



# AII Series POSITIONER AII-1PC

High Speed and High Accuracy

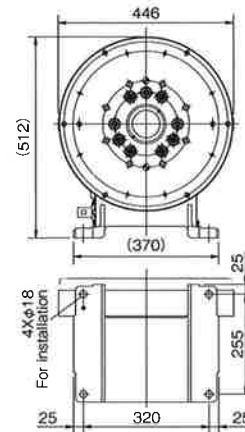
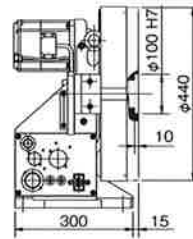
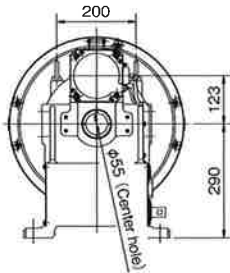
Model  
**AII-1PC500**

Positioner Headstock

# AI-1PC series High-speed motion increases production efficiency!

- **Faster** Increasing productivity due to faster speed, 120 degrees per second (1PC500).
- **Accurate** Adopting Non-Backrush mechanism for high accuracy.  
(Position Repeatability  $\pm 0.1\text{mm}$  (At 300mm from Rotation Center)).
- **Durable** Simple drive system can reduce the risk of failure.
- **Easy Installation** Designed for Compact, lightweight and easy installation.  
Standard built-in secondary welding terminal (500A) for easy connection.  
Cables and hoses can be routed at center of rotation table due to through-hole design.  
Thus, the welding jig can be simply connected.

## AI-1PC500



Model name	PC501
Max. Payload Capacity	500kg
Rotating Speed	2.1rad/s(120°/s)
Allowable Rotating Torque	490N·m
Position Repeatability	$\pm 0.1\text{mm}$ (at R300mm)
Stop Position	Random
Mass(Weight)	110kg

### Optional

Items	Specification	Items	Specification
Connector Cover	Protecting cable connectors from dusty environment.	Rotary Joint	Signal Line:6 channel(Max.2A) Air Line:2
Curly Code	12 Wires(0.5mm <sup>2</sup> x12)		Continuous working pressure 0.49MPa Maximum working pressure 0.98MPa(one hour or less)
Point Marking	Required when Cross-mastering		

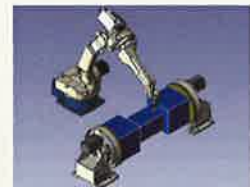
### Useful Optional Softwares

● **Synchromotion** Synchronizing Robot and positioner motion to keep the best welding angle and constant speed for minimizing improper welding such as less-penetration and increasing productivity!

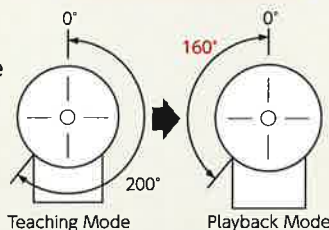
● **Multi-Synchromotion**  
Synchromotion can be possible with multi-Positioners. This function reduces the dead time of loading and unloading the workpiece.



● **Multi-Drive Control**  
Minimizing the unnecessary twisting force applied on parts by full synchronization between two positioners.



● **Endless Rotation Function**  
Endless-Rotation Function can optimize(minimize) the movement amount on positioner. This can save the unnecessary motion positioner and deducing cycle time.



● **Pitch Copy and Shift Function**  
This function is effective only when many workpieces of the same shape are placed at the same intervals.



In accordance with DAIHEN's policy to make continuing improvements, design and/or specifications are subject to change without notice.

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