

WENZEL CORE S

OPTICAL HIGH SPEED SCANNING



FAST OPTICAL MEASUREMENT
AT PRODUCTION CYCLE SPEED

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OPTICAL MEASUREMENT AT PRODUCTION CYCLE SPEED

Designed to increase the speed of the production process, the CORE Optical High Speed Scanning System offers a highly flexible 3D inspection solution for demanding measurement requirements in global manufacturing. The CORE is based on a proven mechanical structure, developed and manufactured in WENZEL's renowned production facility in Germany. This forms the cornerstone for its accuracy, reliability and quality.

With a scanning speed of up to 400 mm/s, the CORE provides time savings by a factor of about 4 compared to tactile coordinate measuring machines.

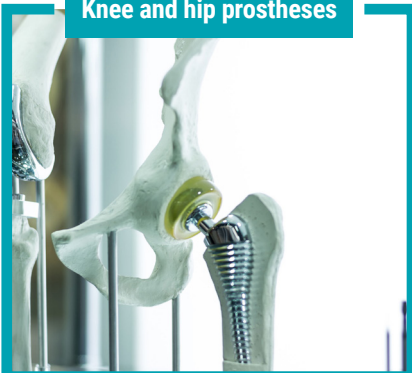
For customers whose environmental conditions do not require an automated protection cover, WENZEL has developed the CORE S E (Essential) which is available at a lower price and offers a smaller footprint.

FIELDS OF APPLICATION

Multiple sensor options enable a wide range of applications. Typical applications of CORE can be found in a wide variety of industries, for example in tool and mold making, prototype construction, the automotive industry, reverse engineering and above all in medical technology and aviation. CORE is used to measure turbine blades, joints, implants and vehicle parts.



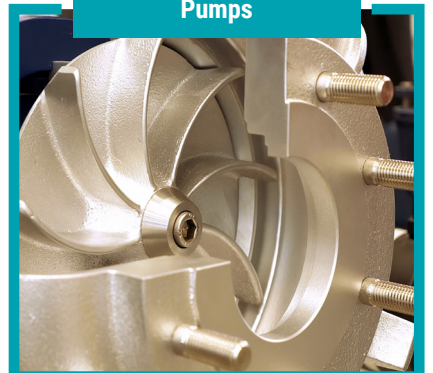
Knee and hip prostheses



Turbine blades



Pumps



FEATURES

■ Fast and efficient

Fast point detection |
Minimization of machine
movement | Repositioning
during measurement

■ Easy integration

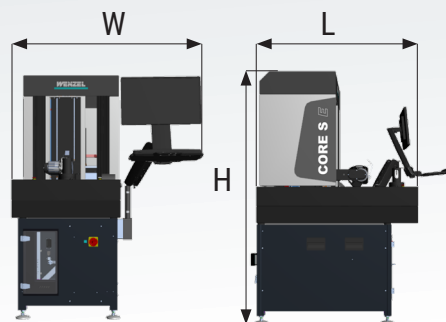
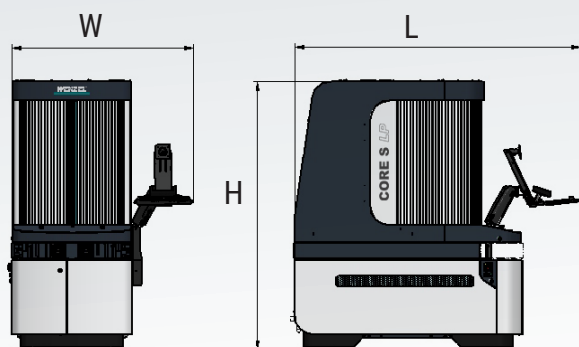
Compact design with
a small footprint |
Controller and computer
integrated in the unit |
Accessible work area |
No compressed air requi-
red | Easy to relocate

■ Unique sensors

Simple measurement
of critical areas | Direct
measurement of polished
and highly reflective
surfaces | Large working
distance and measuring
range

■ Latest technology

Can be automated |
Connection of robots for
assembly | Temperature
stability from 15°C - 30°C |
Dirt-resistant due to
protected guides |
Vibration-resistant |
Use of precision scales |
5-axis measuring system
| Angle acceptance of the
sensors of 90° ±85°



MACHINE PROFILE CORE S LP

Space Requirements (L x W x H)	2255 x 1500 x 2100 mm
Machine weight	1500 kg
Acceleration	> 3000 mm/s ²
Measurement system resolution	0,1 µm

MACHINE PROFILE CORE S E

Space Requirements (L x W x H)	1660 x 1300 x 1820 mm
Machine weight	775 kg
Acceleration	> 3000 mm/s ²
Measurement system resolution	0,1 µm

INNOVATION MEETS TRADITION

The WENZEL Group is one of the leading suppliers in the field of industrial metrology and styling solutions. WENZEL's product portfolio includes coordinate and gear measuring machines with tactile and optical sensors, multi-sensor systems, optical high speed scanning and 3D X-ray measuring technology based on computer tomography. In addition to these systems WENZEL also offers comprehensive metrology software, which is used by many thousands of users for the measurement and analysis of parts. WENZEL's measuring solutions

are used in various industries, including the automotive sector, aerospace, power generation and medical devices. Our solutions also support reverse engineering, inspection, and analysis for a variety of fields including power generation, vehicle electrification, and additive manufacturing. Over the years WENZEL has installed more than 12,000 machines worldwide. Subsidiaries and agencies in more than 50 countries support the sales and ensure the after sales service for our customers. The WENZEL Group employs more than 500 people worldwide.



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