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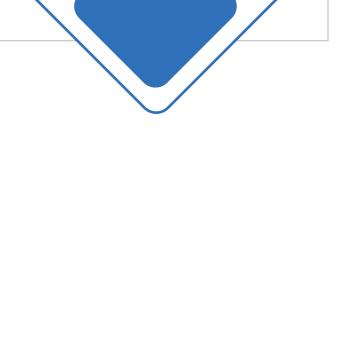


022-D2-00-024



HORIZONTAL MACHINING CENTER

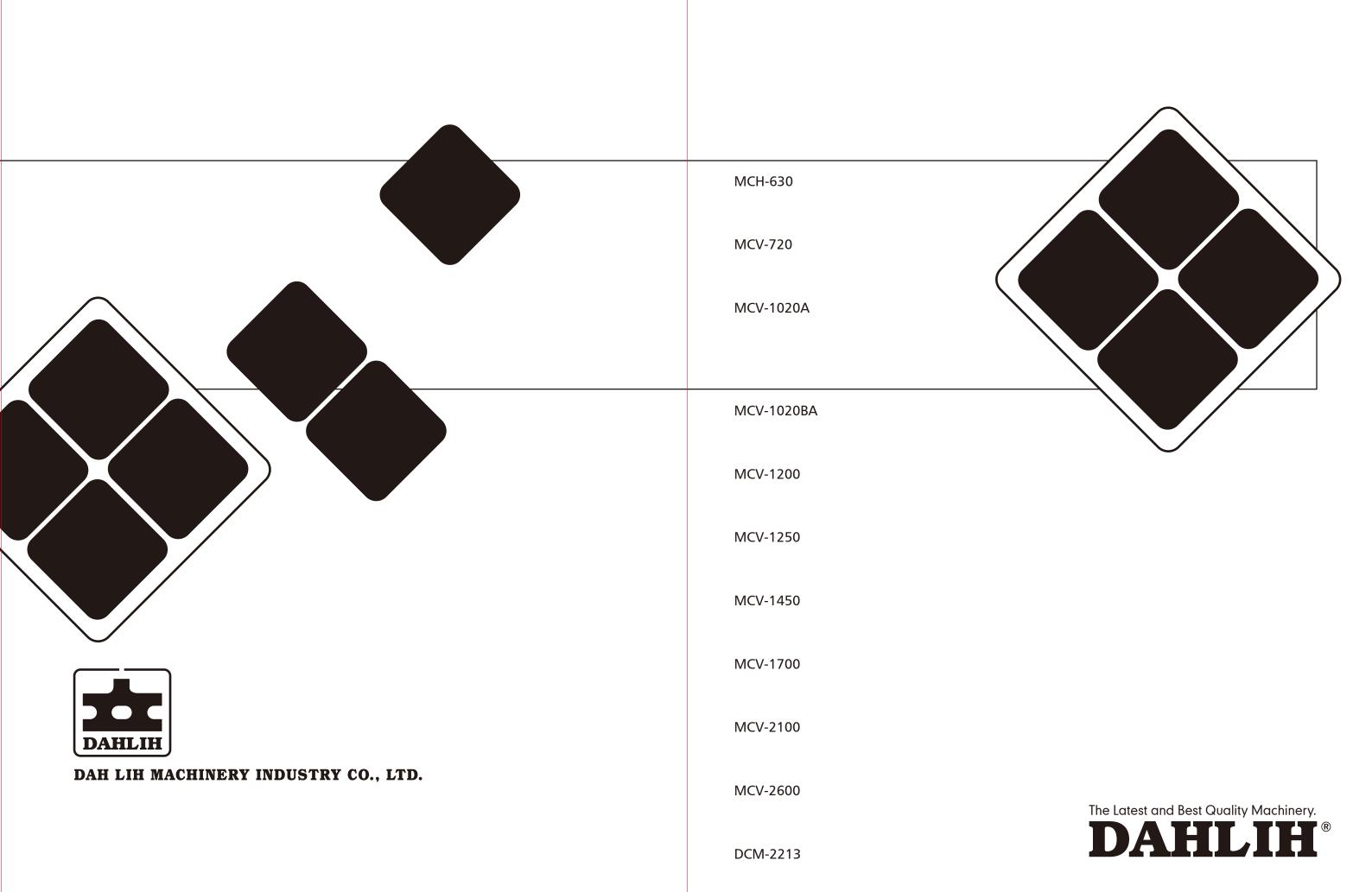
MCH-1250



The Latest and Best Quality Machinery.

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Massive Structure Design

With the unique structure design, the Dah Lih Mch-1250 Horizontal Machining Center presents extraordinary rigidity, stability and dampening capability in heavy cutting operations.



Traveling column

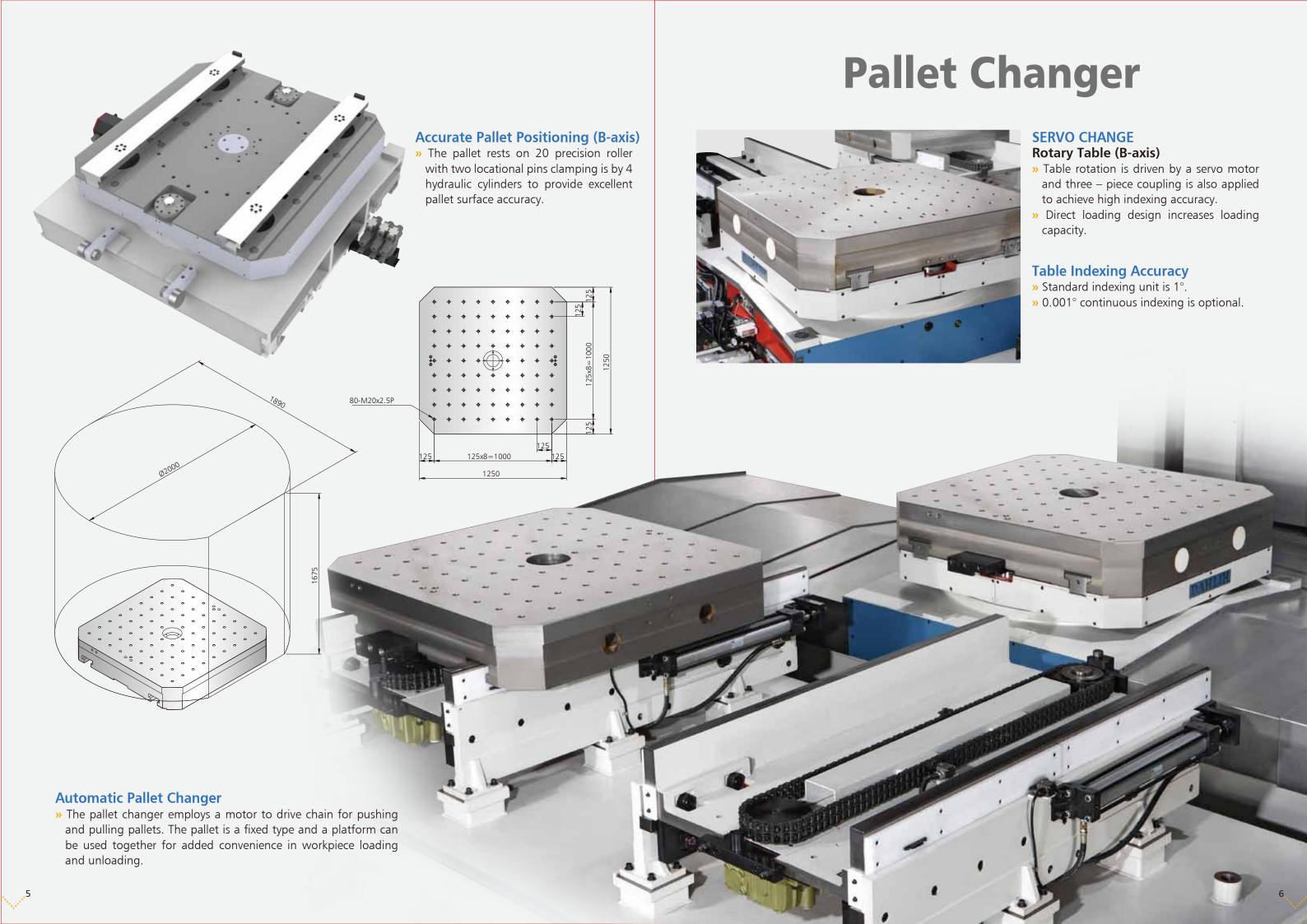
Box Ways on Three Axes

Pretensioned Ball Screws

enhance its unique stability during cutting.

» The column is a double – wall construction, which combined with large span of box ways to

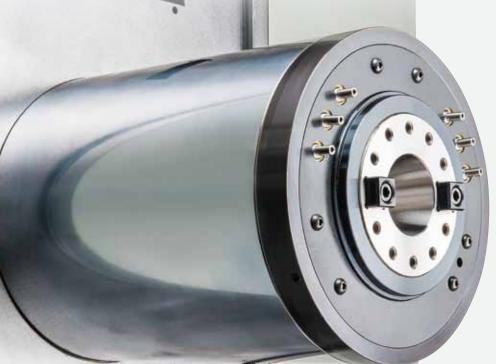
» Box ways in X, Y, Z-axis provide a firm support for the structure while reducing vibration to a



Gearbox Driven Spindle

3,500 RPM Gear driven Spindle

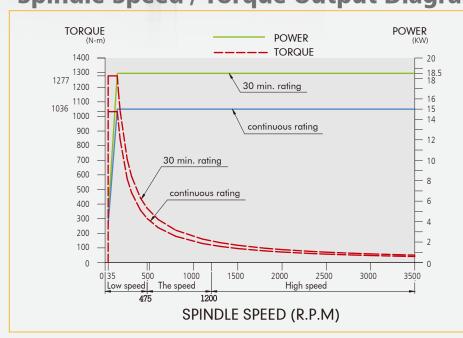
- » The spindle is supported by Ø120mm NN type double-row ball bearing with gear drive, and provides 3-step speed change. It produces great torque output of 132.7 kgf-m at 135rpm, making the machine suitable for
- » The spindle and gears are forced cooling to reduce thermal growth while ensuring accuracy.

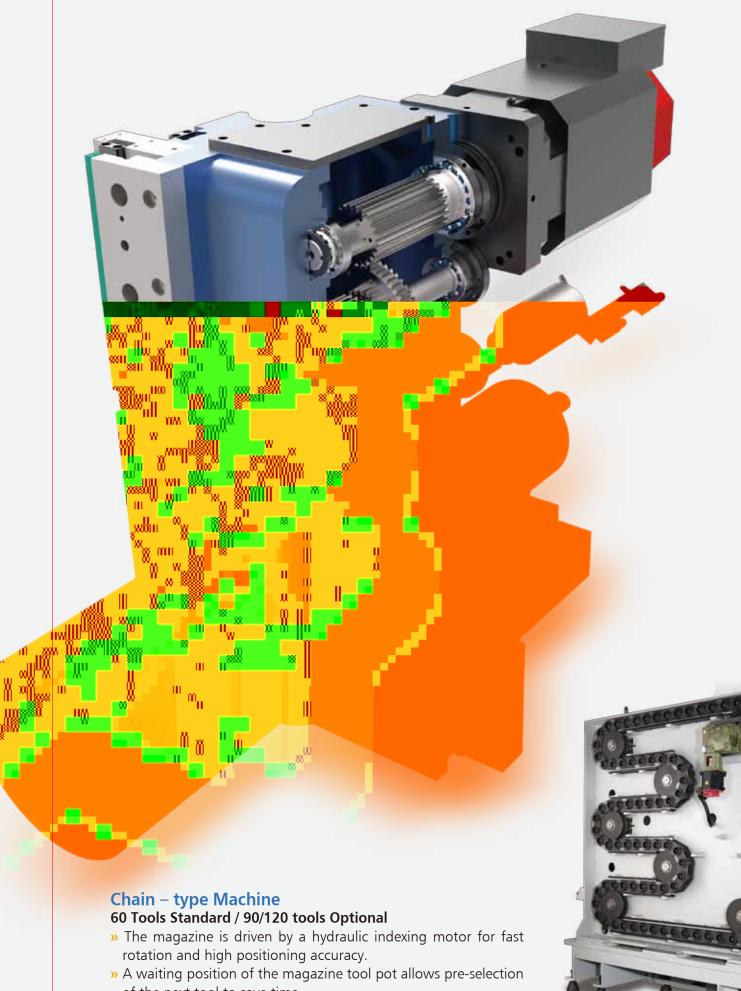


Rigid Spindle Head

- » The contact between the spindle head and the column slidway ways are 6 surfaces. This feature enables the spindle head to maintain maximum stability in heavy cutting.
- » The spindle head is a symmetrical design to reduce thermal deformation to a minimum.

Spindle Speed / Torque Output Diagram





- of the next tool to save time.
- » The tool magazine is separately mounted from the machining area to prevent contamination from chip or coolant.

Ultimate Accuracy Through Rigorous Inspection



Laser interferometer is used for inspecting indexing degree

SPECIFICATIONS, ACCESSORIES AND DIMENSIONS

SPECIFICATIONS

MODEL	MCH-1250
TABLE	
Pallet dimensions	1250 x 1250 mm
Min. indexing angle	5°
Dist. From table to floor	1300 mm
Max. table load	4000 kgw
TRAVEL	
X-axis travel	1800 mm
Y-axis travel	1500 mm
Z-axis travel	1300 mm
Dist. from spindle nose to table surface	350 \sim 1650 mm
Dist. from spindle center to table surface	75 \sim 1575 mm
SPINDLE	
Spindle nose taper	N.T. 50
Spindle speed	3500 r.p.m
Spindle speed range	3-step
FEED	
X, Y, Z-axis cutting feed rates	1~10000 mm/min
X, Y, Z-axis rapid traverse	15 m/min
Min. input increment	0.001 mm
ATC (Automacic Tool Changer)	
Tool storage capacity	60 (90/120) tools
Tool shank type	BT50
Max. tool diameter x length	Ø110 × 500 mm
Max. tool weight	20 kgw
Max. tool dia. (without adjacent tool)	Ø245 mm
Tool selection	Random
MOTORS	
Spindle motor (30 min. / cont.)	18.5 kw (25 hp) / 15 kw (20 hp)
X-axis servo motor	3 kw + 3kw
Y-axis servo motor	3 kw + 3kw
Z-axis servo motor	3 kw + 3kw
INSTALLATION REQUIREMENT	
Space occupied	$10600 \times 6700 \times 4575 \text{ mm}$
Machine weight	40,000 kg

Specifications are subject to change without prior notice.

» STANDARD

- 1. Spindle cooling device
- 2. Heat exchange
- 3. Automatic Pallet Change
- 4. Removable type manual pulse generator
- 5. Spiral type chip conveyors
- 6. Automatic power cut-off device
- 7. Call light
- 8. Work light
- 9. Tool box
- 10. Flat type chip conveyor
- 11. Linear scales on X.Y.Z axes

» OPTIONS

- 1. ATC tool storage: 90 / 120 tools
- 2. Coolant through spindle device
- 3. Automatic tool length measuring device
- 4. Automatic centering device
- 5. 0.001° continuous indexing (B-axis)

MACHINE DIMENSIONS

4170
2050 1420
700 8

990
4070
6000
350
6700

Laser interferometer is used for inspecting linear position accuracy