

# Automatic Screw / Bolt Feeder

## General Catalog



# Features of OHTAKE Automatic Screw / Bolt Feeders

OHTAKE's automatic screw feeders make use of a horizontal rail system, which supports a wide range of screw materials and shapes, diverse workstyles, and workpiece dimensions. This unique mechanism and advanced technology can hugely contribute to the efficiency of your production line.



Compatible with line changes for adjustments to screw diameter and shape, significantly improving QC and productivity

Automatic screw feeders dramatically increase the speed of tightening screws. Through ease of use and employing the world's first swappable rail mechanism, these devices allow you to work with screws of varying diameters and formats. Even if changing a workpiece entails different screw diameters, all you need to do is swap in a new rail. There is no need to replace the feed mechanism itself, reducing equipment costs. The horizontal rail mechanism offers speedy and stable screw feeding, highly versatile design, and ease of use in our OHTAKE automatic screw feeders, driving highly efficient screw-tightening work.



**High-Speed and Smooth**

**Fixed-Point Pick Up**

**Fixed-Quantity Pick Up**

## + Supports screws with washers and special formats

The horizontal rail enables the smooth feeding of numerous types of special screws, including those with washers and with short under-head lengths.



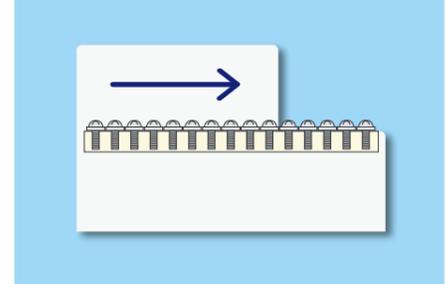
## Other key features

- Easy to handle and operate: Simply install 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.
- It takes only 5 seconds with a single hex wrench to swap the rail 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.



## + The horizontal rail provides a stable, orderly array of screws

Unlike gravity-based feed mechanisms, this one uses vibration to convey screws in a horizontal rail, doing away with problems like screw-clogging and allowing stable feeding, even for screws with attached washers.



## + The average screw feed time is 2 per second

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

## + Makes work easier

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

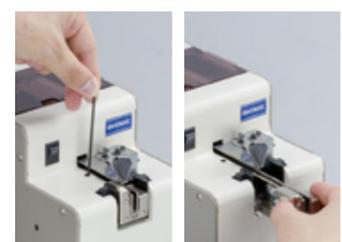
## + Supports standard bits from various screwdriver manufacturers

No need to attach a specialized bit to electric screwdrivers. Simply use the standard bits you are accustomed to using. Bring magnetized bits perpendicular with 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.

## + Accommodate different screw diameters by simply swapping rails

It supports numerous screw types with ease—all you need to do is to swap in the rail for a given screw diameter. For example, NSB models support up to 8 screw diameters in a single device.

Some models require exchanging parts in addition to swapping the rail.



**Selection Process**

**1 Select by use**

First, select from "manual," "robotic," or "fixed-quantity pick up."

**2 Select by workpiece diameter**

Select models based on the diameter of the workpiece (as indicated by ●).

**3 Select by workpiece length (based on the longest ones)**

Select models based on the length of the workpiece—under-head length for feeders and total length for screw hoppers.

**4 Select by workpiece material**

Select models based on the material of the workpiece.

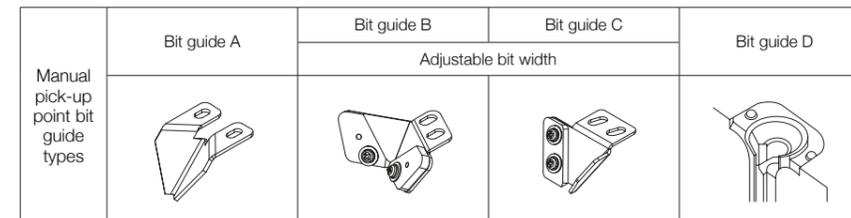
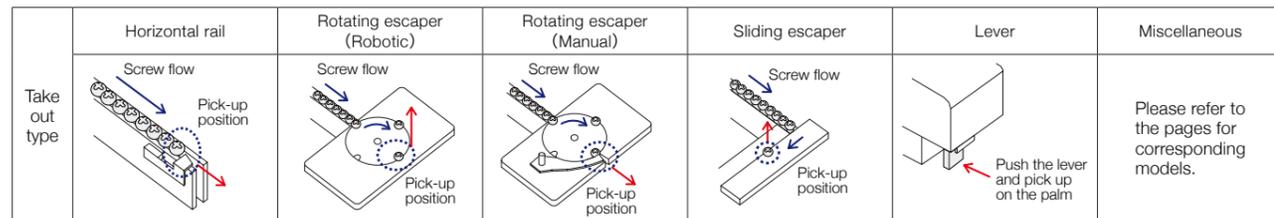
**Find details on the product pages**

**List of Models**

| 1                      | 2      |         |               |           |   |      |      |      |      |      |      |      |      |      |      |      | 3    | 4                              | Capacity             | Picking up type                       | Drive method                         | Supported screw hopper               | Features                             | Page No.      |  |                     |                     |   |  |
|------------------------|--------|---------|---------------|-----------|---|------|------|------|------|------|------|------|------|------|------|------|------|--------------------------------|----------------------|---------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|---------------|--|---------------------|---------------------|---|--|
|                        | Use    | Series  | Appearance    | Model     | Supported screw and bolt size (by workpiece diameter) |      |      |      |      |      |      |      |      |      |      |      |      |                                |                      |                                       |                                      |                                      |                                      |               | Supported screw/bolt maximum under-head length | Supported materials |                     |   |  |
|                        |        |         |               | S0.5-S1.0 | M1.0  | M1.2 | M1.4 | M1.7 | M2.0 | M2.3 | M2.6 | M3.0 | M3.5 | M4.0 | M5.0 | M6.0 | M8.0 |                                |                      |                                       |                                      |                                      |                                      |               |  |                     |                     |   |  |
| Manual                 | NJ     |         | NJ-23         |           |   |      |      |      | ●    | ●    | ●    | ●    |      |      |      |      |      |                                | 18mm                 | Rail + bit guide A                    | Cam (not adjustable)                 | NJ-80 / T-510J / RHP-160J / *MHP-80J | -                                    | 5             |  |                     |                     |   |  |
|                        |        |         | NJC-23        |           |   |      |      |      | ●    | ●    | ●    | ●    |      |      |      |      |      |                                | 25mm                 |                                       |                                      |                                      | With counter                         |               |  |                     |                     |   |  |
|                        |        |         | NJL-23        |           |   |      |      |      | ●    | ●    | ●    | ●    |      |      |      |      |      |                                | 18mm                 |                                       |                                      |                                      | -                                    |               |  |                     |                     |   |  |
|                        |        |         | NJ-45         |           |   |      |      |      |      |      |      |      |      | ●    | ●    | ●    | ●    | Special                        | 25mm                 |                                       |                                      |                                      | With counter                         |               |  |                     |                     |   |  |
|                        |        |         | NJC-45        |           |   |      |      |      |      |      |      |      |      | ●    | ●    | ●    | ●    |                                | 18mm                 |                                       |                                      |                                      | -                                    |               |  |                     |                     |   |  |
|                        | NSB    | NSB     |               | NSB       |   | ●    | ●    | ●    | ●    | ●    | ●    | ●    | ●    |      |      |      |      |                                | 20mm                 | Rail + bit guide B                    | Cam (screw-adjustable)               | SR-80 / T-510S / *MHP-80S            | -                                    | 7             |  |                     |                     |   |  |
|                        |        |         |               | NSBC      |   | ●    | ●    | ●    | ●    | ●    | ●    | ●    | ●    |      |      |      |      |                                |                      |                                       |                                      |                                      | With counter                         |               |  |                     |                     |   |  |
|                        |        | NSBI    |               | NSBI      |   | ●    | ●    | ●    | ●    | ●    | ●    | ●    | ●    |      |      |      |      |                                |                      | Rotating escaper + bit guide B        | Solenoid (VOL adjustment)            | None                                 | -                                    |               |  |                     |                     |   |  |
|                        |        |         |               | SS-12     |   | ●    | ●    | ●    | ●    | ●    | ●    | ●    | ●    |      |      |      |      |                                |                      |                                       |                                      |                                      | 40cc                                 |               | Rail + bit guide C                             | None                | -                   |   |  |
|                        |        | SS      |               | SS-23     |   |      |      |      |      |      |      |      |      |      |      |      |      |                                |                      | 16mm                                  | Rotating escaper + bit guide B       | None                                 |                                      |               |  |                     | -                   |   |  |
|                        |        |         |               | SSI-M     |   | ●    | ●    | ●    | ●    | ●    | ●    | ●    | ●    |      |      |      |      |                                |                      |                                       |                                      |                                      | 25mm                                 |               | Rotating escaper + bit guide A                 | RHP-160M / *MHP-80M | -                   |   |  |
|                        |        | OM-26M  |               | OM-26M    |   |      |      |      |      |      | ●    | ●    | ●    | ●    | ●    | ●    | ●    | ●                              |                      | 25mm                                  | Rotating escaper + bit guide A       | Solenoid (VOL adjustment)            |                                      |               |  |                     | RHP-160M / *MHP-80M | - |  |
| OM-26M (T063)          |        |         |               |           |   |      |      |      | ●    | ●    | ●    | ●    | ●    | ●    | ●    | ●    | 50mm | Rotating escaper + bit guide D | None                 |                                       |                                      |                                      | Remaining quantity sensor (optional) |               |  |                     |                     |   |  |
| LS-HM                  |        | LS25-HM |               |           |   |      |      |      |      |      |      |      | ●    | ●    | ●    | ●    |      |                                |                      | 25mm                                  | Rotating escaper + bit guide D       | None                                 | Remaining quantity sensor (optional) | 19            |  |                     |                     |   |  |
|                        |        | LS50-HM |               |           |   |      |      |      |      |      |      |      |      | ●    | ●    | ●    | ●    | 50mm                           |                      |                                       |                                      |                                      |                                      |               |  |                     |                     |   |  |
| Robotic                | NJR    |         | NJR-23        |           |   |      |      |      | ●    | ●    | ●    | ●    |      |      |      |      |      | 18mm                           | Slide                | Cam (not adjustable)                  | NJ-80 / T-510J / RHP-160J / *MHP-80J | -                                    | 5                                    |               |  |                     |                     |   |  |
|                        |        |         | NJRL-23       |           |   |      |      |      | ●    | ●    | ●    | ●    |      |      |      |      |      | 25mm                           |                      |                                       |                                      | -                                    |                                      |               |  |                     |                     |   |  |
|                        |        |         | NJR-45        |           |   |      |      |      |      |      |      |      |      | ●    | ●    | ●    | ●    | Special                        |                      |                                       |                                      | 18mm                                 |                                      | -             |  |                     |                     |   |  |
|                        |        |         | NJRL-45       |           |   |      |      |      |      |      |      |      |      | ●    | ●    | ●    | ●    | Special                        |                      |                                       |                                      | 25mm                                 |                                      | -             |  |                     |                     |   |  |
|                        | NSR    |         | NSR           |           | ●   | ●    | ●    | ●    | ●    | ●    | ●    | ●    |      |      |      |      |      | 20mm                           | Slide                | Cam (screw-adjustable)                | SR-80 / T-510S / *MHP-80S            | -                                    |                                      |               |  |                     |                     |   |  |
|                        |        |         | NSRI          |           | ●   | ●    | ●    | ●    | ●    | ●    | ●    | ●    |      |      |      |      |      |                                |                      |                                       |                                      | Rotating escaper                     | -                                    |               |  |                     |                     |   |  |
|                        | SSI-R  |         | SSI-12R       |           | ●   | ●    | ●    | ●    | ●    | ●    | ●    | ●    |      |      |      |      |      | 16mm                           | Rotating escaper     | Solenoid (VOL adjustment)             | None                                 | -                                    |                                      |               |  |                     |                     |   |  |
|                        |        |         | SSI-23R       |           |   |      |      |      |      |      | ●    | ●    | ●    |      |      |      |      |                                |                      |                                       |                                      | Rotating escaper                     | -                                    |               |  |                     |                     |   |  |
|                        | OM-26R |         | OM-26R        |           |   |      |      |      |      | ●    | ●    | ●    | ●    | ●    | ●    | ●    | ●    | 25mm                           | Rotating escaper     | Solenoid (VOL adjustment)             | RHP-160M / *MHP-80M                  | -                                    |                                      |               |  |                     |                     |   |  |
|                        |        |         | OM-26R (T063) |           |   |      |      |      |      | ●    | ●    | ●    | ●    | ●    | ●    | ●    | ●    |                                |                      |                                       |                                      | Rotating escaper                     | Remaining quantity sensor            |               |  |                     |                     |   |  |
|                        | LS-HR  |         | LS25-HR       |           |   |      |      |      |      |      |      |      |      | ●    | ●    | ●    | ●    | 25mm                           | Rotating escaper     | Solenoid (VOL adjustment)             | None                                 | Remaining quantity sensor (optional) |                                      |               |  |                     |                     |   |  |
|                        |        |         | LS50-HR       |           |   |      |      |      |      |      |      |      |      |      | ●    | ●    | ●    |                                |                      |                                       |                                      | ●                                    | 50mm                                 | -             |  |                     |                     |   |  |
| MSF                    |        | MSF     | ●             |           |   |      |      |      |      |      |      |      |      |      |      |      | 5mm  | Rotating escaper               | None                 | -                                     | 13                                   |                                      |                                      |               |  |                     |                     |   |  |
| Fixed-quantity pick up | FM-36  |         | FM-36         |           |   |      |      |      |      |      |      |      | ●    | ●    | ●    | ●    | 25mm | Lever                          | Cam (not adjustable) | NJ-80F / T-510F / RHP-160F / *MHP-80F | -                                    |                                      |                                      |               |  |                     |                     |   |  |
|                        |        |         | FME-36        |           |   |      |      |      |      |      |      |      |      | ●    | ●    | ●    |      |                                |                      |                                       | ●                                    | Communication functionality          |                                      |               |  |                     |                     |   |  |
|                        | LV     |         | LV25          |           |   |      |      |      |      |      |      |      |      | ●    | ●    | ●    | ●    | 25mm                           | Lever                | Solenoid (VOL adjustment)             | None                                 | Remaining quantity sensor (optional) |                                      |               |  |                     |                     |   |  |
| LV50                   |        |         |               |           |   |      |      |      |      |      |      |      |      | ●    | ●    | ●    | ●    |                                |                      |                                       |                                      |                                      | 50mm                                 | Miscellaneous | -  | 19                  |                     |   |  |

\*\*For the screw hoppers, the compatible length of the screw may differ from that of the feeder it is combined with. Please check the compatibility before use.  
\*Depending on the shape of the screw, the screw hopper may not be compatible with it.

\*MHP-80 is only compatible with iron screws (due to the use of a magnet).



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## Features

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## Selecting Models and the Model List

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## FAQ

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Signals obtained from signal line

Automatic screw feeder's AC adapter plug formats

# NJ / NJR Series All-Around Screw Feeder

Supports wider screw diameters than the NS/NSR series and has greater capacity, making it even more useful.

|                                 |   |                           |                                  |
|---------------------------------|---|---------------------------|----------------------------------|
| Supported diameter<br>M2.0-M5.0 | Supported under-head length<br>Longest: 18/25mm | Capacity<br>Approx. 150cc | Non-ferrous materials: supported |
|---------------------------------|---|---------------------------|----------------------------------|

\*For details, please refer to each product's specifications.

|         |                               |
|---------|-------------------------------|
| Manual  | NJ-23 NJ-45 NJL-23 NJL-45     |
|         | NJC-23 NJC-45                 |
| Robotic | NJR-23 NJR-45 NJRL-23 NJRL-45 |



## 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

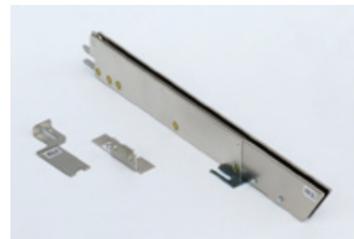
Use a screw hopper for long-running unmanned operations.

## Smooth screw feeding

- Provides ongoing, timely feeding of screws to match robot operations.
- The NJ type allows the screw pick-up signal to be sent through an external outlet.
- The NSR type allows for a signal to be sent through an external outlet to notify whether a screw is present at a screw pick-up point.



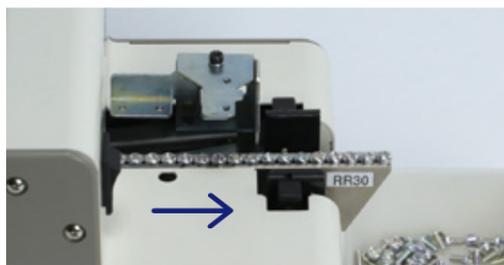
NJ Series: Swap rail set (passing plate, rail)



NJR Series: Swap rail set (passing plate, escaper, rail)



\*NJ Series: Swap rail set (retainer plate for countersunk screws)



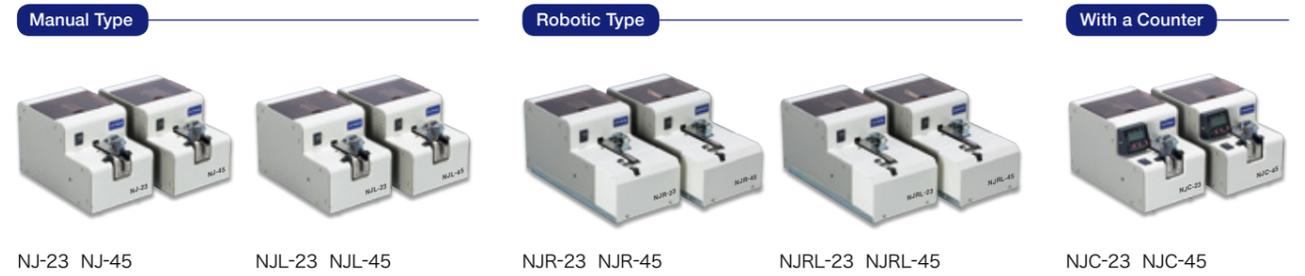
Sample applications / NJ + RR (rail for robotic devices)

## Swap rails in/out.

This single unit supports a wide range of screws. For example, the NJ-23 supports four types of screws in a single unit. Allows the angle of rail inclination to be adjusted based on the screw being used.

## Example usage of combining NJ and RR rails

Use as a horizontal feeder for continuous feeding to robotic devices. If you are seeking the same functionality in a different model, please contact us.



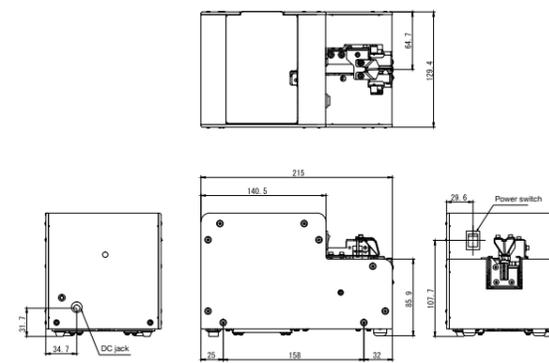
## Compatibility Table

| Supported screw diameter (mm) | Main component type |            |            |             |            | Swap rail set type |            |            |             |            |
|-------------------------------|---------------------|------------|------------|-------------|------------|--------------------|------------|------------|-------------|------------|
|                               | NJ Series           | NJL Series | NJR Series | NJRL Series | NJC Series | NJ Series          | NJL Series | NJR Series | NJRL Series | NJC Series |
| 2.0                           | NJ-2320             | NJL-2320   | NJR-2320   | NJRL-2320   | NJC-2320   | R20SET             | RL20SET    | RR20SET    | RRL20SET    | R20SET     |
| 2.3                           | NJ-2323             | NJL-2323   | NJR-2323   | NJRL-2323   | NJC-2323   | R23SET             | RL23SET    | RR23SET    | RRL23SET    | R23SET     |
| 2.6                           | NJ-2326             | NJL-2326   | NJR-2326   | NJRL-2326   | NJC-2326   | R26SET             | RL26SET    | RR26SET    | RRL26SET    | R26SET     |
| 3.0                           | NJ-2330             | NJL-2330   | NJR-2330   | NJRL-2330   | NJC-2330   | R30SET             | RL30SET    | RR30SET    | RRL30SET    | R30SET     |
| 3.5                           | NJ-4535             | NJL-4535   | NJR-4535   | NJRL-4535   | NJC-4535   | R35SET             | RL35SET    | RR35SET    | RRL35SET    | R35SET     |
| 4.0                           | NJ-4540             | NJL-4540   | NJR-4540   | NJRL-4540   | NJC-4540   | R40SET             | RL40SET    | RR40SET    | RRL40SET    | R40SET     |
| 5.0                           | NJ-4550             | NJL-4550   | NJC-4550   | NJRL-4550   | NJC-4550   | R50SET             | RL50SET    | RR50SET    | RRL50SET    | R50SET     |

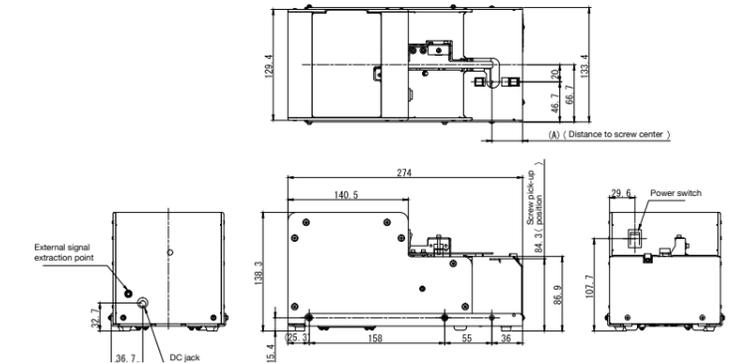
## Model Diagrams

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

### NJ Series



### NJR Series



## Specifications

| Model name                           | NJ-23   | NJ-45       | NJL-23                | NJL-45      | NJR-23                | NJR-45    | NJRL-23               | NJRL-45   | NJC-23                | NJC-45    |
|--------------------------------------|---|-------------|-----------------------|-------------|-----------------------|-----------|-----------------------|-----------|-----------------------|-----------|
| Exterior dimensions                  | 134(W)×215(D)×139(H)  |             |                       |             | 134(W)×274(D)×139(H)  |           |                       |           | 134(W)×215(D)×139(H)  |           |
| Volume (including the rail)          | Approx. 3.7kgf  |             |                       |             | Approx. 4.4kgf        |           |                       |           | Approx. 3.7kgf        |           |
| Power                                | AC100V-240V DC15V 1A AC adapter   |             |                       |             |                       |           |                       |           |                       |           |
| 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 | φ 2.0-φ 3.0           | φ 3.5-φ 5.0 | M2.0-M3.0             | M3.5-M5.0 | M2.0-M3.0             | M3.5-M5.0 | M2.0-M3.0             | M3.5-M5.0 |
| Supported screw under-head length    | Up to 18 mm in length   |             | Up to 25 mm in length |             | Up to 18 mm in length |           | Up to 25 mm in length |           | Up to 18 mm in length |           |
| Screw capacity                       | Approx. 150cc   |             |                       |             |                       |           |                       |           |                       |           |
| Accessories and bundled items        | Instruction manual, AC adapter, hex wrench, adjusting screwdriver, earth wire |             |                       |             |                       |           |                       |           |                       |           |

\*If you are looking for equivalent parts for other models, please inquire.

# NSB / NSR Series Versatile Screw Feeder

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

|                                 |  |                          |                                  |
|---------------------------------|--|--------------------------|----------------------------------|
| Supported diameter<br>M1.0-M3.0 | Supported under-head length<br>Longest: 20mm | Capacity<br>Approx. 80cc | Non-ferrous materials: supported |
|---------------------------------|--|--------------------------|----------------------------------|

\*For details, please refer to each product's specifications.

|         |          |
|---------|----------|
| Manual  | NSB NSBC |
| Robotic | NSR      |



## ⊕ 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 the angle of rail inclination to be adjusted 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 higher capacity.
- The NSB type allows for a screw pick-up signal to be sent 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 pick-up point through an external outlet.

## ■ A single unit supports 8 different screw diameters.

- The NSB type supports 8 types of screw diameters through simple rail-swapping (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 the rail from behind.



NSB rail



NSR rails and escapers

## ■ One-touch rail-swapping

Swapping rails based on changes in screw diameter is easy (NSB type).



### Manual Type



NSB

### Robotic Type



NSR

### With a Counter



NSBC

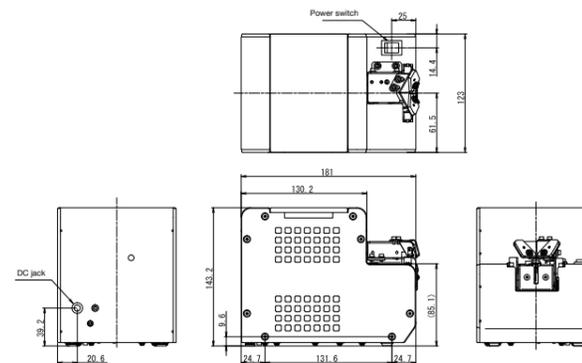
## Compatibility Table

| Supported screw diameter (mm) | Main component type |            |             | Swap rail set type |            |             |
|-------------------------------|---------------------|------------|-------------|--------------------|------------|-------------|
|                               | NSB Series          | NSR Series | NSBC Series | NSB Series         | NSR Series | NSBC Series |
| 1.0                           | NSB-10              | NSR-10     | NSBC-10     | SR10SET            | SRR10SET   | SR10SET     |
| 1.2                           | NSB-12              | NSR-12     | NSBC-12     | SR12SET            | SRR12SET   | SR12SET     |
| 1.4                           | NSB-14              | NSR-14     | NSBC-14     | SR14SET            | SRR14SET   | SR14SET     |
| 1.7                           | NSB-17              | NSR-17     | NSBC-17     | SR17SET            | SRR17SET   | SR17SET     |
| 2.0                           | NSB-20              | NSR-20     | NSBC-20     | SR20SET            | SRR20SET   | SR20SET     |
| 2.3                           | NSB-23              | NSR-23     | NSBC-23     | SR23SET            | SRR23SET   | SR23SET     |
| 2.6                           | NSB-26              | NSR-26     | NSBC-26     | SR26SET            | SRR26SET   | SR26SET     |
| 3.0                           | NSB-30              | NSR-30     | NSBC-30     | SR30SET            | SRR30SET   | SR30SET     |

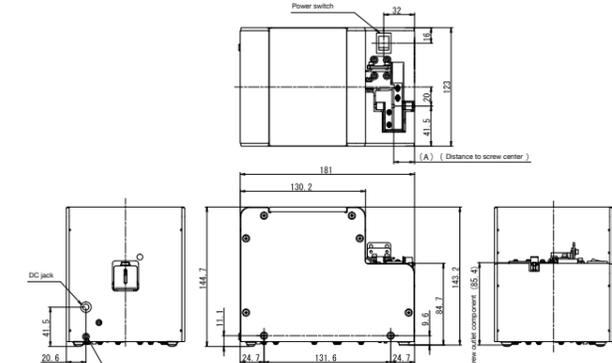
## Model Diagrams

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

### NSB Series



### NSR Series



## Specifications

| Model name                           | NSB  | NSR   | NSBC   |
|--------------------------------------|--|---|--|
| Exterior dimensions                  | 123(W)×181(D)×145(H)   |   |  |
| Volume (including the rail)          | Approx. 2.9kgf   | Approx. 3.0kgf  | Approx. 2.9kgf   |
| Power                                | AC100V - 240V DC15V 1A AC adapter  |   |  |
| Drive motor                          | DC brush motor   |   |  |
| Overload protection/recovery circuit | ○  | ○   | ○  |
| External signal line                 | ○  | ○   | ○  |
| Escaper electric break function      | -  | ○   | -  |
| Yield time                           | -  | Approx. 1.5sec  | -  |
| Supported screw diameter             | M1.0-M3.0  |   |  |
| Supported screw under-head length    | Up to 20 mm in length  |   |  |
| Screw capacity                       | Approx. 80cc   |   |  |
| Accessories and bundled items        | Instruction manual, AC adapter, hex wrench, adjusting screwdriver, 0.35 mm gauge plate, earth wire | Instruction manual, AC adapter, hex wrench, adjusting screwdriver, earth wire | Instruction manual, AC adapter, hex wrench, adjusting screwdriver, 0.35 mm gauge plate, earth wire |

# NSBI / NSRI Series Versatile Screw Feeder

High-Precision, High-Speed,  
and High-Durability

|                                 |  |                          |                                  |
|---------------------------------|--|--------------------------|----------------------------------|
| Supported diameter<br>M1.0-M3.0 | Supported under-head length<br>Longest: 20mm | Capacity<br>Approx. 80cc | Non-ferrous materials: supported |
|---------------------------------|--|--------------------------|----------------------------------|

\*For details, please refer to each product's specifications.

Manual NSBI  
Robotic NSRI NSRI-B (With brushless motor)



## ⊕ Features a rotary escaper

Separates screws one at a time, ensuring they do not intersect for smooth pick up.

## ⊕ 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, which has a greatly improved lifecycle (3x greater).

## ⊕ Flexible support for line changes

Supports screws of varying diameters. Easy installation and the portable size allow you to adapt to line or workpiece changes effortlessly.

Manual Type



NSBI

Robotic Type



NSRI

With Brushless Motor



NSRI-B

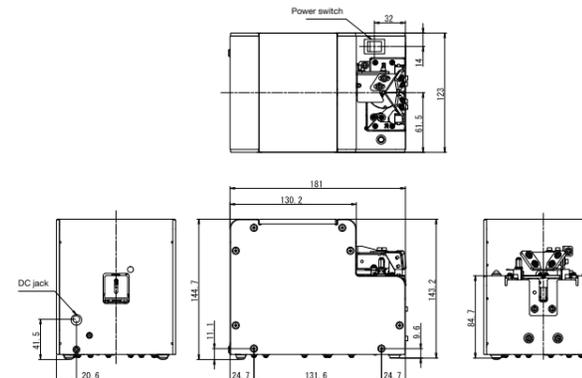
## Compatibility Table

| Supported screw diameter (mm) | Main component type |             |               | Swap rail set type |             |               |
|-------------------------------|---------------------|-------------|---------------|--------------------|-------------|---------------|
|                               | NSBI Series         | NSRI Series | NSRI-B Series | NSBI Series        | NSRI Series | NSRI-B Series |
| 1.0                           | NSBI-10             | NSRI-10     | NSRI-10B      | BI10SET            | RI10SET     | RI10SET2      |
| 1.2                           | NSBI-12             | NSRI-12     | NSRI-12B      | BI12SET            | RI12SET     | RI12SET2      |
| 1.4                           | NSBI-14             | NSRI-14     | NSRI-14B      | BI14SET            | RI14SET     | RI14SET2      |
| 1.7                           | NSBI-17             | NSRI-17     | NSRI-17B      | BI17SET            | RI17SET     | RI17SET2      |
| 2.0                           | NSBI-20             | NSRI-20     | NSRI-20B      | BI20SET            | RI20SET     | RI20SET2      |
| 2.3                           | NSBI-23             | NSRI-23     | NSRI-23B      | BI23SET            | RI23SET     | RI23SET2      |
| 2.6                           | NSBI-26             | NSRI-26     | NSRI-26B      | BI26SET            | RI26SET     | RI26SET2      |
| 3.0                           | NSBI-30             | NSRI-30     | NSRI-30B      | BI30SET            | RI30SET     | RI30SET2      |

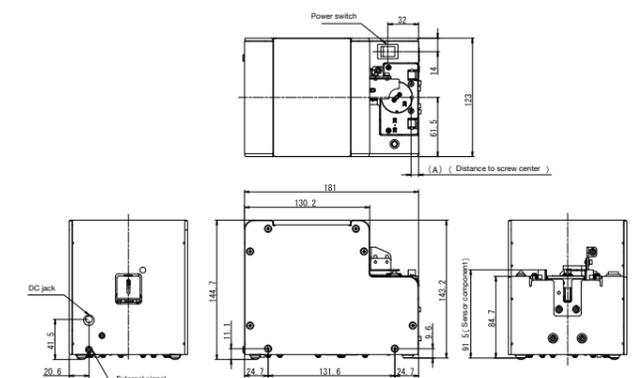
## Model Diagrams

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

NSBI Series



NSRI Series



## Specifications

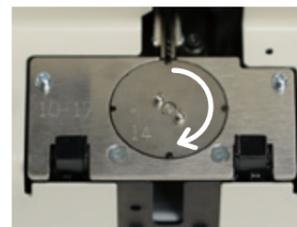
| Model name                                    | NSBI  | NSRI | NSRI-B                            |
|---|---|------|-----------------------------------|
| Exterior dimensions                           | 123(W)×181(D)×145(H)  |      |                                   |
| Volume (including the rail)                   | Approx. 3.0kgf  |      |                                   |
| Power   | AC100V – 240V DC15V 1A AC adapter   |      |                                   |
| Drive motor                                   | DC brush motor, stepper motor   |      | DC brushless motor, stepper motor |
| Overload protection/recovery circuit          | ○   | ○    | ○                                 |
| External signal line                          | ○   | ○    | ○                                 |
| Escaper S-shape controlling function          | ○   | ○    | ○                                 |
| Escaper rotation time lag adjustment function | -   | -    | ○                                 |
| Yield time                                    | Approx. 0.9sec  |      |                                   |
| Supported screw diameter                      | M1.0 – M3.0   |      |                                   |
| Supported screw under-head length             | Up to 20 mm in length   |      |                                   |
| Screw capacity                                | Approx. 80cc  |      |                                   |
| Accessories and bundled items                 | Instruction manual, AC adapter, hex wrench, adjusting screwdriver, earth wire |      |                                   |

## NSRI-B robotic device installation example

- Easy installation—simply drop it into place—makes maintenance and replacement easy.
- NSRI/NSRI-B: Features a signal to notify whether a screw is at the pick-up point.



NSRI-B robotic device installation example



Rotating escaper

## Escaper

- < High-speed screw supply >  
Rotating escaper accurately separates screws and supplies them at a high speed.
- < Supports low-profile screws >  
Supports screws with as low a profile as 0.35mm by default (or 0.2mm by special order).
- < Clogging-free mechanism >  
Separates screws one at a time, ensuring they do not clog at the pick-up outlet.

# OM-26M / OM-26R Series High-Speed and High-Capacity Iron-Screw Feeder

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

|                                 |  |                           |                 |
|---------------------------------|--|---------------------------|-----------------|
| Supported diameter<br>M2.0-M6.0 | Supported under-head length<br>Longest: 25mm | Capacity<br>Approx. 300cc | For iron screws |
|---------------------------------|--|---------------------------|-----------------|

\*For details, please refer to each product's specifications.

|         |                                       |
|---------|---------------------------------------|
| Manual  | OM-26M                                |
| Robotic | OM-26R OM-26RB (With brushless motor) |



- ⊕ Features a rotary escaper**  
Separates screws one at a time, ensuring they do not intersect for smooth pick up.
- ⊕ Supports standard bits from various screwdriver manufacturers**
  - Bit screwdrivers
  - Suction screwdrivers
- ⊕ Large capacity: 300 cc**  
Supports a stock of approx. 780 M3.0 x 12mm washer-faced screws.
- ⊕ Special screws supported**  
Allows you to stably feed SW screws or those with washers.
- ⊕ Dramatic improvements in motor durability**  
OM-26RB is equipped with a brushless motor, which has a greatly improved lifecycle (3x greater).



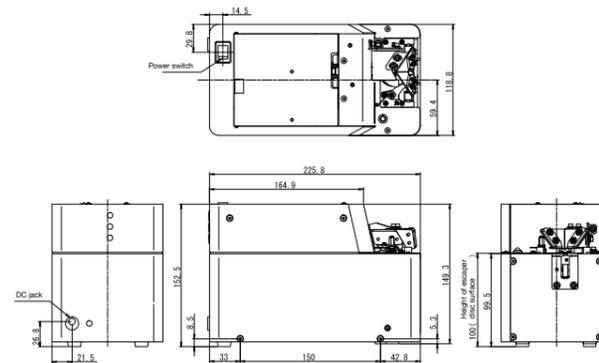
## Compatibility Table

| Supported screw diameter (mm) | Main component type |               |                | Swap rail set type |               |                |
|-------------------------------|---------------------|---------------|----------------|--------------------|---------------|----------------|
|                               | OM-26M Series       | OM-26R Series | OM-26RB Series | OM-26M Series      | OM-26R Series | OM-26RB Series |
| 2.0                           | OM-26M20            | OM-26R20      | OM-26RB20      | OMM20SET           | OMR20SET      | OMR20SET2      |
| 2.3                           | OM-26M23            | OM-26R23      | OM-26RB23      | OMM23SET           | OMR23SET      | OMR23SET2      |
| 2.6                           | OM-26M26            | OM-26R26      | OM-26RB26      | OMM26SET           | OMR26SET      | OMR26SET2      |
| 3.0                           | OM-26M30            | OM-26R30      | OM-26RB30      | OMM30SET           | OMR30SET      | OMR30SET2      |
| 3.5                           | OM-26M35            | OM-26R35      | OM-26RB35      | OMM35SET           | OMR35SET      | OMR35SET2      |
| 4.0                           | OM-26M40            | OM-26R40      | OM-26RB40      | OMM40SET           | OMR40SET      | OMR40SET2      |
| 5.0                           | OM-26M50            | OM-26R50      | OM-26RB50      | OMM50SET           | OMR50SET      | OMR50SET2      |
| 6.0                           | OM-26M60            | OM-26R60      | OM-26RB60      | OMM60SET           | OMR60SET      | OMR60SET2      |

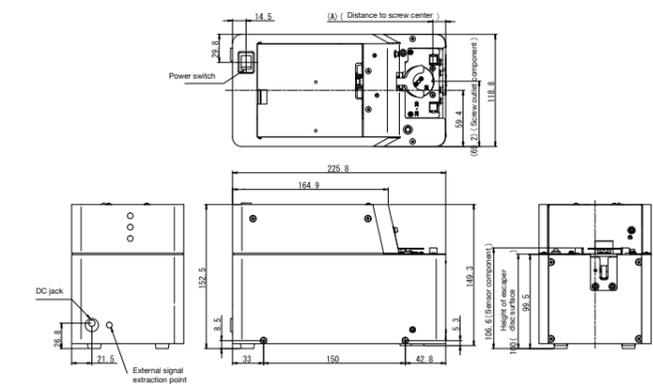
## Model Diagrams

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

### OM-26M Series

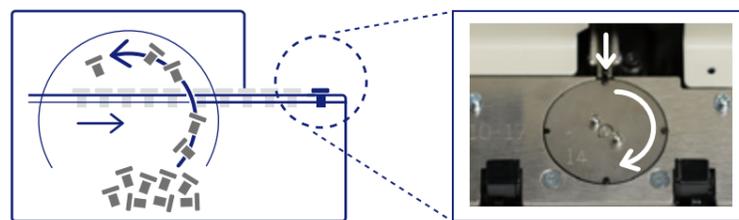


### OM-26R Series



## Specifications

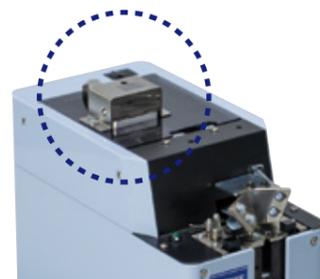
| Model name                                       | OM-26M  | OM-26R | OM-26RB                           |
|--|---|--------|-----------------------------------|
| Exterior dimensions                              | 119(W)×226(D)×152(H)  |        |                                   |
| Volume (including the rail)                      | Approx. 3.1kgf  |        |                                   |
| Power  | AC100V – 240V DC15V 1A AC adapter   |        |                                   |
| Drive motor                                      | DC brush motor, stepper motor   |        | DC brushless motor, stepper motor |
| Overload protection/recovery circuit             | ○   | ○      | ○                                 |
| External signal line                             | ○   | ○      | ○                                 |
| External signal line (remaining quantity sensor) | Optional  |        |                                   |
| Escaper S-shape controlling function             | ○   | ○      | ○                                 |
| Escaper rotation time lag adjustment function    | -   | -      | ○                                 |
| Yield time                                       | Approx. 0.8sec  |        |                                   |
| Supported screw materials                        | Iron-only   |        |                                   |
| Supported screw diameter                         | M2.0 – M6.0   |        |                                   |
| Supported screw under-head length                | Up to 25 mm in length   |        |                                   |
| Screw capacity                                   | Approx. 300cc   |        |                                   |
| Accessories and bundled items                    | Instruction manual, AC adapter, hex wrench, adjusting screwdriver, earth wire |        |                                   |



Magnetically conveys screws along rails for a stable feeding

Rotating escaper

**High-capacity screw stock (4x that of the NSB type)**  
Magnetically conveys screws along rails for a stable feed. Its design prevents screws from getting stuck. The rotating escaper also isolates screws one at a time to prevent picking-up 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. Combine with the OM-26R/M to detect when the screw stock is low and send a signal. Please contact us regarding quantity sensors for other products.

# MSF Series Micro-Screw Feeder

Supports screws as small as S0.5

|                                 |   |                          |                                  |
|---------------------------------|---|--------------------------|----------------------------------|
| Supported diameter<br>S0.5-S1.0 | Supported under-head length<br>Longest: 5mm | Capacity<br>Approx. 15cc | Non-ferrous materials: supported |
|---------------------------------|---|--------------------------|----------------------------------|

\*For details, please refer to each product's specifications.

Robotic MSF



### Accurately and reliably isolates tiny screws

Rotating escaper isolates even tiny screws one by one.

### Slim, space-saving design

Compact, 70mm-wide design saves space.

### Simple installation

No need for complex and time-consuming installation—just set it in place

### Example of installation for a robotic device

- Easy installation makes maintenance and replacement easy.
- Features a signal to notify whether a screw is at the pick-up point.
- Rotating escaper ensures accurate screw feed.



### Specifications

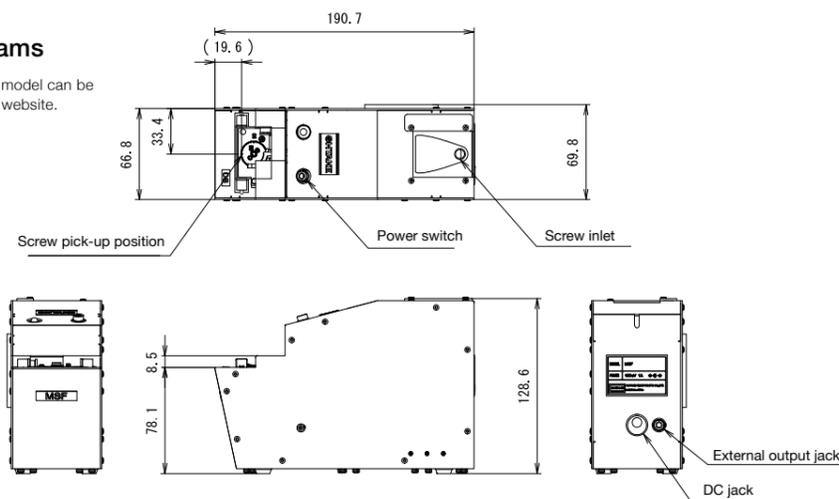
|                                   |   |
|-----------------------------------|---|
| Model name                        | MSF   |
| Exterior dimensions               | 71(W)×194(D)×132(H)   |
| Volume (including the rail)       | Approx. 2kgf  |
| Power                             | AC100V – 240V DC15V 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 |

### Compatibility Table

| Supported screw diameter (mm) | Main component type MSF Series |
|-------------------------------|--------------------------------|
| 0.5                           | MSF-05                         |
| 0.6                           | MSF-06                         |
| 0.7                           | MSF-07                         |
| 0.8                           | MSF-08                         |
| 1.0                           | MSF-10                         |

### Model Diagrams

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



\*Please inquire prior to placing an order.

# SS Series Slim Screw Feeder

Super-thin 55mm width is ideal for cell work

|                                 |  |                          |                                  |
|---------------------------------|--|--------------------------|----------------------------------|
| Supported diameter<br>M1.0-M3.0 | Supported under-head length<br>Longest: 16mm | Capacity<br>Approx. 40cc | Non-ferrous materials: supported |
|---------------------------------|--|--------------------------|----------------------------------|

\*For details, please refer to each product's specifications.

Manual S-12 SS-23



### Slim design that allows them to be installed next to each other

In less than half the width of the NJ/NS series, for the space of a single NSB series model, for example, you can fit two units.

### Supports low profile screws

Adjust sensor to support screw heads as low as ( factory setting: 0.5mm )

### Adjustable screw conveyor speed

Calibrate amplitude and frequency to achieve the ideal feed speed.

### Space-saving for cell work and multiple screw-tightening work



### Specifications

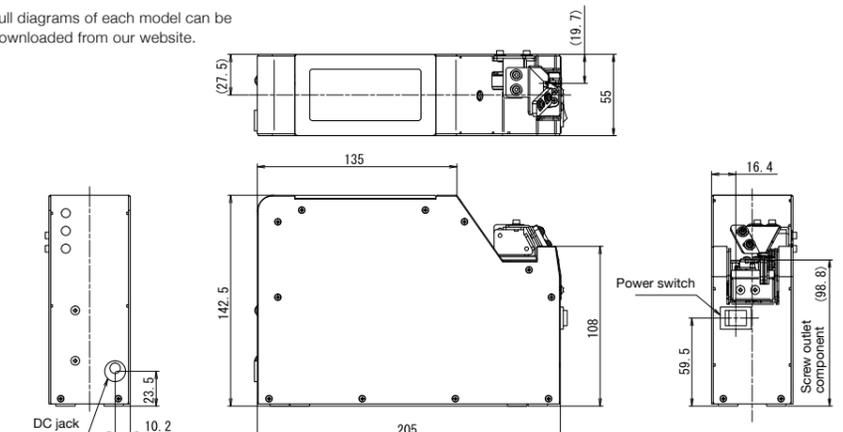
| Model name                           | SS-12   | SS-23       |
|--------------------------------------|---|-------------|
| Exterior dimensions                  | 55(W)×205(D)×143(H)   |             |
| Volume (including the rail)          | Approx. 2.4kgf  |             |
| Power                                | 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 16 mm in length   |             |
| Screw capacity                       | Approx. 40cc  |             |
| Accessories and bundled items        | Instruction manual, AC adapter, hex wrench, adjusting screwdriver, earth wire |             |

### Compatibility Table

| Supported screw diameter (mm) | SS Series           |                    |
|-------------------------------|---------------------|--------------------|
|                               | Main component type | Swap rail set type |
| 1.0                           | SS-1210             | WR10               |
| 1.2                           | SS-1212             | WR12               |
| 1.4                           | SS-1214             | WR14               |
| 1.7                           | SS-1217             | WR17               |
| 2.0                           | SS-1220             | WR20               |
| 2.3                           | SS-2323             | WR23               |
| 2.6                           | SS-2326             | WR26               |
| 3.0                           | SS-2330             | WR30               |

### 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

|                                 |  |                          |                                  |
|---------------------------------|--|--------------------------|----------------------------------|
| Supported diameter<br>M1.0-M3.0 | Supported under-head length<br>Longest: 16mm | Capacity<br>Approx. 40cc | Non-ferrous materials: supported |
|---------------------------------|--|--------------------------|----------------------------------|

\*For details, please refer to each product's specifications.

|         |         |         |
|---------|---------|---------|
| Manual  | SSI-12M | SSI-23M |
| Robotic | SSI-12R | SSI-23R |



## + Slim, space-saving design

Compact, 65mm-wide design saves space.

## + Stable rail movement without clogging

Horizontal rail system prevents screws from clogging or overlapping, achieving stable feeding.

## + Integrated output designed for use with general counters

Send pick-up signal from output jack to connect a general-purpose counter.

### Rear part description



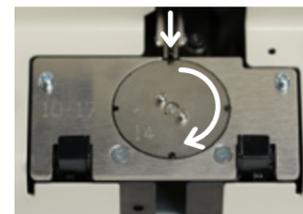
- Frequency
- Vibration
- Timer

Calibrate screw feeding speed by frequency and vibration

SSI rear part

### Escaper

- < High-speed screw supply >  
Rotating escaper accurately separates screws and supplies them at a high speed.
- < Supports low-profile screws >  
Supports screws with as low a profile as 0.35mm by default (or 0.2mm by special order).
- < Clogging-free mechanism >  
Separates screws one at a time, ensuring they do not clog at the pick-up outlet.



Rotating escaper

### Manual Type



SSI-12M SSI-23M

### Robotic Type



SSI-12R SSI-23R

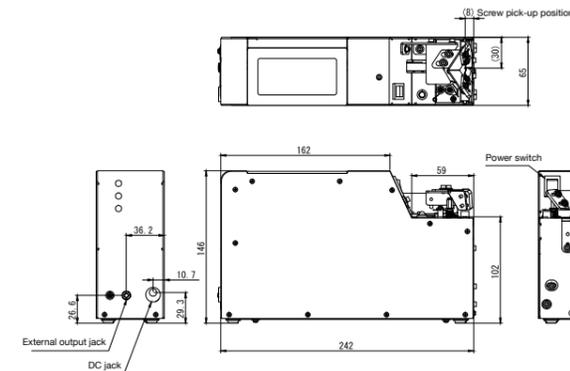
### Compatibility Table

| Supported screw diameter (mm) | Main component type |              | Swap rail set type |              |
|-------------------------------|---------------------|--------------|--------------------|--------------|
|                               | SSI-M Series        | SSI-R Series | SSI-M Series       | SSI-R Series |
| 1.0                           | SSI-12M10           | SSI-12R10    | SIM10SET           | SIR10SET     |
| 1.2                           | SSI-12M12           | SSI-12R12    | SIM12SET           | SIR12SET     |
| 1.4                           | SSI-12M14           | SSI-12R14    | SIM14SET           | SIR14SET     |
| 1.7                           | SSI-12M17           | SSI-12R17    | SIM17SET           | SIR17SET     |
| 2.0                           | SSI-12M20           | SSI-12R20    | SIM20SET           | SIR20SET     |
| 2.3                           | SSI-23M23           | SSI-23R23    | SIM23SET           | SIR23SET     |
| 2.6                           | SSI-23M26           | SSI-23R26    | SIM26SET           | SIR26SET     |
| 3.0                           | SSI-23M30           | SSI-23R30    | SIM30SET           | SIR30SET     |

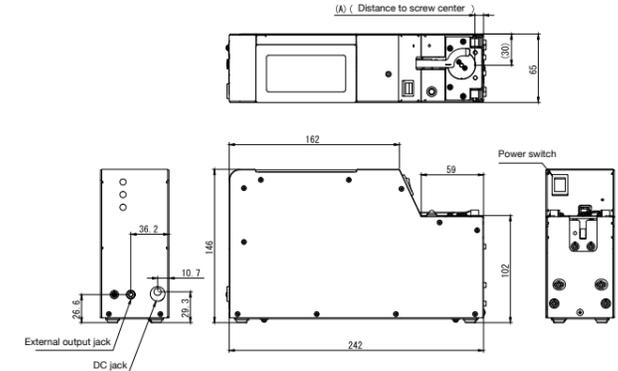
### Model Diagrams

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

#### SSI-M Series



#### SSI-R Series



### Specifications

| Model name                           | SSI-12M   | SSI-23M     | SSI-12R        | SSI-23R     |
|--------------------------------------|---|-------------|----------------|-------------|
| Exterior dimensions                  | 65(W)×242(D)×146(H)   |             |                |             |
| Volume (including the rail)          | Approx. 3.3kgf  |             | Approx. 3.2kgf |             |
| Power                                | AC100V – 240V DC15V 1A AC adapter   |             |                |             |
| Drive motor                          | DC brush motor, stepper motor   |             |                |             |
| Overload protection/recovery circuit | ○   | ○           | ○              | ○           |
| External outlet terminal             | ○   | ○           | ○              | ○           |
| Escaper S-shape controlling function | ○   | ○           | ○              | ○           |
| Yield time                           | Approx. 0.9sec  |             |                |             |
| Supported screw diameter             | M1.0 – M2.0   | M2.3 – M3.0 | M1.0 – M2.0    | M2.3 – M3.0 |
| Supported screw under-head length    | Up to 16 mm in length   |             |                |             |
| Screw capacity                       | Approx. 40cc  |             |                |             |
| Accessories and bundled items        | Instruction manual, AC adapter, hex wrench, adjusting screwdriver, earth wire |             |                |             |

# FM Series

## Fixed Quantity Count / External Configuration Type Screw Feeder

Accurately feeds a set number of screws

|                                 |  |                           |                                  |
|---------------------------------|--|---------------------------|----------------------------------|
| Supported diameter<br>M3.0-M6.0 | Supported under-head length<br>Longest: 25mm | Capacity<br>Approx. 150cc | Non-ferrous materials: supported |
|---------------------------------|--|---------------------------|----------------------------------|

\*For details, please refer to each product's specifications.

Fixed-quantity pick up FM-36 FME-36  
(External configuration)



### ⊕ Accurately feeds the number of screws input to counter

Set between 1 and 99. Accurately counts and expels the number you set.

### ⊕ Stable rail movement without clogging

Horizontal rail system prevents screws from clogging or overlapping, achieving stable feeding.

### ⊕ Flexibly supports line changes

Supports screws of varying diameters. Easy installation and the portable size allow you to adapt to line or workpiece changes effortlessly.

### ⊕ Long-running operation when combined with screw hopper

FM unit has capacity of 150cc—add screw hopper for additional 400–1600cc stock.

### Counter

- Set number of screws between 0–99
- Set number of times between 0–9999
- External pick-up signal
- Power outage memory protection feature



### Fixed-quantity pick up with nut support

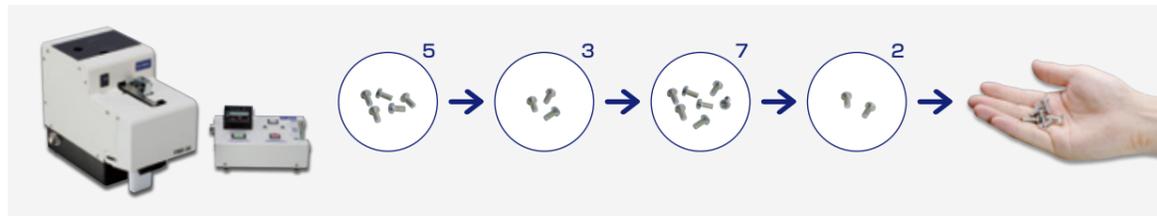
By special order, we can consider the fixed-quantity nut pick up model. Please do not hesitate to contact us.



### Connect to unit for variable pick-up quantity (FME-36)

Change the setting using a PLC of a variety of manufacturers.

\*The PLC interface (NEX-PLC) is exclusively for use with the FME-36.



### Fixed-quantity pick up



FM-36

### Fixed-quantity pick up with PLC support



FME-36

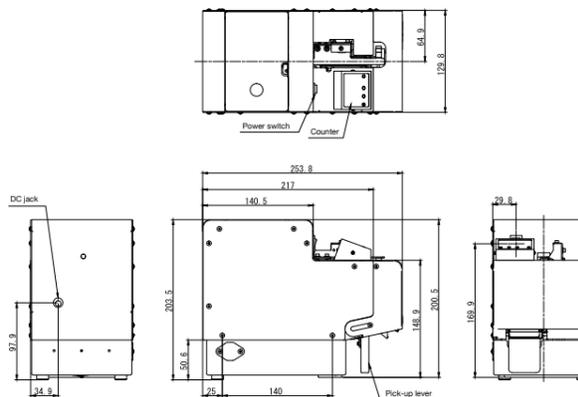
### Compatibility Table

| Supported screw diameter (mm) | Main component type |            | Swap rail set type |
|-------------------------------|---------------------|------------|--------------------|
|                               | FM Series           | FME Series | FM/FME             |
| 3.0                           | FM-3630             | FME-3630   | FR30SET            |
| 3.5                           | FM-3635             | FME-3635   | FR35SET            |
| 4.0                           | FM-3640             | FME-3640   | FR40SET            |
| 5.0                           | FM-3650             | FME-3650   | FR50SET            |
| 6.0                           | FM-3660             | FME-3660   | FR60SET            |

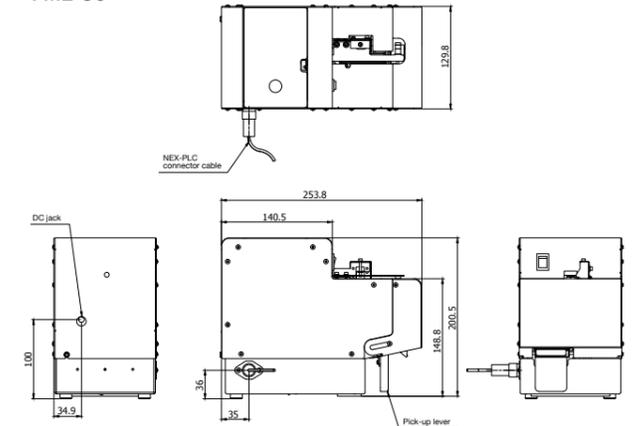
### Model Diagrams

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

#### FM-36 Series



#### FME-36 Series



### Specifications

| Model name                                 | FM-36   | FME-36                              |
|--|---|-------------------------------------|
| Main component exterior dimensions         | 130(W)×254(D)×201(H)  |                                     |
| Main component volume (including the rail) | Approx. 6.0kgf  |                                     |
| Main component power supply                | AC100V – 240V DC15V 1A AC adapter   |                                     |
| Drive motor                                | DC brush motor  |                                     |
| Overload protection/recovery circuit       | ○   |                                     |
| External signal line                       | ○   |                                     |
| Brush-overload protection mechanism        | ○   |                                     |
| Number configuration                       | Maximum of 99   | Maximum of 127                      |
| Supported screw diameter                   | M3.0 – M6.0   |                                     |
| Supported screw under-head length          | Up to 25 mm in length   |                                     |
| Screw capacity                             | Approx. 150cc   |                                     |
| Accessories and bundled items              | Instruction manual, AC adapter, hex wrench, adjusting screwdriver, earth wire |                                     |
| Extension box exterior dimensions          | -   | 155(W)×113(D)×44(H)                 |
| Extension box power supply                 | -   | AC100V – 240V DC24V 1.9A AC adapter |

\*Note that some screw sizes may not support pick up 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.

|                                 |   |                                 |                 |
|---------------------------------|---|---------------------------------|-----------------|
| Supported diameter<br>M3.0-M8.0 | Supported under-head length<br>Longest: 25/50mm | Capacity<br>Approx. 1000/1300cc | For iron screws |
|---------------------------------|---|---------------------------------|-----------------|

\*For details, please refer to each product's specifications.

|                        |                 |
|------------------------|-----------------|
| Manual                 | LS25-HM LS-50HM |
| Robotic                | LS25-HR LS-50HR |
| Fixed-quantity pick up | LV25 LV50 LF50  |



## ⊕ Large capacity

High-capacity stock: between 1000-1300cc

## ⊕ Capable of supporting a range of needs

Comes with six patterns that you can select based on the type of workpiece and the intended use. (Please refer to the suggested pick-up patterns described below)

## ⊕ Rivets supported

Fixed-quantity alignment of rivets is supported. Work efficiency is greatly improved because there is no need to reorient rivets by hand.

Manual Type

Robotic Type

With a Counter



LS25-HM LS-50HM LS25-HR LS-50HR LV25-S LV50-S LV25-B LV50-B LV25-H LV50-H LF50

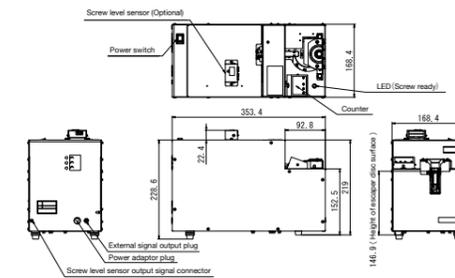
## Compatibility Table

| Supported screw diameter (mm) | Main component type             |                                 |                                 |                                 |                                 |                                 | Supported screw diameter (mm) | Main component type LF Series<br>Up to under-head length of 50mm |
|-------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|-------------------------------|--|
|                               | LS-HM Series                    |                                 | LS-HR Series                    |                                 | LV Series                       |                                 |                               |  |
|                               | Up to under-head length of 25mm | Up to under-head length of 50mm | Up to under-head length of 25mm | Up to under-head length of 50mm | Up to under-head length of 25mm | Up to under-head length of 50mm |                               |  |
| 3.0                           | LS25-HM30                       | LS50-HM30                       | LS25-HR30                       | LS50-HR30                       | LV25-30                         | LV50-30                         | 2.0                           | LF50-20  |
| 3.5                           | LS25-HM35                       | LS50-HM35                       | LS25-HR35                       | LS50-HR35                       | LV25-35                         | LV50-35                         | 2.2                           | LF50-22  |
| 4.0                           | LS25-HM40                       | LS50-HM40                       | LS25-HR40                       | LS50-HR40                       | LV25-40                         | LV50-40                         | 2.6                           | LF50-26  |
| 5.0                           | LS25-HM50                       | LS50-HM50                       | LS25-HR50                       | LS50-HR50                       | LV25-50                         | LV50-50                         |                               |  |
| 6.0                           | LS25-HM60                       | LS50-HM60                       | LS25-HR60                       | LS50-HR60                       | LV25-60                         | LV50-60                         |                               |  |
| 8.0                           | LS25-HM80                       | LS50-HM80                       | LS25-HR80                       | LS50-HR80                       | LV25-80                         | LV50-80                         |                               |  |

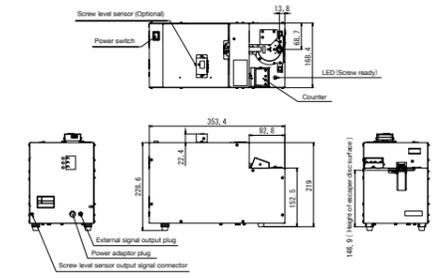
## Model Diagrams

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

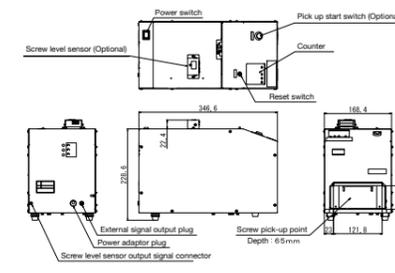
LS-HM Series



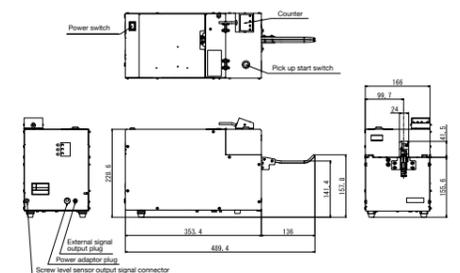
LS-HR Series



LV Series



LF Series



## Specifications

| Model name                           | LS25-HM   | LS50-HM               | LS25-HR               | LS50-HR               | LV-25                 | LV-50                 | LF-50  |
|--------------------------------------|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--|
| Exterior dimensions                  | 169(W)×354(D)×229(H)  |                       |                       |                       | 169(W)×347(D)×229(H)  |                       | 169(W)×354(D)×229(H)<br>Front rail protruding part : 136mm |
| Volume (including the rail)          | Approx. 15kgf   |                       |                       |                       |                       |                       |  |
| Power                                | AC100V - 240V DC15V 1A AC adapter   |                       |                       |                       |                       |                       |  |
| Drive motor                          | DC brushless motor, DC brush motor  |                       |                       |                       |                       |                       |  |
| Overload protection/recovery circuit | ○   | ○                     | ○                     | ○                     | ○                     | ○                     | ○  |
| External outlet terminal             | ○   | ○                     | ○                     | ○                     | ○                     | ○                     | ○  |
| Safety function                      | Stop operation when the cover of the stock chamber is open                    |                       |                       |                       |                       |                       |  |
| Supported screw diameter             | M3.0 - M8.0   |                       | M3.0 - M8.0           |                       | M3.0 - M8.0           |                       | φ 2 - φ 2.6 (with record)                                  |
| Supported screw under-head length    | Up to 25 mm in length   | Up to 50 mm in length | Up to 25 mm in length | Up to 50 mm in length | Up to 25 mm in length | Up to 50 mm in length | Up to 25 mm in length                                      |
| Screw capacity                       | Approx. 1300cc  | Approx. 1000cc        | Approx. 1300cc        | Approx. 1000cc        | Approx. 1300cc        | Approx. 1000cc        | Approx. 1000cc   |
| Accessories and bundled items        | Instruction manual, AC adapter, hex wrench, adjusting screwdriver, earth wire |                       |                       |                       |                       |                       |  |

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

## Supports screws and bolts of 3.0mm-8.0mm diameters

Achieves a stable, horizontal feed even for large workpieces. Configure up to 999 pieces. No need to check the screw quantity each time.



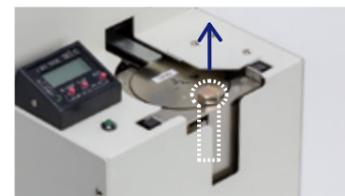
## Suggested pick-up patterns

Manual



LS25-HM/LS50-HM

Robotic



LS25-HR/LS-50HR

Lever



LV25-S/LV50-S

Fixed-quantity



LV25-H/LV50-H

Feed fixed quantity to box



LV25-B/LV50-B

Feed fixed quantity to rail



LF50

# BS Series Pneumatic Screw Feeder

Pneumatically feeds screws to their destination in an instant.

|                                 |  |                               |   |
|---------------------------------|--|-------------------------------|---|
| Supported diameter<br>M2.0-M6.0 | Supported under-head length<br>Longest: 12/14/25mm | Capacity<br>Approx. 80-1300cc | For iron screws<br>Non-ferrous materials: supported |
|---------------------------------|--|-------------------------------|---|

\*For details, please refer to each product's specifications.

|                        |                       |
|------------------------|-----------------------|
| Manual                 | BS-D                  |
| Robotic                | BS(S) BS(L) BS-P BS-R |
| Fixed-quantity pick up | BS-C                  |

\*BS-P irrespective of material / Other models only for iron screws



## ⊕ Uses 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 requires air tubing to be installed.

## ⊕ Space-saving, high-capacity model

Separating the screw feed from pick-up points allows for a space-saving design.

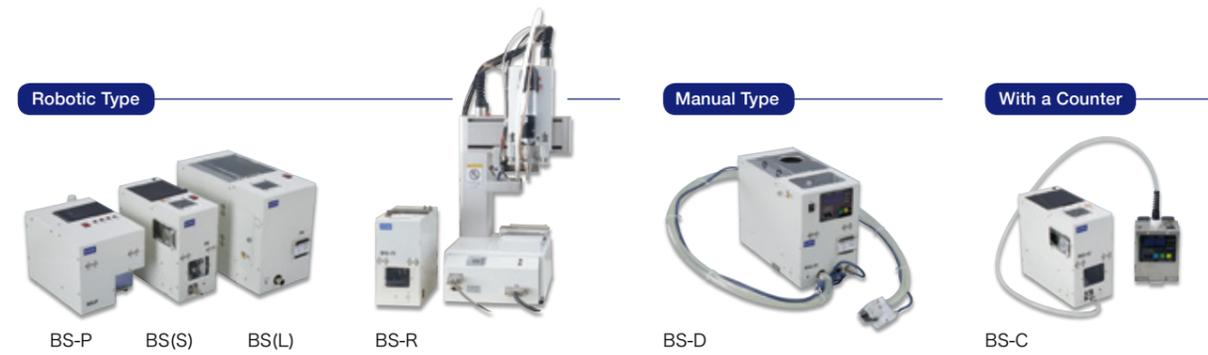
## ⊕ Four types based on different needs

BS (manual and robotic): Pneumatically feeds screws in response to an external signal.

BS-R (robotic pick up): Sliding unit conveys screws to screwdriver pneumatically, greatly cutting down on yield time.

BS-C (fixed-quantity bulk pick up): Pick up the set quantity with the counter and it allows for pick up by simply pulling the lever.

BS-D (fixed-quantity single pick up): Pick up the set number of screws and bolts one at a time next to your hand.

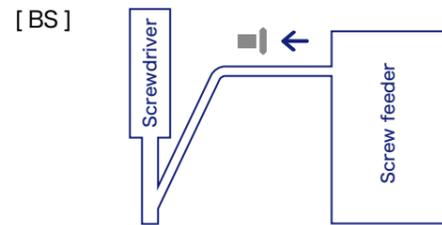
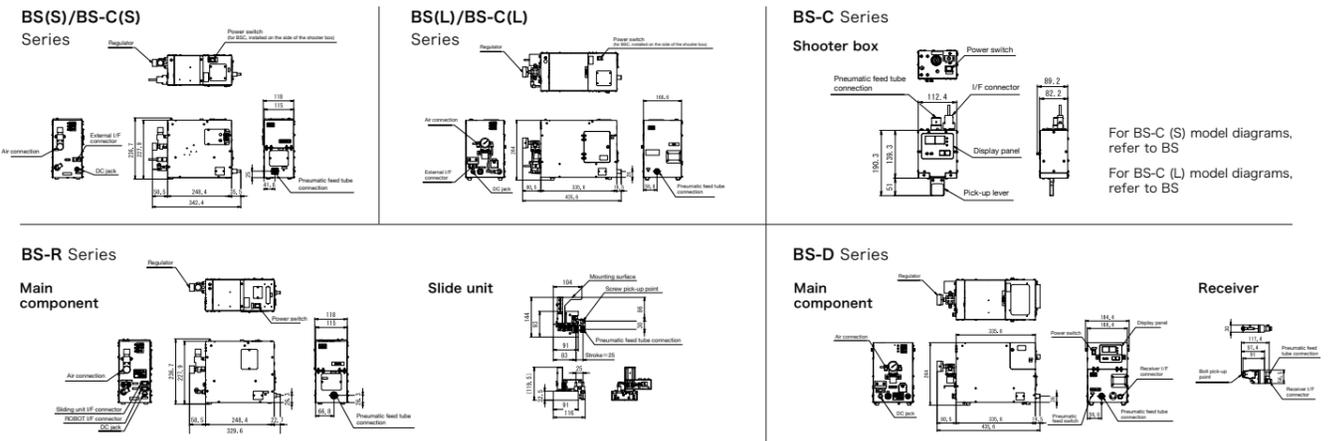


## Compatibility Table

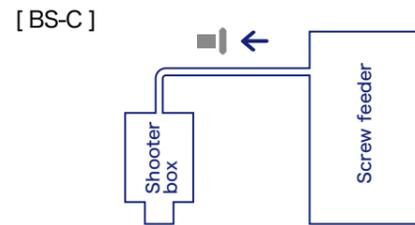
| Supported screw diameter (mm) | Main component type                      |   |             |             |  |   |
|-------------------------------|--|---|-------------|-------------|--|---|
|                               | BS Series                                |   | BS-R Series | BS-D Series | BS-C Series                              |   |
|                               | Scooping chamber capacity: approx. 280cc | Scooping chamber capacity: approx. 1300cc | -           | -           | Scooping chamber capacity: approx. 280cc | Scooping chamber capacity: approx. 1300cc |
| 2.0                           | BS-S20                                   | BS-L20                                    | BS-R20      | -           | BS-CS20                                  | BS-CL20                                   |
| 2.3                           | BS-S23                                   | BS-L23                                    | BS-R23      | -           | BS-CS23                                  | BS-CL23                                   |
| 2.6                           | BS-S26                                   | BS-L26                                    | BS-R26      | -           | BS-CS26                                  | BS-CL26                                   |
| 3.0                           | BS-S30                                   | BS-L30                                    | BS-R30      | BS-D30      | BS-CS30                                  | BS-CL30                                   |
| 3.5                           | BS-S35                                   | BS-L35                                    | BS-R35      | BS-D35      | BS-CS35                                  | BS-CL35                                   |
| 4.0                           | BS-S40                                   | BS-L40                                    | BS-R40      | BS-D40      | BS-CS40                                  | BS-CL40                                   |
| 5.0                           | BS-S50                                   | BS-L50                                    | BS-R50      | BS-D50      | BS-CS50                                  | BS-CL50                                   |
| 6.0                           | BS-S60                                   | BS-L60                                    | -           | BS-D60      | BS-CS60                                  | BS-CL60                                   |

## Model Diagrams

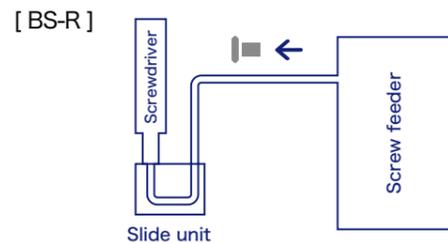
Full diagrams of each model can be downloaded from our website.



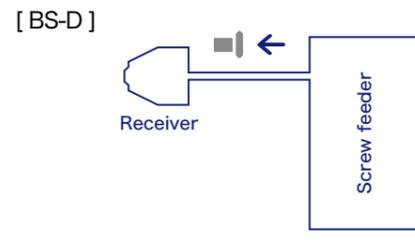
- Screws are pneumatically fed by request through an external signal.
- Screws are fed to the screwdriver's Y pipe with the screw side at the front.
- It is compatible with the robotic and manual screwdrivers.



- Fixed quantities of screws are picked up in bulk.
- The screw feeder can be placed outside the workspace, saving more space for work.
- Fixed quantity pick up can prevent screw-tightening being forgotten.



- Screws are pneumatically fed by request through an external signal.
- Placing the screw-feeding part of the slide unit near the screwdriver can shorten the time it takes to feed screws to the screwdriver.
- Screws are fed with the head at the front.
- It is compatible with screw-tightening robots.



- Fixed quantities of screws are picked up one at a time.
- The screw feeder can be placed outside the workspace, saving space for work.
- It feeds the screw next to the hand doing the screw-tightening work.
- Fixed quantity pick up can prevent screw-tightening being forgotten.

## Specifications

| Model name                           | BS-S   | BS-L                 | BS-CS   | BS-CL                | BS-D                                  | BS-P                  | BS-R                                      |
|--------------------------------------|--|----------------------|---|----------------------|---------------------------------------|-----------------------|---|
| Exterior dimensions                  | 118(W)×310(D)×237(H)   | 169(W)×436(D)×270(H) | 118(W)×310(D)×237(H)  | 169(W)×436(D)×270(H) | 169(W)×436(D)×270(H)                  | 175(W)×304(D)×186(H)  | 118(W)×310(D)×237(H)                      |
| Volume (including the rail)          | Approx. 4kgf   | Approx. 10kgf        | Approx. 5kgf  | Approx. 12kgf        | Approx. 12kgf                         | Approx. 4kgf          | Approx. 4.6kgf                            |
| Power                                | AC100V - 240V DC15V 1A AC adapter  |                      |   |                      |                                       |                       |   |
| Air                                  | 0.5MPa MAX 400L/min  |                      |   |                      |                                       |                       |   |
| Drive motor                          | DC brushless motor   |                      |   |                      |                                       |                       |   |
| Pneumatic screw-feeding direction    |  |                      |   |                      |                                       |                       |   |
| Overload protection/recovery circuit | ○  | ○                    | ○   | ○                    | ○                                     | ○                     | ○   |
| External interface                   | ○ (D-SUB 9pin)   | ○ (D-SUB 9pin)       | -   | -                    | -                                     | ○ (D-SUB 9pin)        | ○ (D-SUB 9pin)                            |
| Yield time                           | M6X25/3M Approx. 2 seconds by tube   |                      |   |                      |                                       | Approx. 1.2sec        | Approx. 1.5sec                            |
| Supported screw diameter             | M2.0 - M6.0  |                      |   |                      | M3.0 - M6.0                           | M1.0 - M3.0           | M2.0 - M5.0                               |
| Supported screw under-head length    | Up to 25 mm in length  |                      |   |                      | Up to 10 - 25mm in length             | Up to 12 mm in length | Up to 14 mm in length                     |
| Supported total length of screw      | Length/head diameter = 1.3 or more   |                      |   |                      |                                       |                       |   |
| Screw capacity                       | Approx. 280cc  | Approx. 1300cc       | Approx. 280cc   | Approx. 1300cc       | Approx. 1300cc                        | Approx. 80cc          | Approx. 280cc                             |
| Accessories and bundled items        | Instruction manual, AC adapter, hex wrench, adjusting screwdriver, earth wire, pneumatic feed tube (2.5meters) |                      |   |                      |                                       |                       |   |
| Accompanying unit                    | -  | -                    | Shooter box<br>Form : 113(W)×82(D)×140(H)<br>Capacity: Approx. 20 for M6X25 |                      | Receiver<br>Form : 30(W)×52(D)×120(H) | -                     | Slide unit<br>Form : 116(W)×144(D)×120(H) |

\*Please inquire prior to placing an order.

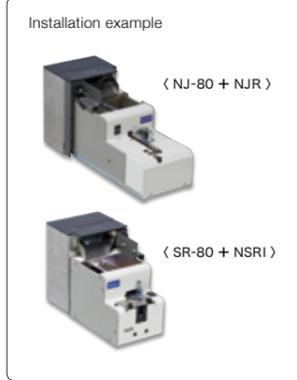
Enables Long-Running Screw Feeding

# Screw Hopper

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

|  |   |                                       |  |
|--|---|---------------------------------------|--|
| <b>Supported diameter</b><br>M1.0-M6.0 | <b>Supported length (total)</b><br>Longest: 18/25mm | <b>Capacity</b><br>Approx. 400-1600cc | <b>For iron screws</b><br>Non-ferrous materials: supported |
|--|---|---------------------------------------|--|

\*For details, please refer to each product's specifications.



## SR-80/NJ-80 Rear-attaching Impeller Type

- Easy installation—simply line it 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 800cc.
- Use the timer to set the impeller's operation time.

### Compatibility Table

| SR-80 Model number | Supported screw feeder           | NJ-80 model Model number | Supported screw feeder |
|--------------------|----------------------------------|--------------------------|------------------------|
| SR-80              | NSB / NSR / NSBI / NSRI / NSRI-B | NJ-80                    | NJ / NJR               |
| SR-80              | NSB / NSR / NSBI / NSRI / NSRI-B | NJ-80F                   | FM-36 / FME-36         |

Stock capacity based on the diameter and length of the screw for 800cc: M2.3 x 5, approx. 20,000; M3.0 x 6, approx. 5,600



## T-510 Conveyor Style, Surface-Mounting Type

- Easy installation—simply align it on top of the screw feeder.
- Does not take up floor space; allows you to add more stock vertically.
- Use the timer to set the conveyor belt's operation time.

### Compatibility Table

| T-510 Model number | Supported screw feeder           |
|--------------------|----------------------------------|
| T-510S             | NSB / NSR / NSBI / NSRI / NSRI-B |
| T-510J             | NJ / NJR                         |
| T-510F             | FM-36 / FME-36                   |

Stock capacity based on the diameter and length of the screw for 400cc: M2.3 x 5, approx. 10,000; M3.0 x 6, approx. 2,800



## RHP-160 Side- and Rear-Attaching High-Capacity Impeller Type

- Easy installation—simply line it up next to the screw feeder.
- Supports a screw stock of approximately 1600cc.
- Use the timer to set the impeller's operation time.

### Compatibility Table

| RHP-160 Model number | Supported screw feeder    |
|----------------------|---------------------------|
| RHP-160J             | NJ / NJR                  |
| RHP-160F             | FM-36 / FME-36            |
| RHP-160M             | OM-26M / OM-26R / OM-26RB |



## MHP-80 Magnetic Style, Rear-Attaching Type

- Easy installation—simply line it up next to the screw feeder. It even supports long screws.
- Magnets are used to feed and convey screws.
- Use the timer to set the magnet operation time.

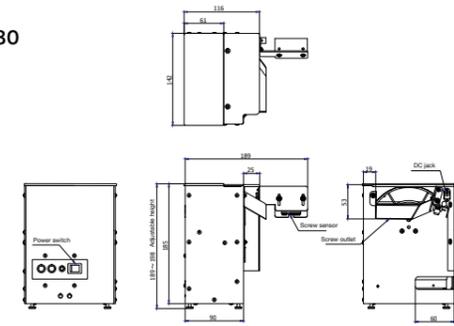
### Compatibility Table

| MHP-80 Model number | Supported screw feeder           |
|---------------------|----------------------------------|
| MHP-80S             | NSB / NSR / NSBI / NSRI / NSRI-B |
| MHP-80J             | NJ / NJR                         |
| MHP-80F             | FM-36 / FME-36                   |
| MHP-80M             | OM-26M / OM-26R / OM-26RB        |

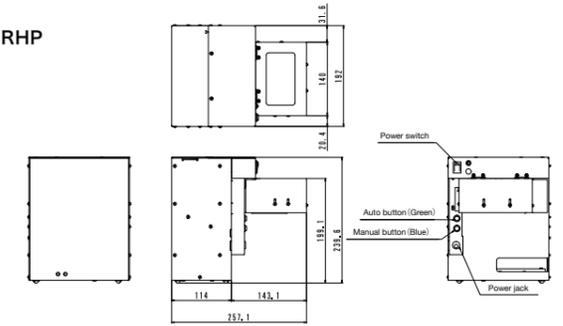
## Model Diagrams

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

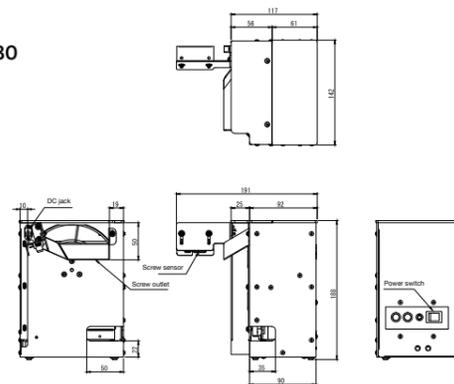
### SR-80



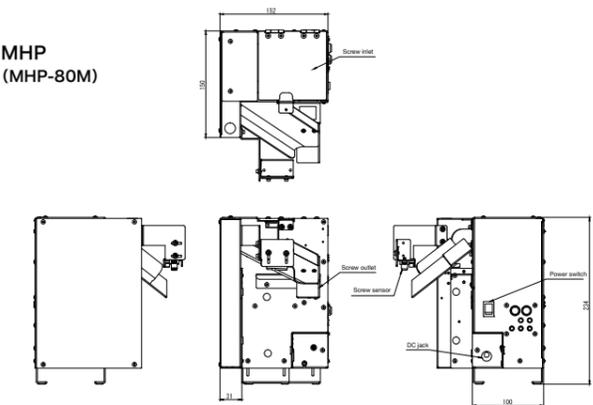
### RHP



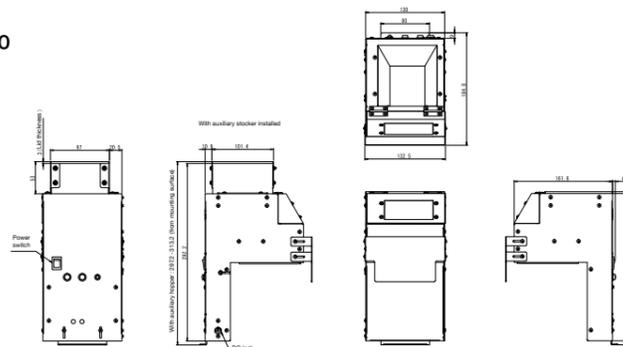
### NJ-80



### MHP (MHP-80M)



### T510



## Specifications

| Model name                                       | NJ-80   | SR-80                    | T-510  | RHP-160   | MHP-80  |
|--|---|--------------------------|--|---|---|
| Exterior dimensions                              | 142(W)×191(D)×188(H)  | 142(W)×191(D)×189-198(H) | 130(W)×171(D)×245(H)<br>With auxiliary stocker installed 295(H)  | 192(W)×237(D)×240(H)  | 156(W)×150(D)×212(H)  |
| Volume (including the rail)                      | Approx. 2.9kgf  |                          | Approx. 3.1kgf   | Approx. 5.5kgf  | Approx. 2.9kgf  |
| Power  | AC100V DC12V 0.5A AC adapter  |                          |  | AC100V - 240V DC15V 1A AC adapter   |   |
| Drive motor                                      | DC brush motor  |                          |  |   |   |
| External signal line (remaining quantity sensor) | -   | -                        | ○  | -   | ○ (Optional)  |
| Safety function                                  | -   | -                        | -  | Stop operation when the cover of the stock chamber is open  | -   |
| Supported screw materials                        | -   | -                        | -  | -   | Iron-only   |
| Supported screw diameter                         | M2.0 - M6.0   |                          | M1.0 - M6.0  | M2.0 - M6.0   |   |
| Supported total length of screw                  | Up to 18 mm in length   |                          |  | Up to 25 mm in length   |   |
| Screw capacity                                   | Approx. 800cc   |                          | Main component : Approx. 400cc<br>auxiliary stocker : Approx. 400cc  | Approx. 1600cc  | Approx. 800cc   |
| Accessories and bundled items                    | Instruction manual, AC adapter, screw splash-proof cover / mounting plate, attaching screws (only for NJ-80F) |                          | Instruction manual, auxiliary stocker, AC adapter, hex wrench, screw (M2.6 x 5), external signal line / mounting plate, attaching screws (only for T-510F) | Instruction manual, AC adapter, hex wrench / mounting plate, attaching screws (only for RHP-160F) | Instruction manual, AC adapter, screw splash-proof cover, adjusting screwdriver / mounting plate, attaching screws (only for MHP-80F) |

# FAQ

|  |  |
|--|--|
| <b>Q</b> Can I increase the capacity for the screw feeder?     | You can add a screw hopper to add a capacity of 400–1600cc.  |
| <b>Q</b> 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 you are handling workpieces with large differences in screw tolerance, select a product based on the maximum screw and bolt diameter. |
| <b>Q</b> I want to use a hexagon socket head cap bolt.         | If you are considering a hexagon socket head cap bolt, please make an inquiry with our dealer before placing an order.   |
| <b>Q</b> Can I have model diagrams?                            | Yes, they can be downloaded from our website.  |
| <b>Q</b> 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.   |
| <b>Q</b> Can I have extra parts for maintenance?               | To purchase extra parts, please contact the dealer where you purchased the product.  |
| <b>Q</b> How can I fix a feeder for a robotic device?          | This is described in the product manual available on our website.  |
| <b>Q</b> I want to know more about options.                    | Please refer to our website.   |

## Signals obtained from signal line

- Manual models : Signal of the screw pick up can be obtained.
- Robotic models: Signal of whether there is a screw in the screw pick-up point can be obtained.
- Fixed-quantity pick up models : Signal of feed completion for set number of screws can be obtained.

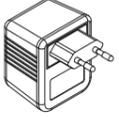
## For customers seeking repairs

Print out a repair request form from our website, complete it, and submit it to the dealer where you purchased the product. Include the same document 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.

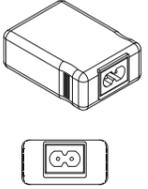
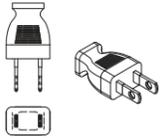
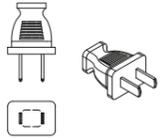
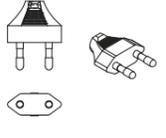
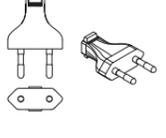
Website : [www.ohtake-root.co.jp](http://www.ohtake-root.co.jp)

- Product name
- Serial number (on rear)
- Company name, address, contact person's name and department, telephone number, fax number
- Problem (in detail, and please be as specific as possible)
- Context in which it was used (type of screws, etc.)

## Automatic screw feeder's AC adapter plug formats

| Model        | DC voltage | Adapter model      | AC cord types | (Representative) countries supported | Selection method      | Adapter plug shape   |
|--------------|------------|--------------------|---------------|--------------------------------------|-----------------------|--|
| Screw hopper | DC12V      | AD-1200<br>500DJ   | 100V adapter  | Japan                                | Flat 2-pin with holes | PSE (Japan) certified power adapter (100V AC)<br> |
|              |            | YL41-12000<br>500D | 230 V adapter | EU countries<br>other                | Round 2-pin           | CE (EU) certified power adapter (230V AC)<br>     |

\*For 12V DC, adapter and AC cord are one unit. Customers are required to make other preparations themselves.

| Model                              | DC voltage | Adapter model           | AC cord types   | AC cord format             | (Representative) countries supported   | Selection method         | Adapter plug shape  | Power cord   |
|------------------------------------|------------|-------------------------|---|----------------------------|--|--------------------------|---|--|
| All models other than screw hopper | DC15V      | U I 315<br>-15          | PSE cord  | K427B1<br>VK183<br>BB-P-00 | Japan<br>Mexico<br>Brazil<br>other   | Flat 2-pin with holes    |  | PSE (Japan) certified (100V AC)<br>   |
|                                    |            |                         |   |                            |  |                          |   | CCC (China) certified (220V AC)<br> |
|                                    |            | U I 315<br>-15          | CCC cord  | K207D1<br>H4193<br>BB-3C   | China<br>Thailand<br>Taiwan<br>Malaysia<br>Vietnam<br>US<br>Brazil<br>other  | Flat 2-pin without holes |   | Power adapter:<br>Certified cords for each country supported (100–240V AC)   |
|                                    |            |                         |   |                            |  |                          |   | KC (Korea) certified (220V AC)<br>  |
| U I 315<br>-15                     | CE cord    | K13071<br>H4183<br>BB-M | EU countries<br>Argentina<br>Indonesia<br>India<br>Vietnam<br>other | Round 2-pin                | CE (EU) certified (250V AC)<br> |                          |   |  |

\*For 15V DC, adapter and AC are separate.

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### Caution

- The specifications and performance figures of the products described in this catalog are based on our company's design calculations, in-house testing, individual performance testing, product usage results, and official standards/specifications. These are provided for reference purposes only for model selection under normal circumstances.
- The items listed in this catalog may be amended, have their designs changed, or be revised without notice.
- If you are considering using our products under special circumstances, please make sure to discuss technical issues with us beforehand, or conduct a test and evaluation to check the performance on your own responsibility. If damages or injuries are incurred without following this process, OHTAKE-ROOT KOGYO cannot be held responsible.
- For safe usage of our products, please make sure to read the instruction manual before using them.