

SAS-503RS

S E R I E S

Robot-compatible Automatic Screw Supplier

SAS-514-IVRS, 517-IVRS, 520-IVRS, 523-IVRS
526-IVRS, 530-IVRS, 540-IVRS, 550-IVRS

An automatic screw supplier with outlet that fits vacuum driver of robot.



Designed to work with screwing robot equipped with vertical screw pick-up driver. Comes with screw separator – feeder that facilitates screw chucking.

Features

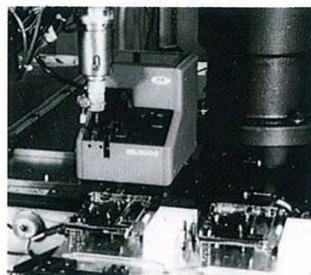
- Accurate positioning of screw at the outlet.
- Each screw is separated from the stock, brought into place one after another and stays for pick-up, making robot's job easy.
- Can meet fast continuous pick-up action of a robot.
- Smaller and less expensive than existing robot-compatible machines.
- Accepts wide-range of screw types, lengths and head shapes.
- Easily adjusts to different screw heads with exterior controls. — Dipper overload protection and reverse power polarity prevention circuits.

Examples



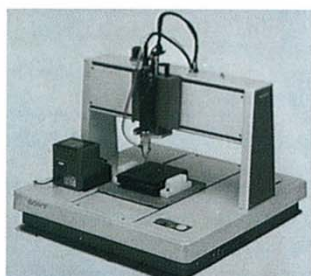
1

Throw screws in a lot into the Supply Chamber, and transfer an appropriate amount of them into the Dipping Chamber using the Screw Amount Adjustable Plate.



2

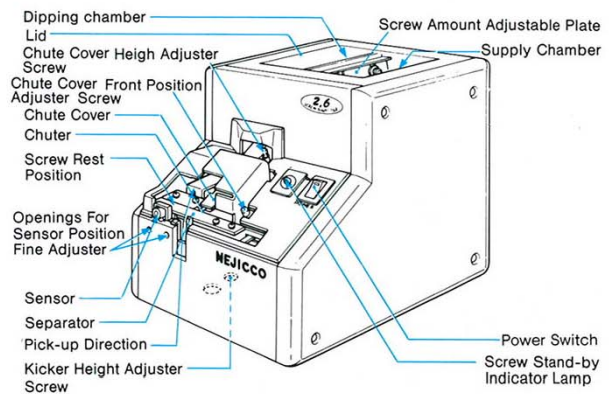
Working with a Scholar robot.



3

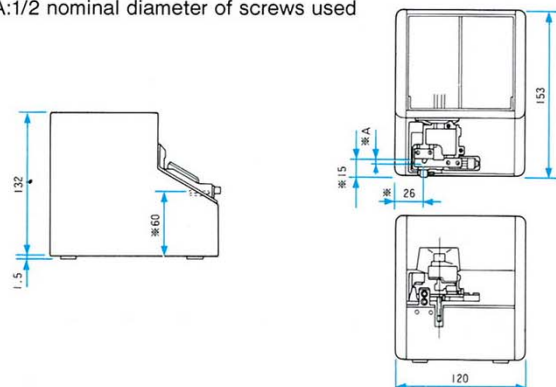
Working with a Right-angled motion robot.

Parts' Names

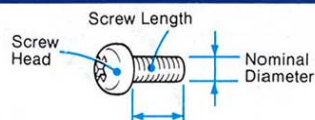


Exterior Dimensions

Screw Outlet height
A: 1/2 nominal diameter of screws used



SPECIFICATIONS



Model Type	Nominal Diameter	Screw Length				Max. Length
		Min. Length				
		Single	with Spring Washer	with Spring Washer & Washer	Counter-sunk	
SAS-514-IIv, SAS-514-IIvRS, 514-IIvRC, 514-IIvFQ,	Ø1.4	1.4	—	—	1.8	18.0
517-IIv, 517-IIvRS, 517-IIvRC, 517-IIvFQ,	Ø1.7	1.6	—	—	2.2	
520-IIv, 520-IIvRS, 520-IIvRC, 520-IIvFQ,	Ø2.0	1.8	3.0	5.0	2.5	
523-IIv, 523-IIvRS, 523-IIvRC, 523-IIvFQ,	Ø2.3	2.5	4.0	5.0	2.8	
526-IIv, 526-IIvRS, 526-IIvRC, 526-IIvFQ,	Ø2.6	2.8	4.0	6.0	3.5	
530-IIv, 530-IIvRS, 530-IIvRC, 530-IIvFQ,	Ø3.0	3.0	4.0	6.0	4.0	
540-IIv, 540-IIvRS, 540-IIvRC, 540-IIvFQ,	Ø4.0	4.0	6.8	8.0	5.0	
550-IIv, 550-IIvRS, 550-IIvRC, 550-IIvFQ,	Ø5.0	5.0	8.0	10.0	6.0	

Optional models available for screws shorter than the minimum lengths specified for Models 514 through 520.

Item	SAS-503	SAS-503RS	SAS-503RC	SAS-503FQ
Acceptable Type of Thread	Machine and tapping			
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 materials attractable by magnet	Iron, non-iron metallic and plastics	Iron or materials attractable by magnet	Iron, non-iron metallic and plastics
Continuous Screw Dipping Speed	1.5 sec./pc.			
Output Speed	0.5 sec./pc.	—	0.5 sec./pc.	0.5 sec./pc.
Counter Function	—	—	One-digit negative repeat counter and 4-digit positive counter	
Power Supply	DC14-16V			
Dimensions	122mmx132mmx153mm (W x H x D)			122mmx177mmx212mm (W x H x 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 counter sunk type screws shown in parentheses, and may be ordered as optional items.



For your safety, please read "Operator's Manual" and "Cautions for your Safety" well Always keep them within reach.

※Specifications and external appearances presented in this catalog may be changed without prior notice due to improvements.