

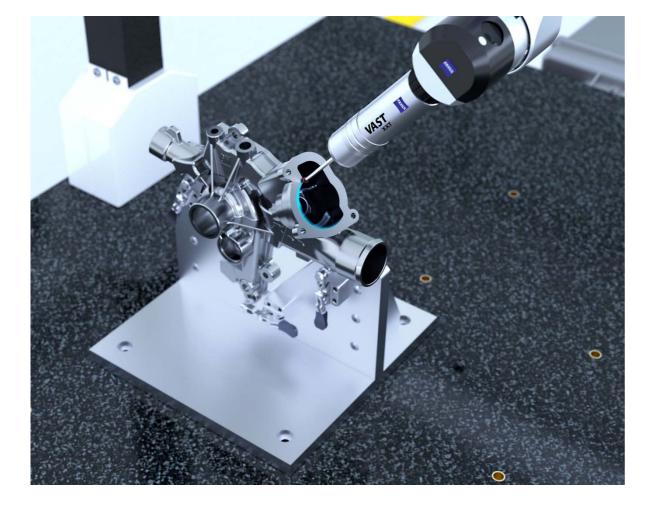
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Upgrade to trusted measuring results. ZEISS SPECTRUM

ZEISS SPECTRUM Scanning technology





WHY

Enormous costs arise mostly from reworking of returned parts.

HOW

A trustworthy quality assurance can increase profit by **providing better data quality of your parts**.

WHAT

Scanning technology ZEISS VAST XXT comes as standard for the ZEISS SPECTRUM.

Fields of Applications by Industry



ZEISS

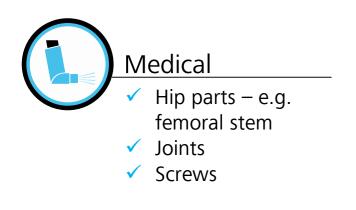
Fields of Applications by Industry Industry





Fields of Applications by Industry Medical







Fields of Applications by Industry Electronics







Bridge-type Coordinate Measuring Machines The Portfolio



ZEISS

ZEISS SPECTRUM Reasons to buy...



Increased productivity

Reliability

Flexibilty ZEISS VAST XXT Worldwide

ZEISS CALYPSO Trust

Cost effectiveness

ZEISS SPECTRUM Key characteristics

With the ZEISS SPECTRUM coordinate measuring machine you will enter a new level of precision and trusted results – at an unmatched priceperformance ratio.

Unmatched scanning technology

The combination of ZEISS VAST XXT and ZEISS RDS-C5 including CAA increases the reliability and reduces operation time of measurements enormously. It also enables a wide range of measurement tasks.

STATISTICS. SPECTRUM





Better data quality

and 7/10/6

ZEISS RDS-C5 CAA VAST XXT

Covered by three sizes 5/5/6, 7/7/6

with ZEISS VAST XXT Form measurement error for roundess with a RONt of 1.8 µm for 5/5/6 and 1.9 µm for 7/7/6, 7/10/6

Get a great value

Highest quality from leading technology with a MPE_{E0} of $1.9+L/250 \ \mu m$ for all machnine sizes



ΞĊ

Cost effectiveness

Get the fastest qualification time in class ZEISS RDS-C5 including CAA allows a qualified system of all 5184 possible positions in approx. 12 minutes.



Reliability & performance

Patented floating mounted **glass ceramic scales** for eliminating the temperature scale deflection, meaning temperature sensors are not required.



Small footprint

Backpack controller, as well as passive damping system and earthquake protection.







Unmatched scanning # technology

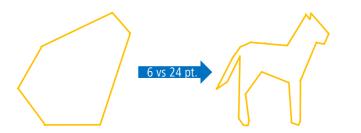
#1 Unmatched scanning technology



Scanning Technology

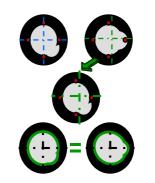
Technical explanation and example

Scanning technology means a multitude of single points are recorded. More points allow for greater certainty and a higherquality measured characteristic.



How you benefit

- Reliability and repeatability of measurement results due to a massive high point density for evaluating size, form and location tolerances.
- Best value equation thanks to the highest scanning speed without compromising accuracy in this class.





Tailored for your application

#2 Tailored for your application





Technical explanation and example

- Wide spectrum of styli (e.g. lateral star probe up to 65 mm) allowing you to measure more complex features means more applications!
- In addition, the probe head RDS with a step width of 5° in the A and B axes enables 5184 single angle positions.

How yo ✓ ZEIS Fast ✓ ZEIS For I ✓ ZEIS with

How you benefit

- ZEISS XDT:
 Fast and easy measurement
- ZEISS VAST XXT direct:
 For higher data quality
- ZEISS RDS-C5 CAA with ZEISS VAST XXT: For complex parts



VAST & E



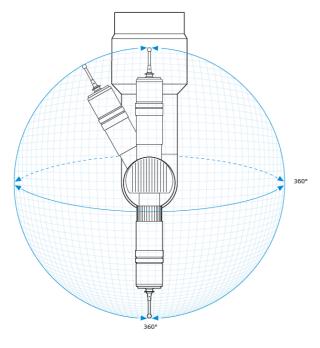
#3 Cost effectiveness



ZEISS RDS-C5 CAA

Technical explanation and example

Step range of 5° in A and B axes enables high resolution of positions (5184) as well as movement in all axes.



How you benefit

Reduction of operating time by an exponential factor due to the RDS probe head with integrated CAA, which requires no single angle qualification.



Reliability & HeritageKellability aHeritageKellability aHeritage<

#4 Reliability & preformance

Leading Hardware Technologies

Technical explanation and example

Glass ceramic scales

The float-mounted scales significantly reduce the influence from torsions of the base frame.

Ceramic components

Ceramics are stiff and have a lower CTE than metals.

Long bearing base

Longer bearing bases guarantee a higher stiffness against bending, pitching and yawing.

CAA corrections

Dynamic and static bending corrections are state of the art.



How you benefit

The influences from temperature gradients on the accuracy of the ZEISS SPECTRUM are reduced to a minimum by the floating glass ceramic scales.

"The best correction is correction you don't need!"

 Ceramic components and the long bearing base ensure accuracy and reproducibility. 

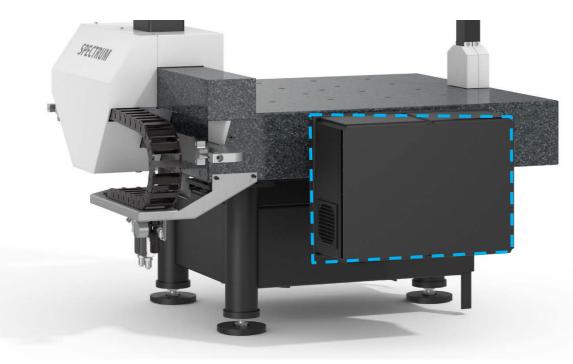
#5 Smart footprint



Footprint & hardware

Technical explanation and example

- ✓ Footprint 2.212 m² including backpack controller box.
- Passive damping system
- Earthquake protection





- More space in your measuring area due to the small footprint
- Heat reduction with external fan circulation, no heat emission (others put their controller underneath the granite or as a separate box beside the machine).



Worldwide sales and service

#6 Worldwide sales and service



Our Global Know-how: ZEISS IQR Network



How you benefit

- ZEISS know-how & application technicians available globally.
- Service & support very close to the customer means fast reaction times.
- Less downtime and more security.



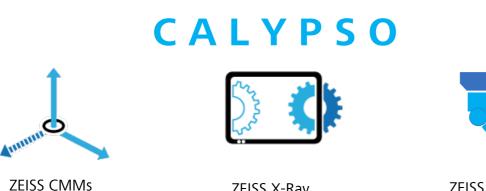
#7 Software: ZEISS CALYPSO



One for all

Technical explanation and example

- ZEISS CALYPSO enables a consistency and compatibility across all ZEISS CMMs with additional features like ZEISS GEAR PRO measurements.
- Operate various ZEISS CMMs with one training.



ZEISS X-Ray



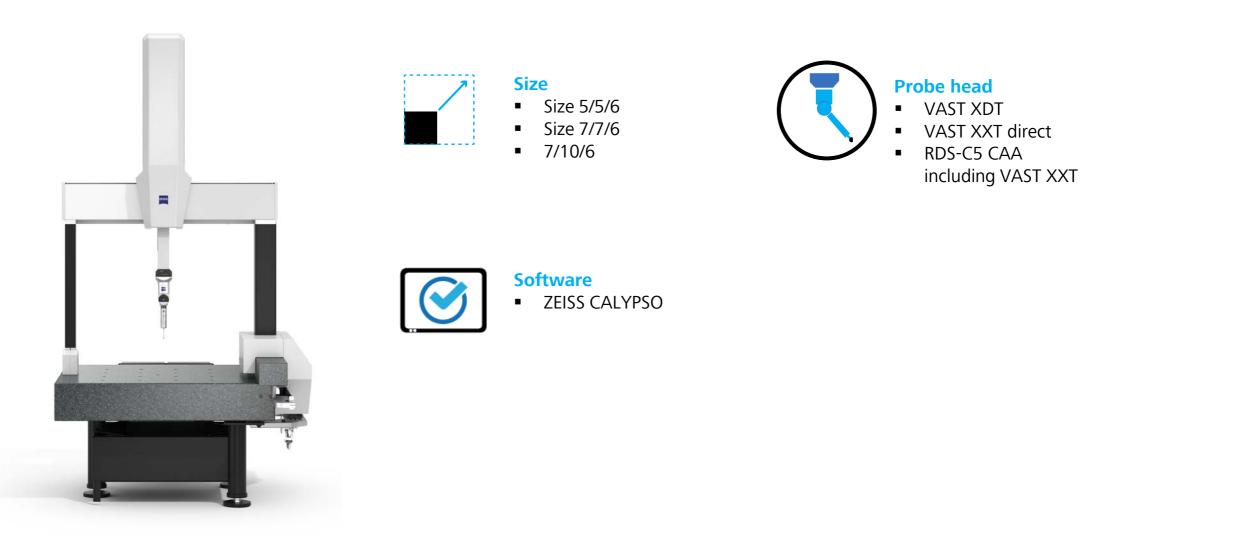


- ✓ Cost saving because of fewer training hours.
- More efficient operation thanks \checkmark to a familiar user interface.
- ✓ A CNC will run on different ZEISS CMMs immediately.
- ✓ Optimized software for specific applications.

Configuration standards

Your ZEISS SPECTRUM for your needs





Upgrade to trusted measuring results. ZEISS SPECTRUM



BACKUP

Fields of Applications by Industry Industry



