

Automatic Screw Feeder

HS Series

(For manual operation)
(For automatic assembly machines)

Neji Taro aligns screws!

The work efficiency of a production line will be dramatically improved.

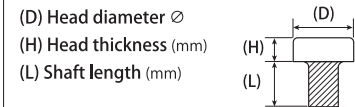
- A single unit can handle different screw diameters by changing rails.
- Easy rail replacement.
- Screws are stably aligned and quickly fed to a line.
- Feeding speed can be adjusted depending on operational conditions.
- Some models can handle special screws.

● Model selection chart

Model		Neji Taro V		Neji Taro II		Neji Taro III		HSF
		For manual operation HSV series	For automatic assembly machines HSV-RB series	For manual operation HS series	For automatic assembly machines HS-RB series	For manual operation HS III series	For automatic assembly machines HS III-RB series	For manual operation HSF series
								
Screw size (nominal)	M1.0	 HSV-10	 HSV-10RB	—	—	 HS III-10	—	 HSF-10
	M1.2	 HSV-12	 HSV-12RB	—	—	 HS III-12	—	 HSF-12
	M1.4	 HSV-14	 HSV-14RB	—	—	 HS III-14	 HS III-14RB	 HSF-14
	M1.7	 HSV-17	 HSV-17RB	—	—	 HS III-17	 HS III-17RB	 HSF-17
	M2.0	 HSV-20	 HSV-20RB	—	—	 HS III-20	 HS III-20RB	 HSF-20
	M2.3	 HSV-23	 HSV-23RB	—	—	 HS III-23	 HS III-23RB	—
	M2.6	 HSV-26	 HSV-26RB	—	—	 HS III-26	 HS III-26RB	 HSF-26
	M3.0	 HSV-30	 HSV-30RB	—	—	 HS III-30	 HS III-30RB	 HSF-30
	M3.5	—	—	 HS-35	 HS-35RB	—	—	—
	M4.0	—	—	 HS-40	 HS-40RB	—	—	—
M5.0	—	—	 HS-50	 HS-50RB	—	—	—	
Screw transport type		 Horizontal feeder  Rotary escaper		 Horizontal feeder Slide escaper (applicable only to automatic assembly machines)				

● Guide of specifications

The sizes (D), (H) and (L) of screws in the specifications refers to the following parts



About dimensions of screw feeders

The dimensions in the left chart don't include projections and depressions. See the DXF files from HIOS website for more information. www.hios.com

Go to DOWNLOAD -> DXF -> Automatic screw feeder

* Special software is required to view DXF files.

Configuration of Screw Feeder

Main unit		Main unit only
Model		Main unit + applicable rail (1pc)
Replacement rail		Specify the rail's model number for ordering a rail.

Neji Taro V

HSV Series

Multiple input type
AC100V-240V  

- A single unit can handle eight screw sizes by simply replacing the rail.
- The rotary escaper has been adopted to take out screws.
 - It has realized stable catching of screws by eliminating tangling of screws.
- Quickly catches unstable screws.
 - For examples, countersunk screws, screws with washer and thinner head screws can be handled
- Compatible with suction types (for automatic assembly machines)

For manual operation

For automatic assembly machines

HSV Series



Models:

HSV-10 (M1.0) HSV-20 (M2.0)
HSV-12 (M1.2) HSV-23 (M2.3)
HSV-14 (M1.4) HSV-26 (M2.6)
HSV-17 (M1.7) HSV-30 (M3.0)

HSV-RB Series



Models:

HSV-10RB (M1.0) HSV-20RB (M2.0)
HSV-12RB (M1.2) HSV-23RB (M2.3)
HSV-14RB (M1.4) HSV-26RB (M2.6)
HSV-17RB (M1.7) HSV-30RB (M3.0)

● Specifications

Classification		HSV Series	HSV-RB Series
Power Supply (AC adapter)	Input	AC100-240V (50/60Hz)	
	Output	DC15V 1A	
Dimensions (mm)		123(W)×181(D)×145(H)	
Weight (kg)		About 3kg (including the rail)	
Screw capacity		80cc	
Overload protection circuit		Reverse rotation when overloaded, Forward rotation when restored	
Included Accessories: 1 installed standard rail, 2 guide plates (1 installed), 1 hexagonal wrench (width across flats 2mm), 1 screwdriver (for timer adjustment), 2 escaper guides for robot (1 installed), 1 AC adapter			

* AC adapter is included for overseas use.

● Range of screws that can be supplied

Main unit	Model	Nominal screw diameter	(D) Head diameter (mm)	(H) Head thickness (mm)	(L) Shaft length (mm)	Replacement rail model number
HSV	HSV-10	M1.0	1.2-9	0.35 or more	1.6-10	HSV-BI-10
	HSV-12	M1.2	1.4-9	0.35 or more	1.8-10	HSV-BI-12
	HSV-14	M1.4	1.6-9	0.35 or more	2.0-10	HSV-BI-14
	HSV-17	M1.7	1.9-9	0.35 or more	2.3-10	HSV-BI-17
	HSV-20	M2.0	2.2-9	0.35 or more	2.6-20	HSV-BI-20
	HSV-23	M2.3	2.5-9	0.35 or more	2.9-20	HSV-BI-23
	HSV-26	M2.6	2.8-9	0.35 or more	3.2-20	HSV-BI-26
	HSV-30	M3.0	3.2-9	0.35 or more	3.6-20	HSV-BI-30
HSV-RB	HSV-10RB	M1.0	1.2-9	0.35 or more	1.6-10	HSV-RI-10
	HSV-12RB	M1.2	1.4-9	0.35 or more	1.8-10	HSV-RI-12
	HSV-14RB	M1.4	1.6-9	0.35 or more	2.0-10	HSV-RI-14
	HSV-17RB	M1.7	1.9-9	0.35 or more	2.3-10	HSV-RI-17
	HSV-20RB	M2.0	2.2-9	0.35 or more	2.6-20	HSV-RI-20
	HSV-23RB	M2.3	2.5-9	0.35 or more	2.9-20	HSV-RI-23
	HSV-26RB	M2.6	2.8-9	0.35 or more	3.2-20	HSV-RI-26
	HSV-30RB	M3.0	3.2-9	0.35 or more	3.6-20	HSV-RI-30

- A single unit can handle two screw diameters by changing rails.
- It has a large screw capacity of 150cc.
- Compatible with the suction type (for automatic assembly machines)

For manual operation

For automatic assembly machines

HS Series



Models:

HS-35 (M3.5) HS-40 (M4.0)
HS-50 (M5.0)

HS-RB Series



Models:

HS-35RB (M3.5) HS-40RB (M4.0)
HS-50RB (M5.0)

● Specifications

Classification	HS Series	HS-RB Series
DC Input	DC12V 500mA	
Dimensions (mm)	130(W)×215(D)×136(H)	134(W)×275(D)×136(H)
Weight (kg)	About 3.2kg (including the rail)	About 4.2kg (including the rail)
Screw capacity	150cc	
Overload protection circuit	Reverse rotation when overloaded, Forward rotation when restored	
Included Accessories: 1 installed standard rail, 1 guide plate, 1 hexagonal wrench (width across flats 2mm)		

* If you purchase it, please refer to p.68 ordercode.

● Range of screws that can be supplied

Main unit	Model	Nominal screw diameter	(D)Head diameter(φ)	(H) Head thickness(mm)	(L)Shaft length(mm)	Replacement rail model number
HS-450	HS-35	M3.5	3.8-10.7	0.5 or more	5-18	HS-R35
	HS-40	M4.0	4.3-10.7	1.0 or more	5-18	HS-R40
	HS-50	M5.0	5.3-10.7	1.0 or more	6-18	HS-R50
HS-450RB	HS-35RB	M3.5	3.8-10.7	0.5 or more	5-18	HS-R35RB
	HS-40RB	M4.0	4.3-10.7	1.0 or more	5-18	HS-R40RB
	HS-50RB	M5.0	5.3-10.7	1.0 or more	6-18	HS-R50RB

- A single unit can handle different screw diameters by changing rails.
 - 8 screw diameters for the manual operation type, 6 screw diameters for the automatic assembly machines
- It feeds screws quickly; 120 screws per minute at average / M3 x 8 (for automatic assembly machines)
- Compatible with the suction type (for automatic assembly machines)

For manual operation

For automatic assembly machines

HS III Series



Models:

HS III-10 (M1.0) HS III-20 (M2.0)
HS III-12 (M1.2) HS III-23 (M2.3)
HS III-14 (M1.4) HS III-26 (M2.6)
HS III-17 (M1.7) HS III-30 (M3.0)

HS III-RB Series



Models:

HS III-14RB (M1.4) HS III-23RB (M2.3)
HS III-17RB (M1.7) HS III-26RB (M2.6)
HS III-20RB (M2.0) HS III-30RB (M3.0)

● Specifications

Classification	HS III Series	HS III-RB Series
DC Input	DC12V 500mA	
Dimensions (mm)	123(W)×181(D)×145(H)	123(W)×181(D)×144(H)
Weight (kg)	About 3kg (including the rail)	
Screw capacity	80cc	
Overload protection circuit	Reverse rotation when overloaded, Forward rotation when restored	
Included Accessories: 1 installed standard rail, 1 guide plate, 1 hexagonal wrench (width across flats 2mm), 1 gauge plate (0.35mm)		

* If you purchase it, please refer to p.68 ordercode.

● Range of screws that can be supplied

Main unit	Model	Nominal screw diameter	(D)Head diameter(φ)	(H) Head thickness(mm)	(L)Shaft length(mm)	Replacement rail model number
HS III-300	HS III-10	M1.0	1.2-9	0.35 or more	1.6-10	HS-SR10
	HS III-12	M1.2	1.4-9	0.35 or more	1.8-10	HS-SR12
	HS III-14	M1.4	1.6-9	0.35 or more	2.0-10	HS-SR14
	HS III-17	M1.7	1.9-9	0.35 or more	2.3-10	HS-SR17
	HS III-20	M2.0	2.2-9	0.35 or more	2.6-20	HS-SR20
	HS III-23	M2.3	2.5-9	0.35 or more	2.9-20	HS-SR23
	HS III-26	M2.6	2.8-9	0.35 or more	3.2-20	HS-RS26
	HS III-30	M3.0	3.2-9	0.35 or more	3.6-20	HS-SR30
HS III-300 RB	HS III-14RB	M1.4	1.6-9	0.35 or more	2.0-10	HS-SR14RB
	HS III-17RB	M1.7	1.9-9	0.35 or more	2.3-10	HS-SR17RB
	HS III-20RB	M2.0	2.2-9	0.35 or more	2.6-20	HS-SR20RB
	HS III-23RB	M2.3	2.5-9	0.35 or more	2.9-20	HS-SR23RB
	HS III-26RB	M2.6	2.8-9	0.35 or more	3.2-20	HS-SR26RB
	HS III-30RB	M3.0	3.2-9	0.35 or more	3.6-20	HS-SR30RB

HSF Series

Multiple input type

AC100V-240V

- A single unit can handle different screw diameters by changing rails.
 - HSF-01 handles 4 screw diameters, and HSF-02 handles 3 screw diameters.
- Low-profile design most suitable for cell production with the width of 55mm
- It can handle screws with thin heads by adjusting the sensor.

For manual operation

HSF Series



Models:

HSF-10 (M1.0) HSF-20 (M2.0)
HSF-12 (M1.2) HSF-26 (M2.6)
HSF-14 (M1.4) HSF-30 (M3.0)
HSF-17 (M1.7)

● Specifications

		HSF Series
Power supply	Input	AC100-240V (50/60Hz)
Power supply	Output	DC15V 1A
Dimensions (mm)		55(W)×205(D)×14.25(H)
Weight (kg)		About 2.4kg (including the rail)
Screw capacity		40cc
Overload protection circuit	Reverse rotation when overloaded, Forward rotation when restored	
Included Accessories: 1 installed standard rail, 1 hexagonal wrench (width across flats 2mm)		

* AC adapter is included for overseas use.

● Range of screws that can be supplied

Main unit	Model	Nominal screw diameter	(D)Head diameter(φ)	(H)Head thickness(mm)	(L)Shaft length(mm)	Replacement rail model number
HSF-01	HSF-10	M1.0	1.2-2.2	0.35 or more	1.6-16	HS-WR10
	HSF-12	M1.2	1.4-2.5	0.35 or more	1.8-16	HS-WR12
	HSF-14	M1.4	1.6-2.8	0.35 or more	2.0-16	HS-WR14
	HSF-17	M1.7	1.9-3.4	0.35 or more	2.3-16	HS-WR17
	HSF-20	M2.0	2.2-4.2	0.35 or more	2.6-16	HS-WR20
HSF-02	HSF-26	M2.6	2.8-5.0	0.35 or more	3.2-16	HS-WR26
	HSF-30	M3.0	3.2-5.8	0.35 or more	3.6-16	HS-WR30