

## Press Release

October 17<sup>th</sup>, 2024

### The Modular Pallet Handling System “PH Cell 500” for up to 32 Pallets & max. 500 kg Transfer Weight

DMG MORI CO., LTD. (hereinafter referred to as “DMG MORI”) has released the modular pallet handling system “PH Cell 500” for a maximum of 32 pallets and 500 kg transfer weight.

The newly released "PH Cell 500" handles pallets up to 500 x 500 x 750 mm with a transfer weight of 500 kg. Pallets are transferred from the machine side, which provides excellent workability and accessibility to the machine. In addition, the system offers a modular design for adapting to customer production needs and support of different pallet sizes in one system. In fact, in some customer cases, PH Cell 500 has successfully increased spindle uptime by up to 3 times and cut workpiece cost by 50%.

We define Machining Transformation (MX) as our initiative to drive process integration and automation through digital transformation (DX), while also advancing Green Transformation (GX)\*<sup>1</sup>. By integrating processes and automating production, we aim to reduce operator needs, minimize intermediate inventory, extend machine operating hours, and enhance the precision of finished products. Automation is key to improving our customers' productivity, and we have been steadily developing systems like pallet handling to support this goal.

In our Medium-term Business Plan 2025, which spans from 2023 to 2025, we have set a target to increase our automation ratio from 37%\*<sup>2</sup> in 2023 to 50%\*<sup>2</sup> in 2025. With its ergonomic design, flexibility, and modular structure, the PH Cell 500 will assist our customers in boosting productivity and achieving their Machining Transformation (MX) goals.

PH Cell 500 will be exhibited for the first time in Japan at JIMTOF 2024, held at Tokyo Big Sight from November 5 (Tue.) to 10 (Sun.), 2024. Please visit our website to view the catalog and video\*<sup>3</sup>.

- Catalog : <https://www.dmgmori.co.jp/en/download/catalog/detail/id=7143>
- Video : [https://www.dmgmori.co.jp/en/movie\\_library/movie/id=7101](https://www.dmgmori.co.jp/en/movie_library/movie/id=7101)

#### ■Main Features

- ① Supports max. transfer weight of 500 kg & max. workpiece size of 500 x 500 x 750 mm  
Clamping system incorporated in the table for effective axis stroke utilization
- ② Modular structure allows flexible system configuration according to customer needs

- + Various sizes of pallets can be transported and stored in one system
- + Up to 32 pallets can be loaded (for 400 x 400 mm pallets)
- + Supports retrofitting or adding a second rack after machine installation

③ Excellent workability based on ergonomics

- + Excellent accessibility to the machining area due to pallet transport from the side of the machine
- + Direct operation of PH Cell 500 from the machine tool control panel
- Automatic loading/unloading of pallets with simple operation
- + Clamping system integrated in the table for precise positioning

DMG MORI will continue to bring highly functional, reliable, and investment-worthy products to the market, ensuring we meet the evolving needs of a broader range of customers.

Product	Pallet Handling System: PH Cell 500
Compatible machines*4	5-axis machines DMU 65 monoBLOCK 2 <sup>nd</sup> Generation DMU 75 monoBLOCK 2 <sup>nd</sup> Generation DMU 65 H monoBLOCK

\*1 GX is defined as creating a lean and clean production environment by optimizing manpower, resources, energy, factory floor space, and time.

\*2 Ratio of automation projects to machine tool orders

\*3 Catalogs are available only for web members. If you register as a member (free of charge), you will be able to view exclusive contents.

\*4 As of October 2024

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DMU 65 monoBLOCK 2<sup>nd</sup> Generation with PH Cell 500