

THE KERN μ -VIEW

START PRODUCTION WITH THE PERFECT TOOL



TEST TOOLS IN ADVANCE

They all look good at first glance – but not all new micro tools deliver what they promise. Every tool failure costs time and money and delays your delivery deadlines. Searching for the cause is more often than not a case of trial and error. We have a straightforward and highly effective alternative for you: with the KERN tool inspector, you can recognize faulty tools before they even reach the production stage.

REDUCE COSTS BY UP TO 50 PER CENT

An optical camera system supplies images of your tools magnified up to 450x, allowing easy detection of any defects. With this advance check, you not only save tool costs but also machine operating times. We have tested this ourselves in our in-house contract manufacturing. Here, ten KERN machines run in multi-shift operation; the annual tool costs come to a six-figure sum.

WE HAVE IMPLEMENTED THE MICRO TOOL INSPECTOR

- A quarter of tools are discarded in advance as faulty
- No more unusable parts as a result of faulty tools
- Machine operating time savings of five per cent
- Tools used until their actual wear limit
- Tool cost savings of 30 to 50 per cent
- Estimated ROI in less than a year
- Deadlines easier to plan

THE KERN μ - TOOL INSPECTOR IN DETAIL

BASIC SYSTEM

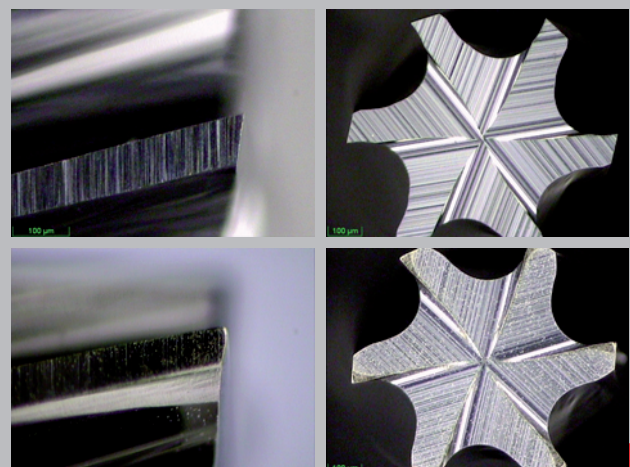
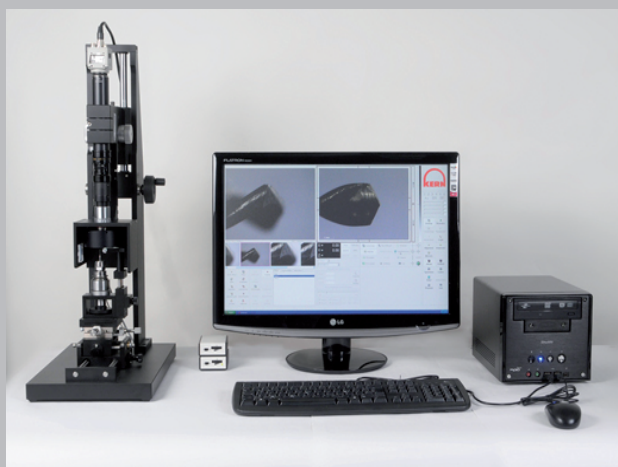
- Optical camera system with high-quality zoom lens and system PC
- Sharp, high-contrast display on 24" monitor
- Rotational view of tools from above and from the side with a simple switch of the prism unit
- Dimmable incident lighting and side lighting
- Quick-clamping module for direct pick-up of tools with 3-6 mm shaft diameter

SOFTWARE PACKAGE AND ADDITIONAL OPTIONS

- Save and manage images
- Compare current images with master images
- Measuring module for calibrated measurements and documentation of geometric characteristics incl. calibration set
- Visual inspection with comparison masks
- Functions for image identification, labeling and comments
- Additional quick-clamping modules for pick-up of tools directly on the shaft or clamped in tool holders, interchangeable according to usage (see table)
- Camera system with enhanced zoom range for 40-450x magnification
- Service contract with software update

OVERVIEW OF ALL QUICK-CLAMPING MODULES

Direct pick-up for tool shafts	Pick-up for HSK25 holder	Pick-up for HSK40 holder
Diameter 3-6 mm up to 6 mm cutting diameter	up to 10 mm cutting diameter	up to 10 mm cutting diameter
Diameter 6-10 mm up to 10 mm cutting diameter	up to 50 mm cutting diameter	up to 50 mm cutting diameter



0.8 mm finishing cutters: new and used, front and side view respectively

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