



ATOS Q





#### **ATOS Performance**

High-speed fringe projection

Fast data processing

High data throughput

#### **ATOS Technology**

Triple Scan Principle

Blue Light Equalizer

Self-monitoring system

#### **ATOS Design**

Simple operation

Protected optics

For industrial use

### **ATOS Performance**

High-speed fringe projection

Fast data processing

High data throughput

☐ Comprehensive quality information in reduced measuring time

☐ Fast identification of optimal corrective measures

☐ Cost efficiency



## ATOS Technology

Triple Scan Principle

Blue Light Equalizer

Self-monitoring system

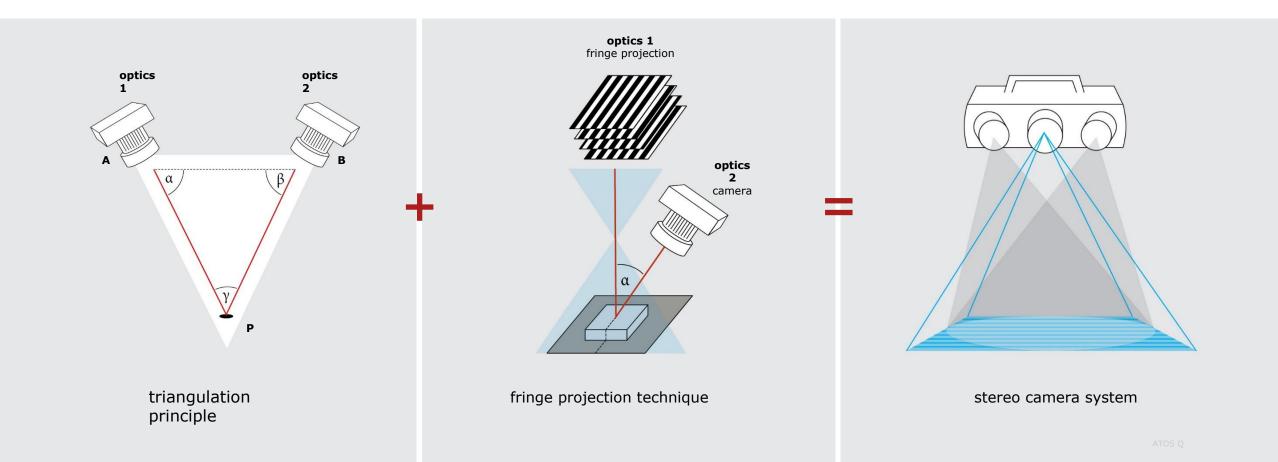
- ☐ Precise, full-field
  3D coordinates (digital twin)
- ☐ Detailed information in 3D for comprehensive quality analysis
- $\square$  Improved product quality



### Stereo Camera System



Using the triangulation principle in conjunction with the fringe projection technique, precise 3D coordinates are captured by the stereo camera system.

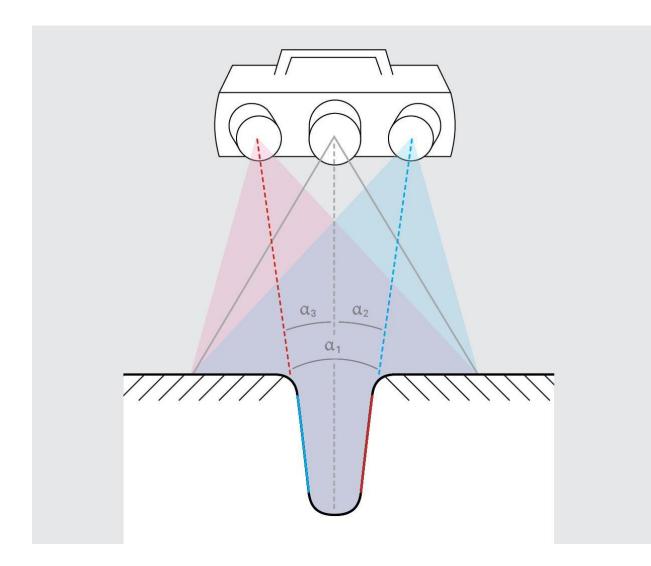


## Triple Scan Principle



3-in-1 sensor concept

- ·Right and left camera, each combined with the projector
- •Three different views of the object in one measurement



## Blue Light Equalizer



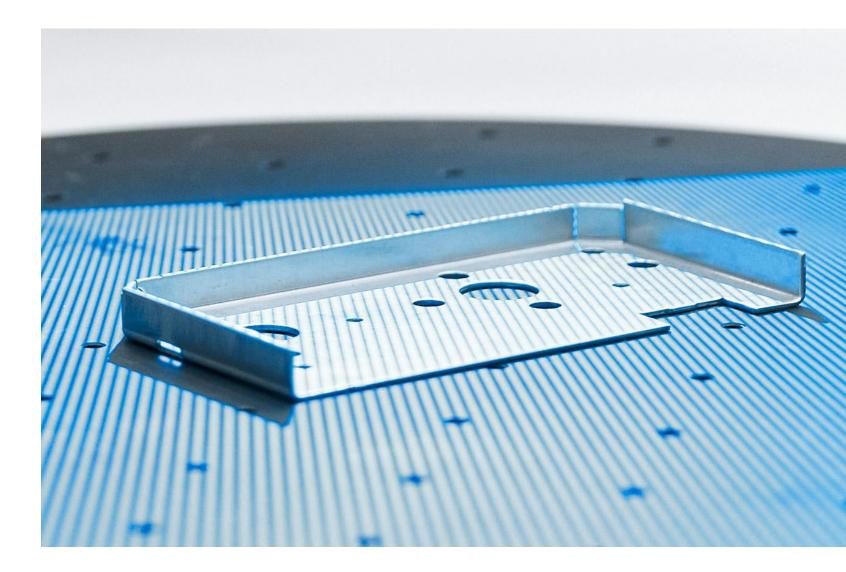
#### Bright LED light source

Projection of very small fringes per unit area

- ·High detail resolution
- Precise coverage of complex geometries

Uniform, non-coherent, speckle-free light

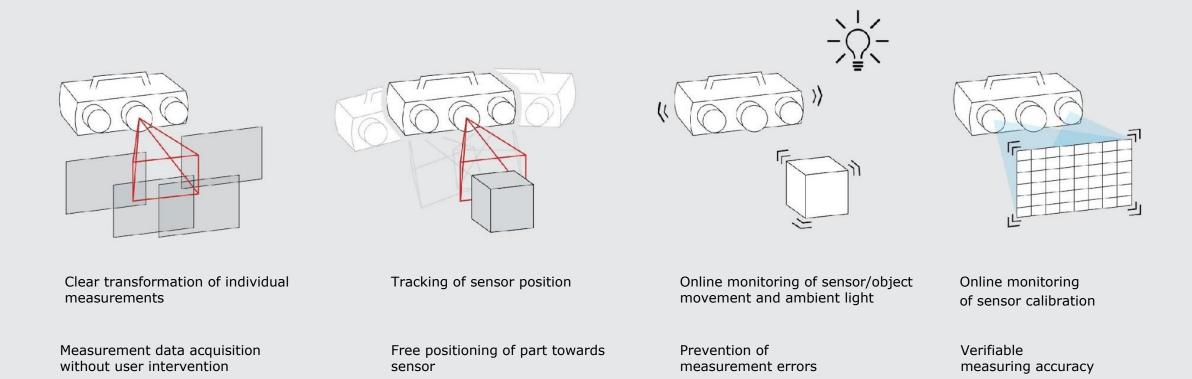
- ·Low noise level
- Precise coverage of complex geometries
- ·Highest data quality



## Self-Monitoring System



Combining all checks during the measurement leads to process reliability during the measuring operation and ensures the accuracy of each single measurement.



## ATOS Design

Simple operation

Protected optics

For industrial use

 $\square$  Robust, compact sensor

☐ Traceable results even under harsh conditions

 $\hfill\square$  Use close to production possible





Module: Technical Data

# Small, mobile and versatile

compact

low weight ( < 4 kg)



# Exchangeable measuring volumes

MV100, MV170, MV270, MV350, MV500



# Operation modes

stationary semiautomated











# One series, two versions

ATOS Q 8M

ATOS Q 12M

	ATOS Q 8M	ATOS Q 12M
Light source	LED	LED
Points per scan	8 million	12 million
Measuring area [mm²]	100 × 70 - 500 × 370	100 × 70 - 500 × 370
Point distance [mm]	0.04 - 0.15	0.03 - 0.12
Working distance [mm]	490	
Weight	approx. 4 kg	
Dimensions	approx. 340 mm x 240 mm x 83 mm	
Cable length	10 m fiber optic cable	
Operating system	Windows 10	
Measuring volumes	100, 170, 270, 350, 500	

