

Handheld Probe Coordinate Measuring Machine XM Series

Portable, Shop Floor CMM

Application Examples



Conventional Measuring Instruments

Coordinate measuring machines

- Difficult to program.
- Requires timely maintenance and calibration.
- Part inspection takes a long time.

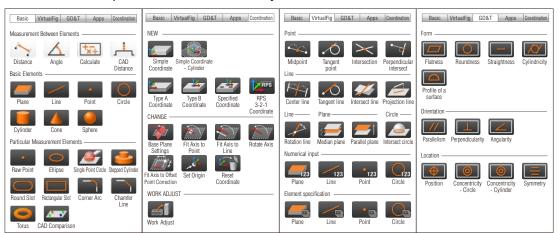


Handheld tools

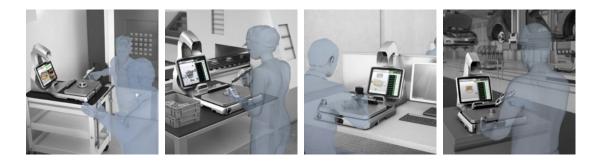
- · Difficult to measure complex dimensions
- GD&T measurements are not possible.
- Manual data recording.

Handheld Probe Coordinate Measuring Machine

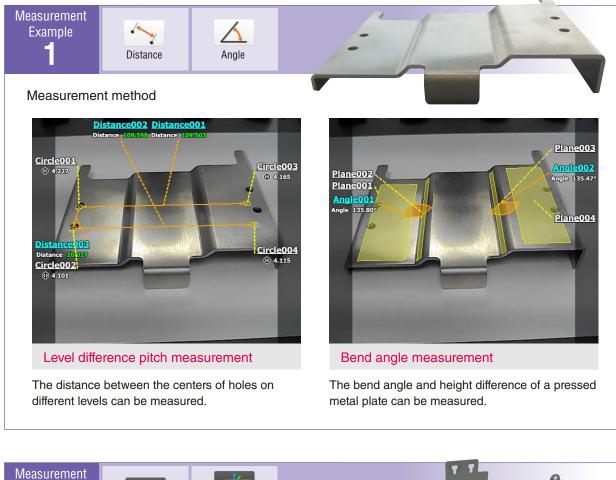
Dimensional measurements, GD&T, and 3D CAD comparisons all with one system.

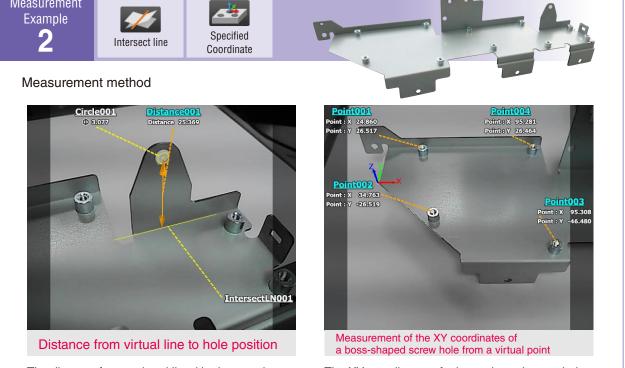


Measurement can be done by anyone, anywhere.



Stamping

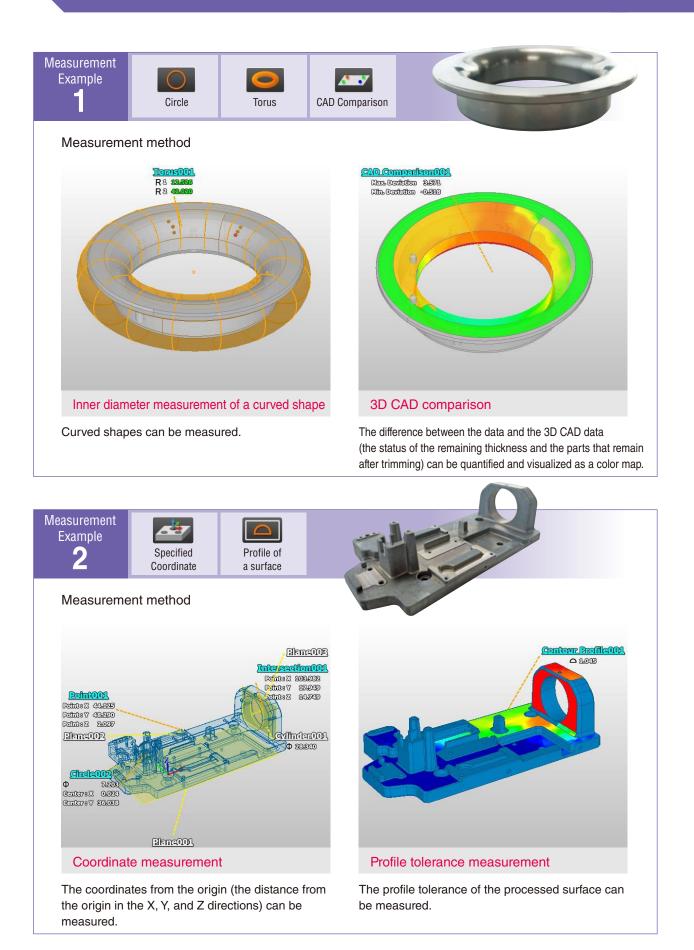




The distance from a virtual line (the intersecting line between two planes) to a hole position can be measured.

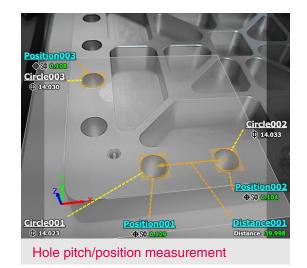
The XY coordinates of a boss-shaped screw hole on the metal plate can be measured.

Machining

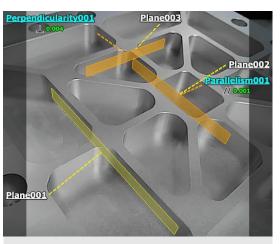




Measurement method

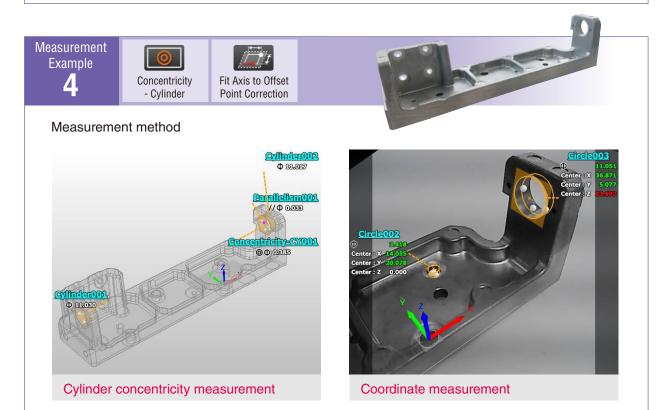


The hole pitch and position can be measured, and measurements can be performed with the XY coordinates of the hole position.



Flatness/parallelism/perpendicularity measurement

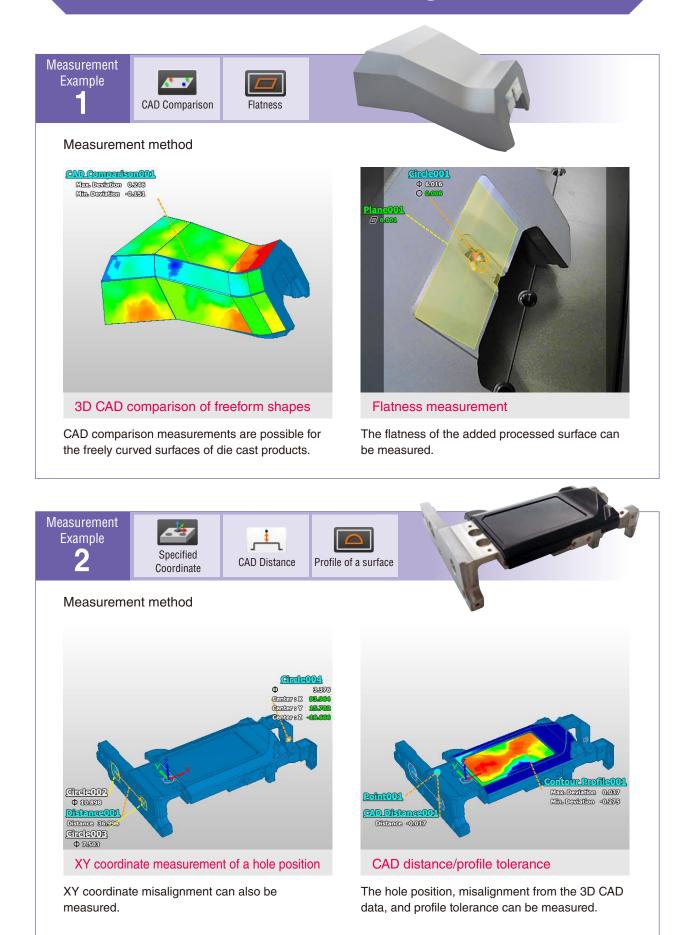
The flatness, parallelism, and perpendicularity of the processed surface can also be measured.



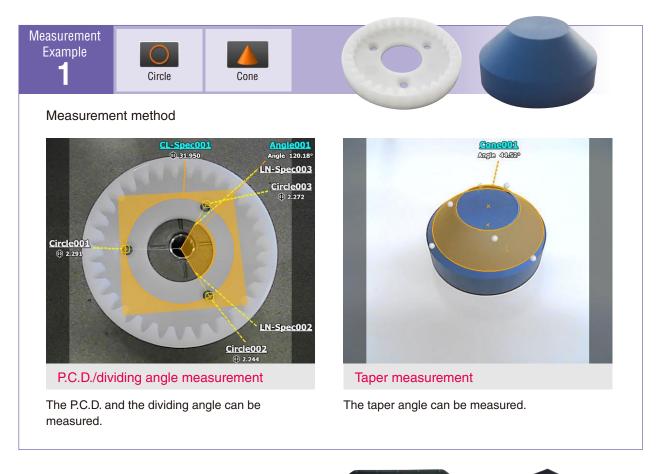
The misalignment of the center of a circle at a remote position (the cylinder concentricity) can be measured.

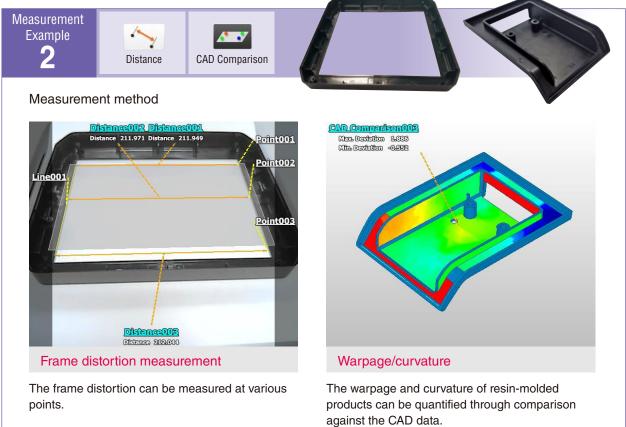
Hole positions can be measured with XYZ coordinates during the processing of multiple surfaces.

Die Casting



Injection Molding







Shop Floor Coordinate Measuring Machine







SAFETY INFORMATION

Please read the instruction manual carefully in order to safely operate any KEYENCE product.

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