

Form error measurement of spherical object

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The diameter measurement of sphere is very important in dimensional metrology. However, most of diameter measurement carried out by using 2 points method measuring distance from opposite site of the sphere. For work which require high accuracy or the mating part where the contact area cover the large area of the object, form error of the part is need to be determined. One of the mostly use method is roundness measurement where variation of radius in one plane was investigated.

Here, we present the measurement technique for form error or sphericity measurement. With this new capability, not only the quality of spherical product can be improved but the accuracy of the spherical part can also be well evaluated.

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