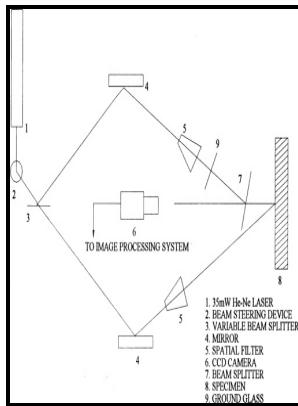


Analysis of ultrasonic machining systems using wholefield interferometric techniques

-- Ultrasonic Machining: Parts, Working, Advantage, Application [PDF]



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-analysis of ultrasonic machining systems using wholefield interferometric techniques

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When a fatal defect is diagnosed, the machinery is often forced to shut down at inconvenient times with tremendous loss of time, productivity and capital. Further examination of M7 p and M8 p in Figures 9. The results show that illumination, numeric aperture, phase-shifting mask and polarized light can contribute to the process capability.

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To predict overall visual quality, we apply linear regression and machine learning techniques such as Multilayer Perceptron, RBF and SVM networks. Glass is a good candidate material for optical devices because of its enhanced optical properties, the technique of die machining has not been established for the hot embossing of glass.

Dynamic Analysis of the Ultrasonic Machining Process

Measurement of the surface in-plane and out-of-plane response of the block horn allows all modes to be identified successfully and enables correlation with FE models.

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However, the traceability of the measurement process on a machine tool is not ensured yet and measurement data is still not fully reliable enough for process control or product validation. This means that the stabilization of cutting is very important, especially when machining NC machine tools.

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