

1.5.32. DEVELOPMENT OF LASER NON-CONTACT MEASUREMENT FOR TURBINE BLADE PROFILE

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Blade is a key part that widely used in aero industry. Measurement of blade profile is very important for the quality acceptance of the blade. Development of laser non-contact measurement for turbine blade profile is presented. The laser profile measurement system is based on coordinate measuring machine. It adds r axis and CCD laser displacement sensor. Measured result was compared with CMM, the accuracy is good enough to profile measurement. It can be used to measure turbine blade profile rapidly and accurately.