to match the work undertaken. From beginner to advanced – all levels of operator will get the very best out of this NC - & the **MX-850** it controls.





Swing Control Panel; Easy to Operate

The swing control panel allows easy access to the controls at any time, even while setting up or performing adjustments.



Category editing screen

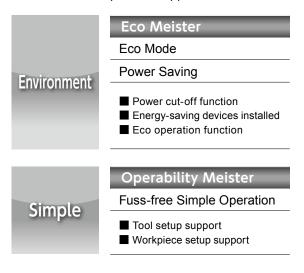


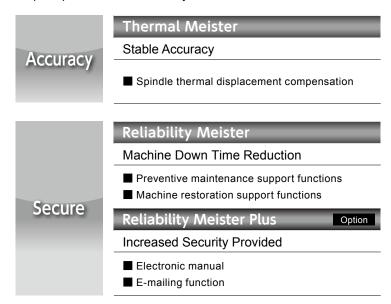
MIMS

Matsuura Intelligent Meister System

A Master Craftsman's Knowledge, Skills, and Ideas Combined

OEM Matsuura operator support software to maximise rapid operation and usability.

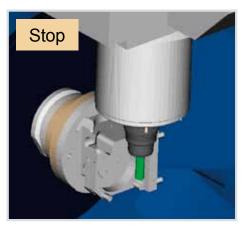






Ultra Safe Collision Protection

The Intelligent Protection System provides Matsuura's proprietary anti-collision function that prevents machinery collision resulting from programming mistakes at the time of automatic operation and human errors while the machine is under manual control or during workpiece setup time.



Intelligent Protection System

Manual / Automatic operation supported Simultaneous 5-axis machining supported

* The above show a concept image.

On-line Link with PC



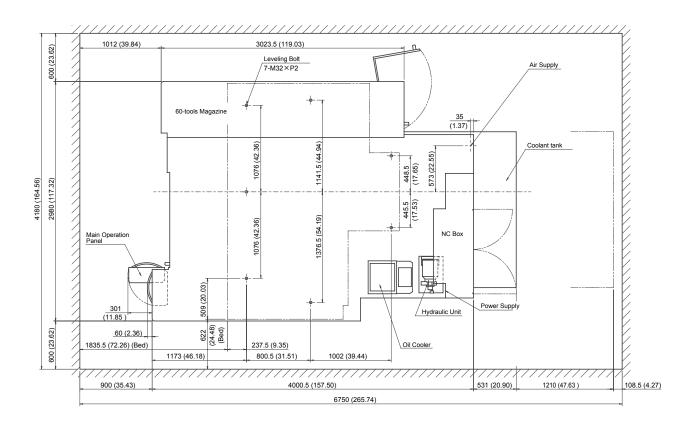
- * Under normal operations, the Intelligent Protection System prevents collisions when the shape and position of the machine model, tools, workpieces, jigs match.
- * Requires end-user PC. Contact Matsuura for full specifications.

Standard Machine Specifications

Movement and Range X-Axis Travel mm (in.) 900 (35.43") Y-Axis Travel mm (in.) 780 (30.70") Z-Axis Travel mm (in.) 650 (25.59") A-Axis Rotation Angle deg -125 ∼ +30 G-Axis Rotation Angle deg 360 Table Working Surface mm (in.) Ø 500 (19.68") Max. Work Size mm (in.) Ø 760 × H 450 (Ø 29.92" × H 17.71") Spindle Speed min¹ 40 - 12000 (GREASE LUBRICATION) Spindle Speed Change Command S5DIRECT Spindle Bearing Inner Diameter mm (in.) 80 (3.14") Spindle Motor Power kW AC 15 / 22 (Low Speed : Contin. / 15min) Max. Spindle Motor Torque N·m 187 / 1120min¹ 17 / 33 Feed Rate X / Y / Z mm/min 40000 A / C min¹ 17 / 33 Matomatic Tool Changer Type of tool shank JIS B 6339 tool shank 40T Type of retention knob JIS B 6339 pullstud 40P Tool Storage Capacity pcs. 60 (chain magazine) Max. Tool Diameter mm (in.) 350 (13.77") Max. Tool Mass kg (lb.) 10 (22) Memory random system				
Y-Axis Travel mm (in.) 780 (30.70") Z-Axis Travel mm (in.) 650 (25.59") A-Axis Rotation Angle deg -125 ~ +30 C-Axis Rotation Angle deg 360 ■ Table Working Surface mm (in.) φ 500 (19.68") Loading Capacity kg (lb.) 500 (1100) Max. Work Size mm (in.) φ 760 × H 450 (φ 29.92" × H 17.71") ■ Spindle Spindle Speed Change Command Spindle Speed Change Command S5DIRECT Spindle Taper 7/24 TAPER BT40 (DOUBLE FACE CONTACT) Spindle Motor Power kW AC 15 / 22 (Low Speed : Contin. / 15min) Max. Spindle Motor Torque N·m 187 / 1120min⁻¹ ■ Feed Rate Rapid Traverse Rate X / Y / Z mm/min 40000 A / C min⁻¹ 17 / 33 ■ Automatic Tool Changer Type of tool shank JIS B 6339 tool shank 40T Type of retention knob JIS B 6339 pullstud 40P Tool Storag	■ Movement and Range	, ,		
Z-Axis Travel	X-Axis Travel	mm (in.)	900 (35.43")	
A-Axis Rotation Angle deg -125 ~ +30 C-Axis Rotation Angle deg 360 ■ Table Working Surface mm (in.) φ 500 (19.68") Loading Capacity kg (lb.) 500 (1100) Max. Work Size mm (in.) φ 760 × H 450 (φ 29.92" × H 17.71") ■ Spindle Spindle Speed min⁻¹ 40 - 12000 (GREASE LUBRICATION) Spindle Speed Change Command S5DIRECT Spindle Taper 7/24 TAPER BT40 (DOUBLE FACE CONTACT) Spindle Bearing Inner Diameter mm (in.) 80 (3.14") Spindle Motor Power kW AC 15 / 22 (Low Speed : Contin. / 15min) Max. Spindle Motor Torque N·m 187 / 1120min⁻¹ ■ Feed Rate Rapid Traverse Rate X / Y / Z mm/min 40000 A / C min⁻¹ 17 / 33 Feedrate X / Y / Z mm/min 1 ~ 40000 A / C min⁻¹ 17 / 33 ■ Automatic Tool Changer JIS B 6339 tool shank 40T Type of tool shank JIS B 6339 pullstud 40P Tool Storage Capacity pcs. 60 (chain magazine)<	Y-Axis Travel	mm (in.)	780 (30.70")	
C-Axis Rotation Angle deg 360 ■ Table working Surface mm (in.) φ 500 (19.68") Loading Capacity kg (lb.) 500 (1100) Max. Work Size mm (in.) φ 760 × H 450 (φ 29.92" × H 17.71") ■ Spindle Spindle Speed min⁻¹ 40 - 12000 (GREASE LUBRICATION) Spindle Speed Change Command S5DIRECT Spindle Taper 7/24 TAPER BT40 (DOUBLE FACE CONTACT) Spindle Bearing Inner Diameter mm (in.) 80 (3.14") Spindle Motor Power kW AC 15 / 22 (Low Speed : Contin. / 15min) Max. Spindle Motor Torque N·m 187 / 1120min⁻¹ ■ Feed Rate Rapid Traverse Rate X / Y / Z mm/min 40000 A / C min⁻¹ 17 / 33 Feedrate X / Y / Z mm/min 1 ~ 40000 A / C min⁻¹ 17 / 33 ■ Automatic Tool Changer Type of tool shank JIS B 6339 tool shank 40T Type of retention knob JIS B 6339 pullstud 40P Tool Storage Capacity pcs. 60 (chain magazine) Max. Tool L	Z-Axis Travel	mm (in.)	650 (25.59")	
■ Table Working Surface mm (in.) φ 500 (19.68") Loading Capacity kg (lb.) 500 (1100) Max. Work Size mm (in.) φ 760 × H 450 (φ 29.92" × H 17.71") ■ Spindle Spindle Speed min⁻¹ 40 - 12000 (GREASE LUBRICATION) Spindle Speed Change Command S5DIRECT Spindle Taper 7/24 TAPER BT40 (DOUBLE FACE CONTACT) Spindle Bearing Inner Diameter mm (in.) 80 (3.14") Spindle Motor Power kW AC 15 / 22 (Low Speed : Contin. / 15min) Max. Spindle Motor Torque N·m 187 / 1120min⁻¹ ■ Feed Rate Rapid Traverse Rate X / Y / Z mm/min 40000 A / C min⁻¹ 17 / 33 Feedrate X / Y / Z mm/min 1 ~ 40000 A / C min⁻¹ 17 / 33 ■ Automatic Tool Changer JIS B 6339 tool shank 40T Type of tool shank JIS B 6339 pullstud 40P Tool Storage Capacity pcs. 60 (chain magazine) Max. Tool Diameter mm (in.) 350 (13.77") Max. Tool Length mm (in.	A-Axis Rotation Angle	deg	-125 \sim +30	
Working Surface mm (in.) φ 500 (19.68") Loading Capacity kg (lb.) 500 (1100) Max. Work Size mm (in.) φ 760 × H 450 (φ 29.92" × H 17.71") ■ Spindle Spindle Speed min⁻¹ 40 - 12000 (GREASE LUBRICATION) Spindle Speed Change Command S5DIRECT Spindle Taper 7/24 TAPER BT40 (DOUBLE FACE CONTACT) Spindle Bearing Inner Diameter mm (in.) 80 (3.14") Spindle Motor Power kW AC 15 / 22 (Low Speed : Contin. / 15min) Max. Spindle Motor Torque N·m 187 / 1120min⁻¹ ■ Feed Rate Rapid Traverse Rate X / Y / Z mm/min 40000 A / C min⁻¹ 17 / 33 Feedrate X / Y / Z mm/min 1 ~ 40000 A / C min⁻¹ 17 / 33 ■ Automatic Tool Changer JIS B 6339 tool shank 40T Type of tool shank JIS B 6339 pullstud 40P Tool Storage Capacity pcs. 60 (chain magazine) Max. Tool Diameter mm (in.) 350 (13.77") Max. Tool Length mm (in.) 350 (13.77") <td>C-Axis Rotation Angle</td> <td>deg</td> <td>360</td>	C-Axis Rotation Angle	deg	360	
Loading Capacity kg (lb.) 500 (1100) Max. Work Size mm (in.) φ 760 × H 450 (φ 29.92"× H 17.71") ■ Spindle spindle wm (in.) φ 760 × H 450 (φ 29.92"× H 17.71") ■ Spindle Speed min⁻¹ 40 - 12000 (GREASE LUBRICATION) Spindle Speed Change Command S5DIRECT Spindle Taper 7/24 TAPER BT40 (DOUBLE FACE CONTACT) Spindle Bearing Inner Diameter mm (in.) 80 (3.14") Spindle Motor Power kW AC 15 / 22 (Low Speed : Contin. / 15min) Max. Spindle Motor Torque N·m 187 / 1120min⁻¹ Max. Spindle Motor Torque N·m 187 / 1120min⁻¹ Feed Rate Rapid Traverse Rate X / Y / Z mm/min 40000 A / C min⁻¹ 17 / 33 Feedrate X / Y / Z mm/min 1 ~ 40000 A / C min⁻¹ 17 / 33 ■ Automatic Tool Changer JIS B 6339 tool shank 40T Type of tool shank JIS B 6339 pullstud 40P Tool Storage Capacity pcs. 60 (chain magazine) Max. Tool Diameter mm (in.) 350 (43	■ Table			
Max. Work Size mm (in.) φ 760 × H 450 (φ 29.92" × H 17.71") ■ Spindle Spindle Speed min⁻¹ 40 - 12000 (GREASE LUBRICATION) Spindle Speed Change Command S5DIRECT Spindle Taper 7/24 TAPER BT40 (DOUBLE FACE CONTACT) Spindle Bearing Inner Diameter mm (in.) 80 (3.14") Spindle Motor Power kW AC 15 / 22 (Low Speed : Contin. / 15min) Max. Spindle Motor Torque N·m 187 / 1120min⁻¹ ■ Feed Rate Rapid Traverse Rate X / Y / Z mm/min 40000 A / C min⁻¹ 17 / 33 Feedrate X / Y / Z mm/min 1 ~ 40000 A / C min⁻¹ 17 / 33 ■ Automatic Tool Changer Type of tool shank JIS B 6339 tool shank 40T Type of retention knob JIS B 6339 pullstud 40P Tool Storage Capacity pcs. 60 (chain magazine) Max. Tool Diameter mm (in.) 480 (φ 3.14) (with adjacent tools) Max. Tool Length mm (in.) 350 (13.77") Max. Tool Mass kg (lb.) 10 (22)	Working Surface	mm (in.)	φ 500 (19.68")	
Spindle Speed	Loading Capacity	kg (lb.)	500 (1100)	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Max. Work Size	mm (in.)	ϕ 760×H 450 (ϕ 29.92"×H 17.71")	
Spindle Speed Change Command S5DIRECT Spindle Taper 7/24 TAPER BT40 (DOUBLE FACE CONTACT) Spindle Bearing Inner Diameter mm (in.) 80 (3.14") Spindle Motor Power kW AC 15 / 22 (Low Speed : Contin. / 15min) Max. Spindle Motor Torque N⋅m 187 / 1120min⁻¹ Feed Rate Rapid Traverse Rate X / Y / Z mm/min 40000 A / C min⁻¹ 17 / 33 Feedrate X / Y / Z mm/min 1 ~ 40000 A / C min⁻¹ 17 / 33 ■ Automatic Tool Changer Type of tool shank JIS B 6339 tool shank 40T Type of retention knob JIS B 6339 pullstud 40P Tool Storage Capacity pcs. 60 (chain magazine) Max. Tool Diameter mm (in.) 480 (φ 3.14) (with adjacent tools) φ 150 (φ 5.90) (without adjacent tools) φ 150 (φ 5.90) (without adjacent tools) Max. Tool Length mm (in.) 350 (13.77") Max. Tool Mass kg (lb.) 10 (22)	■ Spindle			
Spindle Taper 7/24 TAPER BT40 (DOUBLE FACE CONTACT) Spindle Bearing Inner Diameter mm (in.) 80 (3.14") Spindle Motor Power kW AC 15 / 22 (Low Speed : Contin. / 15min) Max. Spindle Motor Torque N⋅m 187 / 1120min⁻¹ ■ Feed Rate Rapid Traverse Rate X / Y / Z mm/min 40000 A / C min⁻¹ 17 / 33 Feedrate X / Y / Z mm/min 1 ~ 40000 A / C min⁻¹ 17 / 33 ■ Automatic Tool Changer Type of tool shank JIS B 6339 tool shank 40T Type of retention knob JIS B 6339 pullstud 40P Tool Storage Capacity pcs. 60 (chain magazine) Max. Tool Diameter mm (in.) 480 (φ 3.14) (with adjacent tools) Max. Tool Length mm (in.) 350 (13.77") Max. Tool Mass kg (lb.) 10 (22)	Spindle Speed	min ⁻¹	40 - 12000 (GREASE LUBRICATION)	
Spindle Bearing Inner Diameter mm (in.) 80 (3.14") Spindle Motor Power kW AC 15 / 22 (Low Speed : Contin. / 15min) Max. Spindle Motor Torque N·m 187 / 1120min $^{-1}$ Feed Rate Rapid Traverse Rate X / Y / Z mm/min 40000 A / C min $^{-1}$ 17 / 33 Feedrate X / Y / Z mm/min 1 \sim 40000 A / C min $^{-1}$ 17 / 33 Automatic Tool Changer Type of tool shank JIS B 6339 tool shank 40T Type of retention knob JIS B 6339 pullstud 40P Tool Storage Capacity pcs. 60 (chain magazine) Max. Tool Diameter mm (in.) ϕ 80 (ϕ 3.14) (with adjacent tools) Max. Tool Length mm (in.) 350 (13.77") Max. Tool Mass kg (lb.) 10 (22)	Spindle Speed Change Command		S5DIRECT	
Spindle Motor Power kW AC 15 / 22 (Low Speed : Contin. / 15min) Max. Spindle Motor Torque N⋅m 187 / 1120min $^{-1}$ Feed Rate Rapid Traverse Rate X / Y / Z mm/min 40000 A / C min $^{-1}$ 17 / 33 Feedrate X / Y / Z mm/min 1 $^{-2}$ 40000 A / C min $^{-1}$ 17 / 33 Automatic Tool Changer Type of tool shank JIS B 6339 tool shank 40T Type of retention knob JIS B 6339 pullstud 40P Tool Storage Capacity pcs. 60 (chain magazine) Max. Tool Diameter mm (in.) $^{-2}$ 480 ($^{-2}$ 5.90) (without adjacent tools) Max. Tool Length mm (in.) 350 (13.77") Max. Tool Mass kg (lb.) 10 (22)	Spindle Taper		7/24 TAPER BT40 (DOUBLE FACE CONTACT)	
Max. Spindle Motor Torque N⋅m 187 / 1120min⁻¹ Feed Rate Rapid Traverse Rate X / Y / Z mm/min 40000 A / C min⁻¹ 17 / 33 Feedrate X / Y / Z mm/min 1 ~ 40000 A / C min⁻¹ 17 / 33 ■ Automatic Tool Changer Type of tool shank JIS B 6339 tool shank 40T Type of retention knob JIS B 6339 pullstud 40P Tool Storage Capacity pcs. 60 (chain magazine) Max. Tool Diameter mm (in.) 480 (φ 3.14) (with adjacent tools) Max. Tool Length mm (in.) 350 (13.77") Max. Tool Mass kg (lb.) 10 (22)	Spindle Bearing Inner Diameter	mm (in.)	80 (3.14")	
Feed Rate Rapid Traverse Rate X / Y / Z mm/min 40000 A / C min ⁻¹ $17 / 33$ Feedrate X / Y / Z mm/min $1 \sim 40000$ A / C min ⁻¹ $17 / 33$ Automatic Tool Changer Type of tool shank JIS B 6339 tool shank 40T Type of retention knob JIS B 6339 pullstud 40P Tool Storage Capacity pcs. 60 (chain magazine) Max. Tool Diameter mm (in.) 0 Max. Tool Length mm (in.) 0 Max. Tool Mass kg (lb.) 0 Move the first of the firs	Spindle Motor Power	kW	AC 15 / 22 (Low Speed : Contin. / 15min)	
Rapid Traverse Rate X / Y / Z mm/min 40000 A / C min ⁻¹ $17 / 33$ Feedrate X / Y / Z mm/min $1 \sim 40000$ A / C min ⁻¹ $17 / 33$ Automatic Tool Changer Type of tool shank JIS B 6339 tool shank 40T Type of retention knob JIS B 6339 pullstud 40P Tool Storage Capacity pcs. 60 (chain magazine) Max. Tool Diameter mm (in.) ϕ 80 (ϕ 3.14) (with adjacent tools) ϕ 150 (ϕ 5.90) (without adjacent tools) Max. Tool Length mm (in.) ϕ 350 (13.77") Max. Tool Mass kg (lb.) ϕ 10 (22)	Max. Spindle Motor Torque	N∙m	187 / 1120min ⁻¹	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	■ Feed Rate			
FeedrateX / Y / Zmm/min1 \sim 40000A / Cmin⁻¹17 / 33■ Automatic Tool ChangerType of tool shankJIS B 6339 tool shank 40TType of retention knobJIS B 6339 pullstud 40PTool Storage Capacitypcs.60 (chain magazine)Max. Tool Diametermm (in.) ϕ 80 (ϕ 3.14) (with adjacent tools)Max. Tool Lengthmm (in.)350 (13.77")Max. Tool Masskg (lb.)10 (22)	Rapid Traverse Rate X / Y / Z	mm/min	40000	
A / C min ⁻¹ 17 / 33 ■ Automatic Tool Changer Type of tool shank JIS B 6339 tool shank 40T Type of retention knob JIS B 6339 pullstud 40P Tool Storage Capacity pcs. 60 (chain magazine) Max. Tool Diameter mm (in.) φ80 (φ3.14) (with adjacent tools) φ150 (φ5.90) (without adjacent tools) Max. Tool Length mm (in.) 350 (13.77") Max. Tool Mass kg (lb.) 10 (22)	A/C	min ⁻¹	17 / 33	
Type of tool shank Type of retention knob Tool Storage Capacity Max. Tool Diameter Max. Tool Length Max. Tool Mass	Feedrate X/Y/Z	mm/min	1 ~ 40000	
Type of tool shank Type of retention knob JIS B 6339 tool shank 40T Type of retention knob JIS B 6339 pullstud 40P Tool Storage Capacity pcs. 60 (chain magazine) Max. Tool Diameter mm (in.) ϕ 80 (ϕ 3.14) (with adjacent tools) ϕ 150 (ϕ 5.90) (without adjacent tools) Max. Tool Length mm (in.) 350 (13.77") Max. Tool Mass kg (lb.) 10 (22)	A/C	min ⁻¹	17 / 33	
Type of retention knob Tool Storage Capacity Max. Tool Diameter mm (in.) mm (in.) mm (in.) Max. Tool Length Max. Tool Mass mm (in.) mm	■ Automatic Tool Changer			
Tool Storage Capacity pcs. 60 (chain magazine) Max. Tool Diameter mm (in.) ϕ 80 (ϕ 3.14) (with adjacent tools) ϕ 150 (ϕ 5.90) (without adjacent tools) Max. Tool Length mm (in.) 350 (13.77") Max. Tool Mass kg (lb.) 10 (22)	Type of tool shank		JIS B 6339 tool shank 40T	
$\begin{array}{lll} \text{Max. Tool Diameter} & & mm (\text{in.}) & \phi 80 (\phi 3.14) (\text{with adjacent tools}) \\ & \phi 150 (\phi 5.90) (\text{without adjacent tools}) \\ & \text{Max. Tool Length} & \text{mm (in.}) & 350 (13.77") \\ & \text{Max. Tool Mass} & \text{kg (lb.)} & 10 (22) \\ & \end{array}$	Type of retention knob		JIS B 6339 pullstud 40P	
Max. Tool Diametermm (in.) ϕ 150 (ϕ 5.90) (without adjacent tools)Max. Tool Lengthmm (in.)350 (13.77")Max. Tool Masskg (lb.)10 (22)	Tool Storage Capacity	pcs.	60 (chain magazine)	
Max. Tool Mass kg (lb.) 10 (22)	Max. Tool Diameter	mm (in.)		
	Max. Tool Length	mm (in.)	350 (13.77")	
Methods of Tool Selection Memory random system	Max. Tool Mass kg		10 (22)	
memory remains of community and the community remains a community remains and the community remains a comm	Methods of Tool Selection		Memory random system	

■ Power Sources	■ Power Sources					
Power Capacity	kVA	56 (Depending on options)				
Voltage	V	AC 200 / 220 ± 10%				
Frequency	Hz	50 / 60 ± 1				
Tank Capacity						
Hydraulic Oil Tank Capacity	L	20				
Coolant Tank Capacity	L	560				
Oil Cooler Tank Capacity	L	14				
■ NC System						
Control System		Matsuura G-Tech 31i				
■ Standard Accessories						
01. Total Splash Guard	02.	ATC Auto Door				
03. Synchronized Tapping	04.	MIMS Function				
05. AD-TAP Function	06.	IPC Function				
07. Spindle Oil Cooler	08.	Auto Grease Supply Unit for Feed Axes				
09. Coolant System	10.	Chip Flush				
11. Chip Flow	12.	Spindle Overload Protection				
13. Work Light	14.	Standard Mechanical Tool and Tool Box				
15. Machine Color Paint 16.		Leveling Pads and Bolts				
17. Spindle Run Hour Mete	er 18.	Automatic Operation Run Hour Meter				
19. Intelligent Protection System						
20. Leveling Pads and Bolt	ts					
21. Scale Feedback for A /	С					

Floor Plan (Unit: mm (in.))



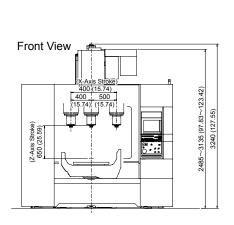
List of Fittings

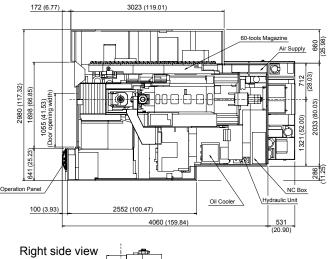
■ Spindle					
12,000min ⁻¹ (BT40 Grease L	uhricatio	n)			
15,000min ⁻¹ (BT40 Grease L					
Spindle motor output	kW	Low: 15 / 22、High: 26 / 30			
Spindle max. torque	N·m	350	1		
20,000min ⁻¹ (BT40 Grease L	ubricatio	n)			
Spindle motor output	kW	Low: 11 / 15、High: 15 / 18.5	•		
Spindle max. torque	N∙m	108.4	İ		
■TABLE		1			
φ500			О		
φ700			A		
φ500 + Flat Table			A		
■ High-precision Control					
Scale Feedback X / Y / Z (HE	IDENHA	IN)	0		
Scale Feedback A / C (HEIDE	NHAIN)		A		
■ Coolant					
Coolant Tank			○▲▲▲▲		
Vacuum-Type Coolant Through A 7MPa					
Vacuum-Type Coolant Through A 14MPa					
Vacuum-Type Coolant Through B 7MPa					
Vacuum-Type Coolant Through B 14MPa					
Vacuum-Type Coolant Through C 2MPa					
Vacuum-Type Coolant Through C 7MPa					
Mist Separator (without Fire Damper)					
Coolant Temperature Controller with 100-liter Tank (installed separately); small 100L					
■ Automatic Measurement/T	ool Dam	age Check			
Automatic Measurement/Automatic Centering (optical type)					
Tool Damage Check/Full Automatic Tool Length Measurement (laser type)					
Tool Damage Check/Full Automatic Tool Length Measurement (laser type)					
		nd Tool Damage Check (laser type)	A		
Automatic Measurement (optical	Automatic Measurement (optical type) and Tool Damage Check (laser type)				

O F Grandard	орио
■ Swarf Management	
Total Splash Guard	
ATC Auto Door	0
Chip Flush	
Chip Flow	0
Chip Bucket	
Spiral Chip Conveyor	A
Lift-Up Chip Conveyor (scraper)	A
Chip Removal Air Blow	A
Workpiece Cleaning Gun (Main unit side)	A
■ Control / Maintenance Support	
AD-TAP Function	
IPC Function	0
Work Light	0
MIMS Function	0
Intelligent Protection System	0
Feed Axis Auto Lubricator	0
Reliability Meister Plus TYPE A	A
Reliability Meister Plus TYPE B	A
Eight additional M functions	A
Spindle Load Monitoring Function	A
Weekly Timer	A
3-Color Signal Light (red, yellow, green from top)	A
Movable Manual Pulse Generator	A
Optional Block Skip 2 ~ 9	A
Rotary Wiper (air type)	
Rotary Wiper (electric type)	A
100 VAC outlet (3A)	A
eZ-5 (with Calibration Sphere)	A
eZ-5 (without Calibration Sphere)	A
Pressure Supply System for Fixtures	A
Robot Interface + Auto Door	•
■ Optional Package	
High-speed, High-precision Package	A
5-Axis Package	A
High-speed, High-precision / 5-Axis Package	A
Value Package	A
TRUE PATH	A
Machine module	A

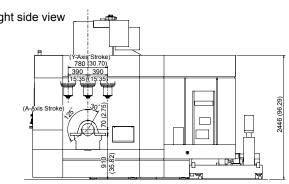
○: Standard ▲: Option

Outline (Unit: mm (in.))





Top View





URL: http://www.matsuura.co.jp/ E-MAIL: webmaster@matsuura.co.jp

MATSUURA MACHINERY CORPORATION

1-1 Urushihara-cho Fukui City 910-8530, Japan TEL: +81-776-56-8106 FAX: +81-776-56-8151

MATSUURA EUROPE GmbH

Berta-Cramer-Ring 21

D-65205 Wiesbaden-Delkenheim, Germany

TEL: +49-6122-7803-80 FAX: +49-6122-7803-33

URL : http://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: http://www.matsuura.co.uk/ E-MAIL: sales@matsuura.co.uk

Facebook: www.facebook.com/pages/Matsuura-Machinery-Ltd/427006380682983

MATSUURA MACHINERY GmbH

Berta-Cramer-Ring 21

D-65205 Wiesbaden-Delkenheim, Germany

TEL: +49-6122-7803-0 FAX: +49-6122-7803-33

URL: http://www.matsuura.de/ E-MAIL: info@matsuura.de

ELLIOTT MATSUURA CANADA INC.

2120 Buckingham Road Oakville Ontario L6H 5X2, Canada TEL: +1-905-829-2211 FAX: +1-905-829-5600

URL : http://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 : http://www.matsuurausa.com/ E-MAIL : info@matsuurausa.com

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



This product is subject to all applicable export control laws and regulations

