



ABRASCAN® at a glance

- Mobile abrasion measuring bag with analyzing software
- Quick, cheap and significant measurements of tool abrasion
- For turning, milling, sawing, drilling, ...
- High quality measurements also at very small tools with diameter 100 µm
- High depth of field also at spherical cutter
- Easy handling of the abrasion system
- Cheap wear measurement
- Documentation of the tool life cycle
- Tool optimization

- **Technical data:**
 - Digital camera: 12 megapixel
 - Visible range: 4.4 mm x 3.3 mm
 - Maximum resolution: 1.1 µm / pixel
 - Depth of field: approx. 0.2 mm

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ABRASCAN®

Abrasion measuring bag
with analyzing software



ABRASCAN® – your advantage

With ABRASCAN, the mobile abrasion measuring bag of the PROFACTOR group, you could measure the sign of wear of milling tools. That's possible very quick, significant and cheap. An optical expertise of the abrasion of machining tools was only possible with a microscope in the price range from approximately 30.000. The costs for ABRASCAN are only a tenth. The costs of ABRASCAN are only round to a tenth.

ABRASCAN scores by his high depth of sharpness, easy application and mobility. The mobile abrasion measuring system was developed from researchers at the special field manufacturing technology in cooperation with the aviation industry and cutting tool producer.

ABRASCAN® – the system

The abrasion measuring system ABRASCAN consists of a digital camera, a lens attachment, tripod and the analyzing software. The mobility is an important advantage of this set. All particles take place in a small bag. The cutting tool which should be survey is directly on the machine or rests on a table.

The camera is positioned directly next to it. A magnet tripod and a steel plate make sure that the system is rugged. With the digital camera you make a high resolution photo (12 million pixels) of the cutting tool, a spacer arranged the optimal focusing.

ABRASCAN® – the software

The photo is loading on a computer. With the measuring software ABRASCAN it is possible to get radiuses, distances and angles. It is possible to demonstrate a resolution till 1.1 μm . An obligatory measurement of the abrasion is possible till 5 μm .

For the determination of a data on a commercial computer, ten to maximum 30 seconds are necessary. The user interface of the software is like the usual office programs. The export of data in a spreadsheet is smoothly possible. Hence the creation of abrasion processing charts is very easy.