



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



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



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

MPP compatible machines

MPP with 6, 12, 18PC

Simultaneous 5-axis high-accuracy vertical machining centers

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

Management software for high-mix, low-volume production

SMOOTH
M P P



Once the production schedule is input, operation will be performed automatically. Production results, system utilization and other data can be checked on the MAZATROL Smooth 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.



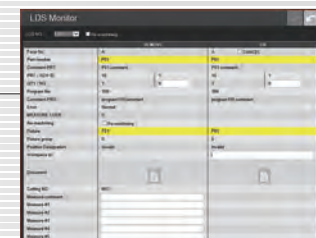
Home screen



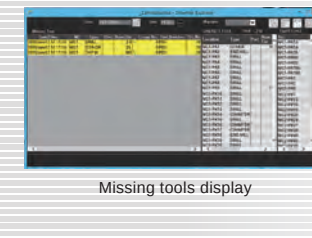
System monitoring screen

2 Instruction display

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



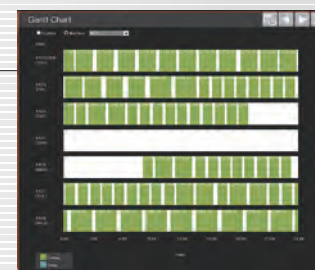
Workpiece loading instructions



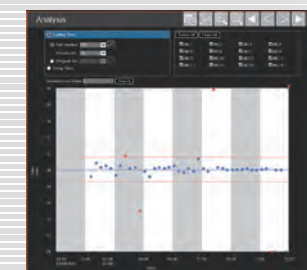
Missing tools display

3 Production results display

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



Gantt chart screen
(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

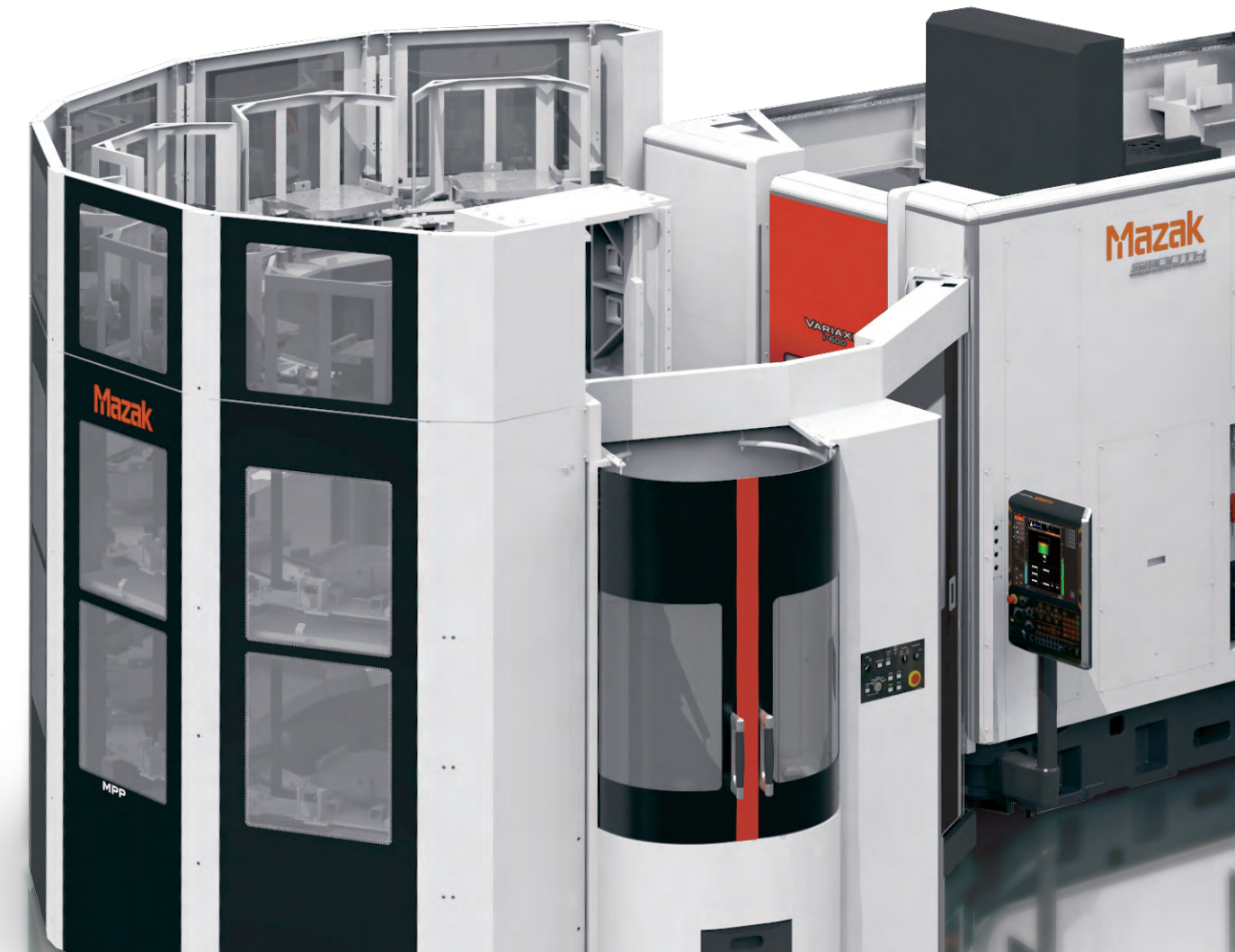
- Specifications are subject to change without notice.
- This product is subject to all applicable export control laws and regulations.
- The accuracy data and other data presented in this catalogue were obtained under specific conditions. They may not be duplicated under different conditions. (room temperature, workpiece materials, tool material, cutting conditions, etc.)
- Unauthorized copying of this catalogue is prohibited.



MPP SERIES 21.07.0 H 99J518520E1

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 high-mix, low-volume production.

MPP SERIES



- Compact floor space for multiple pallet stocker
- 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 worldwide for its ease of operation and high productivity

MPP can be the best when ;

- Automation is required on a limited scale
- Floor space is limited in installing the PALLETECH system
- You start with a single machine and able to add the multiple pallet stockers at a later date*

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

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

Loading station



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

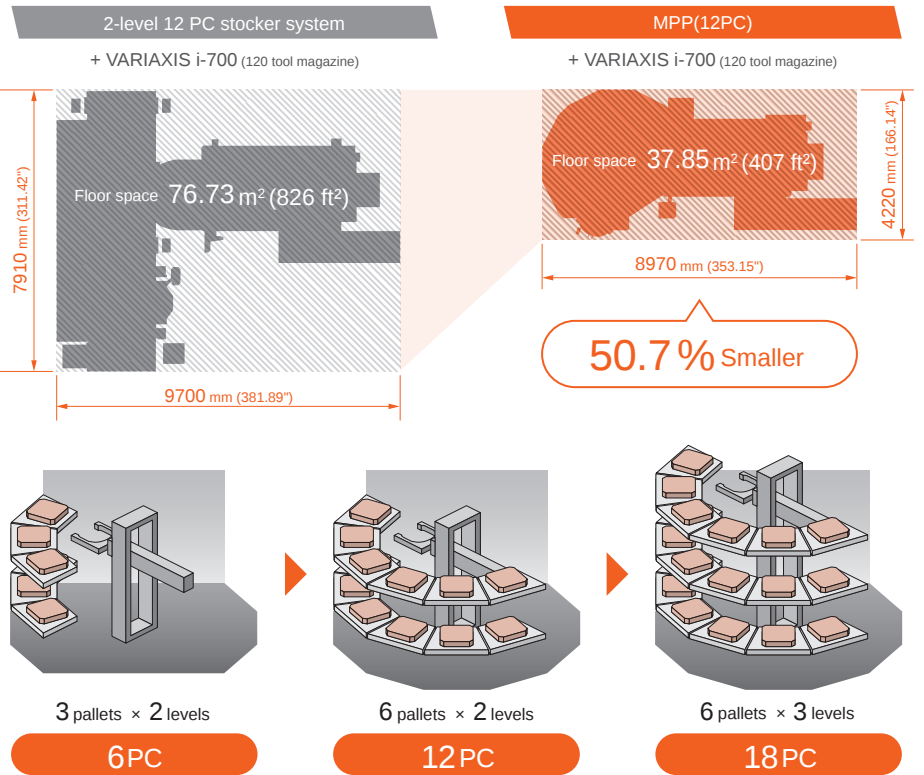
(MAZATROL SmoothG)

Loading station



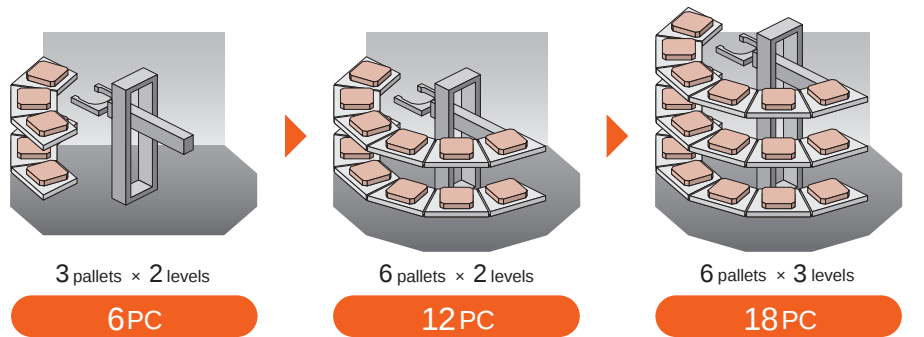
Compact floor space

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



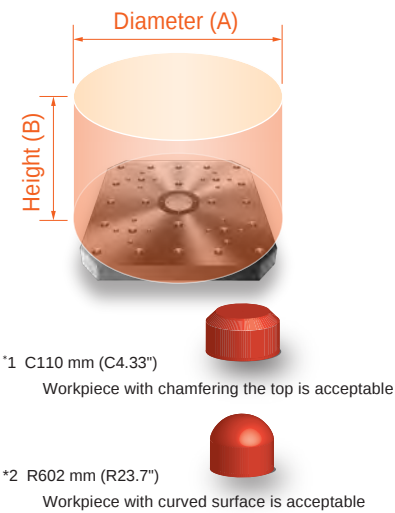
Flexible pallet stocker capacity

6, 12 and 18 pallet storage capacities are available.



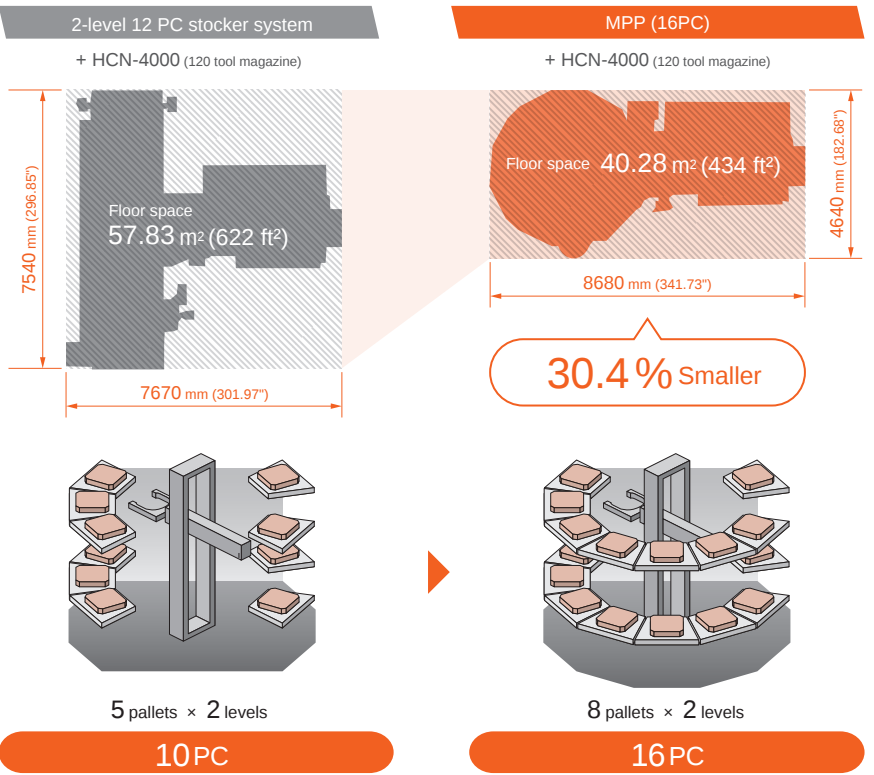
Workpiece specifications

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)	Φ600 mm × 425 mm (Φ23.62" × 16.73")
VARIAXIS i-700	□ 500 mm (□ 19.69")	600 kg (1323 lbs)	Φ730 mm × 500 mm (Φ28.74" × 19.69")
VARIAXIS i-700T	Φ610 mm (Φ 24.02")	600 kg (1323 lbs)	Φ730 mm × 500 mm (Φ28.74" × 19.69")
VARIAXIS i-800 NEO	□ 500 mm (□ 19.69")	700 kg (1543 lbs)	Φ730 mm × 500 mm (Φ28.74" × 19.69")
VARIAXIS C-600	□ 500 mm (□ 19.69")	500 kg (1102 lbs)	Φ730 mm × 450 mm (C110)*1 (Φ28.74" × 17.72" (C4.33"))
HCR-5000S	□ 500 mm (□ 19.69")	500 kg (1102 lbs)	Φ700 mm × 643.6 mm (R602)*2 (Φ27.56" × 25.34" (R23.7"))



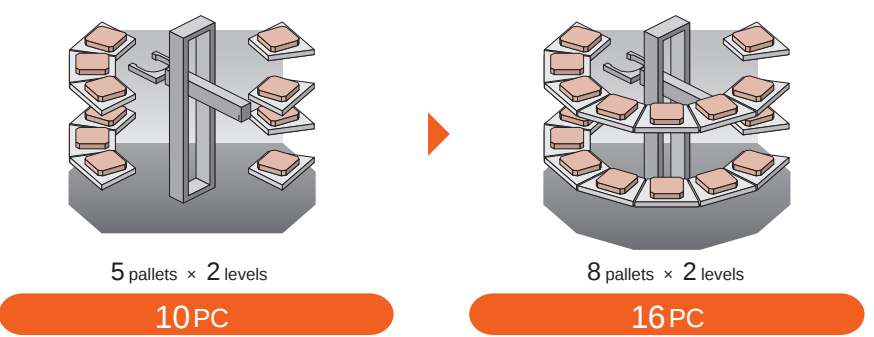
Compact floor space

When compared to the 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

10 and 16 pallet storage capacities are available.



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)	Φ630 mm × 900 mm (Φ23.62" × 16.73")
HCN-5000	□ 500 mm (□ 19.69")	700 kg (1543 lbs)	Φ800 mm × 1000 mm (Φ31.50" × 39.37")
HCN-5000/50	□ 500 mm (□ 19.69")	700 kg (1543 lbs)	Φ800 mm × 1000 mm (Φ31.50" × 39.37")

