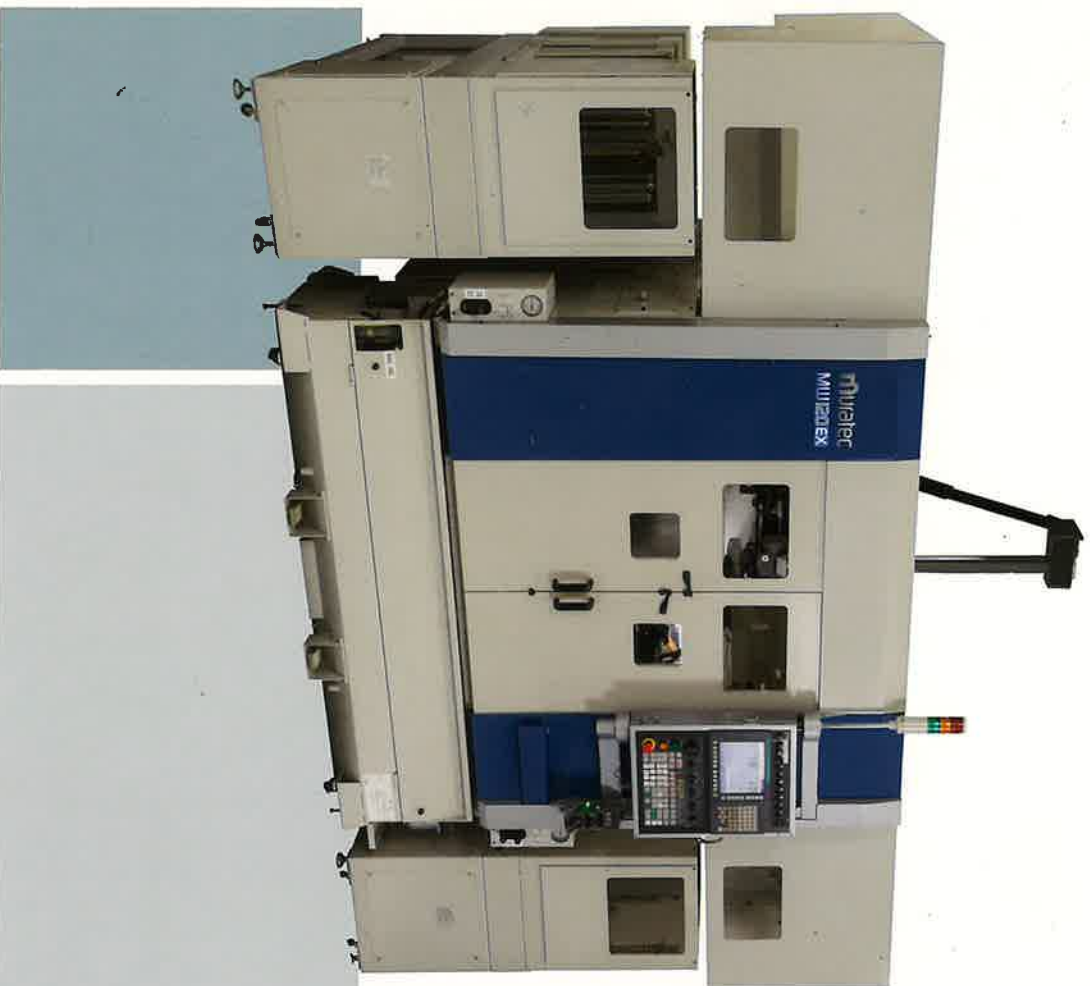


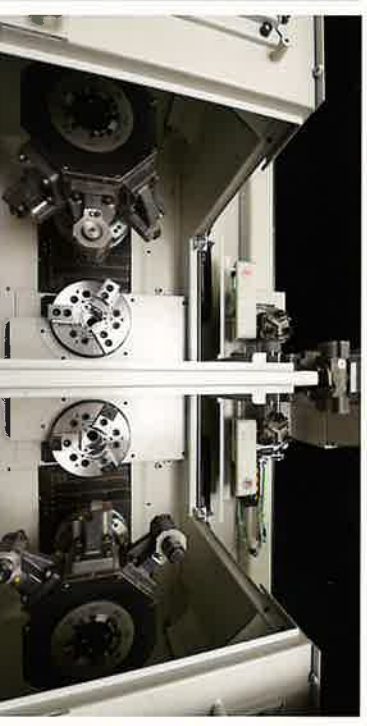


Evolved and Enhanced MW Series Towards Higher Performance



Twin Spindle CNC Chuckler

**MW120EX / MW200EX**



MURATA MACHINERY, LTD.

# The Birth of the MURATEC MW Series and Continuous Growth

The MW16 model was first produced in 1986 as Muratec's Original Horizontal Twin-Spindle Turning with Loader. In 1993, the MW12 was introduced into the market when Muratec's unique built-in gantry loader gained popularity.

After continuous efforts for further improvements, the long-awaited MW120 and MW200 were launched. It was not long before the two models became the best-selling line of Muratec products.

The MW series now offers an extensive range of Horizontal Twin-Spindle CNC Chuckers, meeting the various needs of customers. The MW Series has further succeeded with enhanced EX models.

In search of the ultimate excellence, the MW and EX series will continue to evolve.

## The Secrets behind the Popularity of the MURATEC MW Series

### The MW Series are Horizontal

The turrets and spindles are designed parallel each other. This design helps sustain heavy cutting, and complete accurate finishing, and allows chips to fall naturally away from the part due to gravity.

Our largest advantage of the horizontal is with gantry loader in automated line construction for mass production. The MW series serve best when several machines are combined for high productivity.

### Twin Spindles, Twin Turrets & Number of Stations

Even with a smaller footprint than single spindle machines, high-volume and flexibility are achieved: Flexible machine utilization for two identical processes or for first and second operation. Maximum 12 stations (option) on each turret are an additional booster for flexible machining.

### Separate Beds for Vibration Reduction

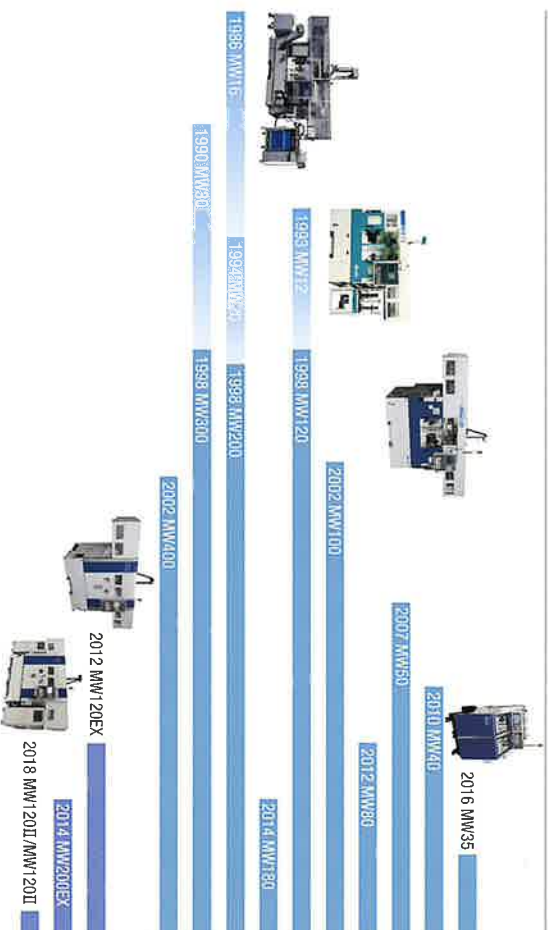
The twin spindle MW machines are built on completely separate beds to minimize the transfer of harmonic vibrations. This unique structure helps improve roundness and surface finish of processed workpieces.

### Intelligent 3-axis Flexible Gantry Loader / Single or Twin

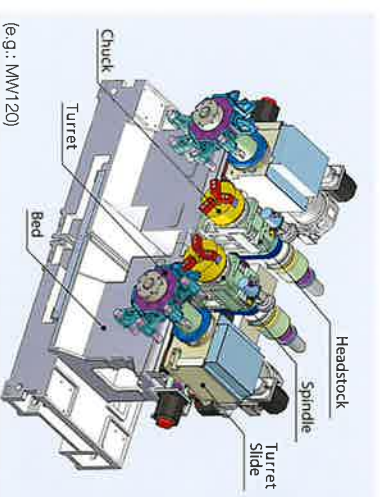
A servo gantry loader CNC 3-axis is incorporated to help meet target cycle time. Twin loader type is also available, giving individual access to the left and right spindles which in-turn leads to highly effective cutting of short-cycle workpieces.

1986 >

Muratec Twin-Spindle Chronology

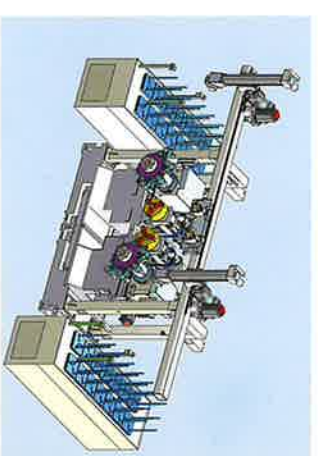


Twin Spindles with Twin Turrets



Combined Machines for Mass Production

Twin Loader Type



Chuck 6" 8"

**MW1200EX**



Twin Spindle EX Series Line-up



Chuck 10"

**MW2000EX**

## Basic Machine Specifications

	MW1200EX	MW2000EX
Maximum chuck size	ø165 mm (6 inch) ø210 mm (8 inch)	ø210 mm (8 inch) ø254 mm (10 inch)
Number of turret stations	Right and Left each 8 stations Right and Left each 12 stations	Right and Left each 10 stations Right and Left each 12 stations
Spec. of cutting axes	X-axis 130 mm 24 m/min Z-axis 145 mm 24 m/min	X-axis 190 mm 24 m/min Z-axis 170 mm 24 m/min
Use tool	O.D. tool □ 20mm I.D. tool Max. ø40 mm	O.D. tool □ 25mm I.D. tool Max. ø40 mm
Spindle drive motor	Standard 7.5 kW/30 min (5.5 kW/Continuous) x 2 Option 11 kW/30 min (7.5 kW/Continuous) x 2	Standard 15 kW/30 min (11 kW/Continuous) x 2 Option 22 kW/30 min (18.5 kW/Continuous) x 2
Spindle speed range	30~3,000 rpm 45~4,500 rpm 60~6,000 rpm (7.5kW)	24~2,400 rpm 35~3,500 rpm
Footprint	1,900 mm x 1,940 mm	2,360 mm x 2,240 mm
Total weight (with tools)	4,200 kg	6,400 kg
Total weight (with loader and tools)	4,500 kg	7,000 kg

Option: The MW1200EX - Newly-developed Package for Idle Time Reduction

## Gantry Loader Specifications

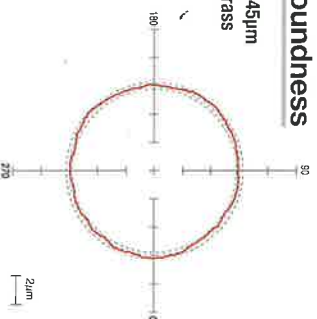
	MW1200EX	MW2000EX
Loader workpiece handling capacity (size)	ø 120 mm x 80 mm	ø 200 mm x 120 mm
Loader workpiece handling capacity (weight with jaws)	3.0 kg x 2	6.0 kg x 2 (OP : 8.0 kg x 2)
X-axis (Left/Right)	Stroke Max. speed 240 m/min	The gantry loader X-axis stroke adjustable to layout. 150 m/min
Y-axis (Up/Down)	Stroke Max. speed 575 mm 175 m/min	650 mm 110 m/min
Z-axis (Fwd./Rev.)	Stroke Max. speed 205 mm 65 m/min	300 mm 50 m/min
α-axis (Hand index)	Stroke Cycle time 0.6 sec/180°	180° 0.9 sec/180° (OP : 1.5 sec/180°)
Jaw stroke	ø 30 mm	ø 55 mm
Standard loading time	4.05 sec	9.0 sec (OP : 9.6 sec)

# - Faster and Higher Efficiency - Newly-Developed High-Speed Gantry Loader (MW1200EX)

## Test Data (Samples) : MW1200EX

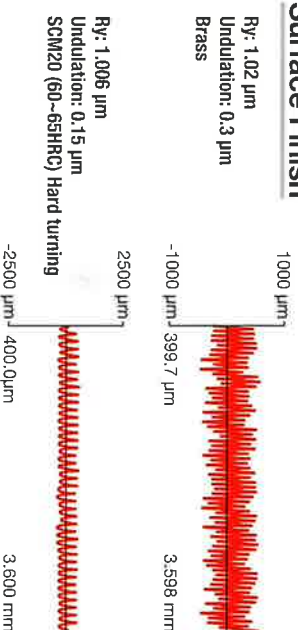
### Roundness

0.45μm  
Brass



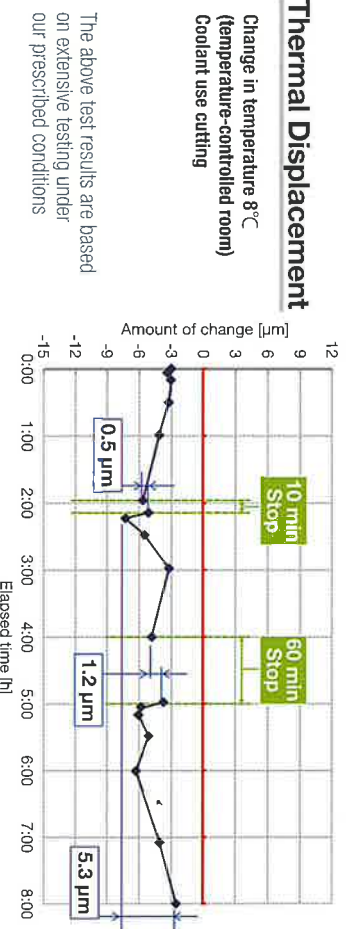
### Surface Finish

Ry: 1.02 μm  
Undulation: 0.3 μm  
Brass



### Thermal Displacement

Change in temperature 8°C  
(temperature-controlled room)  
Coolant use cutting

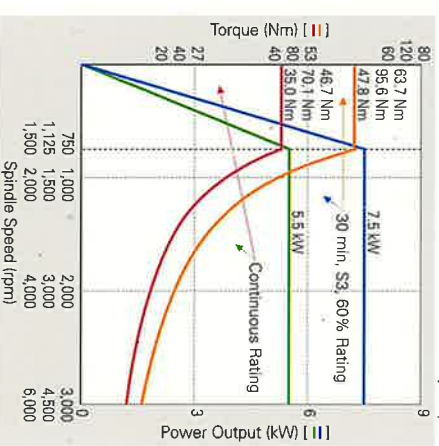




# Main Spindle Output Power Characteristics

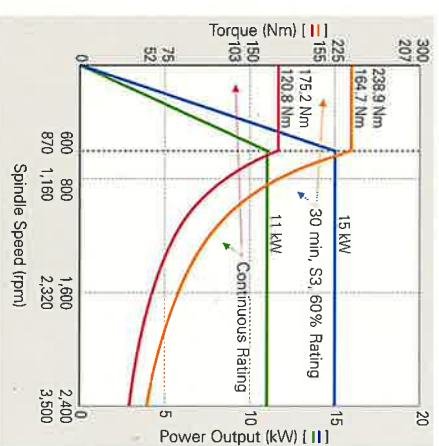
**MW120EX**

3,000 rpm spec,  
4,500 rpm spec,  
6,000 rpm spec.



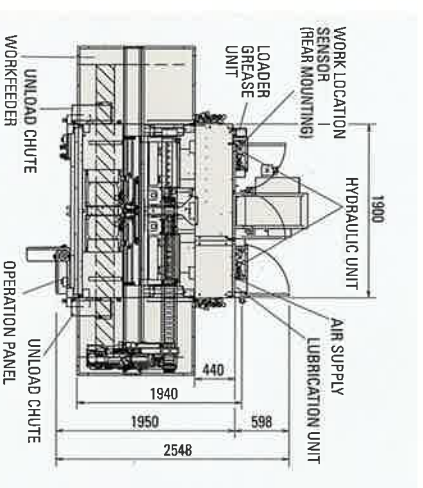
**MW200EX**

2,400 rpm spec,  
3,500 rpm spec.

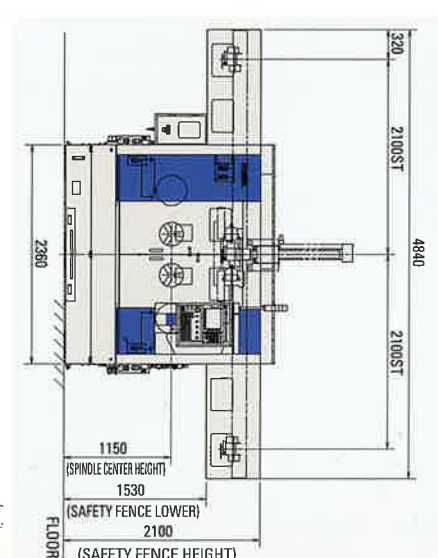
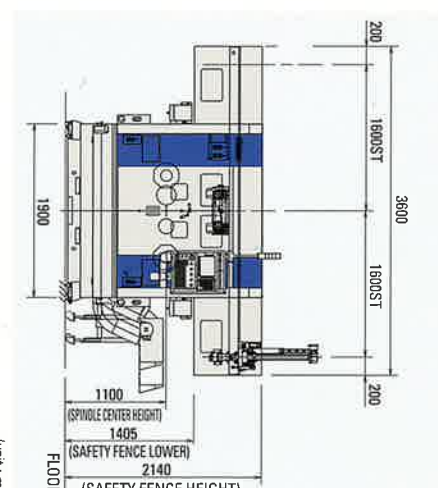
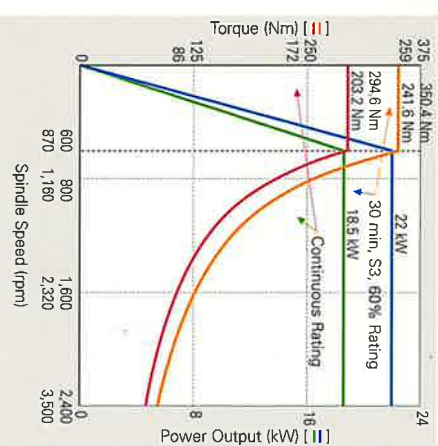
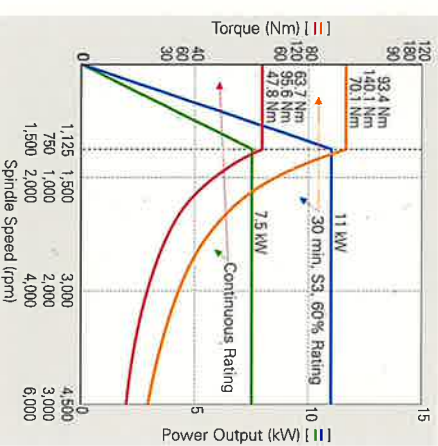
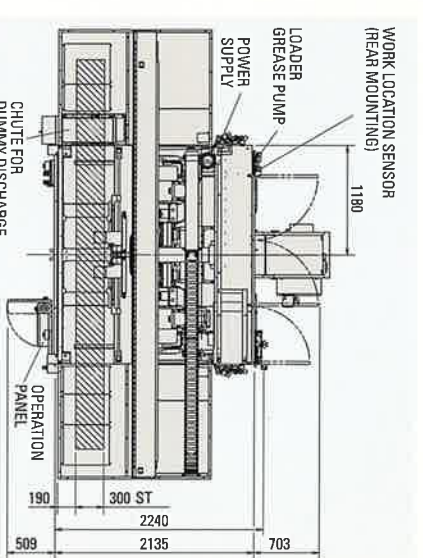


# Floor Layout

**MW120EX**



**MW200EX**



• **Safety Specification**  
For EU countries, machines are built with CE-safety conformity.

## MURATA MACHINERY, LTD. MACHINE TOOLS DIVISION



International Business Dept.  
2, Nakajima, Hishizume, Inuyama-shi, AICHI 484-8502, JAPAN  
Phone: +81-(0)568-61-3645 Fax: +81-(0)568-61-6455  
Headquarters  
Head Office: 1-1, Nakajima, Hishizume, Inuyama-shi, AICHI 484-8502, JAPAN  
Phone: +81-(0)568-61-3645 Fax: +81-(0)568-61-6455  
http://www.murataec.co.jp

**MURATA MACHINERY USA, INC**  
2120 Queen City Drive, P.O. Box 657609, Charlotte, N.C. 28206, U.S.A.  
Phone: +1-704-875-9280 Fax: +1-704-392-6541  
https://www.murataec-usa.com

## MURATA MACHINERY MEXICO S. DE R. L. DE C. V. Queretaro Machine Tools Service Center

Acceso III #42 Bodega 1, Zona Industrial Benito Juarez, 76120, Queretaro, QRO, MEXICO  
Phone: +52-(0)55-52073054  
Estrada de Santa Isabel, 3883-KM 38.5, laqueceutba-SP, CEP 08599-000, BRASIL  
Phone: +55 (0)11-4648-6222 Fax: +55 (0)11-4648-6737  
http://www.murataec.com.br e-mail: murataec@murataec.com.br

**MURATA MACHINERY EUROPE GmbH**  
Hanns-Martin-Schleyer-Strasse 3, D-47877, Willich, GERMANY  
Phone: +49-(0)2154-914-250 Fax: +49-(0)2154-914-283  
e-mail: info@muratec.de

## MURATA MACHINERY (SHANGHAI) CO., LTD

(Registry Add)  
135 Fui Te Xi Yi Rd, Wai Gao Qiao Free Trade Zone, Pudong, Shanghai, CHINA  
(Contact Add)  
150 Xin Gao Rd, Qingsu Industrial Zone, Shanghai, 201700, CHINA  
Phone: +86-(0)21-6921-2300 Fax: +86-(0)21-6921-2331  
http://www.murataec.com.cn

**MURATA (THAILAND) CO., LTD.**  
Rama 3 Road Bangpang, Yama, Bangkok 10120, THAILAND  
Phone: +66-(0)2294-7734-40 Fax: +66-(0)2294-7732

## PT. MURATA MACHINERY INDONESIA

Ruko Gyan Plaza D-4, Jl. Terusan Pasir Kijang Blok 8, Bandung 40222, INDONESIA  
Phone: +62-(0)22-6046633 Fax: +62-(0)22-6046612  
**CIKARANG BRANCH**  
The Arcadia Mataram Blok B No. 20 Lippo Arcadia Mataram Blok B No. 20 Lippo Cikarang - Cikarang Selatan Bekasi 17530 Jawa Barat, INDONESIA  
Phone: +62-(0)22-6046633 Fax: +62-(0)22-6046612

**MEIBAN ENGINEERING TECHNOLOGIES PVT. LTD.**  
[an associate company of Murata Machinery, Ltd.]  
No. 38, 7th Main, J.C. Industrial Estate, Yelachenahalli, Kanakapura Road, Bangalore - 560 082 INDIA  
Phone: +91-(0)80-2686-0800 Fax: +91-(0)80-2686-0805  
http://www.meibanengg.com e-mail: office@meibanengg.com

## MURATA MACHINERY VIETNAM CO., LTD

58 Nguyen Quynh Duc street, An Phu Ward, District 2, Ho Chi Minh City, VIETNAM  
Phone: +84-(0)28-6281-0801 Fax: +84-(0)28-6281-0800  
**MEIBAN ENGINEERING TECHNOLOGIES PVT. LTD.**  
[an associate company of Murata Machinery, Ltd.]  
No. 38, 7th Main, J.C. Industrial Estate, Yelachenahalli, Kanakapura Road, Bangalore - 560 082 INDIA  
Phone: +91-(0)80-2686-0800 Fax: +91-(0)80-2686-0805  
http://www.meibanengg.com e-mail: office@meibanengg.com

**MEIBAN ENGINEERING TECHNOLOGIES PVT. LTD.**  
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No. 38, 7th Main, J.C. Industrial Estate, Yelachenahalli, Kanakapura Road, Bangalore - 560 082 INDIA  
Phone: +91-(0)80-2686-0800 Fax: +91-(0)80-2686-0805  
http://www.meibanengg.com e-mail: office@meibanengg.com

\* The machines shown in the catalogue include some optional items and may vary in appearance from the actual machines.  
\* Specifications and designs are subject to change without prior notice.