

Aeros P



The AEROS P Series encompasses a range of large gantry coordinate measuring machines (CMMs), engineered specifically for high-stakes industrial metrology applications. This series is ideally suited for sectors such as aerospace, strategic defense, and energy, where precision in the measurement of large components is paramount.

A distinct build strategy for the structural design, coupled with “Dual Drive” motion and “Dual Read” positioning systems on the X-axis beams, significantly minimizes structural deformations during operation. This advanced engineering ensures the AEROS P series maintains exceptional metrological performance, even under the stress of measuring large, geometrically complex components. Its capabilities make it highly valued for inspecting large, accurately dimensioned parts like marine engines, transmissions, substantial transportation vehicles, and tools with free-form or sculptured surfaces.

Technical Highlights

Optimal mechanical rigidity is achieved through generous spacing between the air bearings.

The rack & pinion drive system on the X and Y axes ensures precise and efficient movement, crucial for the accuracy of large-scale measurements.

X-axis beams feature a wide cross-section made of stabilized steel, equipped with a support system allowing for linear expansion without inducing stress or deformation.

A high-resolution measurement system (0.1µm linear transducers) captures precise data across the measurement range.

The “Dual Read” and “Dual Drive” systems on the longitudinal X-axis provide enhanced precision and stability in movement.

An integrated multi-sensor system compensates automatically for errors due to thermal expansion, ensuring consistent measurement accuracy.

Specification

The AEROS P CMM Series is offered in 11 standard models, designed to accommodate a variety of measurement demands with YZ-axes sections: 25.20 / 30.20 / 30.25 / 35.25. These models boast an accuracy starting from 7.0+8.0L/1000, with a 3D speed of up to 530 mm/sec and acceleration reaching 800 mm/sec².