



Precision Tilting Positioners

AMET® Precision Tilting Rotary Positioners are offered in two series, Precision and High Precision, with load capacities from 250 to 10,000 kg (550 to 22,000 lbs.). They feature 135 degrees of motorized tilting and continuous motorized rotation of the faceplate. The rotation axis can be integrated with the XM® or XPro control systems to provide programmable control for welding operations. The High Precision series is offered for applications that require robotic grade position and velocity accuracy.

The standard configurations include a fixed base that can be upgraded to provide adjustable centerline height using an elevating base with manual or motorized adjustment. Each positioner includes a thru-hole for gas backing or tooling requirements. Many additional options are available to customize a positioner according to specific project requirements.

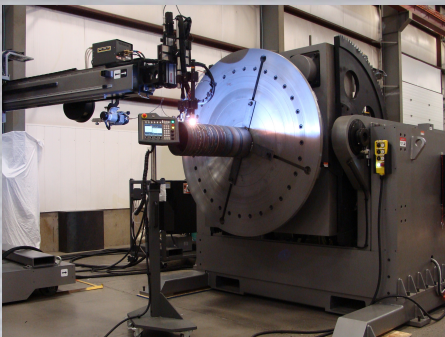
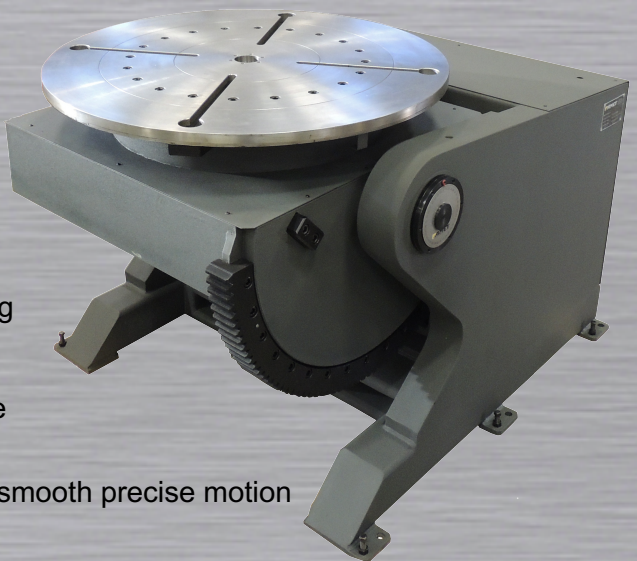
The AMET® XM® and XPro Control Systems allow integration and control of one or multiple positioners and additional support equipment providing a seamless and complete welding system.

Series

- PA Precision Series (APP)**
 - Backlash: Less than 5 Arc Minutes
 - Load Capacities: 250kg, 500kg, 1000kg, 2500kg, 5000kg, 10000kg
- PA High Precision Series (APH)**
 - Backlash: Less than 3 Arc Minutes
 - Load Capacities: 250kg, 500kg, 1000kg, 2500kg

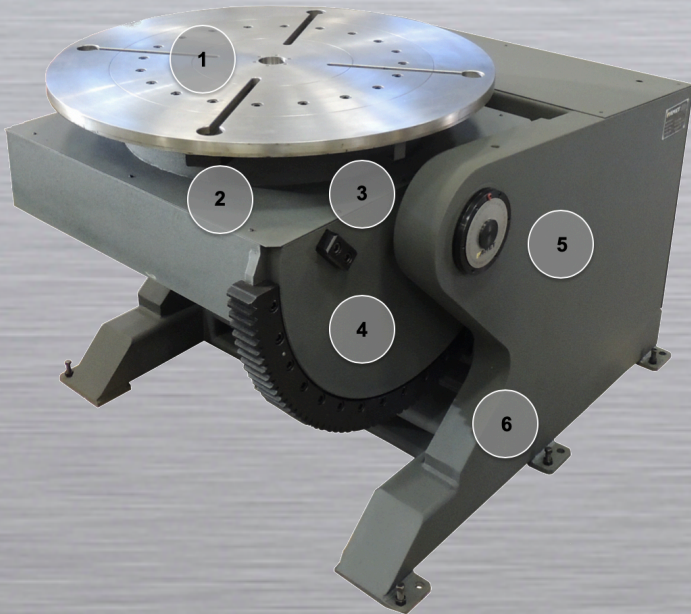
Key Features

- PA** AC Servo Motor Encoder Based Rotation for precise speed and position control.
- PA** Precision Harmonic style rotation gearbox provides smooth precise motion for critical applications.
- PA** Precision controls, +/- 1% of set speed, helps ensure repeatable rotation for dependable performance.
- PA** 135° of motorized tilt with limit switch protection and tilt angle indicator.
- PA** Stress relieved and machined steel faceplate with 4 tooling slots at 90 degree intervals.
- PA** Heavy-Duty Base features forklift pockets for easy handling and placement.
- PA** Durable powder coated finish offers greater protection from scratches, chipping, abrasions, corrosion, fading, and general wear making it better suited for industrial environments.





Standard Features



2. Faceplate rotation is driven by an AC Servo Motor with a Precision Harmonic style rotation gearbox providing smooth precise motion. Rotation speed ranges from 0.1 - 6 RPM depending on series and load capacity.

3. A 500 amp 100% duty cycle continuously rotating weld ground provides grounding for the work piece.

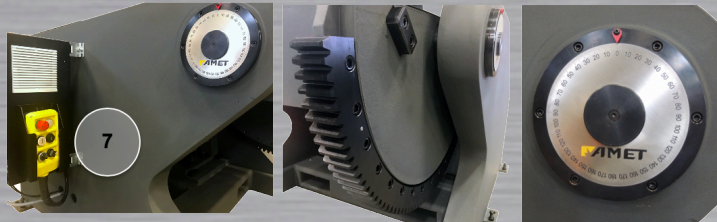
4. Motorized faceplate tilting motion driven by fixed speed AC motor with self-locking worm gear box. The tilt motion is manually jogged from an operator hand pendant.

5. A tilt indicator shows the current angle of tilt of the faceplate. The faceplate can tilt a total of 135 degrees, from the horizontal position (0°) thru 90 degrees (vertical position) to a maximum tilt angle of 135 degrees.

6. A Powder Coated Heavy-Duty Fixed Base with forklift pockets supports the tilting assembly. The base features anchoring pads that include levelling screws and mounting holes that can be used for anchoring the positioner to the factory floor for additional stability. The standard base can be upgraded to provide either manual or motorized centerline height adjustment.

7. A handheld operator pendant provides manual jog motion of the faceplate rotation for set-up operations and manual jog motion control of the faceplate tilting motion. The optional motorized centerline height adjustment is also manually jogged from the operator pendant.

1. A Stress relieved and machined faceplate includes (4) T-slots at 90 degree intervals to facilitate mounting of optional tooling or weld parts. A 25mm thru hole is provided for gas backing or tooling requirements. The Faceplate diameters vary by load capacity.



Optional Features

- PA** Precision Programmable Tilt Motion
- PA** Manual Centerline Height Adjustment
- PA** Motorized Centerline Height Adjustment
- PA** Custom Faceplate Diameter
- PA** Custom Tooling Mounting Configurations
- PA** Custom Faceplate Thru Hole Size
- PA** Custom Rotation Speed Range
- PA** Custom Tilting Speed Range

- PA** Standalone Motion Control
- PA** Foot Pedal for Rotation Jog Control
- PA** Casters for Easy Positioning
- PA** Base assembly with Rollers and Rails
- PA** Fluid Union for Gas Purge Devices
- PA** Idler Pipe Stands
- PA** Part Clamping Tooling
- PA** CSA or CE Certifications

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