

# Cutting Edge Measurement of Hobs

SPECIAL SOLUTION WITH IF-EdgeMaster

## System

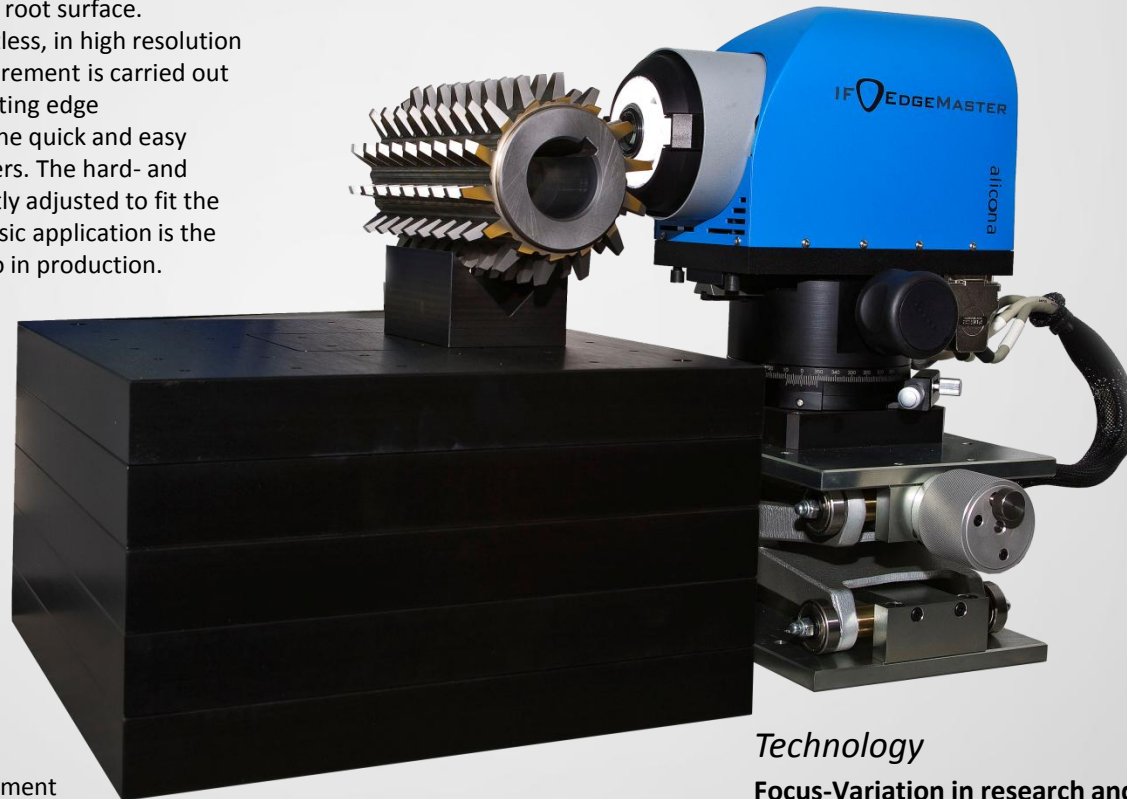
### Automatic cutting edge measurement of hobs

Users measure even very small radii and angles of the main and side cutter as well as on the tooth root surface. Measurements are performed contactless, in high resolution and high repeatability. The hob measurement is carried out with the IF-EdgeMaster, an optical cutting edge measurement system which enables the quick and easy measurement of all relevant parameters. The hard- and software of the IF-EdgeMaster is slightly adjusted to fit the application hob measurement. Its' classic application is the measurement of indexable inserts also in production.

## Function

### Measurement of radius, chipping plus roughness

Users measure radii, wedge angle, basket arch form ("waterfall" and "trumpet" type) as well as positive and negative bevels of a cutting edge. In addition both chipping measurement and traceable roughness measurement is provided. High resolution results are achieved even in a production environment under conditions such as ambient light, temperature fluctuations and vibration. Automatic tolerance measurement, wear measurement and the automatic comparison to correspondent CAD data are further applications.



## Benefits

### User friendly operation and high resolution results

The measurement of the cutting edge geometry is performed automatically without manual user influence. A laser point enables the quick and easy positioning of the component. A working distance of 33mm allows to comfortably access also difficult positions. The system is applicable for all stages of production, regardless of surface finish or coating. The software automatically adapts to the software, which allows the measurement of surfaces with varying reflection properties. Results are visualized with real life orientation.

## Technology

### Focus-Variation in research and production

Focus-Variation uses the small depth of focus of an optic. The EN ISO standardized technology delivers traceable measurements with a high level of repeatability. Focus-Variation is used for high resolution area based quality assurance in research and production.

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