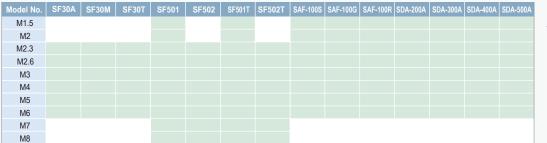


# AUTOMATIC FEEDER Screw & Rivet



# **Applicable Screw Dimension Chart**

#### Selection Chart :



★ Listed below are typical screw sizes acceptable for our screw feeders.

Please follow the check steps. Step 1: Screw Head Dia. D Step 2: Screw Length (H) ≥ Min. H Step 3: Screw Length (H) ≤ L e.g.: screw size 1. D:5, H: 22 = OK 2. D:5, H: 23 = NO 3. D:5, H:7 = NO

#### **Specifications** :

	SF30A, SF30T, SDA Series, SAF-100S(G)(R)			SF501, SF501T, SF502, SF502T			
	Screw Head Dia. (D)	Min.H Dimension (H)	Max.L Dimension (L)	Screw Head Dia. (D)	Min.H Dimension (H)	Max.L Dimension (L)	
	5	8	22	5	8	30	
	6	9	22	6	9	30	
L 🖉 🗖	7	10	22	7	10	30	
	8	11	22	8	11	30	
	9	12	22	9	12	30	
—► d 🖛	10	13	22	10	13	30	
	11	15	22	11	15	30	
(Unit: mm)	12	16	22	12	16	30	
(Onic. mini)	-	-	-	13	18	30	
	-	-	-	14	20	30	

1. (d):1.5~8 mm

2.(L) should be 2~3mm longer than (D).

3. The depth of hole on working piece under no obstacle about less than 5mm is available with standard screw feeder.

4. The max. depth of hole on working piece: 45-50mm

\* When dimension of hole is bigger but less than 0.5mm than dimension of screw head, should process related parts, like adapter, Y pipe, pipe cover...etc.

★ When dimension of hole is bigger and more than 2.5mm than dimension of screw head, should process related parts, like adapter,

Y pipe, pipe cover and add L shape jig...etc.

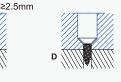
★ The dimension of hole is bigger between 0.5mm~2.5mm than dimension of screw head will be not suitable for screw feeder basically, but can be discussed case by case.

#### Fastening Environment :

**Application Synopsis :** 







#### Applicable Screw Type :



Optional Mechanism :

(1) Special clamp for screwing under-sized screws.

(2) Whole custom-made machine set for over-sized screws.

Suitable Air Screwdr	iver / Screw Feeder	SF30A / SF501 / SF502	SF30T / SF501T / SF502T	SF30M	SDA series	SAF-100		
Transducerized		SMT-A10SI / A24SIH / A30SI	SMT-A10SI / A24SIH / A30SI	SMT-A10SI / A24SIH / A30SI	SMT-A10SI / A24SIH / A30SI	SMT-A10SI / A24SIH / A30SI		
(Torque & Angle Control Type)	Screwdriver	SMT-A30I / A50I / A70I	SMT-A30I SMT-A50I (Max. 4 Nm)	SMT-A30I	SMT-A30I / A50I / A70I	SMT-A30I / A50I/A70I		
	Controller		SMT-C2					
		SMT-10SI / 30SI	SMT-10SI / 30SI	SMT-10SI / 30SI	SMT-10SI / 30SI	SMT-10SI / 30SI		
Transducerized	Screwdriver	SMT-30I / 50I / 70I	SMT-30I, SMT-A50I (Max. 4 Nm)	SMT-30I	SMT-30I / 50I / 70I	SMT-30I / 50I / 70I		
Torque Control Type)		SMT-120I / 180I	-	-	-	SMT-120I / 180I		
		SMT-250I	-	-	-	SMT-250I		
	Controller	SMT-C1 / C1B						
	Push Start	★EA-BN2xxP Series	-	-	EA-BN2xxP Series	EA-BN2xxP Series		
		★EA-BN4xxP Series	-	-	EA-BN4xxP Series	EA-BN4xxP Series		
Electric		★EA-BN6xxP Series	-	-	EA-BN6xxP Series	EA-BN6xxP Series		
Screwderiver	Lever Start	EA-BN2xxL Series	EA-BN2xxL Series	EA-BN2L Series	EA-BN2xxL Series	EA-BN2xxL Series		
		EA-BN4xxL Series	EA-BN4xxL Series	EA-BN4L Series	EA-BN4xxL Series	EA-BN4xxL Series		
		EA-BN6xxL Series	EA-BN6xxL Series	EA-BN6L Series	EA-BN6xxL Series	EA-BN6xxL Series		
Signal	Output Signal (start / stop/ reverse)		EAA-SCBSN6	EAA-SCBSN6-S	EAA-SCBSN6	EAA-SCBSN6		
Controller	Input Signal (start / reverse)	-						
Air	Push Start	★FP Series	-		50/51			
Screwderiver	Lever Start	FL Series	FL Series	-	FP/FL	FP/FL		
Screw Feeder		-	-	-	SF30F / SF501F	SF30F / SF501F		

**REMARK:** 

"★" means RECOMMEND MODEL

★For SF30M: only can be used with standard speed tool.

#### Features:

- ★ Repeated accuracy: +/-0.01mm
- ★ Suitable for various kinds of working range. It is designed in four models, i.e. 200\*200, 300\*300, 400\*400 and 510\*510mm.
- ★ It provides 255 groups, or 30,000 points, of working memory modules.
- ★ Different working memory modules can be changed in one minute with control panel, which is suitable for small-quantity
- $\star$  diversified production.
- $\star$  Short supply detection and warning functions are included.
- ★ Thread-slipping detection and warning functions are included.
- ★ Torque reaching detection and warning functions are included (option).

SDA200A(V) SDA300A(V)

- $\star$  It can be used to support varied height fastening.
- ★ It can use remote teaching MDI to write programs; or use the computer for online operation.
- ★ Platform maximum loading: 7KG





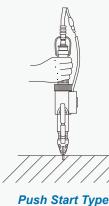
#### Adaptable Feeder Option:

Model No.	Feeder No.
SDA200A SDA300A SDA400A SDA500A	SF30F SF50F   Automatic Screw Feeder SF501F   Automatic Screw Feeder Automatic Screw Feeder
SDA200V SDA300V SDA400V SDA500V	SFR20 SFR30 SFR30   Automatic Screw Feeder SFR30 SFR50   Automatic Screw Feeder Automatic Screw Feeder

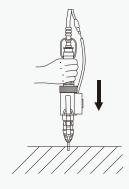
#### Features: (for SF30A / SF30T )

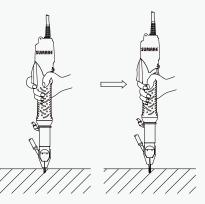
- ★ It is manufactured by fast, stabilized and convenient design principles, which combine with pneumatic/electric screwdriver, Hi-tech
- ★ Auto Feeder and High-precision Screw Jaw to escalate the screw fastening speed in order to significantly enhance the production efficiency.
- ★ The Screw Jaw will be customized according to the customer's screws and work-piece to ensure smooth and stable operation.
- ★ The lever-activating design shall meet the ergonomics and labor-saving requirements. (for SF30T- Lever start)
- ★ Simply press the lever and the Screwdriver will complete the screw fastening automatically. (for SF30T- Lever start)
- ★ The screwdriver head ejects the screw for fastening automatically. It prevents the jaw from contacting the surface of the work-piece; thus it will neither rub the product nor produce stress. (for SF30T- Lever start)
- $\star$  Automatic feeding to completely save the screw picking and moving action.
- ★ Applicable for 2.5mm~6.0mm screws.
- ★ It provides faster operating speed up to 20~30 pieces of screws per minute.
- ★ The torque-controlled screwdriver is used to improve the fastening quality for the customer.
- ★ Fiber Optic control intellectual-type feeding, saving power while avoiding short supply.
- $\star$  It is equipped with Spring Balancer to provide load free operation experience.
- ★ You may also select TA-22050B, TA-22070B, SDC-01 to provide a variety of accessory combinations according to the actual work need so as to achieve high-performance fastening quality.



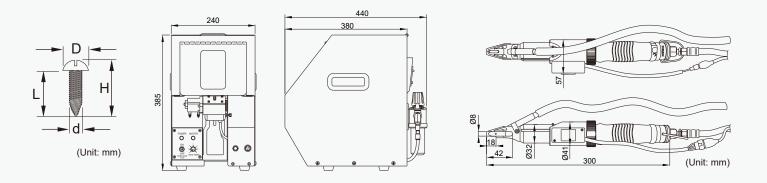


SF30A





Lever Start Type SF30T



# **Automatic Screw Feeder**





#### SF30A-N-T

Automatic Screw Feeder, w/two outlet (For automatic two screws come out simultaneously)

Automatic Screw Feeder, magnetic force type

#### **Specification:**

Model No.	Screw Size	Screw Length (w/o head)	Max Screw Head	Weight(N.W.)	Voltage	Working Pressure
SF30A SF30T SF30A-N-T	M2.3 - M6	8 - 22 mm	5 - 12 mm	22 kg	110 / 220V	5 - 6 bar
SF30M	M2.3 - M6	8 - 22 mm	3.5 - 8 mm	22 kg	110 / 220V	5 - 6 bar

#### Features:

- ★ Automatic Screw feeding. No more screw picking and moving action.
- ★ It provides faster operating speed up to 40 pieces (SF501) & 60 pieces (SF502) of screws per minute.
- ★ Simple structure and easy maintenance.
- $\star$  It is equipped with Spring Balancer to provide load free operation experience.
- $\star$  SF502 is with two escapements for two screwdrivers, can work separately.



SF501 (for Push Type) SF501T (for Lever Type)

Vibration bowl and laser on linear

designed to have stable feeding.

#### Specification:

Model No.	Screw Size	Screw Length (mm)	Max Screw Head (mm)	Tolerance	L / W / H (mm)	Weight (kg)	Voltage	Capacity (pcs/min)	Type of Screwdriver	Working Pressure
SF501	M1.5~M8	8~30	14	±0.2	510 x 500 x 395	70	220V	40	Air / Electric	5 - 6 Bar
SF502	M3~M8	8~30	14	±0.2	600 x 535 x 485	90	220V	60 (for two drivers)	Air / Electric	5 - 6 Bar

# **Automatic Rivet Feeder**

#### Features:

- ★ Automatic rivet feeding. No more rivet picking and moving action.
- $\star$  It provides faster operation.
- $\star$  Simple structure and easy maintenance.
- ★ It is equipped with spring balancer to provide load free operation experience.

Durable head assembly set and riveting gun.





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SF502 (for Push Type)

SF502T (for Lever Type) For two screwdrivers outlets

Adjustable vibration/linear feeding speed.



Side handles & Rubber wheels: convenience and move easily by portable designed.

#### Specification :

Model	No.	Riveting Capacity inch(mm)	Dimension (LxWxH) (mm)	Net Weight (kgs)	Voltage (V/Hz)	Working Pressure
RF5	01	3/32" (2.4), 1/8" (3.2), 5/32" (4.0), 3/16" (4.8)	425 x 555 x 700	95	220/50 220/60	6 - 7 Bar

# Spindle Type Automatic Screw Feeding Module

#### Features:

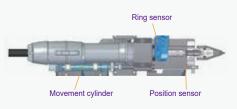
- $\star$  It can be mounted in the fully-automated assembly line.
- $\star$  Or, it can also integrate with semi-auto assembly station.
- $\star$  The bit can be easily replaced in 60 seconds.
- ★ It achieves 25-30 screws operation per minute.
- $\star$  It can be installed vertically, horizontally or at any other angle.
- $\star$  Torque detection. No signal output before reaching the torque value.
- ★ Fastening end detection included. No signal output before reaching the position.
- ★ Specifically designed and manufactured for automatic production line.

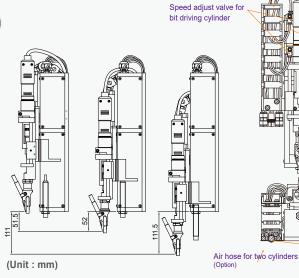


SAF-100S (w/Cylinder)



SAF-100R (No Cylinder)





SAF-100G (w/Cylinder)

SE30A SAF-100

Sample View:

Мо	del No.	SAF-100S	SAF-100G	SAF-100R
Ма	x. storke (mm)	93	93	-
Mir	n. storke	51.5	51.5	-
Sci	rew capacity (mm)	M1.5 ~ M3	M3 ~ M6	M1.5 ~ M6
Air	cylinder	V	V	-
For	Max. Torque rang (Nm)	3	5	5
Electric tools	Max. Tool diameter (mm)	30	46	46
For	Max. Torque rang (Nm)	3	5	5
Air tools	Max. Tool diameter (mm)	30	46	46

Ма	x. storke (mm)	93	93	-
Mir	n. storke	51.5	51.5	-
Sci	rew capacity (mm)	M1.5 ~ M3	M3 ~ M6	M1.5 ~ M6
Air	cylinder	V	V	-
or	Max. Torque rang (Nm)	3	5	5
Electric tools	Max. Tool diameter (mm)	30	46	46
For	Max. Torque rang (Nm)	3	5	5
Air tools	Max. Tool diameter (mm)	30	46	46
Carrier (Op	tion)			

Torque control

Speed adjust Valve for jaw position cylinder

Bit

electric screwdriv

Mounting fac

Jaw Base

Screwdriver Connection Cable

Jav

Cushion



0

Cable

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