

Muratec Full Turnkey System To Provide Optimum Automation Solutions for Global Customers

Our valued customers manufacture products in many countries and areas around the world including Japan. “Muratec’s Full Turnkey System” is not just the machines and equipment. We support our customers by making suggestions based on our experienced manufacturing skills, testing the functionality of the manufacturing lines, and performing test cuts of the parts upon request.

Work Detection System

Work Type Detection

"POKA YOKE" Upside Down Check

Post Process Gauge

Quality Control

Work Cleaning Station

Direct Moves Post Process Gauge

Parts Feeder System

Stacking Type Work-Feeder

Feed-in Conveyor

Raw Parts Handling

Feed-out Conveyor

Finished Part Stacker

Auto Tray Changer

Finished Parts Handling

MURATEC CREATES TECHNOLOGICAL WEALTH

Murata Machinery is active both domestically and internationally as a comprehensive factory automation and office automation equipment manufacturer in the fields of textile machines, logistics & automation systems, machine tools, and communication equipment. Our machine tools offer high speed and precision by implementing the latest control

technology in our turning, sheet metal, punch laser combination machines, and highly automated sheet metal FMS systems. The multitude of applications we offer allows us to respond to increasingly diverse and complex customer needs. In this way, Muratec continues successfully to contribute to the streamlining of production systems in many different fields.

MURATA MACHINERY USA, INC.(USA)

MURATA MACHINERY EUROPE GmbH (GERMANY)

Headquarters (JAPAN)

Inuyama Factory (JAPAN)

MACHINE TOOLS DIVISION

- Turning Machinery

 - CNC turret lathe
 - CNC twin-spindle lathe
 - CNC turning center
 - CNC key seating machine
 - Turning FMS and FMC
- Sheet Metal Machinery

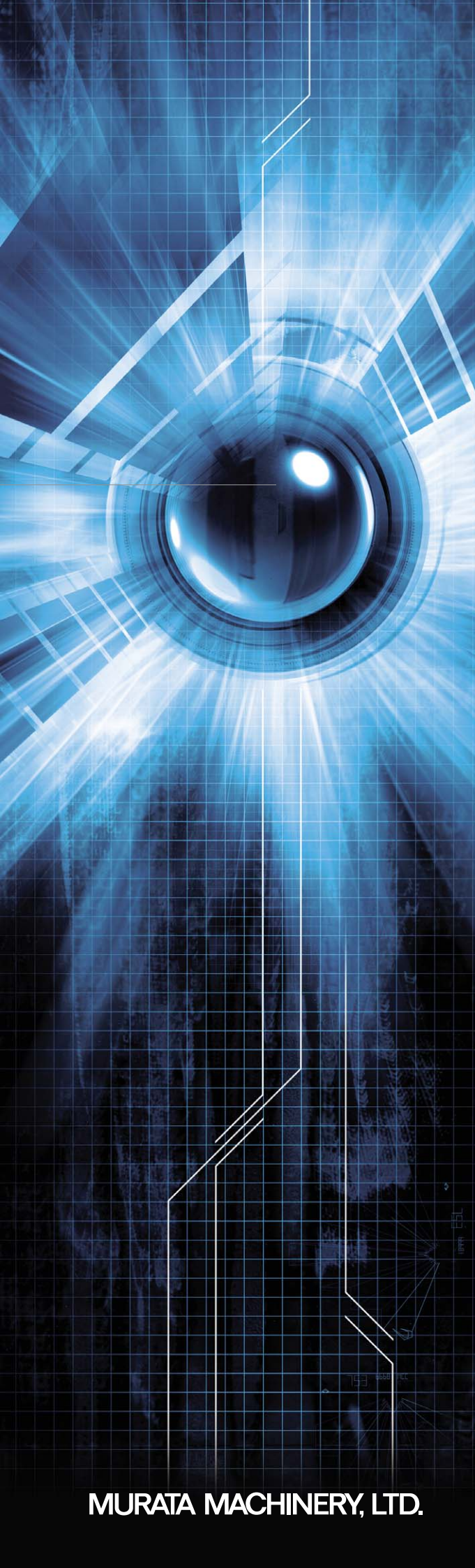
 - CNC turret punch press
 - Servo motor driven CNC turret punch press
 - CNC laser punch press
 - Press brake
 - CAD / CAM system for sheet metal working
- Sheet metal FMS
 - Bending system

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

MURATA MACHINERY, LTD. MACHINE TOOLS DIVISION



General Catalogue of CNC Turning Machines



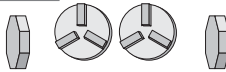
Twin Spindle CNC Chucker

MW Series

This series is highly efficient since two-sided machining is possible with just a single machine.

This series accommodates an automated line structure when combined with a gantry loader.

MW40

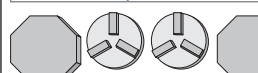


MW35 MW50 MW80



Tool plate

MW series (except MW35, 40, 50 and 80)



Turret Station



Tool Plate

Chuck size 4"
Tool plate x 2

MW35



Chuck size 4", 5"
Turret station 10 x 2

MW40



Chuck size 6"
Tool plate x 2

MW50



Chuck size 6"
Tool plate x 2

MW80



Chuck size 6"
Turret station 8 x 2

MW100



Chuck size 6", 8"
Turret station 8, 12 x 2

MW120



Chuck size 8", 10"
Turret station 10, 12 x 2

MW180



Chuck size 8", 10"
Turret station 10, 12 x 2

MW200



Chuck size 15"
Turret station 8, 12 x 2

MW400

	MW35	MW40	MW50	MW80	MW100
Maximum Chuck Size	4"	4", 5"	6"	6"	6"
Number of Turret Stations	Tool Plate x 2 Width: 250 mm	Turret Station 10 x 2	Tool Plate x 2 Width : 270 mm	Tool Plate x 2 Width : 370 mm	Turret Station 8 x 2
Spindle Drive Motor	STD : 3.7 kW/15 % x 2	STD : 3.7 kW/30 min x 2	STD : 7.5 kW/25 % x 2	STD : 7.5 kW/25 % x 2	STD : 5.5 kW/30 min
Spindle Speed Range	6,000 min ⁻¹	8,000 min ⁻¹	6,000 min ⁻¹	6,000 min ⁻¹	3,000 min ⁻¹ , 4,500 min ⁻¹ 6,000 min ⁻¹
Live Tool Drive Motor	—	1.0 kW(2.0 N·m/continuous) x 2	—	—	—
Live Tool Maximum Speed	—	6,000 min ⁻¹	—	—	—
Footprint	W 980 mm x D 2,416 mm	W1,590 mm x D2,140 mm	W1,220 mm x D1,990 mm	W1,770 mm x D2,090 mm	W1,550 mm x D1,650 mm
Total Weight	3,000 kg	3,500 kg	3,500 kg	4,000 kg	3,500 kg

	MW120	MW180	MW200	MW400
Maximum Chuck Size	6", 8"	8", 10"	8", 10"	15"
Number of Turret Stations	8 x 2 12 x 2	10 x 2 12 x 2	10 x 2 12 x 2	8 x 2 12 x 2
Spindle Drive Motor	STD : 7.5 kW/30 min x 2 OP : 11 kW/30 min x 2	STD : 11 kW/30 min x 2 OP : 15 kW/30 min x 2	STD : 15 kW/30 min x 2 OP : 22 kW/30 min x 2	STD : 22 kW/30 min x 2 OP : 30 kW/30 min x 2
Spindle Speed Range	3,000 min ⁻¹ , 4,500 min ⁻¹ 6,000 min ⁻¹ (7.5 kW)	2,400 min ⁻¹ , 3,500 min ⁻¹	2,400 min ⁻¹ , 3,500 min ⁻¹	22 kW: 3,000 min ⁻¹ 30 kW: 3,500 min ⁻¹
Live Tool Drive Motor	—	—	—	7 kW(30 N·m/continuous) x 2
Live Tool Maximum Speed	—	—	—	2,000 min ⁻¹
Footprint	W1,900 mm x D1,930 mm	W2,360 mm x D2,240 mm	W2,420 mm x D2,240 mm	W3,490 mm x D2,550 mm
Total Weight	4,500 kg	7,000 kg	7,000 kg	13,000 kg

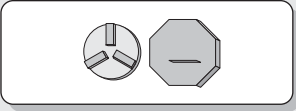
STD : Standard OP : Option

Single Spindle CNC Chucker

MS Series

This series provides cost-effective solutions for odd-numbered operations.

This series has the same structure and operations as the MW series.



Chuck size 6"
Turret station 8
MS50



Chuck size 6", 8"
Turret station 8, 12
MS60



Chuck size 8", 10"
Turret station 10, 12
MS100



	MS20	MS50	MS60	MS90	MS100
Maximum Chuck Size	4", 5"	6"	6", 8"	8", 10"	8" 10"
Number of Turret Stations	10	8	8 12	10 12	10 12
Spindle Drive Motor	STD : 3.7 kW/30 min	STD : 5.5 kw/30 min	STD : 7.5 kW/30 min OP : 11 kW/30 min	STD : 11 kW/30 min OP : 15 kW/30 min	STD : 15 kW/30 min OP : 22 kW/30 min
Spindle Speed Range	8,000 min ⁻¹	3,000 min ⁻¹ , 4,500 min ⁻¹ 6,000 min ⁻¹	3,000 min ⁻¹ , 4,500 min ⁻¹ 6,000 min ⁻¹ (7.5 kW)	2,400 min ⁻¹ , 3,500 min ⁻¹	2,400 min ⁻¹ , 3,500 min ⁻¹
Live Tool Drive Motor	1.0 kW(2.0 N·m/continuous)	—	—	—	—
Live Tool Maximum Speed	6,000 min ⁻¹	—	—	—	—
Footprint	W990 mm x D2,140 mm	W980 mm x D1,650 mm	W1,080 mm x D1,910 mm	W1,320 mm x D2,220 mm	W1,320 mm x D2,220 mm
Total Weight	2,500 kg	2,000 kg	2,500 kg	3,800 kg	3,800 kg

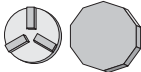
CNC Turning Center

MD Series

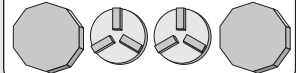
This series is perfect for multi-process integration at the time of mass production machining.

This series accommodates an automated line structure when combined with a gantry loader.

MD60/MD100



MD120/MD200



Chuck size 6", 8"
Turret station 10
MD60



Chuck size 6", 8"
Turret station 10 x 2
MD120



Chuck size 8", 10"
Turret station 10 x 2
MD200



Chuck size 8", 10"
Turret station 10
MD100



	MD60	MD100	MD120	MD180	MD200
Maximum Chuck Size	6", 8"	8", 10"	6", 8"	8", 10"	8", 10"
Number of Turret Stations	10	10	10 x 2	10 x 2	10 x 2
Spindle Drive Motor	STD : 7.5 kW/30 min OP : 11 kW/30 min	STD : 11 kW/30 min OP : 22 kW/30 min	STD : 7.5 kW/30 min x 2 OP : 11 kW/30 min x 2	STD : 11 kW/30 min x 2 OP : 15 kW/30 min x 2	STD : 11 kW/30 min x 2 OP:15 kW/30 min x 2 OP : 22 kW/30 min x 2
Spindle Speed Range	3,000 min ⁻¹ 4,500 min ⁻¹ 6,000 min ⁻¹	2,000 min ⁻¹ (11 kW) OP: 2,400 min ⁻¹ (22 kW) OP: 3,500 min ⁻¹ (22 kW)	3,000 min ⁻¹ (7.5 kW) 4,500 min ⁻¹ 6,000 min ⁻¹	2000 min ⁻¹ (11kW) 2400 min ⁻¹ 3500 min ⁻¹	2000 min ⁻¹ (11kW) 2400 min ⁻¹ 3500 min ⁻¹
Live Tool Drive Motor	2.5 kW (8 N·m/continuous)	4.0 kW (22 N·m/continuous)	2.5 kW (8 N·m/continuous) x 2	4.0 kW (22 N·m/continuous) x 2	4.0 kW (22 N·m/continuous) x 2
Live Tool Maximum Speed	4,000 min ⁻¹	3,000 min ⁻¹	4,000 min ⁻¹	3,000 min ⁻¹	3,000 min ⁻¹
Footprint	W1,080 mm x D1,910 mm	W1,360 mm x D2,220 mm	W1,900 mm x D1,930 mm	W2,360 mm x D2,240 mm	W2,360 mm x D2,240 mm
Total Weight	2,500 kg	3,800 kg	4,500 kg	7,000 kg	7,000 kg

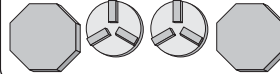
Twin Spindle CNC Chucker
Single Spindle CNC Chucker

EX Series

High Rigidity & High Accuracy for Hard Cutting Conditions
New & Improved EX Series

Newly-Improved MW120EX with
. New High-speed Gantry Loader
. Idle Time Reduction (Option)

EX series (MW)



EX series (MS)



Chuck size 6", 8"
Turret station 8, 12 x 2
MW120EX



Chuck size 8", 10"
Turret station 10, 12 x 2
MW200EX



	MW120EX	MW200EX	MS60EX
Maximum Chuck Size	6", 8"	8", 10"	6", 8"
Number of Turret Stations	8 x 2 12 x 2	10 x 2 12 x 2	8 12
Spindle Drive Motor	STD : 7.5 kW/30 min x 2 OP : 11 kW/30 min x 2	STD : 15 kW/30 min x 2 OP : 22 kW/30 min x 2	STD : 7.5 kW/30 min OP : 11 kW/30 min
Spindle Speed Range	3,000 min ⁻¹ , 4,500 min ⁻¹ 6,000 min ⁻¹ (7.5 kW)	2,400 min ⁻¹ , 3,500 min ⁻¹	3,000 min ⁻¹ , 4,500 min ⁻¹ 6,000 min ⁻¹ (7.5 kW)
Footprint	W1,900 mm x D1,940 mm	W2,360 mm x D2,240 mm	W1,110 mm x D1,930 mm
Total Weight	4,500 kg	7,000 kg	2,500 kg

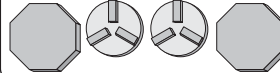
STD : Standard OP : Option

Twin Spindle CNC Chucker

II Series

- Enhanced Structure for Rigidity and Following Capability
- Enhanced Structure for Rigidity and Following Capability
- Live Tool Speed 6,000 min⁻¹ (MD120 II)

II series (MW)



II series (MW)



Chuck size 6", 8"
Turret station 8, 12 x 2
MW120II

Chuck size 6", 8"
Turret station 10 x 2
MD120II



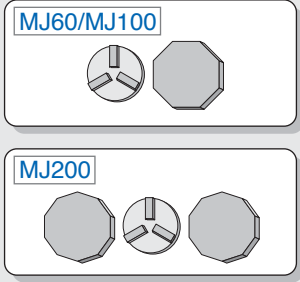
	MW120II	MD120II
Maximum Chuck Size	6", 8"	6", 8"
Number of Turret Stations	8 x 2 12 x 2	10 x 2
Spindle Drive Motor	STD:7.5 kW/30 min x 2 OP:11 kW/30 min x 2	STD:7.5 kW/30 min OP:11 kW/30 min x 2
Spindle Speed Range	3,000 min ⁻¹ , 4,500 min ⁻¹ , 6,000 min ⁻¹ (7.5 kW)	3,000 min ⁻¹ , 4,500 min ⁻¹ , 6,000 min ⁻¹
Footprint	W1,900 mm x D1,940 mm	W1,900 mm x D1,940 mm
Total Weight	4,200 kg	4,400 kg

STD : Standard OP : Option

CNC Turning Machine with tailstock

MJ Series

This series allows for automated shaft work line structure when combined with tailstock and gantry loader.



Chuck size 6", 8"
Turret station 8
MJ60



Chuck size 8", 10"
Turret station 10 x 2
MJ200



Chuck size 8", 10"
Turret station 10, 12
MJ100

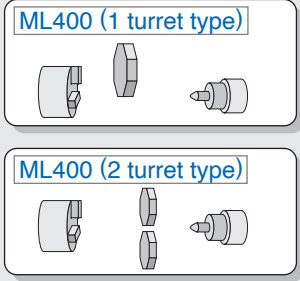
	MJ60	MJ100	MJ200
Maximum Chuck Size	6", 8"	8", 10"	8", 10"
Number of Turret Stations	8	10 12	10 x 2
Spindle Drive Motor	STD : 7.5 kW/30 min OP : 11 kW/30 min	STD : 15 kW/30 min OP : 22 kW/30 min	STD : 22 kW/30 min
Spindle Speed Range	3,000 min ⁻¹ , 4,500 min ⁻¹ 6,000 min ⁻¹ (7.5 kW)	2,400 min ⁻¹ , 3,500 min ⁻¹	2,400 min ⁻¹ , 3,500 min ⁻¹
Tailstock (Rolling Center)	MT4	MT5	MT5
Footprint	W1,180 mm x D1,920 mm	W1,720 mm x D2,260 mm	W1,980 mm x D2,300 mm
Total Weight	3,500 kg	5,000 kg	7,000 kg

CNC Shaft Turning Machine

ML Series

With a machine width of 1700 mm, the ML Series is the smallest size of its class.

With servo tailstock and roller support, retooling time is significantly reduced.



Chuck size 6", 8"
Turret station 6
ML400
(Manual type)



ML400
(Gantry loader type)



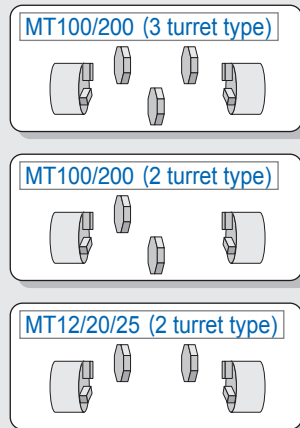
	ML400 (1 turret type)	ML400 (1 turret, Long type)	ML400 (2 turret type)	ML400 (2 turret, Long type)
Maximum Chuck Size	6", 8"	6", 8"	6", 8"	6", 8"
Maximum Workpiece Size	ø 250 mm x L430 mm	ø 250 mm x L600 mm	ø 250 mm x L430 mm	ø 250 mm x L600 mm
Number of Turret Stations	6	6	6 x 2	6 x 2
Spindle Drive Motor	STD : 7.5 kW/30 min OP : 11 kW/30 min	STD : 11 kW/30 min OP : 15 kW/30 min	STD : 11 kW/30 min OP : 15 kW/30 min	STD : 11 kW/30 min OP : 15 kW/30 min
Spindle Speed Range	3,000 min ⁻¹ , 4,500 min ⁻¹	3,000 min ⁻¹ , 4,500 min ⁻¹	3,000 min ⁻¹ , 4,500 min ⁻¹	3,000 min ⁻¹ , 4,500 min ⁻¹
Live Tool Drive Motor	0.75 kW (3.5N·m/continuous)	0.75 kW (3.5N·m/continuous)	0.75 kW (3.5N·m/continuous) x 2	0.75 kW (3.5N·m/continuous) x 2
Live Tool Maximum Speed	3,500 min ⁻¹	3,500 min ⁻¹	3,500 min ⁻¹	3,500 min ⁻¹
Tailstock (Rolling Center)	STD : MT4 OP : MT5	STD : MT4 OP : MT5	STD : MT4 OP : MT5	STD : MT4 OP : MT5
Footprint	W1,700 mm x D2,070 mm	W2,140 mm x D2,070 mm	W1,700 mm x D2,070 mm	W2,140 mm x D2,070 mm
Total Weight	(Without loader) (With loader)	4,400 kg (with Roller Support) 5,600 kg (with Roller Support)	5,500 kg (with Roller Support) 6,700 kg (with Roller Support)	4,400 kg 5,600 kg

In-line Opposed Twin Spindle CNC Turning Machine

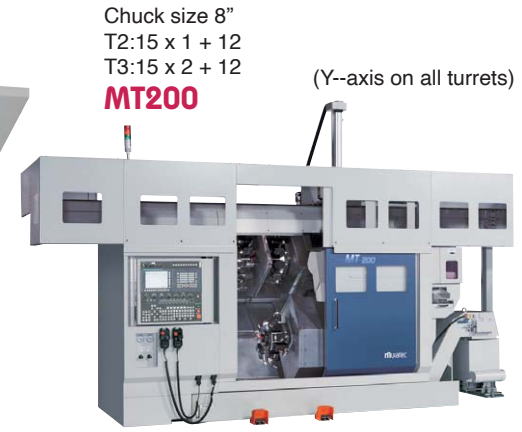
MT Series

Complex process integration is available by incorporating milling, C-axis and Y-axis in both right and left turrets.

These machine systems allow both bar work and chuck work.



Chuck size 6"
T2:15 x 2
T3:15 x 3
MT100



Chuck size 8"
T2:15 x 1 + 12
T3:15 x 2 + 12
MT200



Chuck size 6", 8"
Turret station 15 x 2
MT12



Chuck size 8", 10"
Turret station 15 x 2
MT20



Chuck size 10"
Turret station 15 x 2
MT25
(Optional Y-axis)

	MT100	MT200
Maximum Chuck Size	6"	8"
Number of Turret Stations	2 turret type 15 x 2 3 turret type 15 x 3	2 turret type:15 x 1 + 12 3 turret type:15 x 2 + 12
Maximum Bar Workpiecesize	STD : ø 51 mm	STD: ø 55 mm OP : ø 65 mm, ø 80 mm (Left Spindle)
Spindle Drive Motor	STD : 11 kW/30 min x 2	STD : 15 kW/30 min x 2
Spindle Speed Range	STD: 5,000 min ⁻¹ OP : 6,000 min ⁻¹	STD: 5,000 min ⁻¹ OP : 4,000 min ⁻¹ (ø65 mm) OP : 3,500 min ⁻¹ (ø80 mm)
Live Tool Drive Motor	2.2 kW 8.0 N·m/continuous	4.5 kW 18.0 N·m/continuous
Live Tool Maximum Speed	6,000 min ⁻¹	6,000 min ⁻¹
Footprint	W 3,100 mm x D 2,030 mm	W3,560 mm x D2,040 mm
Total Weight	(without loader) (with loader)	11,000 kg (3 turret type, Manual type) 12,000 kg (3 turret type, Gantry loader type)

	MT12	MT20	MT25
Maximum Chuck Size	6", 8"	8", 10"	10"
Number of Turret Stations	15 x 2	15 x 2	15 x 2
Maximum Bar Workpiecesize	ø 51 mm	ø 65 mm	ø 65 mm
Spindle Drive Motor	STD : 7.5 kW/30 min x 2 OP : 11 kW/30 min x 2	STD : 15 kW/30 min x 2 STD : 18.5 kW/30 min x 2 (Left spindle)	STD : 15 kW/30 min x 2 STD : 22 kW/30 min (Left spindle)
Spindle Speed Range	STD: 4,500 min ⁻¹ OP : 3,000 min ⁻¹ , 6,000 min ⁻¹	STD : 4,200 min ⁻¹	STD : 4,000 min ⁻¹ (Left spindle not at 22 kW) OP : 2,500 min ⁻¹ , 3,500 min ⁻¹
Live Tool Drive Motor	2.7 kW (12 N·m/continuous) x 2	3.0 kW (12 N·m/continuous) x 2	4.0 kW (22 N·m/continuous) x 2
Live Tool Maximum Speed	4,000 min ⁻¹	3,000 min ⁻¹	3,000 min ⁻¹
Footprint	W2,700 mm x D1,850 mm	W2,980 mm x D2,100 mm	W3,700 mm x D2,250 mm
Total Weight	(without loader) (with loader)	9,000 kg 11,000 kg	10,000 kg 12,000 kg