

MCH-630

MCV-720

HORIZONTAL MACHINING CENTER

MCV-1020A

MCH-630

MCV-1020BA

MCV-1250

MCV-1450

VICV-1700

VICV-2100

MCV-2600

DCM-2213



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The Latest and Best Quality Machinery.

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Rugged! Stable! Precision-built for Years of Accurate Machining Work!

The Dah Lih MCH-630 Horizontal Machining Center will add speed and efficiency to your machining operations. With its outstanding features, the MCH-630 will help you get higher productivity.

- » Traveling column structure for increasing efficiency.
- » T-Shaped base features outstanding structural stability.
- » Extra wide box ways on three axes upgrades machining stability.
- » Swing type APC permits fast workpiece change.
- » Choice of 60 or 90 tool chain-type magazine.
- » Gear-drive spindle makes the machine ideal for heavy cutting.
- » Linear scales on 3 axes are standard.







Rugged Design, Precision Performance.



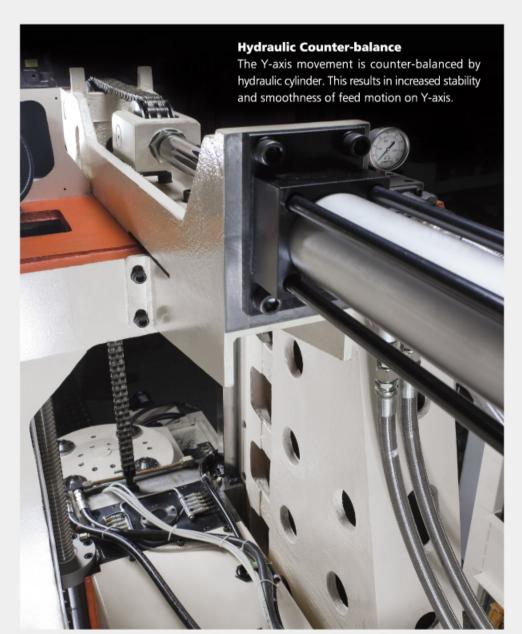
Alloy Steel Covered Three Axes Slideways

All 3 axes slideways are encased in alloy steel for increased long term machine performance. Benefits include Improved hardness, wear resistance and slideway dampening. (Optional)



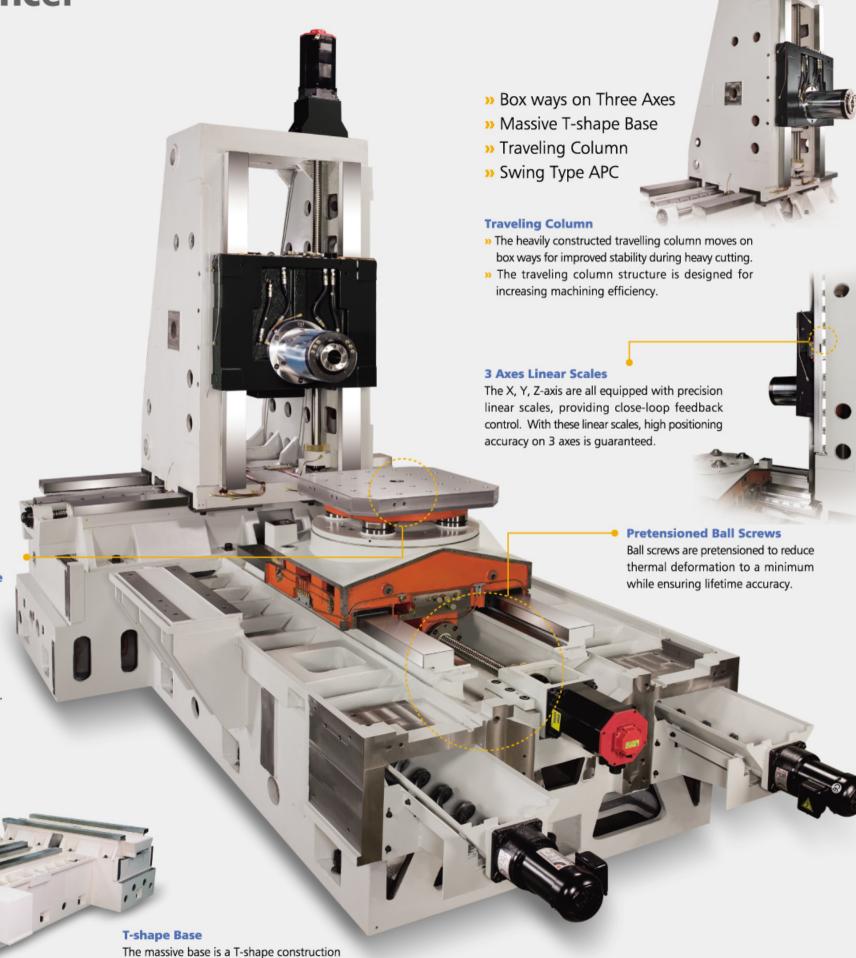
Box Ways on Three Axes

Extra wide box ways on three axes are designed for firm support and reducing vibration to a minimum. This makes the machine ideal for heavy cutting.



0.001° Extra High Accuracy Rotary Table (optional)

Designed for extra high machining requirement, the 0.001° Continuous rotary table features minimum backlash and high positioning accuracy.



combined with triangular rib reinforcement, exhibiting exceptionally high rigidity.

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Gearbox Driven Spindle

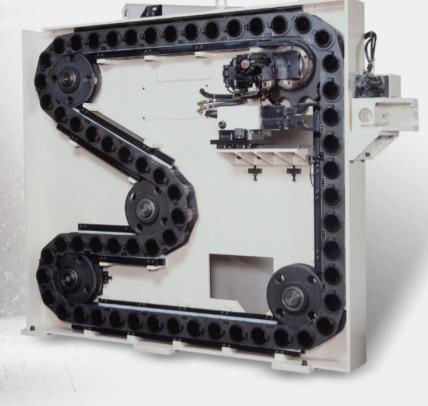
Separately Mounted Chain-type Magazine

Rigid Spindle Head

- » The spindle head is specially designed with 8 faces that contract with the column slideways. The result is improved stability during heavy cutting.
- » The spindle head is a symmetrical design. This keeps thermal deformation to a minimum.

6000 RPM, Gearbox Driven Spindle

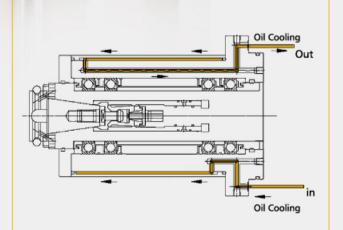
- » Spindle speeds are transmitted through a 2 speed gearbox. The gearbox provides full power from
- » The spindle and gears are forced cooling to reduce thermal growth while ensuring accuracy.
- » The spindle runs in NN type double-row roller bearings, making the machine excellent for heavy cutting. (Optional)

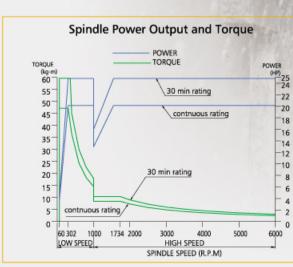


Separately Mounted Chain-type Magazine

60 Tool Standard 90 Tool Optional

- » The magazine is driven by a hydraulic indexing motor for fast rotation and high positioning
- » A waiting position of the magazine tool pot allows pre-selection of the next tool to save time.
- » The tool magazine is separately mounted from the machining area to prevent contamination from chips or coolant.





Fast Tool Change

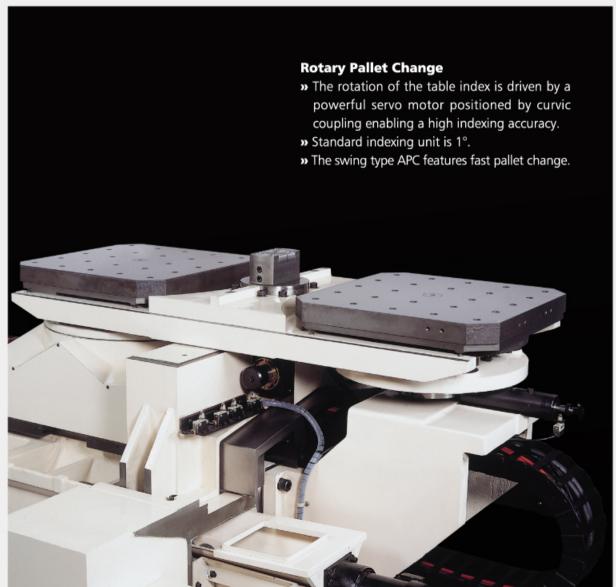
- The cam-drive tool change arm is supported on both sides.
- The tool changer permits synchronized tool clamping between the spindle and slave pot resulting in an efficient, fast, smooth operation.
- » An auto door is equipped on the tool changer to protect tools from chips and coolant.

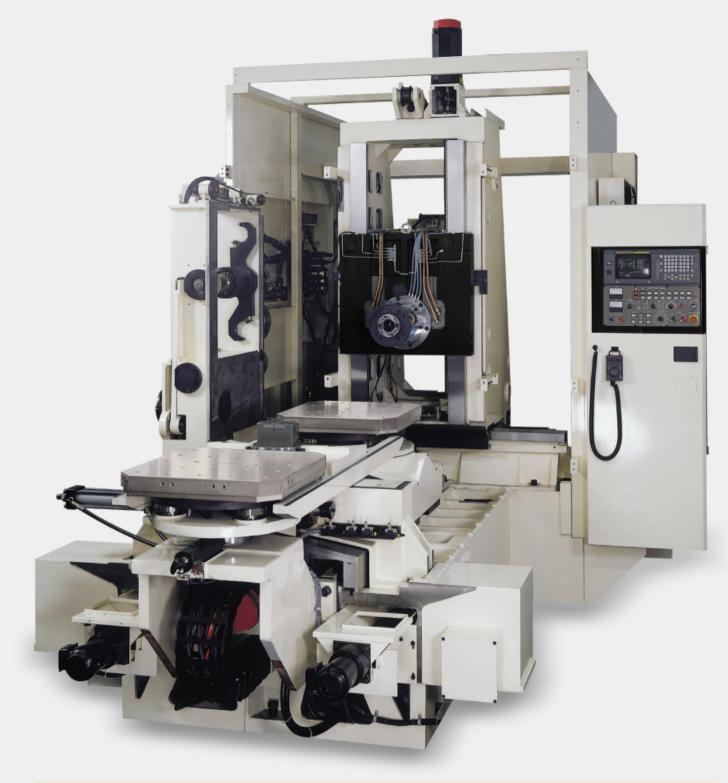


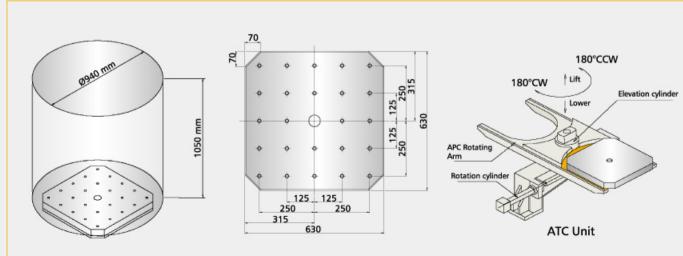
Swing-type Pallet Change



High Pallet Positioning Accuracy The pallet is accurately positioned on 4 tapered cones for high positioning





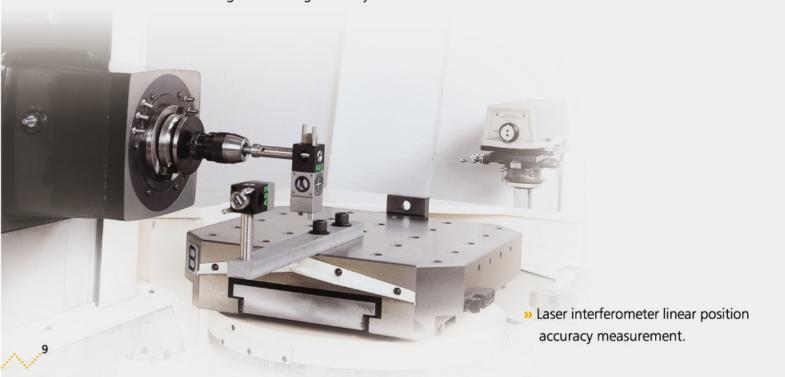




Ultimate Accuracy Through Rigorous Inspections

-1.08

» Laser interferometer angular dividing accuracy measurement.



SPECIFICATIONS, ACCESSORIES AND DIMENSIONS

SPECIFICATIONS	
MODEL	MCH-630
TABLE	
Pallet dimensions	630 x 630 mm
Min. indexing angle	1° (0.001°)
Max. table load	1000 kg
TRAVEL	
Longitudinal travel (X)	1000 mm
Vertical travel (Y)	800 mm
Cross travel (Z)	800 mm
Distance of spindle end to table center	160-960 mm
Distance from spindle center to table surface	100-900 mm
SPINDLE	
Spindle nose	BT50
Spindle speeds	60-6000 rpm
Spindle speed range	Two gears variable
FEED	
Cutting feed	1-8000 mm/min
Rapid traverse	24 m/min
Min. input increment	0.001 mm
ATC (Automatic Tool Changer)	
Tool storage capacity	60
Max. tool (dia. x length)	Ø110 x 400 mm
Max. tool weight	20 KG
Tool selection	Random
MOTORS	
Spindle motor (rated output for 30 minutes)	18.5 kw (25 HP)
Drive motors	
X axis	4 kw (5.3 HP)
Y axis	7 kw (9.3 HP)
Z axis	4 kw (5.3 HP)
MACHINE SPACE AND WEIGHT	
Floor space	4500 x 6230 mm
Machine weight	18000 kg

Specifications are subject to change without prior notice.

» STANDARD

- 1. SPINDLE COOLING DEVICE
- 2. HEAT EXCHANGER
- 3. AUTOMATIC PALLET CHANGER WITH MANUAL ROTATION
- 4. REMOVABLE TYPE MANUAL PULSE GENERATOR
- 5. X.Y.Z. LINEAR SCALE
- 6. FLOOD COOLANT DEVICE
- 7. COOLANT TANK
- 8. SPIRAL TYPE CHIP CONVEYORS
- 9. SPINDLE LOAD METER
- 10. AUTOMATIC POWER CUT-OFF DEVICE
- 11. CALL LIGHT
- 12. WORL LIGHT
- 13. TOOL KIT
- 14. FLAT TYPE CHIP CONVEYOR

» OPTIONS

- 1. ATC TOOL STORAGE: 90
- 2. COOLANT SYSTEM: SHOWER COOLANT, COOLANT GUN
- 3. CHIP WAGON
- 4. AUTOMATIC CENTERING DEVICE
- 5. TOOL BREAKAGE DETECTION DEVICE
- 6. TOOL LENGTH MEASURING DEVICE
- 7. TOOL PRESETTER
- 8. ADDITIONAL CALL LIGHT
- 9. BUZZER DEVICE

