



# Seki's Air Rod Feeder

Supply Unit



Nut Selector



## Key Features and Benefits:

- Enabling an automated and efficient feeding process for both stud and nut welding applications.
- Simple design of the Air Rod Nut Feeder offers a price advantage to that of our competitor's feeders.
- Air Rod Feeder retains and feeds the nuts by air (known as the "wall of air"), versus other applied technologies as follows:
  - Magnet feeding systems: relies on magnet to retain and feed nuts, which can weaken over time. Also, there are limitations in feed length and degree of angle with this type of technology.
  - Gravity feeding systems: relies on gravity to retain and feed nuts, which has proven unreliable for long feed lengths and at any angles.
- The nuts can be fed at a 0° angle because the nuts are retained by air, however we suggest 10° to ~60°.
- The supply stroke can extend to 400mm because the nuts are retained by air.
- The right side and the wrong side of the nut are distinguished by the Selector.
- Our Nut Selector unit is quiet, unlike competitor's units which function off a vibration system to deliver nuts. Also, even as nuts decrease in the bowl, our selecting capabilities will remain stable to the very last nut, whereas vibrating units typically require vibrator adjustments. Seki's bowl feed alignment process is carried out by rotary magnetic action, for consistent and quiet delivery of nuts.
- The Nut Selector unit is compact in size, 1030mm high; 245mm deep; and 470mm wide.
- Comes with Mitsubishi or Omron PLC. Comes standard with 10 input/output ports enabling integration of weld Control monitoring and modification for your entire weld cell. Optionally sold without PLC if you'd like, but we'll supply feeder program logic.

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## Specifications:

Nut Selector	Outer Dimensions	D-245mm,W-470mm,and H-1030mm Mini selector D-160mm,W-355mm, and H-465mm	
	PLC	Mitsubishi or Omron (Standard PLC comes with 10 input/output ports for Control monitoring and modification integration). 14 I/O for some special nuts or large nuts. Can increase to 20 I/O if customer desires.	
	Power Supply	100VAC,50/60Hz	
	Motor	25w_gearred motor	
	Gear Head	1/18	
	Magnet	ND-FE-B magnets _13	
	Stainless Steel Plate	SUS304 Hard chrome-plated on one side	
	Hopper Capacity	Varies with Nut Size. Approx 2,500 M6 square nuts (W=10.8__H=5.8mm_	
	Control	Sequencer	
	Working Air Pressure	_kg/___	
	Air Consumption	Average in the case of air feeding: 2.6NL/piece	
		In the case of natural fall: 0.0NL	
	Valve	Return type, lead wire type effective cross-sectional area: 10__	
	Air Control Unit	1/4 one-touch manual discharge, lubricating oil K2213-2	
	Snap Switch	Toggle _WD1011_WD1211_	
	Relay	2a2b_LY2N)	
Push Button	Single Pole __AB542177_		
Cylinder	_20 stroke_200mm		
Cylinder Switch	MAX_120VAC, 50VDC		
Air Rod Feeder (supply unit)	Joint	1/8_one-touch	
	Feed Speed	Varies with nut size. M6 nut = 120/minute. M12 nut = 50/minute	
	Air Tube	Outer diameter_6, Inner diameter_4	
	Air Consumption	1.1NL/_ stroke	
	Air Pressure	0.4Mpa (or 0.5Mpa)	
	Voltage	AC115V 50/60HZ	
	Current Value	0.3A	

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