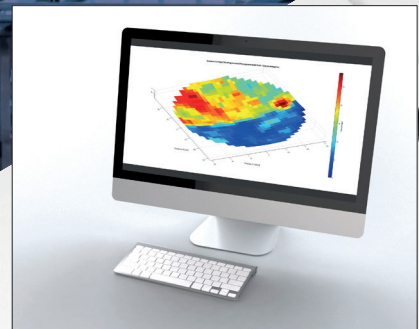




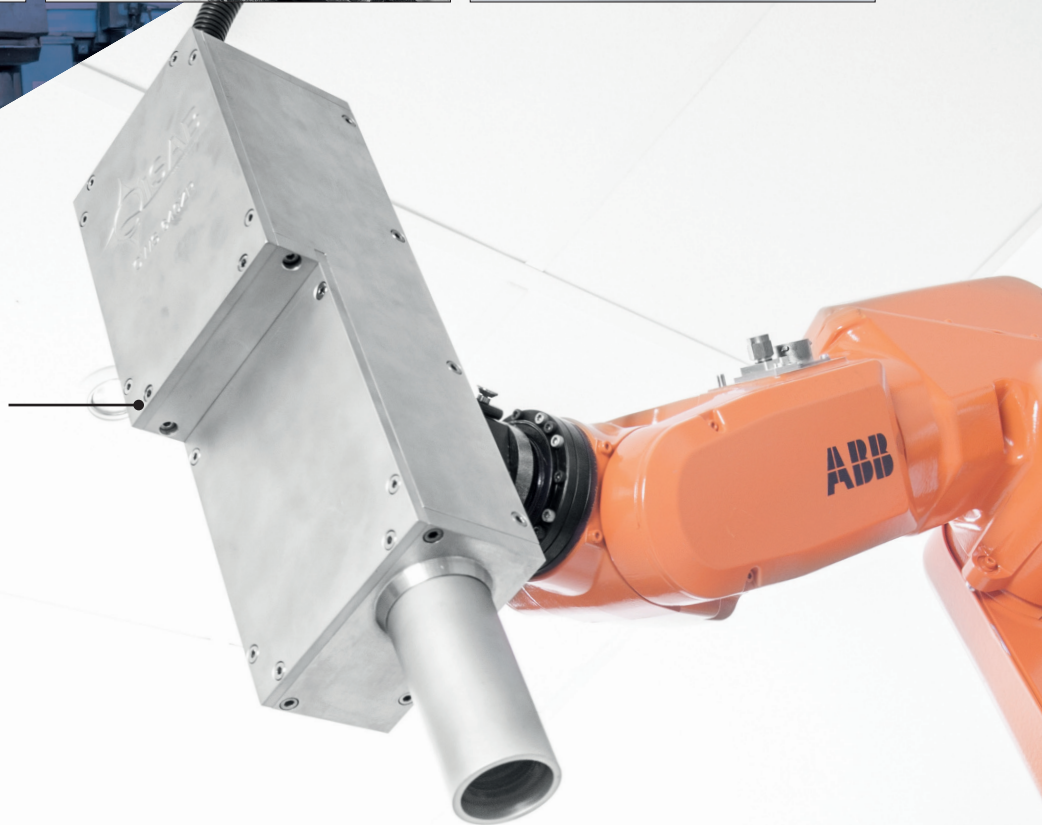
**PROGRESS  
BY PHYSICS**

# FAST INLINE SURFACE METROLOGY



Brand new technology

CWS 640





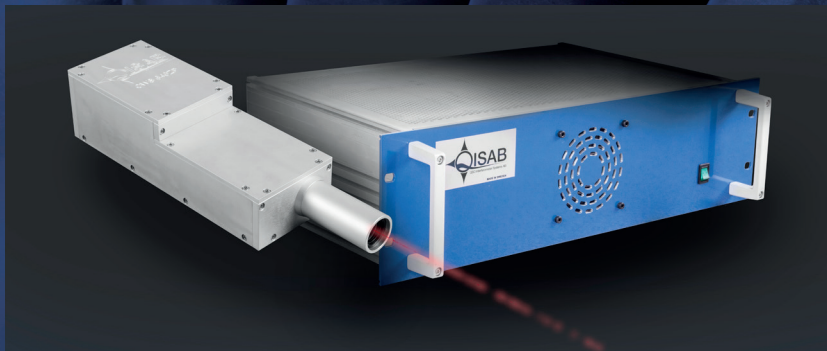
# CWS 640

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A robust laser system for process inline measurement of surface quality parameters in the nanometer range.

CWS 640 consists of

- CWS optical head
- CWS power unit with uninterrupted power supply
- CWS software for analyze and visualization



## MARKET SEGMENTS

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Wherever objective measurement and control of surface quality are required in your business.



**AEROSPACE**



**DIE & MOULD**



**STEEL & ALUMINIUM**



**AUTOMOTIVE**



**MEDICAL**



**OPTICS/GLASS**



# SURFACE QUALITY DETECTION FOR EVERY PROCESS

**SIGNIFICANT  
COST SAVINGS  
WITH CWS 640**

## **GRINDING POLISHING FINE MACHINING**

### **•BRING THE MEASUREMENT INTO PRODUCTION**

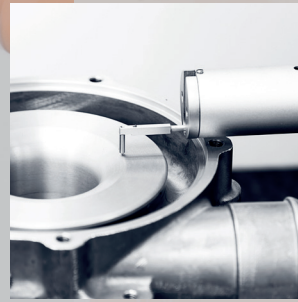
Qisab CWS 640 allows measurement of surface parameters within the industrial process.

### **•BEYOND THE HUMAN EYE**

Replaces manual inspection.

### **•SURFACE QUALITY DETECTION FOR BETTER PROCESS CONTROL**

With CWS 640 You will achieve enhanced tool maintenance and replacement scheduling.



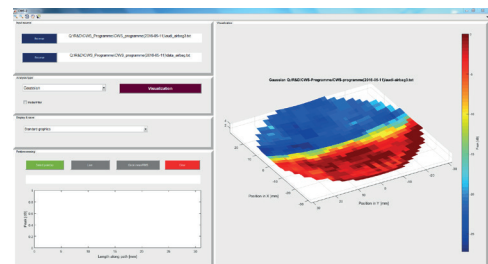
The **QISAB technology** is specifically developed to make qualitative statistical surface measurements in industrial process environment.

- Measurement area  $\geq 4 \times 4$  mm
- Measuring time 1 ms
- Analysis time  $\leq 0,2$  sec
- Required positioning acc.  $< 1$  mm ( $\pm 0,5$  mm)
- Working distance 75 mm

# APPLICATIONS & BENEFITS WITH AUTOMATED INLINE METROLOGY INSPECTION

## CWS APPLICATIONS AND SIGNIFICANCES

- Suitable for automated inline processes
- Robust system, therefore suitable for automated inline metrology inspection
- Fast inline surface measurements of:
  - Roughness
  - Surface errors
  - Assymetry and assymetry angle
  - Structure and structure angle
  - Gloss
- Easy to determine and follow up surface quality
- Non-contact measurement
- Areal surface measurement
- Independent on surface texture orientation
- Replaces manual inspections



## CWS BENEFITS AND ADDED VALUES

- Objective measurements
- Shorter process time
- Possibility for process optimizations
- Automating of previous manual process
- Inline surface process control
- Less scrap by faster inline surface quality inspection
- Enhanced tool maintenance and replacement scheduling

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