

NEJICCO

THE "NEJICCO" AUTOMATIC SCREW FEEDER



SAS-503 SAS-503RS SAS-503RC SAS-503FQ

Sony Trading International Corp.

Drastic Improvement of Screw Chucking Speed with "Nejikko," the Automatic Screw Feeder



Time per screw chucking is reduced by 1.4 seconds. This is four times the productivity of a conventional screw tray.

FEATURES

- Remove the screw without having to find the screw head. Simply fit the tip of the bit between the Bit guides, slide it down along the guide with a quick spin of the bit, and pull toward you to remove the screw.
- Save 1.4 seconds per screw compared to a conventional screw tray, meaning four times the productivity.
- Simple operation. Even a beginner can learn how to use the "NEJICCO" almost straight away.
- There is no need to align the screws. Simply throw screws into the Supply chamber.
- Compatible with a wide range of screw types, lengths and head shapes.
- Easily adjust to the screw head shape with an exterior control of the unit.
- Small size. Taking up very little space, one operator can handle several units at a time.
- Contains dipper overload protection and reverse power polarity prevention circuits.

USES



1

With a conventional screw tray, it was necessary to first align all of the screws in the tray, fit the tip of the bit aiming at the cross recess of the screw head, and pull up the screw.



2

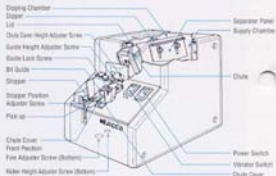
With NEJICCO, simply throw the screws into the Supply chamber, and then transfer the appropriate amount into the Dipping chamber using the Screw amount adjuster plate.



3

When the unit is switched on, screws are brought to and lined up individually at the Pick-up position. Slide the magnetized bit down along the Bit guide to chuck the screw.

PART NAMES



OPTIONS

• Applicable Bits

Standard	Nominal Dia. of Screw	Dia. of Bit	Type of Cross Shaped Tip	Shape and Dimension of Mount
JIS Precision Miniature Screw	ø1.4	ø1.4	No. 0	Different mounts are required depending on the manufacturer and model of driver.
	ø1.7	ø1.7		
	ø2.0	ø2.0 or 2.3		
	ø2.3	ø2.3		
	ø2.6	ø2.6		
JIS Miniature Screw	ø2.0	ø2.3	No. 1	Bit Mount Diameter of Bit
	ø2.3	ø2.3		
	ø2.6	ø2.6		
	ø3.0	---		
	ø4.0	---		
	ø5.0	---	No. 2	Cross-shaped Tip of Bit

Feed Screws Separately to a Robotic Vacuum Driver with a Special Screw Outlet



Designed to work with a screwing robot equipped with a vertical screw pick-up driver. Contains a screw separating feeder to facilitate screw chucking.

FEATURES

- Accurate positioning of screws at the outlet.
- Each screw is separated from the stock and brought into place individually ready for pick-up.
- Can meet fast continuous robot pick-up action.
- Smaller, less expensive than existing robot machines.
- Accepts a wide range of screw types, lengths and head shapes.
- Adjusts easily to different screw heads with exterior controls.
- Dipper overload protection and reverse power polarity prevention circuits.

Options: High volume adapter

*High Volume Adapter can be attached to all models.



USES



1

Simply throw the screws into the Supply chamber, and transfer the appropriate amount into the Dipping chamber using the Screw amount adjuster plate.



2

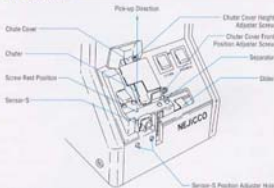
Supplying screws to a Scholar robot at work.



3

Working with a Right-angled motion robot.

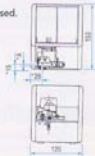
PART NAMES



EXTERIOR DIMENSIONS

* : Screw Outlet Dimensions

A : 1/2 nominal diameter of the screws used.



Features a Counter Showing Cumulative Number to Prevent Against Mistakes



Four times faster than a conventional screw tray. The repeat counter provides a means of controlling the number of products assembled, and helps to avoid careless mistakes.

FEATURES

- Remove the screw without having to find the screw head.
- Save 1.4 seconds per screw compared to a conventional screw tray, meaning four times the productivity.
- There is no need to align the screws. Simply throw the screws into the Supply chamber.
- Wide compatibility with a range of screw types, lengths and head shapes.
- "Mistake Prevention" Function: An alarm is set off when one set of the screwing process is finished and the two digit negative repeat counter resets the reading, quickly bringing "omissions" or "dropping" to the attention of the operator.
- "Numerical Production Control" Function: When the alarm goes off, the 4 digit positive counter indicating the number of products assembled that have passed that specific position increases by one.
- If a screw is dropped after removal from the supplier, the reading can be corrected by pressing the No-count button.

USES



1

Set the Preset button (Position1, Position10) to the number of screws you wish to be fed, and turn on the power switch for the counters. Press the Clear button to set the Positive counter to zero, then with the Reset button, set to the same number as the Repeat counter.

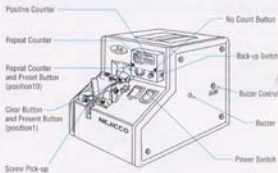
Each time a screw is removed, the Repeat counter will count down. When one set is completed the reading will return to the number set, an alarm will sound and the Positive counter will increase by one.

2



If the operator fails to properly fit the screw, and drops it after it is removed, keep the correct reading by pressing the No-count button and the next screw you remove will not be counted.

PART NAMES



OPTIONS

• Applicable Bits

Standard	Nominal Dia. of Screw	Dia. of Bit	Type of Cross Shaped Tip	Shape and Dimension of Mount
JCS Precision Miniature Screw	ø1.4	ø1.4	No. 0	Different mounts are required depending on the manufacturer and model of driver.
	ø1.7	ø1.7		
	ø2.0	ø2.0 or 2.3		
	ø2.3	ø2.3		
JS Miniature Screw	ø2.6	ø2.6	No. 1	<div style="display: flex; align-items: center;"> <div style="margin-right: 5px;">Mount</div> </div>
	ø2.0	ø2.3		
	ø2.3	ø2.3		
	ø2.6	ø2.6	No. 2	
	ø3.0	---		
	ø4.0	---		
ø5.0	---		Cross-shaped Tip of Bit	

Feed a Specified Number of Screws in a Lot at the Touch of a Finger



Designed for "walk along screwing" on a large assembly line, or "small packaging" work. Feed a set number of screws at the touch of a finger.

FEATURES

- The lot number can be set up to two digits, and the size of the screw can also be set.
- Highly accurate counter
- At one touch of the lever, the preset number of screws can be fed.
- A counter displaying the set number of screws, and number of lots.
- Compact, space efficient.

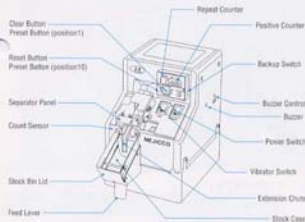
USES

1



Set the Preset knob (Position 10) to the number of screws to be fed in a lot.

PART NAMES



2



Push the Feed lever with your hand under the outlet, to dispense the set lot of screws.

3



When packing, hold the bag under the outlet and push back the Feed lever with your finger as shown in the photo.

SPECIFICATIONS



Model Type	Nominal Diameter	Screw Length (l)				Max. Length
		Min. Length				
		Single	with Spring Washer	with Spring Washer & Plane Washer	Countersunk	
SAS-514-Ilv, SAS-514-IlvRS, 514-IlvRC, 514-IlvFQ	φ1.4	1.4	—	—	1.8	18.0
517-Ilv, 517-IlvRS, 517-IlvRC, 517-IlvFQ	φ1.8	1.6	—	—	2.2	
520-Ilv, 520-IlvRS, 520-IlvRC, 520-IlvFQ	φ2.0	1.8	3.0	5.0	2.5	
523-Ilv, 523-IlvRS, 523-IlvRC, 523-IlvFQ	φ2.3	2.5	4.0	5.0	2.5	
526-Ilv, 526-IlvRS, 526-IlvRC, 526-IlvFQ	φ2.6	2.8	4.0	6.0	3.5	
530-Ilv, 530-IlvRS, 530-IlvRC, 530-IlvFQ	φ3.0	3.0	4.0	6.0	4.0	
540-Ilv, 540-IlvRS, 540-IlvRC, 540-IlvFQ	φ4.0	4.0	6.8	8.0	5.0	
550-Ilv, 550-IlvRS, 550-IlvRC, 550-IlvFQ	φ5.0	5.0	8.0	10.0	6.0	

* 1: Optional models available for screws shorter than the minimum lengths specified for Models 514 to 520.

* 2: SAS-535-Ilv, and SAS-560-Ilv are also available.

Item	SAS-503	SAS-503RS	SAS-503RC	SAS-503FQ
Acceptable Type of Thread	Metric and tapping screw			
Nominal Diameter of Screw	Eight different models available by nominal diameter (See above table)			
Acceptable Screw Heads (Cross-recessed Head)	JCIS: Type 1, 2 & 3 Pan, (countersunk and oval countersunk)	JCIS: Type 1, 2 & 3 Pan, (countersunk and oval countersunk)	JCIS: Type 1, 2 & 3 Pan, (countersunk and oval countersunk)	JCIS: Type 1, 2 & 3 Pan, (countersunk and oval countersunk)
	JIS: Pan, binding, truss mushroom, pleasure, button, WH, (countersunk, and oval countersunk) — with or without washer or spring washer & washer	JIS: Pan, binding, truss mushroom, pleasure, button, WH, (countersunk, and oval countersunk) — with or without washer or spring washer & washer	JIS: Pan, binding, truss mushroom, pleasure, button, WH, (countersunk, and oval countersunk) — with or without washer or spring washer & washer	JIS: Pan, binding, truss mushroom, pleasure, button, WH, (countersunk, and oval countersunk) — with or without washer or spring washer & washer
Acceptable Screw Material	Iron or other magnetic material	Iron, non-iron metallic and plastic	Iron or other magnetic material	Iron, non-iron metallic and plastic
Continuous Screw Dipping Speed	1.5 sec/pc.			
Output Speed	0.5 sec/pc	—	0.5 sec/pc.	0.5 sec/pc
Counter Function	—	—	Two-digit negative repeat counter and 4-digit positive counter	
Power Supply	DC14-16V			
Dimensions	122 × 132 × 153mm (W × H × D)			122 × 177 × 212mm (W × H × D)
Weight	1.1 kg			1.6 kg
Supplied Accessories	Operation Manual, AC power adaptor (DC 12V)			

Note: Special metal fittings are necessary for countersunk or oval countersunk type screws shown in parentheses, and may be ordered as optional items.



Caution: Read the "Operating Manual" thoroughly to ensure safe operation of this product.
*The specifications listed in this catalog are subject to change without notice.

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