Features of OHTAKE Automatic Screw / Bolt Feeders

OHTAKE’s automatic screw feeders make use of a horizontal rail system. Supporting a wide range of materials and shapes, these units accommodate diverse workstyles and workpiece dimensions. The unique mechanism and advanced technology hugely contribute to the efficiency of your production line.

High-Speed and Smooth

Fixed Point Take Out

Fixed Quantity Take Out

Also supports screws with washers or special formats

Horizontal rail realizes the smooth feed of numerous types of special screws, among them those with washers and with short under-head length.

- Easy to handle and operate: simply install once to get up and running. All you have to do is push the power switch.
- Adding screws is a snap. Simply insert in bulk in the scooping chamber.
- Takes 5 seconds with a single hex wrench to swap and accommodate the screw diameter changes (NJ/NSB type). Simply loosen the rail-tightening screws, swap in a new rail, and adjust the position while tightening the screws back into place.
- In the event that too many screws are inserted or have become clogged, the unit automatically cuts the power to the drive motor and shuts off.

Compatible to line changes for adjustments to screw diameter and shape Supporting QC and productivity improvements

Automatic screw feeders dramatically increase the speed of screw tightening work. Designed with ease of use in mind, and employing the world’s first rail-swappable mechanism, these devices let you work with screws of varying diameters and formats. Even when changing workpiece entails different screw diameters, all you need to do is swap in a new rail. No need to replace the feed mechanism itself, which means reduction of equipment costs. Horizontal rail mechanism offers speedy and stable screw feeding. Highly versatile design and ease of use drive the high efficiency of screw tightening work.

Horizontal rail provides stable, orderly array of screws

Unlike gravity-based feed mechanisms, this one uses a vibration to convey screws in a horizontal rail. Does away with problems like screw clogging and stably feeds even screws with washers attached.

Average screw feed time is 2 per second

Achieve a three- to fivefold increase in working speed based on traditional manual work. Average screw take out of 2 per second greatly improves working efficiency.

Supports standard bits from various screwdriver manufacturers

No need to attach a specialized bit to electric screwdrivers. Immediately use standard bits you are accustomed to using. Conveys magnetized bits perpendicularly along the V-shaped groove of the bit guide, engaging the screw head and allowing it to be caught by simply pulling it close. Supports suction-style screwdrivers.

Makes work easier

Now you can tighten screws with one hand, improving the stability and efficiency of assembly work.

Accommodate different screw diameters by simply swapping rails

Simply swapping in the rail for a given screw diameter offers support for numerous screw types. For example, NSB models support up to 8 screw diameters in a single device.
Depending on the shape of the screw, the screw hopper may not be compatible with it.

For the screw hopper, the compatible length of the screw may differ from that of the feeder it is combined with. Please check their compatibility before use.

Take out type
- "Robotic," and "fixed quantity take out.

Select by use
- Exterior appearance

Select by position
- Take out point
- Take out position

Select by workpiece length (based on the longest ones)
- Sliding escaper
- Lever
- Miscellaneous

Select by workpiece material
- Rotating escaper
- Screw flow

Take out type
- Manual
- Robotic

Fixed quantity take out
- Slim Screw Feeder
- High-speed and High-capacity Screw Feeder
- All-around Screw Feeder

Product Lineup
- PJU / PJUR Series
- NSB / NSRI Series
- OM-26M / OM-26R Series
- MSF Series
- SS Series
- SSI-M / SSI-R Series
- FM Series
- LS / LV / LF Series
- BS Series
- Screw Hopper

FAQ
- Signals obtained from signal line
- Automatic screw feeder
- AC adapter plug formats

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NJ / NJR Series

All-around Screw Feeder

Supports a wider screw diameter than the NSB/NSR series and has greater capacity, making it even more useful.

- Supports standard bits from various screwdriver manufacturers
  - Bit screwdrivers
  - Suction screwdrivers

- Large stock
  Supports a stock of 150cc.

- Special screws supported
  Allows you to stably feed SW screws or those with washers.

- Long-running operation when combined with screw hopper
  Use a screw hopper for long-running unmanned operation.

- Smooth screw feeding
  - Provides ongoing, timely feed of screws to match robot operations.
  - The NJ type allows for sending out the screw take-out signal through an external outlet.
  - The NSR type allows for the sending out of a signal to notify whether a screw is present at a screw take-out point through an external outlet.

- Swap rails in/out.
  This single unit supports a wide range of screws. For example, the NJ-23 supports four types of screw in a single unit. Allows for adjusting the angle of rail inclination based on the screw being used.

- Example usage of combining NJ and RR rails
  Use as a horizontal feeder for continuous feed to robotic devices. If you are seeking the same functionality in a different model, please contact us.

Optional Parts

- Bit screwdrivers
- Suction screwdrivers

Model Diagrams

Full diagrams of each model can be downloaded from our website.

Specifications

- Swapping screw diameter (mm): 2.0, 2.3, 2.6, 3.0, 3.5, 4.0, 5.0
- Power: AC100V ~ 240V, DC15V
- Drive motor: DC brush motor
- Overload protection/recovery circuit: ○ ○ ○ ○ ○ ○ ○ ○ ○ ○
- External signal line: ○ ○ ○ ○ ○ ○ ○ ○ ○ ○
- Brush overload protection mechanism: ○ ○ ○ ○ ○ ○ ○ ○ ○ ○
- Yield time: Approx. 1.5sec
- Supported screw diameter: φ 2.0 ~ φ 3.0, φ 3.5 ~ φ 5.0
- Supported screw under-head length: Up to 18mm in length, Up to 25mm in length
- Screw capacity: Approx. 150cc

Accessories and bundled items:
- Instruction manual, AC adapter, hex wrench, adjusting screwdriver, earth wire
NSB / NSR Series
Versatile Screw Feeder

Swapping rails allows you to accommodate various screw diameters with a single unit. Almost no screw is incompatible.

- A single unit supports 8 different screw diameters.
  - The NSB type supports 8 types of screw diameters by simply swapping rails. (Supports 8 types—from M1.0 to M3.0—by default)
  - The NSR type supports this through simply swapping the rail and escaper. Clean up oil and other stains easily by removing rail from behind.

- One-touch rail swap
  Swapping rails is also easy. Also allows you to easily swap rails based on changes in screw diameter. (NSB type)

- Screws are moved smoothly, and durability has been improved dramatically
  (Improved screw chamber)
  Reduces strain on the motor for more efficient screw alignment.
  (Adjustable rail angle)
  Allows for adjusting the angle of rail inclination based on the screw being used.
  (Amplitude adjustment)
  Allows for calibrating amplitude based on the type of screw being used.
  (No side-to-side vibration)
  Alleviates side-to-side rail vibration to achieve smooth screw conveyance.

- Other Key Features
  - Compact size does not take up space.
  - Use a screw hopper for high-capacity stock of screws.
  - The NSR type features a screw take out point with a signal notifying whether a screw is present.
  - The NSB type allows for sending out the signal of screw take out through an external outlet.

### Specifications

<table>
<thead>
<tr>
<th>Model type</th>
<th>NSB</th>
<th>NSR</th>
<th>NSBC</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Screw diameter</strong> (mm)</td>
<td>M1.0 ~ M3.0</td>
<td>M1.0 ~ M3.0</td>
<td>M1.0 ~ M3.0</td>
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<td><strong>Volume (including the rail)</strong></td>
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<td>Approx. 3.0kgf</td>
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<td>AC100V ~ 240V, DC15V, 1A AC adapter</td>
<td>AC100V ~ 240V, DC15V, 1A AC adapter</td>
<td>AC100V ~ 240V, DC15V, 1A AC adapter</td>
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<td><strong>Drive motor</strong></td>
<td>DC brush motor</td>
<td>DC brush motor</td>
<td>DC brush motor</td>
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<tr>
<td><strong>Overload protection/recovery circuit</strong></td>
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<td>○</td>
<td>○</td>
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<tr>
<td><strong>External signal line</strong></td>
<td>○</td>
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<tr>
<td><strong>Escaper electric break function</strong></td>
<td>-</td>
<td>○</td>
<td>-</td>
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<tr>
<td><strong>Yield time</strong></td>
<td>Approx. 1.5sec</td>
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<td>-</td>
</tr>
<tr>
<td><strong>Supported screw diameter</strong></td>
<td>M1.0 ~ M3.0</td>
<td>M1.0 ~ M3.0</td>
<td>M1.0 ~ M3.0</td>
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<tr>
<td><strong>Supported screw under-head length</strong></td>
<td>Up to 20 mm in length</td>
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<tr>
<td><strong>Screw capacity</strong></td>
<td>Approx. 80cc</td>
<td>Approx. 80cc</td>
<td>Approx. 80cc</td>
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</tbody>
</table>

### Model Diagrams

Full diagrams of each model can be downloaded from our website.
**NSBI / NSRI Series**

**Versatile Screw Feeder**

*High-precision, High-speed, and High-durability*

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### Features a rotary escaper
- Separates screws one at a time, ensuring they do not intersect for smooth take out.

### Special screws supported
- Allows you to stably feed SW screws or those with washers.

### Dramatic improvements in motor durability
- NSRI-B includes a brushless motor. The motor now has a greatly improved lifecycle. (6x greater)

### Flexible support for line changes
- Supports screws of varying diameters. Easy installation: simply set into place, and the portable size lets you adapt to line or workpiece changes.

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#### NSRI-B robotic device installation example
- Easy installation—simply drop into place. Makes maintenance and replacement easy.
- NSRI/NSRI-B: screw take out point features a signal notifying whether the screw is at the take out point.

- Rotating escaper allows for high-speed screw supply.
  - Accurately separates screws and supplies them at high speed.
  - Supports low profile screws.
  - Separates screws one at a time, ensuring they do not clog at the take out outlet.

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### Product type

<table>
<thead>
<tr>
<th>Supported screw diameter (mm)</th>
<th>NSRI Series</th>
<th>NSRI-B Series</th>
<th>NSRI-B Series</th>
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<tbody>
<tr>
<td>1.0</td>
<td>NSBI-10</td>
<td>NSRI-10</td>
<td>NSRI-B 10</td>
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<td>1.2</td>
<td>NSBI-12</td>
<td>NSRI-12</td>
<td>NSRI-B 12</td>
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<td>1.4</td>
<td>NSBI-14</td>
<td>NSRI-14</td>
<td>NSRI-B 14</td>
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<td>1.7</td>
<td>NSBI-17</td>
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<td>NSRI-B 17</td>
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<td>2.0</td>
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<td>NSRI-B 20</td>
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<td>2.3</td>
<td>NSRI-23</td>
<td>NSRI-23</td>
<td>NSRI-B 23</td>
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<td>2.8</td>
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<td>NSRI-28</td>
<td>NSRI-B 28</td>
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<td>3.0</td>
<td>NSRI-30</td>
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<td>NSRI-B 30</td>
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- For details, please refer to each product’s specifications section.

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#### Specifications

<table>
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<tr>
<th>Model type</th>
<th>NSRI</th>
<th>NSRI-B</th>
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<tbody>
<tr>
<td>Exterior dimensions</td>
<td>1250(L)×1820(W)×1450H</td>
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<tr>
<td>Power including AC adapter</td>
<td>105W</td>
<td></td>
</tr>
<tr>
<td>Driver</td>
<td>AC100V ~ 240V DC15V 1A AC adapter</td>
<td></td>
</tr>
<tr>
<td>Drive motor</td>
<td>DC brush motor / Stepper motor</td>
<td></td>
</tr>
<tr>
<td>Escapera protection/recovery circuit</td>
<td>○</td>
<td></td>
</tr>
<tr>
<td>Sensor signal line</td>
<td>○</td>
<td></td>
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<tr>
<td>Escaper backlash elimination function</td>
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<td>Escaper rotation time lag adjustment function</td>
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<tr>
<td>Waterproof</td>
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<tr>
<td>Supported screw diameter</td>
<td>M1.0 ~ M3.0</td>
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<tr>
<td>Supported screw under-head length</td>
<td>Up to 20 mm in length</td>
<td></td>
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<tr>
<td>Torque capacity</td>
<td>Approx. 80cc</td>
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<tr>
<td>Accessories and bundled items</td>
<td>Instruction manual, AC adapter, hex wrench, adjusting screwdriver, earth wire</td>
<td></td>
</tr>
</tbody>
</table>

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### Model Diagrams

Full diagrams of each model can be downloaded from our website.
OM-26M / OM-26R Series
High-speed and High-capacity Iron Screw Feeder

High-capacity model: 300cc
(only supports iron screws)

- **Features a rotary escaper**
  Separates screws one at a time, ensuring they do not intersect for smooth take out.

- **Supports standard bits from various screwdriver manufacturers**
  - BF screwdrivers
  - Suction screwdrivers

- **Large capacity: 300 cc**
  Supports a stock of 780 M3.0x12mm washer faced screws.

- **Special screws supported**
  Allows you to stably feed SW screws or those with washers.

- **Dramatic improvements in motor durability**
  OM-26RB: equipped with a brushless motor. The motor now has a greatly improved lifecycle. (3x greater)

- **High-capacity screw stock (4x that of the NSB type)**
  Magnetically conveys screws along rail for a stable feed. Design prevents screws from getting stuck. The rotating escaper also isolates screws one at a time in order to prevent take out errors.

- **Optional: quantity sensor**
  OM-26R/M screw quantity sensor (TKA09452)
  This is a screw quantity sensor (TKA09452) intended for use with the OM-26R/M Series Automatic Screw Feeder. Combines with the OM-26R/M in order to detect when the screw stock is low and send a signal. Please contact us regarding quantity sensors for other products.

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### Specifications

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<tr>
<th>Model name</th>
<th>OM-26M</th>
<th>OM-26R</th>
<th>OM-26RB</th>
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<tbody>
<tr>
<td>Diameter (including the rail)</td>
<td>119(W)×226(D)×152(H)</td>
<td>119(W)×226(D)×152(H)</td>
<td>119(W)×226(D)×152(H)</td>
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<tr>
<td>Supported screw diameter (mm)</td>
<td>M2.0 ~ M6.0</td>
<td>M2.0 ~ M6.0</td>
<td>M2.0 ~ M6.0</td>
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<tr>
<td>Screw head length (mm)</td>
<td>Longest: 25mm</td>
<td>Longest: 25mm</td>
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<td>Capacity</td>
<td>About 300cc</td>
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<tr>
<td>For iron screws</td>
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<td></td>
<td></td>
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<tr>
<td>Supported screw under-head length</td>
<td>Up to 25 mm in length</td>
<td>Up to 25 mm in length</td>
<td>Up to 25 mm in length</td>
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<tr>
<td>Available quantities and bundled items</td>
<td>Instruction manual, AC adapter, hex wrench, adjusting screwdriver, earth wire</td>
<td>Instruction manual, AC adapter, hex wrench, adjusting screwdriver, earth wire</td>
<td>Instruction manual, AC adapter, hex wrench, adjusting screwdriver, earth wire</td>
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</tbody>
</table>

### Model Diagrams

Full diagrams of each model can be downloaded from our website.
MSF Series
Micro-screw Feeder
Supports screws as small as S0.5

Specifications
- Model name: MSF
- Exterior dimensions: 71(W)×194(D)×132(H)
- Volume (including the rail): Approx. 2kgf
- Power: AC100V ~ 240V DC15V 1A AC adapter
- Drive motor: DC brush motor・Stepper motor
- External outlet terminal: ○
- Supported screw diameter: S0.5 ~ S1.0
- Supported screw under-head length: 1 ~ 5mm
- Screw capacity: Approx. 15cc
- Accessories and bundled items: Instruction manual, AC adapter, hex wrench, adjusting screwdriver, earth wire

Example of installation for a robotic device:
- Easy installation—simply drop into place. Makes maintenance and replacement easy.
- Screw take out point features a signal notifying whether the screw is at the take out point.
- Rotating escaper ensures accurate screw feed.

SS Series
Slim Screw Feeder
Super thin 55mm width is ideal for cell work

Specifications
- Model name: SS-12, SS-23
- Exterior dimensions: 55(W)×205(D)×143(H)
- Volume (including the rail): Approx. 2.4kgf
- Power: AC100V ~ 240V DC15V 1A AC adapter
- Drive motor: DC brush motor
- Overload protection/recovery circuit: ○ ○
- Supported screw diameter: M1.0 ~ M2.0, M2.3 ~ M3.0
- Supported screw under-head length: Up to 16mm in length
- Screw capacity: Approx. 40cc
- Accessories and bundled items: Instruction manual, AC adapter, hex wrench, adjusting screwdriver, earth wire

Example of installation for a robotic device:
- Easy installation—simply drop into place. Makes maintenance and replacement easy.
- Screw take out point features a signal notifying whether the screw is at the take out point.
- Rotating escaper ensures accurate screw feed.

Non-ferrous materials:
- Supports screws as small as S0.5
- Super thin 55mm width is ideal for cell work

Accurately and reliably isolates tiny screws:
Rotating escaper isolates even tiny screws one by one.

Space-saving slim design:
Compact, 70mm-wide design saves space.

Simple installation:
Easy installation—just set in place.

Product type
- MSF-05
- MSF-06
- MSF-07
- MSF-08
- MSF-10

Model Diagrams
Full diagrams of each model can be downloaded from our website.

Product type
- SS-12
- SS-23

Model Diagrams
Full diagrams of each model can be downloaded from our website.
SSI-M / SSI-R Series
Slim Screw Feeder

Compact size supports a wide range of assembly workflows and fits anywhere

- Space-saving slim design
  Compact, 65mm-wide design saves space.

- Stable rail movement without clog
  Horizontal rail system prevents screws from clogging or overlapping, achieving stable feed.

- Integrated output designed for use with general counters
  Send take out signal from output jack to connect a general-purpose counter.

<table>
<thead>
<tr>
<th>Model</th>
<th>SSI-12M</th>
<th>SSI-23M</th>
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<td>AC100V ~ 240V DC15V 1A AC adapter</td>
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<td>Drive motor</td>
<td>DC brush motor・Stepper motor</td>
<td>DC brush motor・Stepper motor</td>
<td>DC brush motor・Stepper motor</td>
<td>DC brush motor・Stepper motor</td>
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<td>Overload protection/recovery circuit</td>
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<td>Approx. 0.9sec</td>
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<td>M2.3 ~ M3.0</td>
<td>M1.0 ~ M2.0</td>
<td>M2.3 ~ M3.0</td>
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<td>Supported screw under-head length</td>
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<td>Up to 16 mm in length</td>
<td>Up to 16 mm in length</td>
<td>Up to 16 mm in length</td>
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<td>Screw capacity</td>
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<td>Approx. 40cc</td>
<td>Approx. 40cc</td>
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<td>Instruction manual, AC adapter, hex wrench, adjusting screwdriver, earth wire</td>
<td>Instruction manual, AC adapter, hex wrench, adjusting screwdriver, earth wire</td>
<td>Instruction manual, AC adapter, hex wrench, adjusting screwdriver, earth wire</td>
<td>Instruction manual, AC adapter, hex wrench, adjusting screwdriver, earth wire</td>
</tr>
</tbody>
</table>

Model Diagrams
Full diagrams of each model can be downloaded from our website.

Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>SSI-12M</th>
<th>SSI-23M</th>
<th>SSI-12R</th>
<th>SSI-23R</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>Approx. 3.3kg</td>
<td>Approx. 3.3kg</td>
<td>Approx. 3.3kg</td>
<td>Approx. 3.3kg</td>
</tr>
<tr>
<td>Motor</td>
<td>AC100V ~ 240V DC15V 1A AC adapter</td>
<td>DC brush motor・Stepper motor</td>
<td>DC brush motor・Stepper motor</td>
<td>DC brush motor・Stepper motor</td>
</tr>
<tr>
<td>Stroke (including the rail)</td>
<td>65mm×242mm×146mm</td>
<td>65mm×242mm×146mm</td>
<td>65mm×242mm×146mm</td>
<td>65mm×242mm×146mm</td>
</tr>
<tr>
<td>Control method</td>
<td>DC brush motor・Stepper motor</td>
<td>DC brush motor・Stepper motor</td>
<td>DC brush motor・Stepper motor</td>
<td>DC brush motor・Stepper motor</td>
</tr>
<tr>
<td>Motor controller</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>External outlet terminal</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Escaper S-shape controlling function</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Supported screw diameter</td>
<td>M1.0 ~ M2.0</td>
<td>M2.3 ~ M3.0</td>
<td>M1.0 ~ M2.0</td>
<td>M2.3 ~ M3.0</td>
</tr>
<tr>
<td>Supported screw under-head length</td>
<td>Up to 16 mm in length</td>
<td>Up to 16 mm in length</td>
<td>Up to 16 mm in length</td>
<td>Up to 16 mm in length</td>
</tr>
<tr>
<td>Screw capacity</td>
<td>Approx. 40cc</td>
<td>Approx. 40cc</td>
<td>Approx. 40cc</td>
<td>Approx. 40cc</td>
</tr>
<tr>
<td>Accessories and bundled items</td>
<td>Instruction manual, AC adapter, hex wrench, adjusting screwdriver, earth wire</td>
<td>Instruction manual, AC adapter, hex wrench, adjusting screwdriver, earth wire</td>
<td>Instruction manual, AC adapter, hex wrench, adjusting screwdriver, earth wire</td>
<td>Instruction manual, AC adapter, hex wrench, adjusting screwdriver, earth wire</td>
</tr>
</tbody>
</table>
Fixed-quantity take out
FM-36  FME-36
(External Configuration)

Accurately feeds the set number of screws

- Set of D-99
- Intervals: 0-9999
- Exterior take out signal
- Power outage memory protection feature

Stable rail movement without clog
Horizontal rail system prevents screws from clogging or overlapping, achieving stable feed.

Flexibly supports line changes
Supports screws of varying diameters. Easy installation: simply set into place, and the portable size lets you adapt to line or workpiece changes.

Long-running operation when combined with screw hopper
FM unit supports 150cc; add screw hopper for additional 400-1600cc stock.

Connect to unit for variable take out quantity (FME-36)
Change the fixed screw feed quantity using a PLC of a variety of manufacturers.
*The PLC interface (NEX-PLC) is exclusively for use with the FME-36.

Specifications

<table>
<thead>
<tr>
<th>Model name</th>
<th>FM-36</th>
<th>FME-36</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main component exterior dimensions</td>
<td>1360x90x260 (×2</td>
<td>1360x90x260 (×2)</td>
</tr>
<tr>
<td>Main component power supply</td>
<td>AC100V ~ 240V DC15V 1.6A AC adapter</td>
<td>DC brush motor</td>
</tr>
<tr>
<td>Motor type</td>
<td>DC brush motor</td>
<td>DC brush motor</td>
</tr>
<tr>
<td>Motor protection/resistance circuit</td>
<td></td>
<td></td>
</tr>
<tr>
<td>External signal line</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Brush switch/detection mechanism</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Number configuration</td>
<td>99 maximum</td>
<td>127 maximum</td>
</tr>
<tr>
<td>Supported screw diameter</td>
<td>M3.0 ~ M6.0</td>
<td>M3.0 ~ M6.0</td>
</tr>
<tr>
<td>Supported screw under-head length</td>
<td>Up to 25 mm in length</td>
<td>Up to 25 mm in length</td>
</tr>
<tr>
<td>Screw capacity</td>
<td>Approx. 150cc</td>
<td>Approx. 150cc</td>
</tr>
<tr>
<td>Accessories and bundled items</td>
<td>Instruction manual, AC adapter, hex wrench, adjusting screwdriver, earth wire</td>
<td>Instruction manual, AC adapter, hex wrench, adjusting screwdriver, earth wire</td>
</tr>
<tr>
<td>Extension rail exterior dimensions</td>
<td>1500x1150x600 (×4)</td>
<td>1500x1150x600 (×4)</td>
</tr>
<tr>
<td>Extension rail power supply</td>
<td>AC100V ~ 240V DC24V 1.3A AC adapter</td>
<td></td>
</tr>
</tbody>
</table>

*Note that some screw sizes may not support take out of 99 units.
LS / LV / LF Series
Large Longneck Screw Feeder

Supports screws and bolts with a diameter of up to M8.0 and an under-head length of 50mm. Ideal for feeding screws and bolts for automotive assembly, construction, and renovation applications.

- **Large capacity**
  - High-capacity stock between 1000~1300cc
- **We are equipped to support a range of needs**
  - Comes with six patterns that you can select based on the type of workpiece and intended use.
  - (Please refer to the suggested take out patterns)
- **Rivet supported**
  - Fixed-quantity alignment of rivet is supported.
  - As there is no need for reorientation of rivet in hand, it greatly improves work efficiency.

- **Supports screws and bolts of 3.0mm~8.0mm diameters**
  - Achieve a stable, horizontal feed even for large workpieces.
  - Configure up to 999 pieces. No need to check screw quantity each time.

- **Suggested take out patterns**
  - Manual
  - Robotic
  - Lever take out

- **Model Diagrams**
  - Full diagrams of each model can be downloaded from our website.

### Specifications

**Main component type**

<table>
<thead>
<tr>
<th>Supported screw diameter (mm)</th>
<th>LS-HM Series</th>
<th>LS-HR Series</th>
<th>LV Series</th>
</tr>
</thead>
<tbody>
<tr>
<td>M3.0</td>
<td>LS25-HM</td>
<td>LS50-HM</td>
<td>LS25-HR</td>
</tr>
<tr>
<td>M4.0</td>
<td>LS25-HM40</td>
<td>LS50-HM40</td>
<td>LS25-HR40</td>
</tr>
<tr>
<td>M5.0</td>
<td>LS25-HM50</td>
<td>LS50-HM50</td>
<td>LS25-HR50</td>
</tr>
<tr>
<td>M6.0</td>
<td>LS25-HM60</td>
<td>LS50-HM60</td>
<td>LS25-HR60</td>
</tr>
<tr>
<td>M8.0</td>
<td>LS25-HM80</td>
<td>LS50-HM80</td>
<td>LS25-HR80</td>
</tr>
</tbody>
</table>

**Screw capacity**

- Approx. 1300cc
- Approx. 1000cc
- Approx. 1300cc
- Approx. 1000cc
- Approx. 1300cc
- Approx. 1000cc
- Approx. 1000cc

**Dimensions**

- LS25-HM / LS50-HM
  - 169(W)×354(D)×229(H)
- LS25-HR / LS50-HR
  - 169(W)×347(D)×229(H)
- LV Series
  - 169(W)×354(D)×229(H)
- LV-H Series
  - 169(W)×354(D)×229(H)

**Power**

- AC100V ~ 240V / DC15V 1A

**Drive motor**

- DC brushless motor / DC brush motor

**Overload protection/recovery circuit**

- ○ ○ ○ ○ ○ ○ ○

**External outlet terminal**

- ○ ○ ○ ○ ○ ○ ○

**Safety function**

- Stopping operation when the cover of stock chamber is open

**supported screw diameter**

- M3.0 ~ M8.0

**support screw under-head length**

- Up to 25mm in length
- Up to 50mm in length
- Up to 25mm in length
- Up to 50mm in length
- Up to 25mm in length
- Up to 50mm in length
- Up to 25mm in length
- Up to 50mm in length

**Screw capacity**

- Approx. 1300cc
- Approx. 1000cc
- Approx. 1300cc
- Approx. 1000cc
- Approx. 1300cc
- Approx. 1000cc
- Approx. 1000cc

*Please inquire prior to placing an order. You are required to check the work bit you are using.*
BS Series

Pneumatic Screw Feeder

Pneumatically feeds screws to their destination in an instant.

- Use air pressure to convey screws to distant locations.
  Brings screws right to you using air pressure, dramatically improving work efficiency.
  *The default hose is 2.5 meters long, and it requires air tubing to be installed.

- Space-saving and high-capacity in one model.
  Separating the screw feed from take out points allows for a space-saving design.

- Four types based on different needs
  BS (manual and robotic) : pneumatically feeds screws in response to an external signal.
  BS-R (robotic take out) : sliding unit conveys screws to screwdriver pneumatically, greatly cutting down on yield time.
  BS-D (fixed quantity single take out) : takes out the number of screws and bolts set one at a time next to your hand.

- Use air pressure to convey screws to distant locations.
  Brings screws right to you using air pressure, dramatically improving work efficiency.

- Space-saving and high-capacity in one model.
  Separating the screw feed from take out points allows for a space-saving design.

- Four types based on different needs
  BS (manual and robotic) : pneumatically feeds screws in response to an external signal.
  BS-R (robotic take out) : sliding unit conveys screws to screwdriver pneumatically, greatly cutting down on yield time.
  BS-D (fixed quantity single take out) : takes out the number of screws and bolts set one at a time next to your hand.

- Screws are pneumatically fed by request through an external signal.
- Screws are fed to the screwdriver’s Y pipe with the screw side at the front.
- It is compatible with the screwdriver of screw-tightening robots and manual screw-tightening screwdrivers.

- Screws are pneumatically fed by request through an external signal.
  - Screws are fed to the screwdriver’s Y pipe with the screw side at the front.
  - It is compatible with the screwdriver of screw-tightening robots and manual screw-tightening screwdrivers.

- Screws are pneumatically fed by request through an external signal.
  - Screws are fed to the screwdriver’s Y pipe with the screw side at the front.
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- Screws are pneumatically fed by request through an external signal.
  - Screws are fed to the screwdriver’s Y pipe with the screw side at the front.
  - It is compatible with the screwdriver of screw-tightening robots and manual screw-tightening screwdrivers.
Screw Hopper

A sensor detects a screw stock to automatically feed the optimal amount of screws. Use this to make operation management easier.

**Product type**

- **SR-80** / **NJ-80** Rear-attaching Impeller Style Model
  - Easy installation—simply line up next to the screw feeder. It will not take up space on the upper surface.
  - Super compact model fits anywhere yet has room for a screw stock of 1600cc.
  - Use the timer to set the impeller operation time.

- **T-510** Conveyor Style, Surface Mounting Model
  - Easy installation—simply align on top of the screw feeder.
  - Even supports long screws.
  - Use the timer to set conveyor belt operation time.

- **RHP-160** Side and Rear Attaching High-Capacity Impeller Style Model
  - Easy installation—simply line up next to the screw feeder.
  - Supports a screw stock of approximately 1600cc.
  - Use the timer to set the operation time.

- **MHP-80** Magnetic Style, Rear Attaching Model
  - Easy installation—simply line up next to the screw feeder.
  - Even supports long screws.
  - Magnets are used to feed and convey screws.
  - Use the timer to set the magnet operation time.

**Stock capacity based on diameter and length of screw for 800cc:**

- **M2.3 x 5**, approx. 20,000; **M3.0 x 6**, approx. 5,600

**Stock capacity based on diameter and length of screw for 400cc:**

- **M2.3 x 5**, approx. 10,000; **M3.0 x 6**, approx. 2,800

*For details, please refer to each product’s specifications section.*

**Model Diagrams**

Full diagrams of each model can be downloaded from our website.

**Specifications**

<table>
<thead>
<tr>
<th>Model name</th>
<th>SJ-80</th>
<th>SJ-90</th>
<th>T-510</th>
<th>RHP-160</th>
<th>MHP-80</th>
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<tbody>
<tr>
<td>Exterior dimensions</td>
<td>142(W)×191(D)×189(H)</td>
<td>142(W)×191(D)×193(H)</td>
<td>130(W)×171(D)×245(H)</td>
<td>130(W)×171(D)×245(H)</td>
<td>130(W)×171(D)×245(H)</td>
</tr>
<tr>
<td>Volume (including rail)</td>
<td>Approx. 4.0kgf</td>
<td>Approx. 5.0kgf</td>
<td>Approx. 5.0kgf</td>
<td>Approx. 5.0kgf</td>
<td>Approx. 5.0kgf</td>
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<tr>
<td>Power</td>
<td>AC100V DC12V 5.5A IC adapter</td>
<td>AC100V DC10V 1A IC adapter</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Screw motor</td>
<td>DC brush motor</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>External signal line (providing quantity sensor)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Safety function</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Supported screw diameter</td>
<td>M2.0 ~ M6.0</td>
<td>M1.0 ~ M6.0</td>
<td>M2.0 ~ M6.0</td>
<td>M2.0 ~ M6.0</td>
<td>M2.0 ~ M6.0</td>
</tr>
<tr>
<td>Supported total length of screw</td>
<td>Up to 18 mm in length</td>
<td>Up to 25 mm in length</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Screw capacity</td>
<td>Approx. 800cc</td>
<td>Approx. 800cc</td>
<td>Approx. 1600cc</td>
<td>Approx. 1600cc</td>
<td>Approx. 800cc</td>
</tr>
<tr>
<td>Accessories and bundled items</td>
<td>Instruction manual, AC adapter, Screw splash-proof cover, mounting plate, attaching screw (only for T-510)</td>
<td>Instruction manual, AC adapter, Screw splash-proof cover, mounting plate, attaching screw (only for SJ-80)</td>
<td>Instruction manual, AC adapter, Screw splash-proof cover, adjusting screw, attaching screw (only for SJ-80)</td>
<td>Instruction manual, AC adapter, Screw splash-proof cover, mounting plate, attaching screw (only for SJ-80)</td>
<td>Instruction manual, AC adapter, Screw splash-proof cover, adjusting screw, attaching screw (only for SJ-80)</td>
</tr>
</tbody>
</table>
FAQ

Q Can I increase screw capacity for the screw feeder? You can add a screw hopper to add capacity of 400–1600cc.

Q Self-tapping screws are not working as intended. Why? One possible cause is that M3,5 tolerance screws are intermingled with M3.0 tapping screws. If handling workpieces with large differences in screw tolerance, select a product based on the maximum screw and bolt diameter.

Q I want to use a hexagon socket head cap bolt. If you are considering a hexagon socket head cap bolt, please inquire at our dealer before placing an order.

Q Can I have model diagrams? They can be downloaded from our website.

Q Do you support special screw and bolt shapes? If you are considering a device for a specialized screw or bolt, please print out the Special Order Form from our website, complete it, and submit it to one of our dealers.

Q Can I have extra parts for maintenance? To purchase extra parts, please contact the dealer where you purchased the product.

Q How can I fix a feeder for a robotic device? This is described in the product manual available on our website.

Q I want to know more about options. Please refer to our website.

Signals obtained from signal line
- Manual models: Signal of the screw take out can be obtained.
- Robotic models: Signal of whether there is a screw in the screw take out point can be obtained.
- Fixed quantity take out models: Signal of feed completion for set number of screws can be obtained.

For customers seeking repairs
Print out a repair request form from our website, complete it, and submit it to the dealer where you purchased the product. Include the repair request form with your item to be repaired.
If you do not have a printer, please include the details indicated on the right on a piece of paper.
Website: www.ohtake-root.co.jp