All pallets are located the same distance from the center of the pallet stocker for smooth pallet changing.

Thanks to servo motors on all axes, pallet loading / unloading is fast and stable.

Loading station is designed with ergonomic considerations for excellent accessibility to workpieces.

MPP compatible machines

5-axis

VARIAXIS i-600 | VARIAXIS i-700 | VARIAXIS i-700T

Horizontal machining center

HCN-4000 (MAZATROL SmoothG) | HCN-5000 (MAZATROL SmoothG) | HCN-5000/50 (MAZATROL SmoothG)

Management software for multiple variety, small lot production

SMOOTH MPP

MPP SERIES

Once the production schedule is input, operation will be performed automatically. Production results, system utilization and other data can be checked on the MAZATROL SmoothX and SmoothG CNC. If connected to a network (prepared by user), system data are accessible on office PCs, tablets and smart phones.

1 Monitoring

System and production status are displayed visually. Monitoring of system operation is extremely convenient.

Home screen

System monitoring screen

2 Instruction display

To assist the operator, displays such as the workpiece loading instructions and the list of missing tools are available.

Workpiece loading instructions

Missing tools display

3 Production results display

A wide variety of graphs display the production results for convenient system utilization analysis.

Gant chart screen
(One week operation results data)

Analysis screen
(Analysis of machining time and setup time)

Mazak

YAMAZAKI MAZAK CORPORATION
1-131 Takeda, Oguchi-cho, Niwa-gun, Aichi-pref., Japan
TEL : +(81)587-95-1131
www.mazak.com

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■ This product is subject to all applicable export control laws and regulations.
■ The accuracy data and other data presented in this catalogue were obtained under specific conditions. They may not be duplicated under different conditions. (room temperature, workpiece materials, tool material, cutting conditions, etc.)
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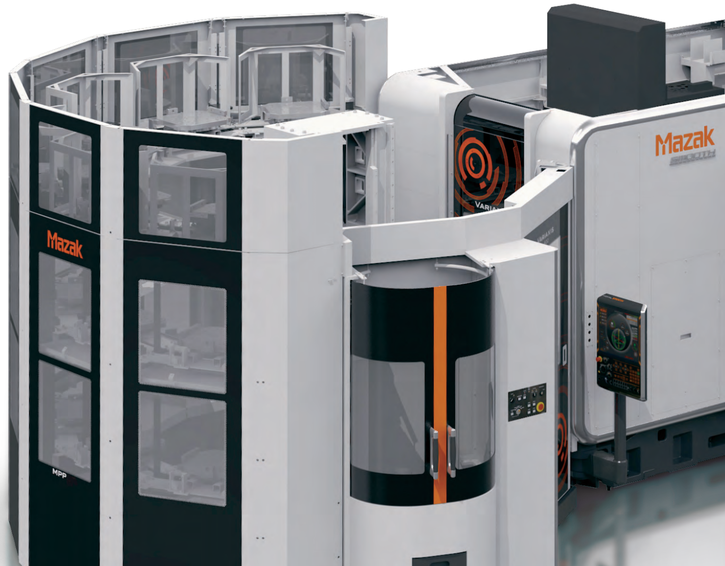
Mazak

MPP

SERIES



Automatic operation system for small volume production

Compact multiple pallet stocker system

The MPP (MULTI PALLET POOL) is a new system to meet the increasing worldwide demand for automation. It is designed to provide high productivity for multiple variety, small lot production.

MPP SERIES

- Compact floor space for multiple pallet stocker
- Stocker can be expanded after the initial installation of a MPP in response to increased production requirements
- The operation and management of the MPP is performed by the same software used by the Mazak FMS system, which is highly regarded worldwide for its ease of operation and high productivity

MPP can best be used when ;

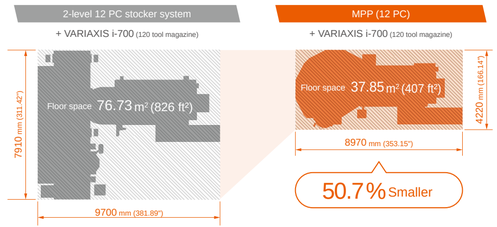
- Automation is required on a limited scale
- Limited floor space prevents a system with a horizontal pallet stocker from being installed
- You can start with a single machine and add the multiple pallet stocker at a later date

Simultaneous 5-axis vertical machining center

VARIAXIS i-600
VARIAXIS i-700
VARIAXIS i-700T

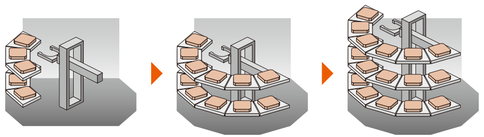
Compact floor space requirement

When compared to systems with horizontal pallet stockers, the same amount of pallets can be stored in a smaller floor space.

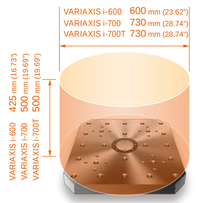


Flexible pallet stocker capacity

6, 12 and 18 pallet storage capacities are available.



Workpiece specifications



■ Max. load (without pallet)

VARIAXIS i-600	300 kg (661 lbs)
VARIAXIS i-700 VARIAXIS i-700T	600 kg (1323 lbs)

■ Max. workpiece size (without pallet)

VARIAXIS i-600	Φ600 mm × H425 mm (Φ23.62" × 16.73")
VARIAXIS i-700 VARIAXIS i-700T	Φ730 mm × H500 mm (Φ28.74" × 19.69")

MPP (VARIAXIS i-600, i-700, i-700T) specifications

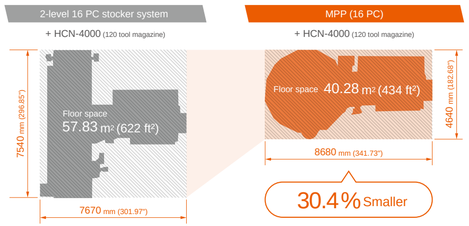
	VARIAXIS i-600	VARIAXIS i-700	VARIAXIS i-700T
Number of pallets	6/12/18		
Pallet size	400 mm × 400 mm (15.75" × 15.75")	500 mm × 500 mm (19.69" × 19.69")	Φ610 mm (Φ24.02")
Max. load (without pallet)	300 kg (661 lbs)	600 kg (1323 lbs)	
Max. workpiece size (without pallet)	Φ600 mm × H425 mm (Φ23.62" × 16.73")	Φ730 mm × H500 mm (Φ28.74" × 19.69")	

High speed, high accuracy horizontal machining center

HCN-4000
(MAZATROL SmoothG)
HCN-5000
(MAZATROL SmoothG)
HCN-5000/50
(MAZATROL SmoothG)

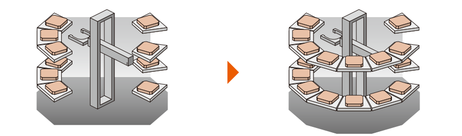
Compact floor space requirement

When compared to systems with horizontal pallet stockers, the same amount of pallets can be stored in a smaller floor space.

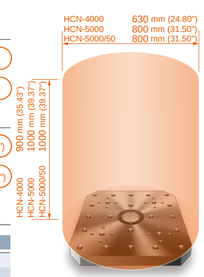


Flexible pallet stocker capacity

10 and 16 pallet storage capacities are available.



Workpiece specifications



■ Max. load (without pallet)

HCN-4000	400 kg (882 lbs)
HCN-5000 HCN-5000/50	700 kg (1543 lbs)

■ Max. workpiece size (without pallet)

HCN-4000	Φ630 mm × H900 mm (Φ24.8" × 35.43")
HCN-5000 HCN-5000/50	Φ800 mm × H1000 mm (Φ31.50" × 39.37")

MPP (HCN-4000, HCN-5000, HCN-5000/50) specifications

	HCN-4000	HCN-5000, HCN-5000/50
Number of pallets	10 / 16	
Pallet size	400 mm × 400 mm (15.75" × 15.75")	500 mm × 500 mm (19.69" × 19.69")
Max. load (without pallet)	400 kg (882 lbs)	700 kg (1543 lbs)
Max. workpiece size (without pallet)	Φ630 mm × H900 mm (Φ24.8" × 35.43")	Φ800 mm × H1000 mm (Φ31.50" × 39.37")