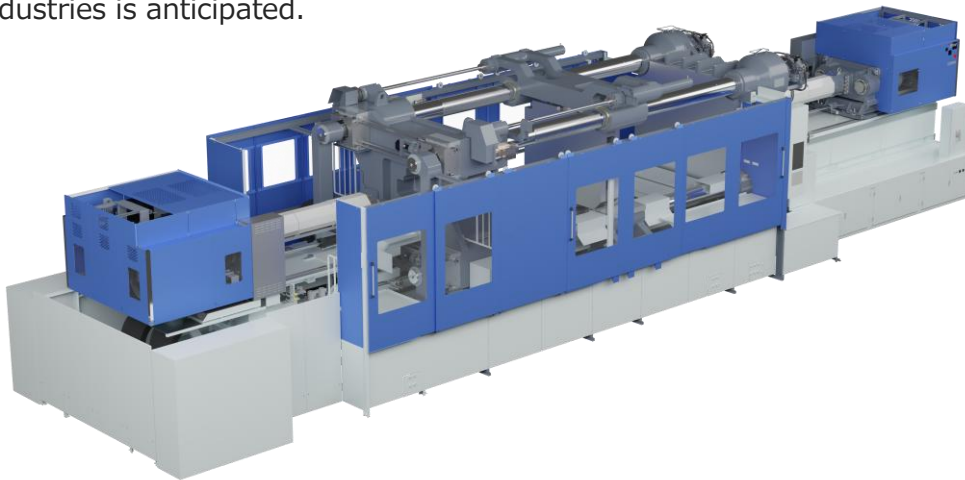


Sales News Letter

Introducing the 2,500ton Multicolor Mid-Platen Rotary Ultra-Large Injection Molding Machine!

We are pleased to announce the launch of the J2500F-MR-5200H/5200H, a multicolor mid-platen rotary injection molding machine with a clamping force of 2,500 tons.

In recent years, the automotive industry has seen rapid advances in both the **integration and enlargement of lamp modules**. Automakers are increasingly adopting large lamp units and sophisticated lighting designs to strengthen brand identity and vehicle presence. This trend is also evident among European and North American manufacturers, where the shift toward larger lamp assemblies is accelerating, driven by growing demands for improved safety and enhanced design performance. As a result of these market developments, demand for ultra-large multicolor mid-platen rotary injection molding machines is expected to expand further. In addition to lamp applications, needs for new product development that leverages the unique advantages of mid-platen rotary technology are increasing, and broader deployment across various industries is anticipated.



However, in order to fully meet these evolving market needs, several issues inherent in conventional mid-platen rotary systems required resolution. Typical systems have faced the following problems:

Issues with Conventional Mid-Platen Rotary Systems

1. Long mold setup time that reduces productivity

Conventional systems using independent mold rotation mechanisms (table-rotation type) often experience sinking of the rotation table due to mold weight. This leads to misalignment of the parting surfaces during mold open/close operations, requiring precise positioning adjustments during mold installation. As a result, mold setup time becomes prolonged and productivity declines.

2. Increased risk of defects and higher mechanical load

During mold opening, release resistance may cause the rotating table and intermediate mold to tilt, resulting in parting-surface misalignment. This can lead to:

- Cracking and other molding defects
- Galling of guide pins and higher mechanical loads on machine structures

3. Difficulty shortening molding cycles due to limited motion performance

Conventional hydraulic pump-driven mold open/close mechanisms have limited accuracy and responsiveness. This makes it difficult to shorten the molding cycle, and may result in take-out failures and additional downtime.

To overcome these issues, we developed a new generation of multicolor mid-platen rotary injection molding machines featuring a **proprietary mechanical structure** combined with **advanced electric servo control technology**. Sales began in April 2026.

Main Specifications

- Model name: J2500F-MR-5200H/5200H
- Clamping force: 2,500 tons
- Theoretical injection volume: 4,320 cm³

Main Features

[High Quality & High Productivity]

World-exclusive 4-axis supported Center platen

- Maintains stable posture of the intermediate mold
- Greatly reduces molding defects caused by intermediate mold tilting
- Minimizes intermediate platen sinking during mold installation, improving setup efficiency

Injection driven by electric servo motor

- **Ensures stable molding** with minimal variation in shot weight

Mold open/close driven by electric servo motor

- High **positioning** accuracy of platen stopping **reduces take-out errors** and improves operating rate

Industry-leading dry cycle performance

- **Productivity improved by more than 10%** (JSW estimate)

[Energy Saving & Reduced Running Costs]

Compared with hydraulic systems:

- Power consumption reduced by 15–20%
- Cooling water usage reduced by 20%
- Hydraulic oil usage reduced by 50%
- ➔ **Annual running costs reduced by approximately 14%** (JSW estimate)

【Long Life & Robust Design】

Inheriting the design philosophy that we have cultivated over many years, ensures long-term reliable operation.

1. High-rigidity mold platens

- Based on the proven high-rigidity platen structure of our general-purpose models
- **Maintains high-quality molding** across diverse mold structures and sizes

2. High-rigidity clamping bed

- Ladder-frame construction maintains bed level over extended periods
- Preserves platen parallelism and **enables high-speed, high-precision operation**

3. High-rigidity injection unit

- Robust frame design maintains drive-axis and screw alignment long-term
- **Ensures precise, stable molding and superior durability**

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