



Ultra-precision Ion Beam figuring machine and its Application

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Very precisely figured plane, spherical and aspherical surfaces with accuracies in depth down to the sub-nanometer level over the entire spatial wavelength range are very important for advanced optics. Large progress for the final optical surface figuring and polishing using sub-aperture processes has been made by different techniques developed during the last years. They are all characterized by a high degree of determinism and CNC process control. Besides different other material removal principles ion beam figuring (IBF) is a favorable technology used in high performance optics fabrication. The talk mainly introduces the principle of ion beam ultra-precision figuring, the key technologies of ion beam processing system, and the application of IBF.

SHORT BIO:

Chun-yān Shi is currently General Manager of Suzhou perfect optics L. td. His PhD graduated from the Chinese Academy of Sciences. From 2010 to 2015, He worked in The Institute of Optics and Electronics, the Chinese Academy of Sciences (IOE), and mainly engaged in ultra-precision optical processing and testing technology research. In 2015, he left IOE to start a business, and was successively awarded some honor s such as "Zhangjiagang entrepreneurship talents", "Gusu entrepreneurship talents" and "Jiangsu double entrepreneurship talents".