

Positioners

Standard positioners provide 2 motorized axes of motion (rotation and tilting) for part positioning. They can be updated to adjustable centerline height with either manual or motorized elevation.

● Standard Series

1. Precision series: **APP**
 - a) Load capacity: 250kg, 500kg, 1000kg, 2500kg, 5ton, 10ton.
 - b) Order code: APP250, APP P500, APP1000, APP2500, APP5T, APP10T.
2. High precision series: **APH**
 - a) Load capacity 250kg, 500kg, 1000kg, 2500kg.
 - b) Order code: APH250, APH500, APH1000, APH2500.

● Features

1. Precision Positioners

Rotation

- 1) Precision slew ring bearing with spur gear is designed for precision rotation of the faceplate.
- 2) Precision solid-shaft RV gearbox (Nabtesco style) which can achieve maximum **5** arc-min backlash.
- 3) Rigid faceplate design with slots for mounting parts or tools
- 4) AC servo motor not included. Optional AC servo motor and control are available.

Tilting

- 1) Maximum tilting angle: 135°
- 2) Motorized titling motion driven by fixed speed AC motor.
- 3) Worm gear box are designed for safe self-locking

Base

- 1) The base features forklift pockets for easy handling.

Electrical

- 1) Rotary weld grounding unit is included for 500amp welding.
- 2) Hand pendant is included to control the tilting motion. Hand pendant to control the rotation AC servo motor are available for optional feature.
- 3) Single power input point: 460V, 3 phase, 60Hz
- 4) All the electrical components are UL approved or listed. Other electrical certification is available for optional feature.

Optional Features

- 1) Manual height adjustment. “-AH”
The standard lifting stroke is 400mm for APP-250 and APP-500, 500mm for APP-1000 to APP-10T.
- 2) Motorized height adjustment. “-MH”
The standard lifting stroke is 400mm for APP-250 and APP-500, 500mm for APP-1000 to APP-10T.
- 3) Custom faceplate size. To increase the diameter of the faceplate, we do not increase the height of the positioner if not specified. The capacity of positioners is decreased if the faceplate is made bigger.
- 4) Custom rotation and tilting speed range.
- 5) Part Clamping Tooling.
- 6) AC servo motor and control.
- 7) Other electrical certifications.

Model Number	Load Cap (kg)	Rated Load Cap		Rotation	tilting	Face plate Dia (mm)
		Offset of CG from face plate (mm)	Eccentricity of CG from rotation axis (mm)	Max Speed	Speed@60Hz (RPM)	
APP250	250	150	150	4	0.6	600
APP500	500	150	150	3	0.6	700
APP1000	1000	300	300	1.5	0.6	1000
APP2500	2500	300	300	1	0.35	1100
APP5T	5000	300	300	0.8	0.3	1500
APP10T	10000	300	300	0.6	0.25	1700

2. High Precision Positioners

Rotation

- 1) Use precision thru-hole RV gearbox (Nabtesco style) which can achieve maximum 3 arc-min backlash. The faceplate is mounted directly to the gearbox.
- 2) Rigid faceplate design with slots for mounting parts or tools
- 3) AC servo motor are not included. Optional AC servo motor and control are available.

Tilting

- 1) Maximum tilting angle: 135°
- 2) Motorized tilting motion driven by fixed speed AC motor.
- 3) Worm gear box are designed for safe self-locking

Electrical

- 1) Rotary weld grounding unit is included for 500amp welding.
- 2) Hand pendant is included to control the tilting motion. Hand pendant to control the rotation AC servo motor are available for optional feature.
- 3) Single power input point: 460V, 3 phases, 60Hz
- 4) All the electrical components are UL approved or listed. Other electrical certifications are available for optional feature.

Optional Feature

- 1) Manual height adjustment.
- 2) Motorized height adjustment.
- 3) Custom faceplate size.
- 4) Custom rotation and tilting speed range.
- 5) Part Clamping Tooling.
- 6) AC servo motor and control.
- 7) Other electrical certifications.

Model Number	Load Cap (kg)	Rated Load Cap		Rotation	tilting	Face plate Dia (mm)
		Offset of CG from face plate (mm)	Eccentricity of CG from rotation axis (mm)	Max Speed	Speed@60Hz (RPM)	
APH-250	250	150	150	6	0.6	600
APH-500	500	150	250	6	0.6	700
APH-1000	1000	400	250	6	0.6	1000
APH-2500	2500	300	150	4	0.35	1100