

Solution for Mass Production of Small High-Precision Parts

***Workpiece size less than 50mm,
Tolerance requirement $5\mu\text{m} \sim 10\mu\text{m}$***



Part dimension variation over time : Less than **$5\mu\text{m}$**
 Part dimension variation at short time stop : **$2\mu\text{m}$** (After 30min stop)
 Roundness : Less than **$0.4\mu\text{m}$**
 Surface finish : **$1.0\mu\text{m}$** (Ry)
 *Above results are based upon extensive tests under our prescribed conditions.

The most suitable machine for automated line!!

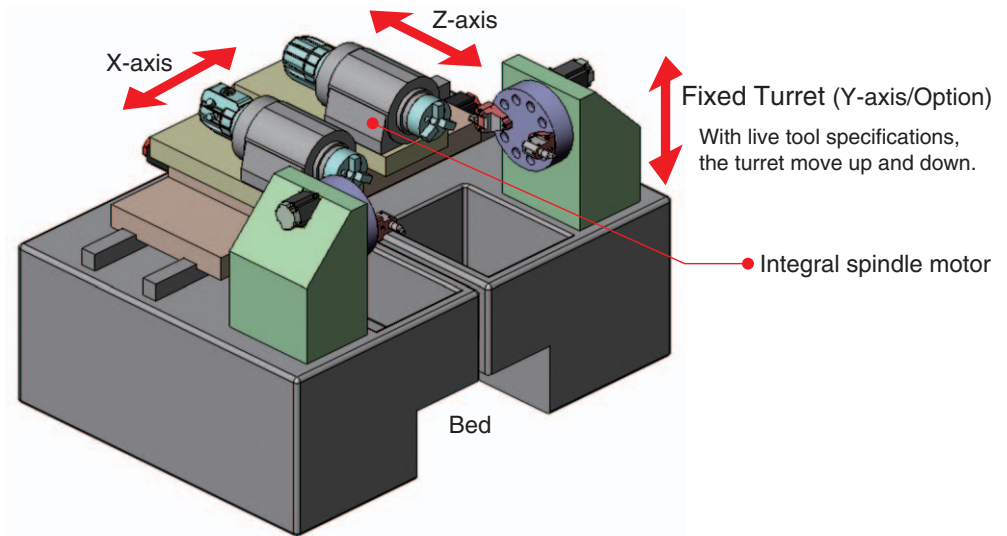
- MW40 achieve less than $5\mu\text{m}$ of thermal displacement even with the indexing style turrets.
- An integral, intelligent 3-axis CNC gantry loader offers versatile automation.

- Live tool drive and Y-axis function is available as an option.
MW40 is ideal for process integration of small parts production.

MURATA MACHINERY, LTD.

Separate bed constructions eliminate the transfer of harmonic vibrations.

Completely separated bed construction minimizes the transfer of harmonic vibrations from the opposite spindle. The rigidity of the turret design of the MW40 machine enables processing of high precision parts.



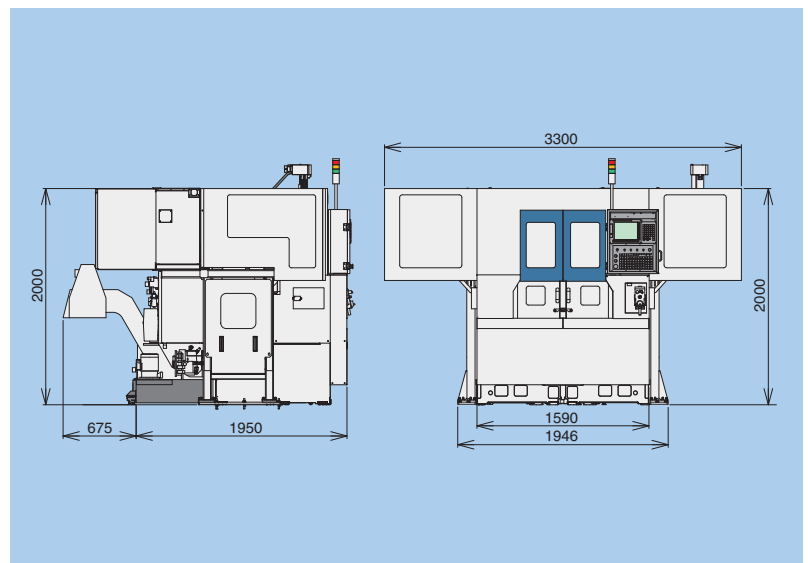
Specifications

Workpiece size	ø50 mm × 90L mm
Chuck size	4inch (ø110 mm) 5inch (ø135 mm)
Spindle drive motor	3.7 kW/30min (2.2 kW/continuous)
Spindle speed range	8,000 rpm, (Option:10,000 mm)
Number of turret stations	Turret 10 x 2
Spec. of axes	X-axis 155 mm (15 m/min) Z-axis 170 mm (15 m/min)
Use tool	O.D tool □16 mm, □20 mm I.D tool ø25 mm
Foot print	1,590 mm x 1,950 mm
Total weight	3,500 kg

Live tooling specifications (Option)

Live tool drive motor	1.4 kW / 5,000 rpm (Max. torque 2.8 Nm)
Maximum speed	6,000 rpm
Maximum tool shank size	Milling ø7 Tapping M6
Y-axis stroke	±25mm (12m/min)

Floor Plan



EXTERNAL COLOR  light gray/gray blue
Other colors available on special order.

* Machine appearance may differ to that shown in the catalogue pictures
* All specifications are subject to change without advanced notice

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