

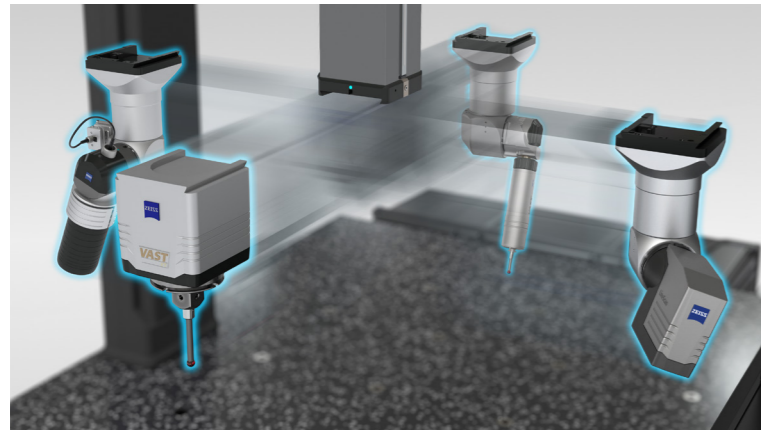
**Prepared for all challenges –
today and tomorrow**
ZEISS CONTURA Product Report



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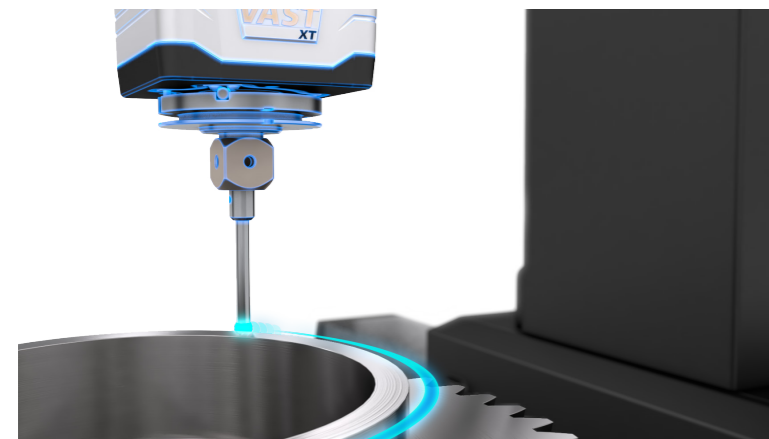
ZEISS CONTURA Product Report

The precision of tactile measurement with the flexibility of optical probes: with the latest generation of ZEISS CONTURA, operators no longer have to choose between optical and tactile measurement when choosing a new system. Thanks to our mass technology, which comes standard, ZEISS CONTURA is the first coordinate measuring machine in its class capable of being quickly and easily equipped with tactile or optical probes. Whether articulating sensors or multi-probe systems, tactile, optical, passive or active probes, and even the groundbreaking ZEISS DotScan confocal white light sensor – ZEISS CONTURA supports it all, giving you maximum flexibility where and when you need it.



But our mass technology isn't the only thing that's new in the latest CONTURA. Much of the device has been redesigned from the ground up to include a range of new features which set the CONTURA well apart from other measuring machines in its class:

- **Rotary table:** The CONTURA is the first coordinate measuring machine in its class to support the optional use of a mobile rotary table. When not needed, the rotary table can be easily removed from the measurement volume, set aside or placed on other ZEISS CONTURA machines for use. Now, rotationally symmetric components can be easily measured on the rotary table (i.e. the 4th axis), resulting in a significant performance boost.



- **Angular probe paths** require repeated acceleration and braking, which is both time-consuming and mechanically demanding. The FlyMode algorithm, which is enabled by default for all probes and sensors, rounds off the path, reduces wear and increases the speed of travel. When combined with our VAST performance and VAST navigator technologies, FlyMode is a significant time-saver.

- **Durability:** Thanks to a new generation of air bearings, a DLC (diamond-like carbon) coated gantry, and many other detailed optimizations, the ZEISS CONTURA is now more resilient than ever before.

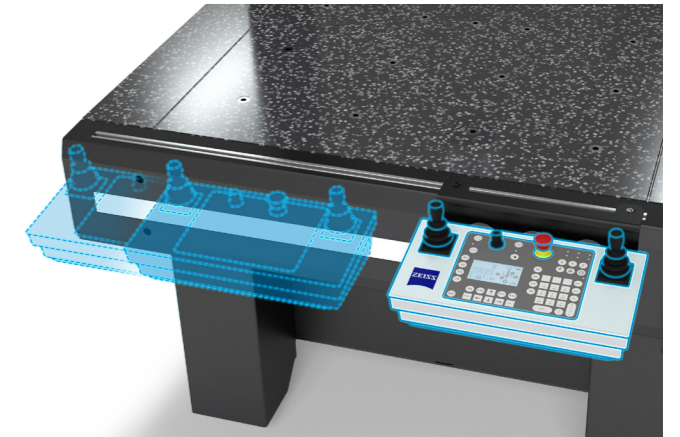
- **Ergonomics:** With more legroom under the granite plate, a thermal shield for the operator on the front side of the plate, a moveable control panel and a lower working height for convenient loading, the ZEISS CONTURA is now much easier to use.

- **Cost-savings:** Thanks to ZEISS AirSaver, the CONTURA now consumes up to 70% less air.

The new ZEISS CONTURA also features a host of other impressive qualities, most notably its enhanced accuracy for performing precision measurements, especially in larger measurement ranges. And thanks to the low weight of the gantry and granite plate, as well as the device's compact size across all three dimensions, the CONTURA can be easily installed in spaces which were formerly too small. Plus, with the HTG (high temperature gradient) option, operators can expect stable measurements at temperatures ranging up to 26 °C. CONTURA machines run ZEISS CALYPSO, the same powerful yet user-friendly software used for measurements, statistics and reporting on all ZEISS coordinate measuring machines.

Tactile and optical measurement in a single device

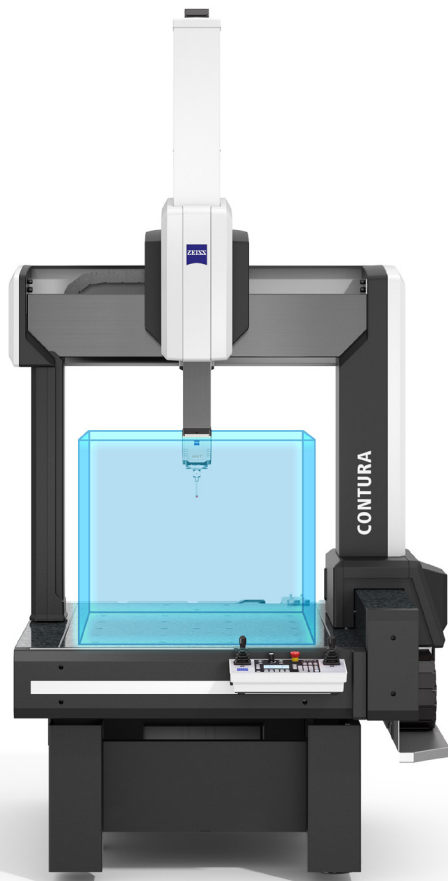
One of the most prominent features of ZEISS CONTURA is our Multi Application Sensor System, or "mass" for short. For years, customers have been asking us to develop ultra-flexible machines that can perform both tactile and optical measurements. While the measurement requirements of many of these customers today continue to be predominantly tactile, the demand



for coordinate measuring machines which can also perform optical measurements is driven by the need to always be ready for the challenges of to-morrow. With ZEISS CONTURA, these customers are prepared for the future. The CONTURA coordinate measuring machine's flexibility to handle a range of applications comes from its use of the cutting-edge integrated electronics from our PRISMO class of machines and our proven probe switching mechanism. The machine can be switched from a tactile sensor to an optical sensor in a matter of seconds, and qualification takes only a few minutes. Applications that previously required two machines at twice the cost can now be performed using a wide selection of ZEISS sensors on a single device.

Large measurements for tight spaces

Despite all the new features in ZEISS CONTURA, the machine itself hasn't grown in size. In fact, the new model is even smaller, providing a larger measurement volume when installed in an area of the same size. This is because the ZEISS CONTURA was designed with limited total height in mind. Now, some model variants are smaller and can even fit in rooms with low ceilings.



ZEISS CONTURA Sizes

7/7/6

7/10/6

9/12/8

9/18/8

12/18/8

12/24/8

To prevent very long probes from reducing the measurement volume, we introduced ZEISS ProMax E, an optional modular sensor rack mounted outside of the measuring area which automatically moves into position when it's time to change sensors. ZEISS ProMax E increases the useable measurement volume by up to 46% as compared to standard rack systems. When combined with the safety position option, the measuring machine is capable of communicating with a robot to indicate when the sensor is in a safe, parked position, and starts the measurement process only when the robot has moved into a safe position as well.

Ready for the future

With its wide range of new features and ZEISS mass technology, ZEISS CONTURA is the machine of choice in its class for handling tactile measurements and preparing for the growing demand for optical sensors. ZEISS CONTURA gives you the confidence of knowing that your business is ready today to meet the many challenges of tomorrow – including Industry 4.0. With the option of ZEISS Smart Services, your coordinate measuring machines can be monitored in real time via smartphone, and any issues can be detected and resolved by ZEISS expert technicians. Coordinate measuring machines are more essential today than ever before. To keep pace with the constantly growing accuracy of high-precision production systems, manufacturers require devices which are both versatile and affordable. As the golden rule of metrology goes: a measuring machine should be 10 times more accurate than the smallest production tolerance. ZEISS CONTURA is that machine.

Contact us!

Find together with us your right forward-looking solution.

For more informations visit:

www.zeiss.com/metrology

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