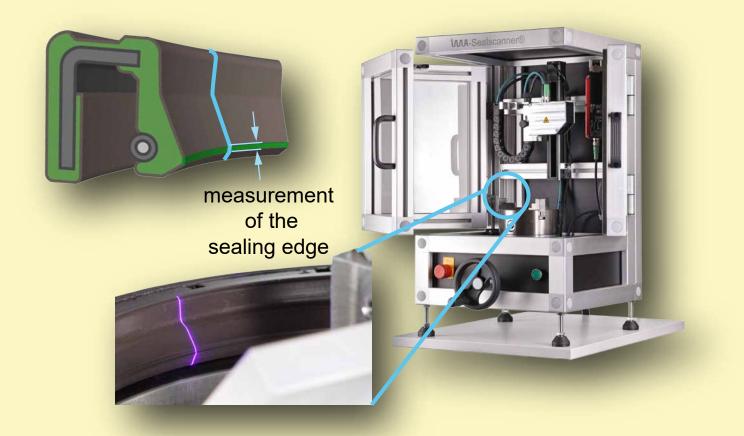
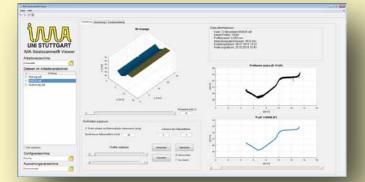
ima -Sealscanner®

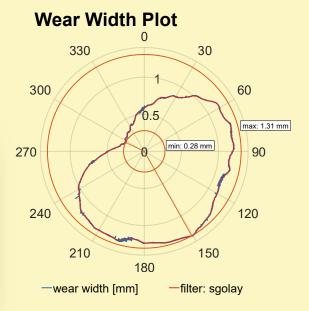
Measurement of the seal geometry and sealring wear within seconds



Automatic Wear Evaluation:

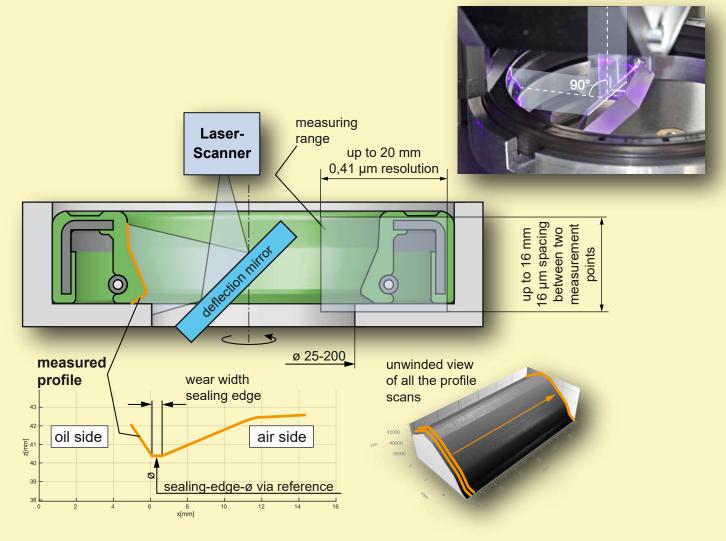
- evaluation with the IMA-program IMA-Sealscanner® Viewer
- complete wear width plot with min. + max. identification





working principle:

- · optical detection of the seal ring contour by means of a laser-scanner
- · a deflecting mirror allows to detect the inner contour precisely
- 10.000 profiles are recorded during a 360° rotation, so the whole circumference is scanned within 10 seconds



Measurement:



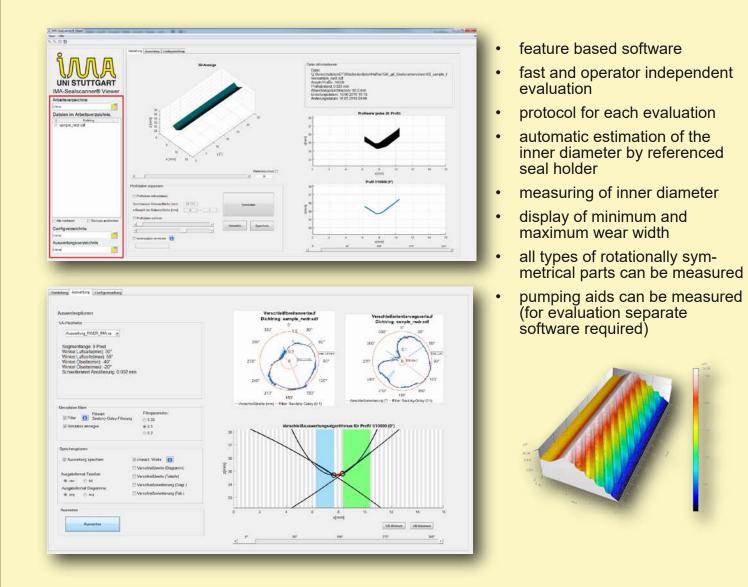
- fast set-up of measurement
- intuitive operation
- automatic functions for batch processing of a large number of seal rings

Evaluation:



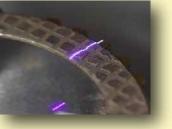
- various possibilities for analysis and visualisation of measured data
- automatic evaluation of wear width and sealing edge diameter
- definition of individual parameter sets for standardized tests procedures

Evaluation-software: IMA-Sealscanner® Viewer

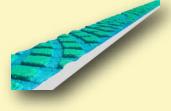


Further possible Applications:



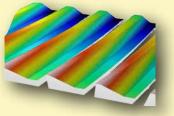


clutch disc





crown wheel



Benefit from the measurement device development driven by the research activities at the fluid sealing group at the Institute of Machine Components of University of Stuttgart

Technical Data IMA-Sealscanner®

measurement duration for a 360°-s	can 10 sec.
measurement range axial	15 mm
resolution axial	16 µm
Measurement range height	20 mm
resolution height	0,41 µm
detectable inner diameter	25-200 mm
number of profiles in circumference	10.000 30.000
measurement frequency	1000 Hz
measured points per profile	1024
data format	*.sdf (DIN EN ISO 25178-71)
data export:	PNG/ SVG/ CSV/ PDF
wave length	405 nm
laser class	3R
switch cabinet (H x W x D)	600 x 600 x 400 mm
weight	150 kg

A Cooperation between:



Contact:

Universität Stuttgart Institut für Maschinenelemente (IMA) Pfaffenwaldring 9 70569 Stuttgart Germany

Tel: +49 711 685-66170 Mail: dicht@ima.uni-stuttgart.de IMA-TechSheet #102051 V1



Sales:

G. Ulmer Automation GmbH Vaihinger Straße 9 74343 Sachsenheim Germany

Tel: +49 7147 22033-0 Mail: info@ulmer-automation.de