

# HS Series (For Manual Operation/Automated Machines)

## Neji Taro aligns screws!

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

- A single unit can handle different screw sizes by changing rails. Easy rail replacement.
- Screws are accurately aligned and quickly fed to a line. Feeding speed can be adjusted depending on operational conditions.
- Special screws can be also handled.

- 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 chucking of screws by eliminating tangling of screws.
- Quickly catches unstable screws. For example, countersunk screws, screws with washer and thinner head screws can be handled.
- Can be used with the vacuum pick up screwdriver (for automated machines).

- A single unit can handle three screw sizes by replacing the rail.
- A large screw capacity of approx. 150 cc.
- Can be used with the vacuum pick up screwdriver (for automated machines).

#### HSV Series

(for Manual Operation)



#### HSV-RB Series

(for Automated Machines)



#### HS Series

(for Manual Operation)






#### HS-RB Series

(for Automated Machines)



## SPECIFICATIONS

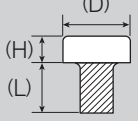
Category		HSV Series (for Manual Operation)	HSV-RB Series (for Automated Machines)	HS Series (for Manual Operation)	HS-RB Series (for Automated Machines)
Take Out Screws by:		Rotary escaper 		 Linear rail	 Slide escaper
Power Supply (AC adaptor)	Input	AC100-240V (50/60Hz)			
	Output	DC15V 1A			
Dimensions (mm)		123(W)×181(D)×145(H)		130(W)×215(D)×136(H)	134(W)×275(D)×136(H)
Weight		Approx. 3 kg (including the rail)		Approx. 3.2 kg (including the rail)	Approx. 4.2 kg (including the rail)
Screw Capacity		80cc		150cc	
Overload Protection Circuit		Reverse rotation when overloaded, Forward rotation when restored		Reverse rotation when overloaded, Forward rotation when restored	
Accessories		Hexagonal wrench (width across flats 2mm) 1 pc, screwdriver 1 pc (for timer adjustment), AC adaptor 1 pc, GND wire 1 pc, CD-ROM			

## Range of Feedable Screws

Model	Nominal Screw Diameter	(D) Head Diameter (∅)	(H) Head Thickness (mm)	(L) Thread Length (mm)	Replacement Rail Model No.		
HSV (Main Unit)	HSV-10	M1.0	1.8 - 4.5	0.35 - 1.0	1.6 - 10	HSV-BI-10	
	HSV-12	M1.2	1.8 - 4.5	0.35 - 1.0	1.9 - 10	HSV-BI-12	
	HSV-14	M1.4	2.0 - 4.5	0.35 - 1.0	2.2 - 10	HSV-BI-14	
	HSV-17	M1.7	2.5 - 4.5	0.35 - 1.0	2.7 - 10	HSV-BI-17	
	HSV-20	M2.0	3.0 - 6	0.35 - 4.5	3.2 - 20	HSV-BI-20	
	HSV-23	M2.3	3.3 - 6	0.35 - 4.5	3.7 - 20	HSV-BI-23	
	HSV-26	M2.6	3.6 - 6	0.35 - 4.5	4.2 - 20	HSV-BI-26	
	HSV-30	M3.0	4.0 - 6	0.35 - 4.5	4.8 - 20	HSV-BI-30	
	HSV-RB (Main Unit)	HSV-10RB	M1.0	1.8 - 4.5	0.35 - 1.0	1.6 - 10	HSV-RI-10
		HSV-12RB	M1.2	1.8 - 4.5	0.35 - 1.0	1.9 - 10	HSV-RI-12
HSV-14RB		M1.4	2.0 - 4.5	0.35 - 1.0	2.2 - 10	HSV-RI-14	
HSV-17RB		M1.7	2.5 - 4.5	0.35 - 1.0	2.7 - 10	HSV-RI-17	
HSV-20RB		M2.0	3.0 - 6	0.35 - 4.5	3.2 - 20	HSV-RI-20	
HSV-23RB		M2.3	3.3 - 6	0.35 - 4.5	3.7 - 20	HSV-RI-23	
HSV-26RB		M2.6	3.6 - 6	0.35 - 4.5	4.2 - 20	HSV-RI-26	
HSV-30RB		M3.0	4.0 - 6	0.35 - 4.5	4.8 - 20	HSV-RI-30	

Model	Nominal Screw Diameter	(D) Head Diameter (∅)	(H) Head Thickness (mm)	(L) Thread Length (mm)	(Replacement Rail Model No.)	
HS-450 (Main Unit)	HS-35	M3.5	4.8 - 8.0	0.5 - 8.0	5.6 - 18	HS-R35
	HS-40	M4.0	5.4 - 8.0	0.5 - 8.0	6.4 - 18	HS-R40
	HS-50	M5.0	6.2 - 10.0	0.5 - 8.0	8.0 - 18	HS-R50
HS-450RB (Main Unit)	HS-35RB	M3.5	4.8 - 8.0	0.5 - 8.0	5.6 - 18	HS-R35RB
	HS-40RB	M4.0	5.4 - 8.0	0.5 - 8.0	6.4 - 18	HS-R40RB
	HS-50RB	M5.0	6.2 - 10.0	0.5 - 8.0	8.0 - 18	HS-R50RB




### Screw Dimensions

	(D)	(H)	(L)
	Head diameter (∅)	Head thickness (mm)	Thread length (mm)

- A single unit of this model can handle different screw diameters by replacing rails (8 screw sizes for the manual operation type, 6 screw sizes for the automated machines).
- High-speed feeding: 120 screws (M3 x 8) per minute on average (for automated machines)
- Can be used with the suction type (for automated machines).

- A single unit can handle different screw diameters by replacing rails (HSF-01 handles 5 screw sizes, and HSF-02 handles 3 screw sizes).
- Low-profile design with the width 55 mm is most suitable for cell production.
- It can handle screws with thin heads by adjusting the sensor.

### Configuration of Screw Feeder

Main unit model	Model	Replacement rail
 Main unit only	 Main unit + applicable rail (1 pc)	 Specify the rail's model No. for ordering a rail.

### HSIII Series

(for Manual Operation)



### HSIII-RB Series

(for Automated Machines)



### HSF Series

(for Manual Operation)



## SPECIFICATIONS

Category		HSIII Series (for Manual Operation)	HSIII-RB Series (for Automated Machines)	HSF Series (for Manual Operation)
Take out screws by:		⇒ ⇒ ⇒ Linear rail	↳ Slide escaper	⇒ ⇒ ⇒ Linear rail
Power supply (AC Adaptor)	Input	AC100V-240V (50/60Hz)		AC100-240V (50 / 60Hz)
	Output	DC15V 1A		DC15V 1A
Dimensions (mm)		123(W)×181(D)×145(H)	123(W)×181(D)×144(H)	55(W)×205(D)×142.5(H)
Weight		3kg (including the rail)		Approx. 2.4kg (including the rail)
Screw Capacity		80cc		40cc
Overload Protection Circuit		Reverse rotation when overloaded, Forward rotation when restored		Reverse rotation when overloaded, Forward rotation when restored
Accessories		Hexagonal wrench (width across flats 2 mm) 1 pc, screwdriver 1 pc (for timer adjustment), AC adaptor 1 pc, gauge plate (only for manual HSIII), ground wire 1 pc, CD-ROM		Hexagonal wrench (width across flats 2 mm) 1 pc, screwdriver 1 pc (for timer adjustment), AC adaptor 1 pc, ground wire 1 pc, CD-ROM

## Range of Feedable Screws

Model	Nominal Screw Diameter	(D) Head Diameter (∅)	(H) Head Thickness (mm)	(L) Thread Length (mm)	(Replacement Rail Model No.)	
HSIII-300 (Main Unit Model)	HSIII-10	M1.0	1.8 - 4.5	0.35 - 1.0	1.6 - 10	HS-SR10
	HSIII-12	M1.2	1.8 - 4.5	0.35 - 1.0	1.9 - 10	HS-SR12
	HSIII-14	M1.4	2.0 - 4.5	0.35 - 1.0	2.2 - 10	HS-SR14
	HSIII-17	M1.7	2.5 - 4.5	0.35 - 1.0	2.7 - 10	HS-SR17
	HSIII-20	M2.0	3.0 - 6	0.35 - 4.5	3.2 - 20	HS-SR20
	HSIII-23	M2.3	3.3 - 6	0.35 - 4.5	3.7 - 20	HS-SR23
	HSIII-26	M2.6	3.6 - 6	0.35 - 4.5	4.2 - 20	HS-RS26
	HSIII-30	M3.0	4.0 - 6	0.35 - 4.5	4.8 - 20	HS-SR30
HSIII-300RB (Main Unit Model)	HSIII-14RB	M1.4	2.0 - 4.5	0.35 - 1.0	2.2 - 10	HS-SR14RB
	HSIII-17RB	M1.7	2.5 - 4.5	0.35 - 1.0	2.7 - 10	HS-SR17RB
	HSIII-20RB	M2.0	3.0 - 6	0.35 - 4.5	3.2 - 20	HS-SR20RB
	HSIII-23RB	M2.3	3.3 - 6	0.35 - 4.5	3.7 - 20	HS-SR23RB
	HSIII-26RB	M2.6	3.6 - 6	0.35 - 4.5	4.2 - 20	HS-SR26RB
	HSIII-30RB	M3.0	4.0 - 6	0.35 - 4.5	4.8 - 20	HS-SR30RB

Model	Nominal Screw Diameter	(D) Head Diameter (∅)	(H) Head Thickness (mm)	(L) Thread Length (mm)	(Replacement Rail Model No.)	
HSF-01 (Main Unit Model)	HSF-10	M1.0	1.8 - 2.0	0.35 - 1.0	1.6 - 10	HS-WR10
	HSF-12	M1.2	1.8 - 2.3	0.35 - 1.0	1.9 - 10	HS-WR12
	HSF-14	M1.4	2.0 - 2.5	0.35 - 1.0	2.2 - 10	HS-WR14
	HSF-17	M1.7	2.5 - 3.0	0.35 - 1.0	2.7 - 10	HS-WR17
	HSF-20	M2.0	3.0 - 4.0	0.35 - 1.3	3.2 - 16	HS-WR20
HSF-02 (Main Unit Model)	HSF-23	M2.3	3.5 - 4.0	0.35 - 1.5	3.7 - 16	HS-WR23
	HSF-26	M2.6	4.0 - 4.5	0.35 - 1.7	4.2 - 16	HS-WR26
	HSF-30	M3.0	5.0 - 5.5	0.35 - 2.0	4.8 - 16	HS-WR30

### About Dimensions of Screw Feeders

The dimensions in the chart don't include projections and depressions. See HIOS website for details.

[www.hios.com](http://www.hios.com)

DOWNLOAD ► DXF ► Automatic screw feeder