

The Telecentric Lens for Measuring Hole Diameters



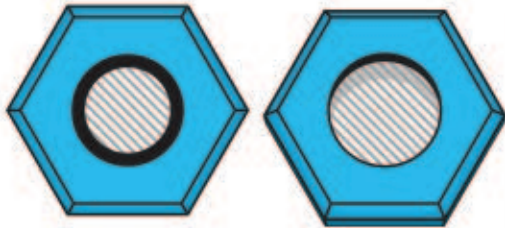
TIME
SAVER



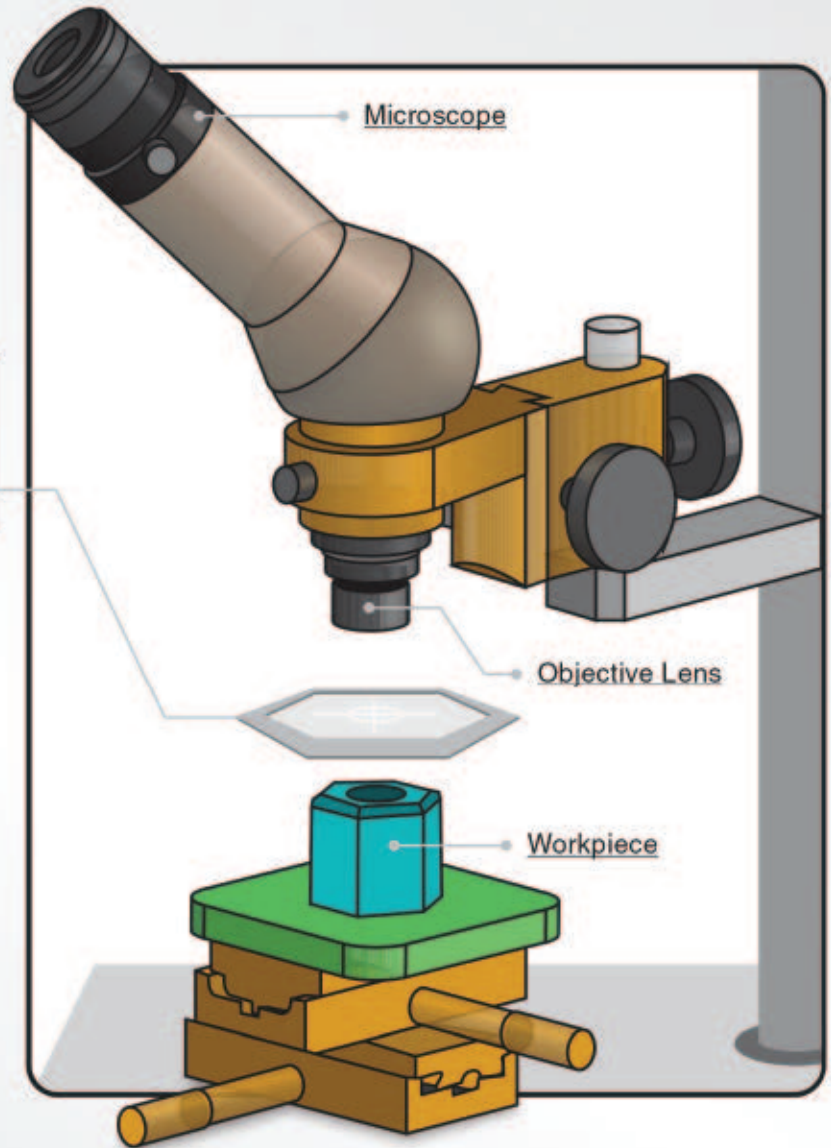
PROCESS
IMPROVEMENT



Measuring the diameter of holes on the workpiece using a microscope with objective lens produces varied results.



If the center of the workpiece deviates from below the lens even slightly, the image is distorted and accurate measurement is not possible.



Workers' eyes get fatigued after looking through a microscope for a long time.



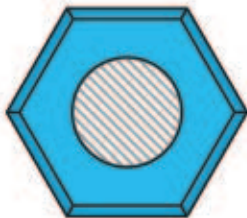
If the correct measurement cannot be obtained, the operation will have to be repeated.



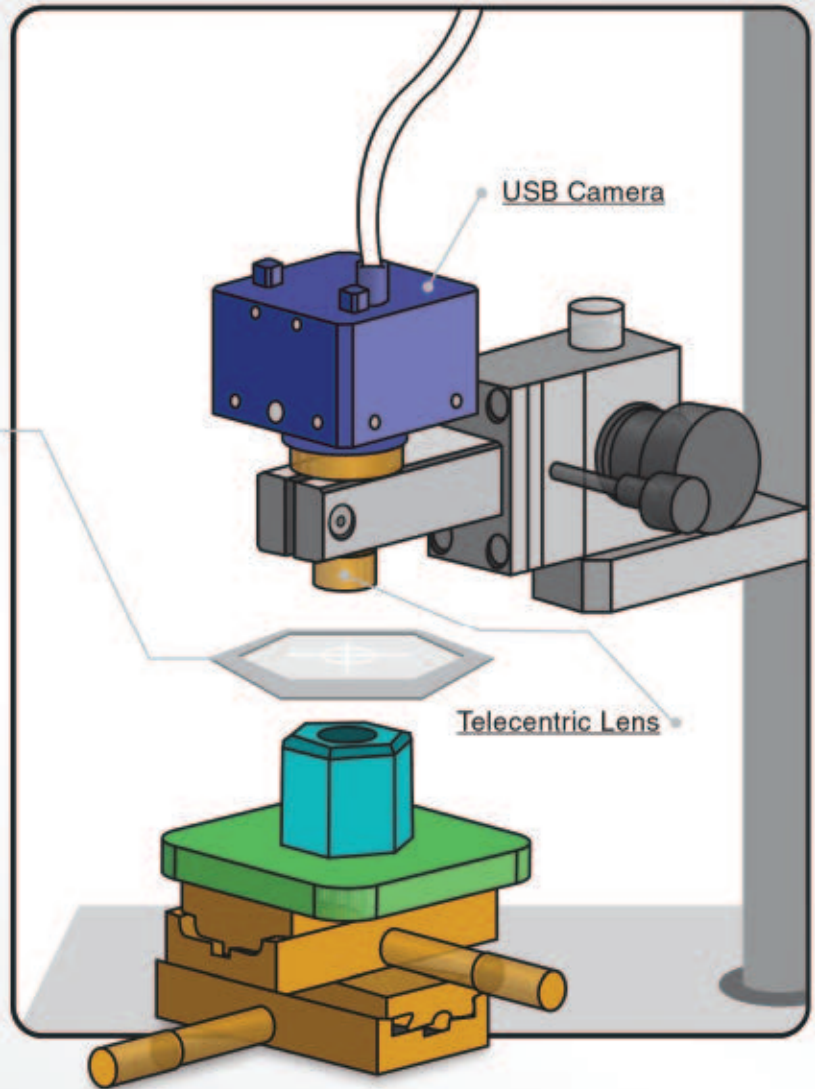
The Objective Lens shows the wall surface of the hole, interfering with the measurement.



Adopting the Telecentric Lens improves workability and accuracy of measurement.



With the Telecentric Lens, image distortion is eliminated regardless of the workpiece's position - the hole's wall surface cannot be seen as well.



Even if the distance between the subject and lens changes distortion doesn't occur.



Easier to position and mount.



More accurate measurements with the lens distance distortion problem resolved.

Characteristics of the Telecentric Lens (MRC2-40)



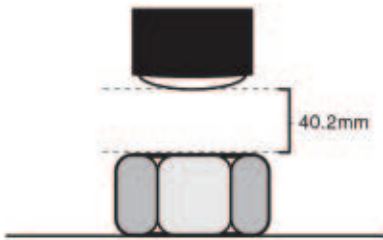
2X OPTICAL
MAGNIFICATION



14.2 EFFECTIVE
FOCAL VALUE



-0.001%
TV DISTORTION



40.2MM
WORKING DISTANCE



C MOUNT



27 GRAMS

The Telecentric Lens

Telecentric lenses, special lenses where the main rays are parallel to the lens optical axis, produces clearly focused visuals because it's focus is not affected by the distance of the workpiece from the lens making this ideal for operations requiring optimum precision.

