HIGH-PERFORMANCE AUTOMATED BAG FILLING AND SEALING PACKAGING MACHINE

GP-M3000 SERIES

GP-M3000GY・UR・USR・UST
HIGH-PERFORMANCE AUTOMATED
BAG FILLING AND SEALING
PACKAGING MACHINE

GP-M3000 SERIES

〈Mechatronic Bag Feeding〉

All New "SPS" Bag Feeding Unit
* SPS: Side-step Positioning System

- Allows for easier, quick loading of bags into the conveyor.
- Precisely transfers bags from Conveyor to Bag Aligning Unit.
- Dramatically reduces bag transfer failures.

"SPS" Bag Aligning Unit controls & adjusts bag width, height and orientation.

The Surface Deck Area is Completely Bolt-less

- 43% Reduction of Surface Deck Area Protrusions, compared with existing model.
- Significantly improved Hygienic design for cleaning.

A True (3) Minute Product Change-Over Design

- Decreased 10:1 change-over time when compared with existing model requiring 30 minutes.
- Designed to Automatically Adjust Bag Feeding, Bag Opening, Gripper Width, Vibration and Heat Sealing!
- Mechatronic Design Technology significantly reduces Operator adjustment time.
Mechatronic Technology Design Offers an Unparalleled Degree of Stability in Machine Movement.

Equipped 5-axis Servo

Designed to a Higher Specification with "Mechatronics"

The bag feed system is to automatically supply bags one by one from the bag feeder previously set with several hundreds of bags.

Standard type corresponding to back sealed three-side-seal bag, four-side-seal bag, or four-side bag with fastener.

Correspond to standing pouch. Also applicable to back sealed three-side-seal bag, four-side-seal bag, or four-side-seal bag with fastener.

Almighty highest-end model capable of handling standing pouches with fasteners.

Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>GP-M3000</th>
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</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>15~65Bag/min</td>
</tr>
<tr>
<td>Bag Size</td>
<td>Width 100~230mm</td>
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<tr>
<td></td>
<td>Length 130~380mm</td>
</tr>
<tr>
<td>Filling Range</td>
<td>MAX 1000g</td>
</tr>
<tr>
<td>Machine Weight</td>
<td>Approximate 1500kg</td>
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<tr>
<td>Applicable Bag Form</td>
<td>Flat, 3-side seal Bag</td>
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<tr>
<td></td>
<td>Flat, Fin' Lap seal Bag</td>
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<tr>
<td></td>
<td>Flat, 3-side seal Bag with Zipper</td>
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<tr>
<td></td>
<td>Stand-up Bag</td>
</tr>
<tr>
<td></td>
<td>Stand-up Bag with Zipper</td>
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</tbody>
</table>

Optional equipments corresponding to 100 mm or smaller bags are available. Optional equipments capable of handling the maximum weight of 2000 g are also available.

Picture: GP-M3000UST

Items to be supplied by the customer

Power supply ——— 3-phase 200V 8.2kV A
Air supply ——— 0.5MPa 300NL/min
**Mechatronic Bag Tapping**

Automated, Self-Adjusting Bag Tapping Mechanism

- Three tapping factors: Bottom tapping time, Frequency and Strength are adjusted automatically.
- Tapping Strength and Height can be optimally adjusted for each product.

**Mechatronic Sealing**

Automated Sealing Time, Pressure and Temperature Control

- Installed Mechatronic Heat Sealing Unit.
- Application Registration System allows quick & easy bag changeover; adjustable sealing pressure, temperature and time settings.
- Correspond to Traceability

**Feature 4**

**Feature 5**

**Feature 6**

In-Line Bag IJP Code-Printing Capabilities Surface Area has Doubled

- Improved Surface Print Area has Doubled, compared with existing model.*With Designated Printer
- Able to handle various types of Bag Design.

**Existing model**

Model M3000

**New Equipment**

Integrated Scale & Indicator

**New Equipment**

Hygienically designed Round Grippers

- Prevents product build-up on Grippers.
- Design Prevents Particulate Penetration.

**New Equipment**

- Tool-less Adjustment enables Quick & Easy Bag Opening & Bag Bottom Opening Adjustment.

**Two Times Wider**

than Existing model
Model GP-M3000GY

Packaging process

1. Bag Supply
2. Spare
3. Date Printing (Optional)
4. Bag Opening and Print Inspection (Optional)
5. Filling Materials and Bag Bottom Vibration
6. Bag Bottom Vibration
7. Bag Bottom Vibration
8. Spare
9. Air removal and Top Sealing
10. Cooling and Product discharge

Model GP-M3000UST

Packaging process

1. Bag Supply
2. Date Printing and Zipper Opening (Optional)
3. Print Inspection (Optional)
4. Bag Opening and Bag Bottom Swelling
5. Filling Materials and Bag Bottom Vibration
6. Bag Bottom Vibration
7. Bag Bottom Vibration
8. Spare
9. Air removal and Top Sealing
10. Cooling and Product discharge
Example combination with this machine

Automatic auger type powder filling machine

Computer scale

Magnetic feeder type weighing machine

Disc type scale filling machine

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