

Enhanced Productivity with Newly-Developed Gantry Loaders and Optional Idle Time Reduction!



New High-speed Gantry Loader

Two Types of Gantry Loaders to Select from,
Depending on Needs and Requirements

Lighter and Faster

Lighter

41%

Faster

X-axis **50%**, Y-axis **46%**, Z-axis **86%**

*Comparison of conventionally ordinary loader with newly CFRP-made.

Lighter and Structurally-improved Gantry Loaders Lead to Higher Speed

Loader type		Ordinary	New High-Speed (Aluminum -made)	New Super -High Speed (CFRP-made)
Loader Weight (kg)		100	64	58
Speed (m/min.)	X-axis	160	200	240
	Y-axis	120	135	175
	Z-axis	35	45	65
Loadable Workpiece Weight (kg)		3.0 x 2 sets		
Loadable Workpiece Size (mm)		φ 120 x 80		

Optional Package for Idle Time Reduction

Each of These Reductions Contributes to Cutting
Down on Total Idle Time (no cutting time)

Spindle Acceleration/deceleration

1.0 secs. Shorter

Turret Un-clamping Time

0.4 secs. Shorter

Chuck Opening-closing Time

1.0 secs. Shorter

Shutter Opening-closing Time

1.1 secs. Shorter

Loading/Unloading Time

1.5 secs. Shorter

Total 3.3 secs. Cut!

*Not equal to the sum due to respective time-savings being
simultaneously active.

*Comparison with our conventional models.

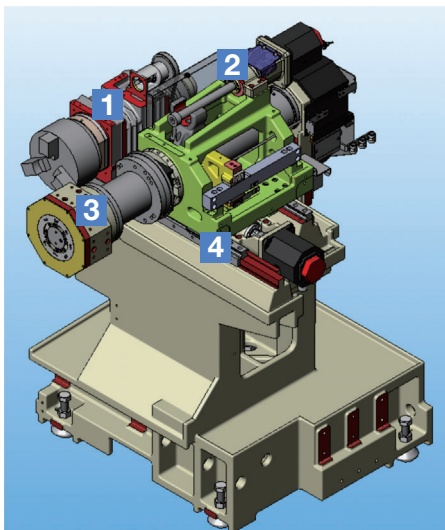
Newly-Developed Turnaround Unit (for consolidated machines)

With Half the Length of Conventional Turnaround
Unit, New Type is a Great Space-Saver When
Two Machines are Combined.

MURATA MACHINERY, LTD.

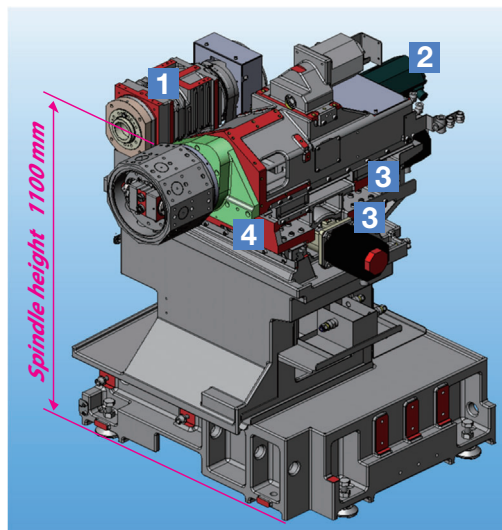
Basic Structure and Improvements

MW120II



- 1 High Rigidity** Enhanced Headstock Shape
- 2 High Following Capability** Well Relocated Z-axis Ball Screw and Turret Bar
- 3 High Rigidity and High Following Capability** Improved Turret Shape
- 4 High Rigidity** Enhanced X-axis Linear Guide

MD120II



- 1 High Rigidity** Enhanced Headstock Shape
- 2 Improved Live Tool Capability** Renewed Live Tool Motor
- 3 High Rigidity** Enhanced Linear Guide for X and Z-axis.
- 4 Production Line Convenience** Spindle Height in Line with Those of Other MW120 Group Models.

Machine Specifications

	MW120II	MD120II
Chuck Size	6 inch, 8 inch	6 inch, 8 inch
Number of Turret Stations	Right and Left each 8 stations Right and Left each 12 stations	Right and Left each 10 stations
Spindle Drive Motor	7.5 kW / 30 min × 2 OP : 11 kW / 30 min × 2	7.5 kW / 30 min × 2 OP : 11 kW / 30 min × 2
Spindle Speed	3,000 rpm 4,500 rpm 6,000 rpm (7.5 kW)	3,000 rpm 4,500 rpm 6,000 rpm
Spec. of Cutting Axes	X-axis	X-axis
(stroke/max. speed)	130 mm (24 m/min)	125 mm (24 m/min)
	Z-axis	Z-axis
	145 mm (24 m/min)	145 mm (24 m/min)

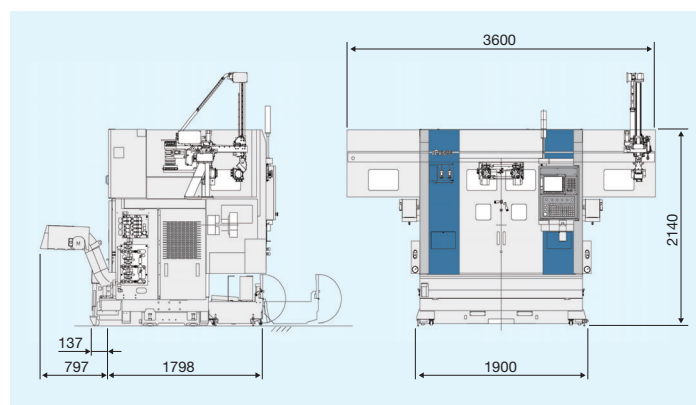
Live Tooling (Exclusively for MD120II)

Live Tool Drive Motor	2.5 kW (8 N·m / continuous) / 4,000 rpm
Maximum Speed	2.2 kW (8 N·m / continuous) / 6,000 rpm
Tool Shank Size	ø 16 mm
Spindle Indexing	C-axis Control
	Indexing Accuracy : ±0.015°
	Max. Speed
	200 rpm
	Least Command Increment
	0.001°
Spindle Brake	129 N·m
	3.5 MPa

• Safety Specification

For EU countries, machines are built with CE-safety conformity.

Floor Plan



* 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.

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