





















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.





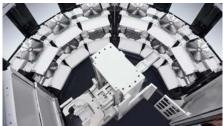
Compact floor space for multiple pallet stocker.

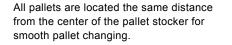
Stocker can be expanded after the initial installation of an MPP in response to increased production requirements.

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 need to start with a single machine and add the multiple pallet stocker at a later date.







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



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

HCN-4000 (MAZATROL SmoothG)

Horizontal Machining Center

HCN-5000

HCN-5000/50 (MAZATROL SmoothG













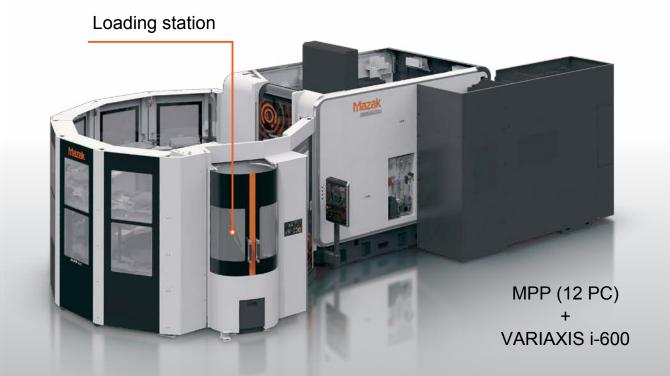


Simultaneous 5-Axis Vertical Machining Center

VARIAXIS i-600

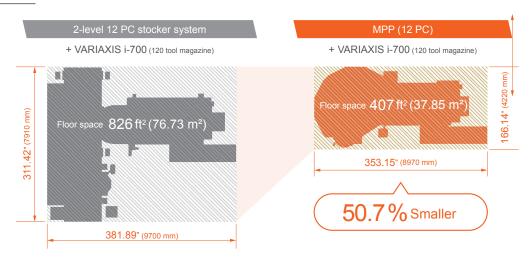
VARIAXIS i-700

VARIAXIS i-700T



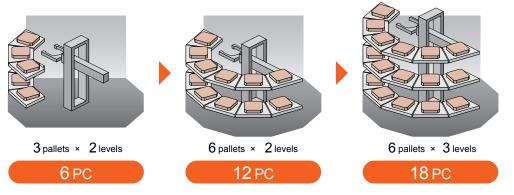
Compact floor space requirement

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

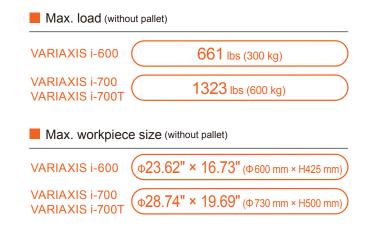


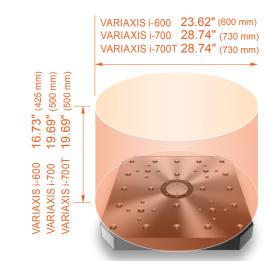
Flexible pallet stocker capacity

6, 12 and 18 pallet storage capacities are available.



■ Workpiece specifications





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	15.75" × 15.75" (400 mm × 400 mm)	19.69" × 19.69" (500 mm × 500 mm)	Ф24.02" (Ф610 mm)
Max. load (without pallet)	661 lbs (300 kg)	1323 lbs (600 kg)	
Max. workpiece size (without pallet)	Ф23.62" × 16.73" (Ф600 mm × H425 mm)	Ф28.74" × 19.69" (Ф730 mm × H500 mm)	

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High-speed, High-accuracy Horizontal Machining Center

HCN-4000 (MAZATROL SmoothG)

HCN-5000 (MAZATROL SmoothG)

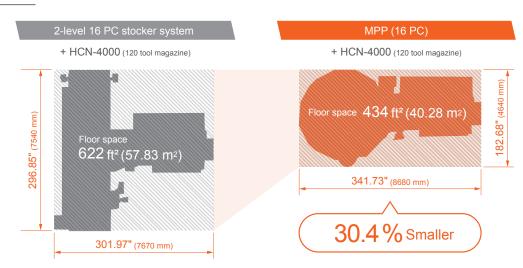
HCN-5000/50

(MAZATROL SmoothG)



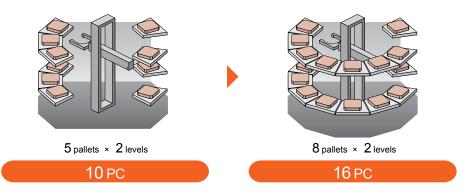
Compact floor space requirement

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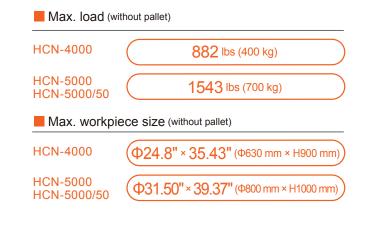


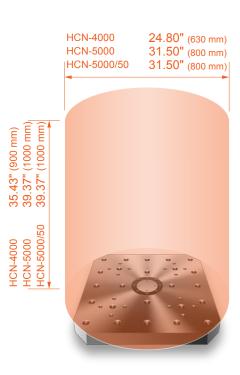
Flexible pallet stocker capacity

10 and 16 pallet storage capacities are available.



Workpiece specifications





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

	HCN-4000	HCN-5000, HCN-5000/50	
Number of pallets	10/16		
Pallet size	15.75" × 15.75" (400 mm × 400 mm)	19.69" × 19.69" (500 mm × 500 mm)	
Max. load (without pallet)	882 lbs (400 kg)	1543 lbs (700 kg)	
Max. workpiece size (without pallet)	Ф24.8" × 35.43" (Ф630 mm × H900 mm)	Ф31.50" × 39.37" (Ф800 mm × H1000 mm)	

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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 smartphones.

1 Monitoring

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



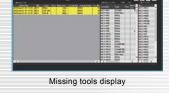


System monitoring screen

2 Instruction display

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





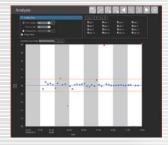
Workpiece loading instructions

3 Production results display

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



Gantt chart screen (One week operation results data)



Analysis screen (Analysis of machining time and setup time)

Mazak

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