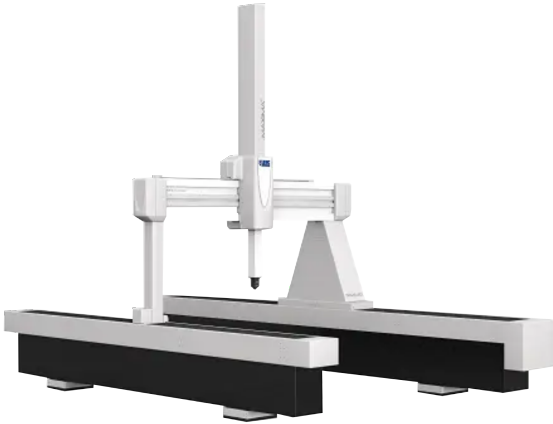


# ULTRA



The LK Metrology Ultra CMM Series is designed to tackle the challenges of very-large-scale measurement applications, setting a benchmark in the industry for 3D dimensional inspection. With an innovative elevated guideways design, the Ultra Series stands out for its flexibility and high-performance capabilities, particularly in environments requiring large-scale metrology solutions.

## Design variants

The series includes three machine design variants: the monolithic design with an integrated work-table, the classic gantry design, and the guideways on U-foundation design suitable for above ground, ground level, or sub-ground foundation pit installations.

Each variant is based on a common modular design concept, ensuring ease of maintenance, high performance, and reliability.

## Specifications

Available in standard, incremental sizes of 500mm, featuring an X-axis up to 16 meters, Y-axis from 4.5 to 6 meters, and Z-axis up to 3 meters, with larger strokes available upon request.

Volumetric Accuracy from  $4+L/250$ .

Repeatability from  $4\mu\text{m}$ .

Max 3D Speed from 462 mm/sec.

Max 3D Acceleration from 582 mm/sec<sup>2</sup>.

## Innovative construction

Utilizes bonded ceramic materials for the beam and spindle, ensuring an optimal stiffness-to-weight ratio and high resistance to wear, time, and temperature variations.

Delivers consistent, high-quality performance across all manufacturing settings, regardless of the application scale.

## Advanced measurement and technology

Supports high-accuracy measurements with a range of probing solutions, including touch-trigger, contact scanning, and non-contact laser scanning.

Incorporates advanced multi-sensor ready technology, featuring RENISHAW REVO AND MODUS accessories in the SCANTEK version, enhancing throughput and expanding the scope of applications.

## High-Efficiency features

Features LK Metrology's proprietary design, including low gap, high-efficiency air bearings, and zero hysteresis drive systems, guaranteeing premium quality, high accuracy, and superior throughput.

Offers unmatched flexibility and reliability for manufacturers, addressing current and future measurement needs.

## Software and applications

Empowered by innovative software workflows and intuitive features, simplifying complex inspection tasks and boosting productivity.

Proven pedigree in sectors requiring precision on a large scale, such as aerospace, land transportation, power generation, and maritime.