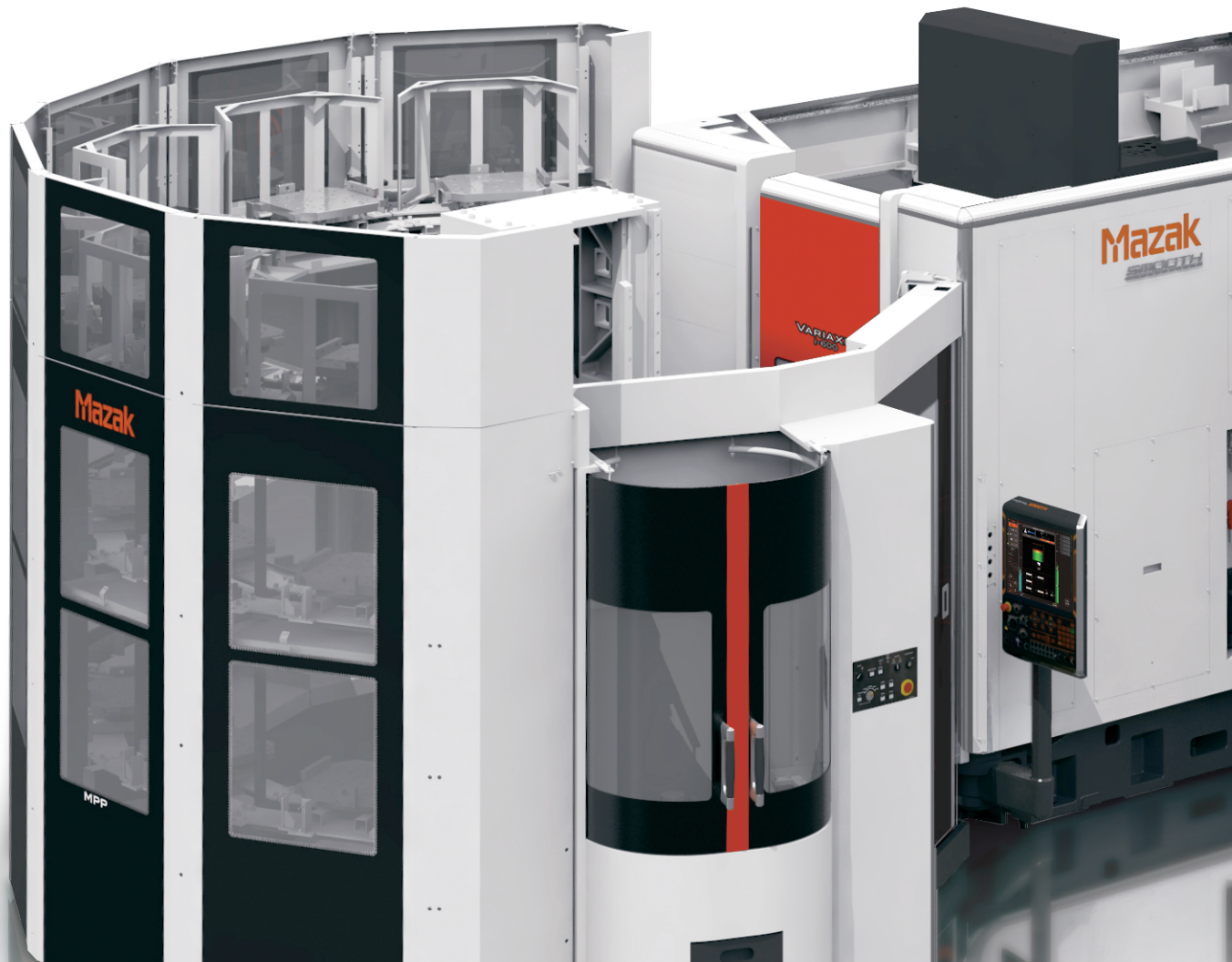


Mazak

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 demand for automation. It is designed to provide high productivity for high-mix, low-volume production.

MPP SERIES



MPP (16PC)

HCN-4000

Compact floor space for multiple pallet stocker

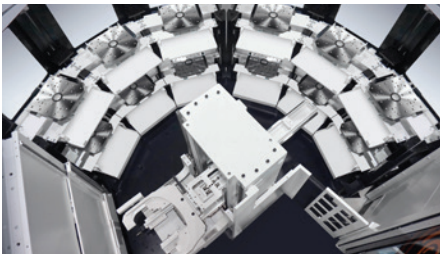
The stocker can be expanded after the initial installation of the MPP in response to increased production requirements

The operation and management of the MPP is performed by the same software used by the PALLETECH system, which is highly regarded for its ease of operation and high productivity

MPP is a great solution when:

- Automation is required on a limited scale
- Floor space limitations prevent the installation of a PALLETECH system
- You start with a single machine and plan to add multiple pallet stockers at a later date*

* Available for VARIAXIS i Series machines with optional MPP preparation specification



All pallets are located the same distance from the center of the pallet loader for efficient pallet changing.



Servo motors on all axes enable fast and stable pallet loading/unloading.



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

■ MPP compatible machines

MPP with 6, 12 and 18PC

Simultaneous 5-axis high-accuracy vertical machining centers

VARIAXIS i-600
VARIAXIS i-700
VARIAXIS i-700T
VARIAXIS i-800 NEO



5-axis simultaneous vertical machining center

VARIAXIS C-600



High-speed 5-axis horizontal machining center

HCR-5000S



MPP with 10 and 16PC

High-speed, high-accuracy horizontal machining center

HCN-4000*, 5000*, 5000/50*



* MAZATROL SmoothG

MPP with 6, 12 and 18PC

Compatible machine models

Simultaneous 5-axis high-accuracy vertical machining center

VARIAXIS i-600

VARIAXIS i-700

VARIAXIS i-700T

VARIAXIS i-800 NEO

5-axis simultaneous vertical machining center

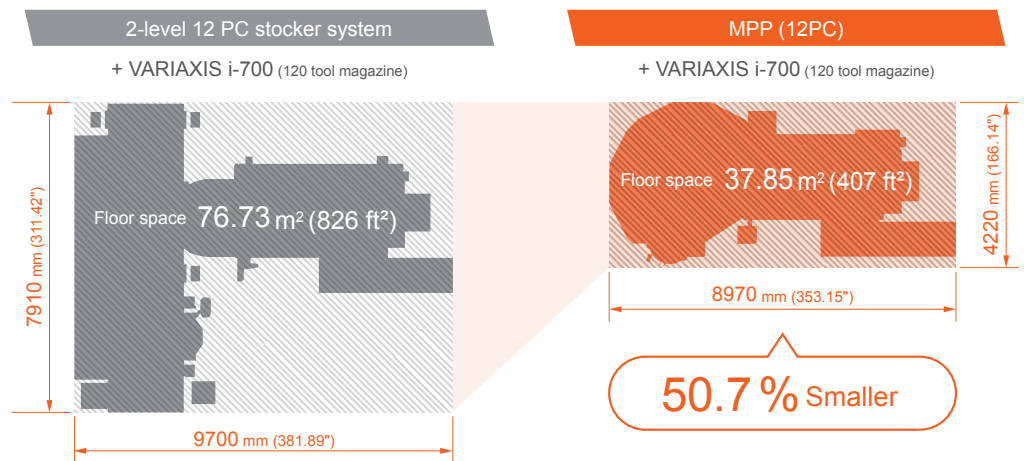
VARIAXIS C-600

High-speed 5-axis horizontal machining center

HCR-5000S

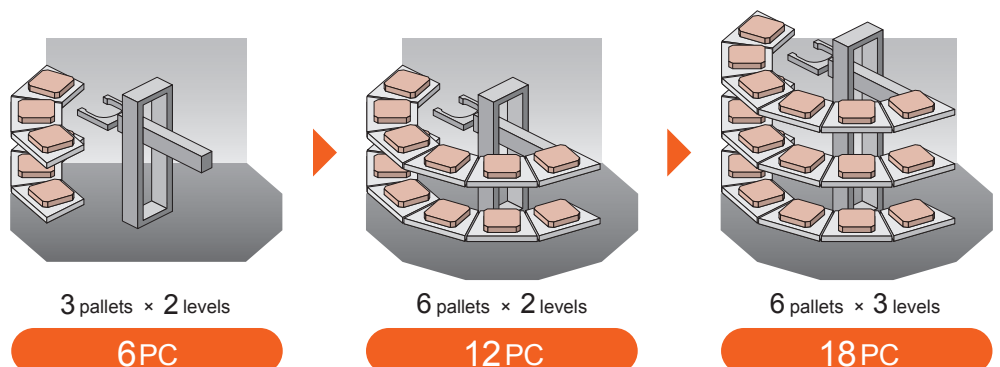
Compact floor space

When compared to Mazak's PALLETECH system (a system 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.



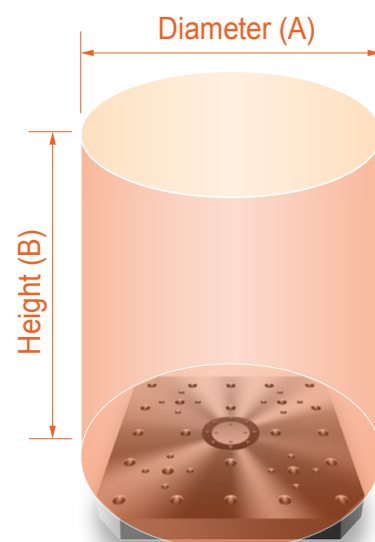
Loading station



MPP (12PC)
+
VARIAXIS i-600

Workpiece specifications

Machine model	Pallet size	Max. load (without pallet)	Max. workpiece size (without pallet) [diameter (A) x height (B)]
VARIAXIS i-600	□ 400 mm (□ 15.75")	300 kg (661 lbs)	Φ 600 mm × 425 mm (Φ 23.62" × 16.73")
VARIAXIS i-700	□ 500 mm (□ 19.69")	600 kg (1323 lbs)	Φ 730 mm × 500 mm (Φ 28.74" × 19.69")
VARIAXIS i-700T	Φ 610 mm (Φ 24.02")	600 kg (1323 lbs)	Φ 730 mm × 500 mm (Φ 28.74" × 19.69")
VARIAXIS i-800 NEO	□ 500 mm (□ 19.69")	700 kg (1543 lbs)	Φ 730 mm × 500 mm (Φ 28.74" × 19.69")
VARIAXIS C-600	□ 500 mm (□ 19.69")	500 kg (1102 lbs)	Φ 730 mm × 450 mm (C110)*1 (Φ 28.74" × 17.72" (C4.33"))
HCR-5000S	□ 500 mm (□ 19.69")	500 kg (1102 lbs)	Φ 700 mm × 643.6 mm (R602)*2 (Φ 27.56" × 25.34" (R23.7"))



*1 C110 mm (C4.33")

Workpiece with chamfering on top is acceptable



*2 R602 mm (R23.7")

Workpiece with curved surface is acceptable



MPP with 10 and 16PC

Compatible machine models

High-speed, high-accuracy
horizontal machining center

HCN-4000

(MAZATROL SmoothG)

HCN-5000

(MAZATROL SmoothG)

HCN-5000/50

(MAZATROL SmoothG)

Compact floor space

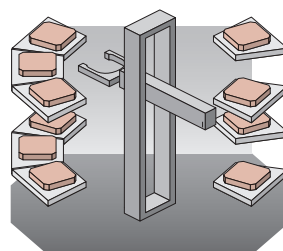
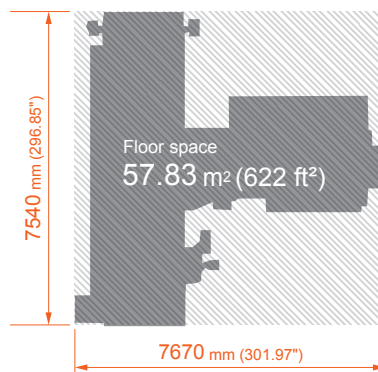
When compared to Mazak's PALLETECH system (a system with horizontal pallet stockers), the same amount of pallets can be stored in a smaller floor space.

Flexible pallet stoker capacity

10 and 16 pallet storage capacities are available.

2-level 12 PC stocker system

+ HCN-4000 (120 tool magazine)

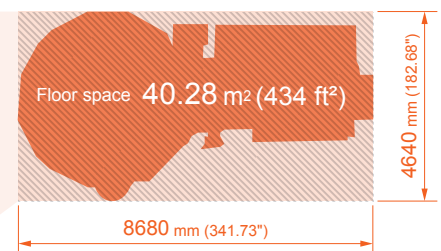


5 pallets × 2 levels

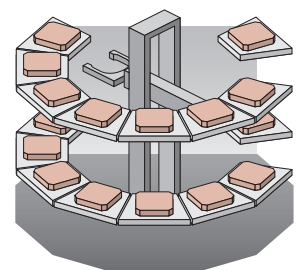
10PC

MPP (16PC)

+ HCN-4000 (120 tool magazine)



30.4 % Smaller



8 pallets × 2 levels

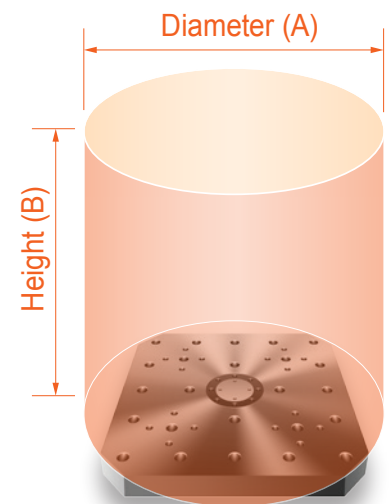
16PC



MPP (16PC)
+
HCN-4000

Workpiece specifications

Machine model	Pallet size	Max. load (without pallet)	Max. workpiece size (without pallet) [diameter (A) x height (B)]
HCN-4000	□ 400 mm (□ 15.75")	400 kg (882 lbs)	Φ 630 mm × 900 mm (Φ 23.62" × 16.73")
HCN-5000	□ 500 mm (□ 19.69")	700 kg (1543 lbs)	Φ 800 mm × 1000 mm (Φ 31.50" × 39.37")
HCN-5000/50	□ 500 mm (□ 19.69")	700 kg (1543 lbs)	Φ 800 mm × 1000 mm (Φ 31.50" × 39.37")



Management software for high-mix,
low-volume production



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

1 Monitoring

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



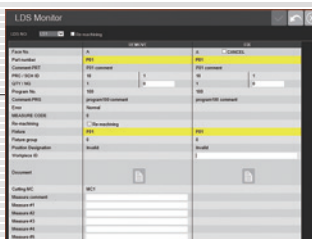
Home screen



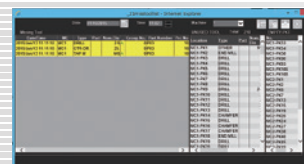
System monitoring screen

2 Instruction display

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



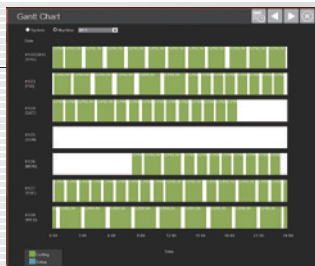
Workpiece loading instructions



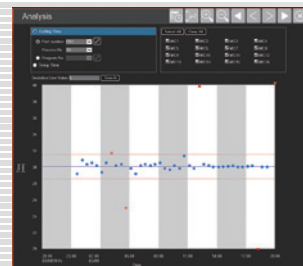
Missing tools display

3 Production results display

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



Gantt chart screen
(Operation results data)



Analysis screen
(Analysis of machining time and setup time)

Mazak

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