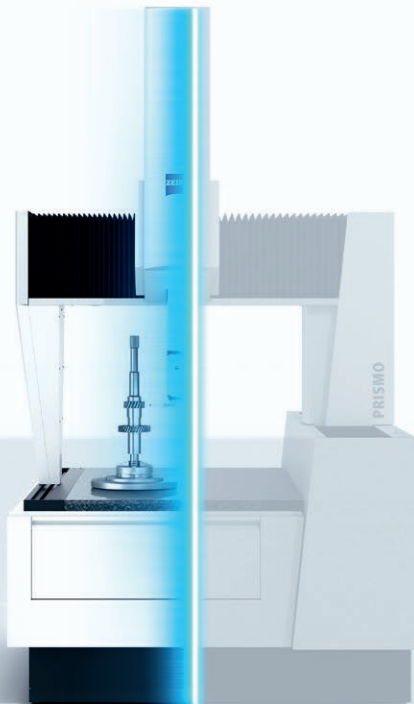


# Flexibility Upgrade for Your ZEISS CMM

## ZEISS SensorFit



Seeing beyond



### The sensor upgrade for future-proof operations

This retrofit package ensures that your ZEISS CMM is compatible with state-of-the-art sensor technology. By deploying the latest tactile and optical sensors on your ZEISS CMM, you can perform roughness or optical measurements on plastic or elastic components. ZEISS SensorFit also helps solve the issue of limited space in the changing rack thanks to the countless stylus combinations of the ZEISS Articulating Stylus.

Whichever sensors you choose, ZEISS SensorFit establishes the ideal basis for continuous operation of your ZEISS CMM far into the future.

- Suitable for ZEISS PRISMO, ZEISS CenterMax, and ZEISS ACCURA (with C99 controller) manufactured from 2003 onward.
- Includes the features of **ZEISS ConFit** and **ZEISS FutureFit**.

Upgrading ...



### Benefits



- Extension of the measuring spectrum, e.g. roughness and optical measurement
- Secure and sustainable standard ready for the challenges of tomorrow
- Increase in productivity – more parts can be measured through simplified logistics
- Cost-effective via increased efficiency and low investment compared to the corresponding new equipment
- Additional data for even more reliable analyses
- Ready for digital services such as ZEISS Smart Services

### Features



ZEISS SensorFit enables an upgrade to the current USS2 standard for ZEISS PRISMO, ZEISS CenterMax, and ZEISS ACCURA with controller version C99. For the purpose of this upgrade, ZEISS supplies and installs a new controller with series status, new device cabling, and the USS2 sensor interface. This gives you the opportunity to equip your ZEISS CMM with the additional measuring probes and sensors relevant to your measuring tasks.

# Retrofittable Tactile, Optical, and Roughness Sensors



## ZEISS RDS

### The basis for maximum flexibility

ZEISS RDS is the best articulating probe holder in its class and is particularly well-suited to measuring complex parts requiring many styli with different spatial directions.



## ZEISS ViScan

### 2D sensor for optical measurement

The use of optical sensors is indispensable for highly complex specimens. Combined with ZEISS RDS, the ZEISS ViScan permits measurements in all spatial directions without rechucking the part.



## ZEISS LineScan

### Optical sensor for capturing surface of forms

ZEISS LineScan is the tool of choice when capturing the entire surface of forms using point clouds – whether for comparing with available nominal CAD data sets or creating a new CAD model.



## ZEISS DotScan

### Optical sensor for capturing freeform surfaces

ZEISS DotScan is an outstanding option for capturing freeform surfaces and even minute structures. Chromatic white light sensors such as ZEISS DotScan are the method of choice, especially when styli or camera sensors reach their limits on sensitive, soft, reflective, or low-contrast surfaces.



## ZEISS VAST XTR

### Integrated rotary axis

Thanks to the integrated rotary axis, the new ZEISS VAST XTR gold probe always positions the stylus in the direction of the feature being measured, maneuvers effortlessly through gaps, and thus gets to wherever it is needed.



## ZEISS VAST

### Ideal sensor for contact scanning

The active scanning sensor offers improved dynamics through optimized moving masses and improved rigidity resulting from optimized joints.



## ZEISS ROTOS

### A whole new dimension for roughness measurement

ZEISS ROTOS offers optimum precision and maximum flexibility when performing roughness measurement thanks to its modular design and rotation in three axes. Easy-to-change stylus arms further expand the range of possible applications.



## ZEISS Articulating Stylus

### Highest flexibility

This enables stylus adjustment to any angular position between  $-135^\circ$  and  $135^\circ$  in just a few seconds, saving both time and storage space for fixed position stylus systems. The highly stable articulating stylus combines with the highly precise ZEISS VAST gold measuring head to deliver excellent accuracy.

## Resource conservation through extended service life

Retrofitting a ZEISS PRISMO, ZEISS CenterMax, or ZEISS ACCURA CMM (with controller version C99) manufactured from 2003 onward extends its lifetime by up to 5–10 years. This means that the heavy granite blocks (measuring table weighing up to 11 t) and the steel base frame (weighing around 300 kg) required for an entirely new machine do not need to be manufactured – and even more importantly in terms of resource conservation, they do not need to be transported. Each retrofit therefore saves several tons of CO<sub>2</sub> by extending the CMM service life.

## Reasons to invest

- 1 Sensor compatibility:** Multisensor conversion of older ZEISS CMMs enables you to use all existing ZEISS sensors within the range.
- 2 USS2 standard:** ZEISS SensorFit includes the state-of-the-art sensor interface, control, and wiring essential for operating the latest ZEISS sensor technology.
- 3 New control cabinet:** Installation not only extends the service life, it delivers a holistic upgrade of your CMM measurement processes.
- 4 Expanded options:** Control system taps into additional software functionalities such as ID recognition and ZEISS Smart Services Starter Kit.