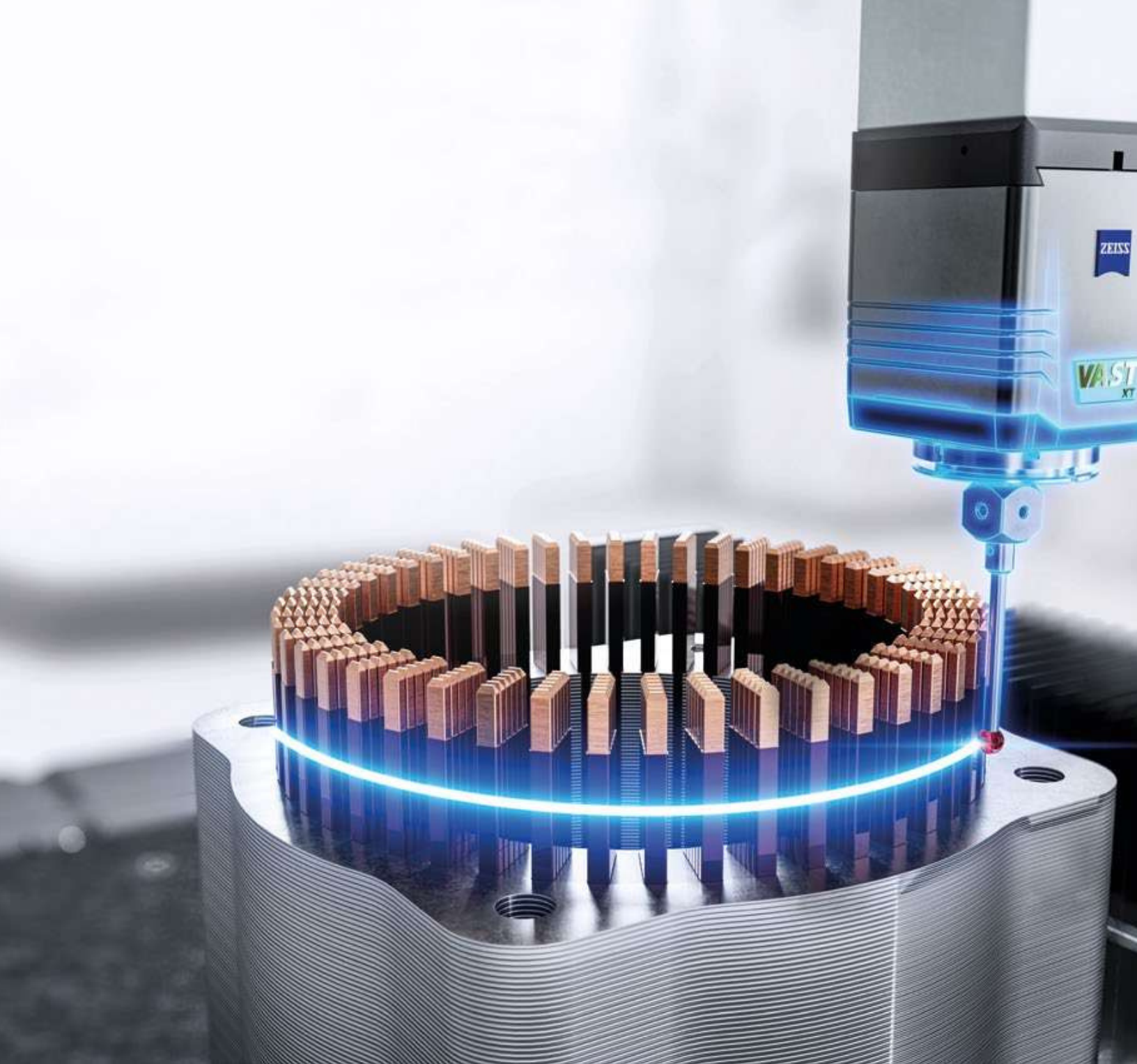




Industrial Quality Solutions

MAPP

☎ +91 7090273747

✉ info@mappa.co.in

🌐 www.mappa.co.in



Seeing beyond

Bridge-Type CMMs

Bridge-type coordinate measuring machines (CMMs) are engineered to meet the demanding challenges of industrial measurement technology, delivering precise results with minimal deviations. Designed for exceptional accuracy and reliability, these machines ensure strict production quality control and are adaptable to a wide range of applications. Tailored solutions can be customized to meet your specific requirements.

ZEISS SPECTRUM family

With ZEISS SPECTRUM family – consisting of ZEISS SPECTRUM and ZEISS SPECTRUM verity, you will enter the next level of flexibility and performance. Trust your parts due to more reliability in the measurement results.

Technical Specification

- Measuring Volume X/Y/Z from 7/7/6 to 9/18/6
- Accuracy EO in μm from $1.7 + L/300$

ZEISS CONTURA

It is equipped with the mass technology and, thanks to a common interface, enables simple switching between different sensor technologies in just a few simple steps.

Technical Specification

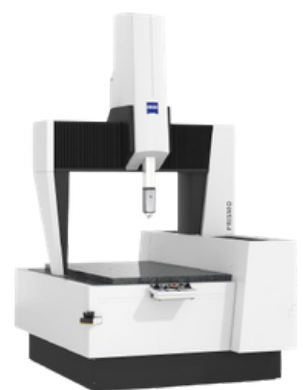
- Measuring Volume X/Y/Z from 7/7/6 to 12/24/10
- Accuracy EO in μm $1.4 + L/350$

ZEISS PRISMO family

For more than 30 years, ZEISS PRISMO has been synonymous worldwide with high-speed scanning and maximum accuracy. PRISMO from ZEISS fully complies with ISO quality standards – a must in a world where precision matters the most.

Technical Specification

- Measuring Volume X/Y/Z from 7/9/5 to 16/42/14
- Accuracy EO in μm from $0.9 + L/350$ (PRISMO) / $0.7 + L/400$ (at 22°C) up to $2.7 + L/80$ (at 40°C) (PRISMO fortis) / $0.7 + L/400$ (PRISMO verity) / $0.5 + L/500$ (PRISMO ultra)





Shop Floor CMMs

Shop floor CMMs are specifically designed to perform reliable measurements directly in production environments, where factors like dust, oil, floor vibrations, and temperature fluctuations can pose challenges. The shop floor CMMs from ZEISS are built to withstand these conditions and enable precise quality assurance at the site of manufacturing. This way, errors can be quickly identified or prevented entirely.

ZEISS DuraMax

ZEISS DuraMax is equipped with the VAST XXT scanning sensor from ZEISS. It can even be used to capture contours and freeform surfaces. A rough production environment is no challenge for ZEISS DuraMax. Sustainability is a principle of action for the use of resources.

Technical Specification

- Measuring Volume X/Y/Z 5/5/5
- Accuracy E0 in μm $2.4 + L/300$

Optical CMMs

Optical CMMs are ideal for applications where tactile metrology is limited by product design or material sensitivity. They enable precise, non-contact measurement of sensitive, thin-walled, or flat workpieces, such as optics, foils, and injection-molded parts. The ZEISS Optical Series can also be supplemented with tactile probes, offering a versatile solution for both optical and tactile measurements in a single system.

ZEISS O-DETECT

Intuitive operation, high-quality camera and flexible lighting for precise measurements. Suitable for a wide variety of components, but mainly for those that are better left untouched.

Main Applications

Mainly optical 2D measurements of parts of any color and surface finish. From colored plastics and electronic parts up to reflecting medical parts.

Technical Specification

- Measuring Volume X/Y/Z from 3/2/2 to 5/4/3
- Accuracy E0 in μm from: 1D: $1.6 + L/200$, 2D: $1.9 + L/150$, 3D: $2.4 + L/150$

ZEISS O-INSPECT

The O-INSPECT multi-sensor measuring machine from ZEISS enables you to optimally measure each characteristic with optical or tactile measurements. Special feature: ZEISS O-INSPECT delivers reliable 3D measurements compliant with ISO standards at a temperature range of 18–30 °C.

Main Applications

Workpieces with sensitive surfaces and with real 3D features and tight tolerances where tactile scanning is a benefit.

Technical Specification

- Measuring Volume X/Y/Z from 3/2/2 to 8/6/3
- Accuracy E0 in μm from: 1D: $1.4 + L/250$, 2D: $1.6 + L/250$, 3D: $1.9 + L/250$



As a world leader in precision measuring systems, ACCRETECH offers a wide array of high-performance surface texture and contour measuring instruments designed to meet the requirements of a variety of applications. Choose the device that best fits your purpose.

Measuring instrument that captures surface texture with minute changes in the order of nanometers to several tens of millimeters as 2D/3D data, takes quantitative measurement and determines the correlation with material, processing, function and performance and the optimum control.

Surface roughness measurement

- The surface texture of physical objects is often expressed as "smooth" or "rough". However, even a "smooth" surface has tiny convex and concave irregularities. Surface roughness is the parameter used to express the degree of these minute irregularities.
- Product function and performance can be affected by a number of different factors. The purpose of surface roughness measurement is to facilitate product quality control and cost management.

Contour profile measurement

- The contour profile is the profile (sectional contour) generated by tracing the ridge lines of the angles, radii, distances, and co-ordinates of an entire physical object.
- Our contour profile measurement devices produce a multi-dimensional measurement by tracing the surface (marked by stylus) of an object and enlarging the profile. It is ideal for measuring items such as: the convex and concave irregularities which are difficult to measure or inspect with a projector; the inner profile of a hole; and objects so small that it is not possible for a stylus to be applied by a 3-D coordinate measuring machine.

Surface Texture Measuring Instruments

HANDYSURF+ 35/40/45



- Portable surface texture measuring instrument reborn with sophisticated design.
- Supporting multi-language for worldwide use (20 languages).
- Superior operability and multiple analysis functions.

SURFCOM TOUCH 35/40/45



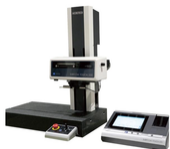
- Portable-type entry model in the SURFCOM TOUCH series useful in any measurement situation.
- Small and light tracing drivers selectable for application.
- Skid-measurement-type for measurement with different attitudes

SURFCOM TOUCH 50



- High-level compact-type model in the SURFCOM TOUCH series with high resolution and straightness.
- Equipped with a high performing pickup having high resolution and wide range.
- Various options such as a compact measurement stand and a roll footing.

SURFCOM TOUCH 550



- High-end model in the SURFOM TOUCH series with high flexibility where granite base size, column height, and X-axis drive range can be selected.
- Equipped with a high performing pickup having high resolution and wide range.
- Drive axes operable from amplifier.

SURFCOM NEX 001 DX2/SD2



- High speed and low vibration roughness measurement
- Extremely high-speed driving enables shorter tact time
- The world's only linear motor drive machine that can measure ultra-low vibration and operate at 20±5 degrees Celsius

Surface Texture and Form Measuring Instrument

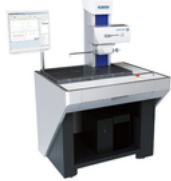
RONDCOM NEX Series



- High-accuracy roundness and roughness measurement in R-axis, T-axis and Z-axis, in conformity to standards.
- World's highest rotation accuracy $0.02 + 3.2H/10000 \mu\text{m}$.
- series is also available which is capable of loading 60 kg at maximum.

Contour Measuring Instruments

SURFCOM NEX 040 DX2/SD2 030 DX2/SD2



- Mount high precision contour detector with 60 mm range of Z-axis.
- Extremely high-speed driving enables shorter tact time
- The world's only linear motor drive machine that can measure ultra-low vibration and operate at 20 ± 5 degrees Celsius

CONTOURECORD 1600G



- High accuracy dimension and profile analysis.
- Built-in teaching and playback functions.
- With advanced contour measurement and analysis software.
- Multiple profile superimposed analysis function.

Surface Texture and Contour Combined Measuring Instruments

SURFCOM1800G



- Integrated texture pickup and contour detector as standard.
- High operability and integrated analysis of roughness and contour.

SURFCOM NEX 041 DX/SD 031 DX/SD



- Integrated texture measurement and high accuracy contour measurement in a single measuring instrument.
- Extremely high-speed driving enables shorter tact time
- The world's only linear motor drive machine that can measure ultra-low vibration and operate at 20 ± 5 degrees Celsius

SURFCOM CREST



- Adoption of the latest technology linear motor achieves the high-accuracy and high-speed measurement.
- Roughness and contour integrated measuring instruments with the world's best accuracy and performance.
- The introduction of highly stable optical path type laser interferometer provides the high resolution of 0.31 nm at measuring range of 13 mm.
- One-time measurement enables the high-efficient evaluation and analysis for both roughness and contour

Stereo and Zoom Microscopes

The closer you look, the more you see. ZEISS stereo and zoom microscopes are easy to operate, even for inexperienced users, providing you with information on color, morphology, structure, texture and dimensions. Whether in production environments or in the quality lab, fast imaging helps you to make informed decisions and keep quality at the highest level



ZEISS Axio Zoom.V16

ZEISS Axio Zoom.V16 is the high resolution, apochromatically corrected on-axis zoom microscope from ZEISS. With a magnification range of 16:1, you can zoom from a large overview (33 mm) down to the smallest detail (0.7 µm). This is particularly beneficial for automated stitching of large tile images and makes ZEISS Axio Zoom.V16 the preferred solution for particle analysis, technical cleanliness and high-resolution applications.



ZEISS Stemi 508

ZEISS Stemi 508 is your robust multi-purpose inspection tool for daily work in quality control. Observe and document your components with outstanding image contrast and color fidelity. Various stand and illumination options help you to create an inspection environment that supports inspection efficiency and the ergonomic needs.

Digital Microscopes

Go digital to become smarter, faster and have confidence in your data. Simplify and speed up imaging and documentation tasks while improving throughput.



ZEISS Smartzoom 100

The ZEISS Smartzoom 100 digital microscope for optical inspection delivers 4K live images at 60 FPS with automatic focus adjustment. With a 370 mm working depth, vibration reduction, and magnetic lenses, it excels in quality assurance, from incoming goods inspection to lab use. Its flexible controls and all-in-one design make it ready to use right away.



ZEISS Smartzoom 5

ZEISS Smartzoom 5 digital microscope assists operators with consistent execution of recurring, routine imaging and measurement tasks with guided, easy to set up, automated workflows. Intuitive GUI and controls make topography and large area imaging easy.



ZEISS Visioner 1

ZEISS Visioner 1 revolutionizes the world of optical inspection and documentation. Driven by the unique Micro-mirror Array Lens System (MALSTM technology), it enables for the first time, up to 100 × more depth of field than traditional inspection microscopes.

Wide Field Microscopes

ZEISS is renowned for its expertise in developing light microscopes with exceptional optical performance for materials investigation. Each microscope in the portfolio is tailored to specific applications, ranging from routine metallography to advanced material and failure analysis.



ZEISS Axio Observer

Take advantage of the inverted microscope design to efficiently investigate multiple samples, or components that would ordinarily be restricted when it comes to microscopic analysis due to size. There's no need to refocus, even when changing magnification or switching samples. ZEISS Axio Observer combines the proven quality of ZEISS optics with automated components to give you reliable, reproducible results.



ZEISS Axiovert

Produce high-quality images of large and heavy samples effortlessly with ZEISS Axiovert. Let the system take care of selecting the settings. You don't even need a PC to view and document images – just connect with a monitor and save directly to a USB device. The motorized Z-focus and motorized XY stage make Axiovert 7 your candidate for even more workflow automation and advanced imaging.



ZEISS Axiolab

ZEISS Axiolab 5 is the right choice if your routine metallography applications place high demands on ergonomic operation and efficient digital documentation. Since the Smart Microscopy concept does not require additional imaging software or even a computer, ZEISS Axiolab 5 is also the first choice from an economic point of view.

Laser Scanning Microscope

ZEISS confocal systems offer sub-micron resolution for the most demanding of non-contact surface measurement tasks, such as roughness or topography analyses of sensitive materials.



ZEISS LSM 900

For Materials ZEISS LSM 900 for Materials is the one instrument you will need for materials research and analysis to characterize 3D microstructures and surfaces. When you upgrade your ZEISS Axio Imager 2 upright light microscope or ZEISS Axio Observer 7 inverted microscope with ZEISS LSM 900 for Materials, you will be combining all essential light microscopy contrasting methods for materials with high-precision topography – on a single instrument.

2D X-Ray

The robust and reliable 2D X-ray solutions of the ZEISS BOSELLO product family are especially designed for fast defect detection in tough production environments. With ZEISS BOSELLO, automated or manual non-destructive 2D X-ray inspection as well as high throughput and productivity are guaranteed – thanks to quick loading and unloading, fast cycle times and flexible applications directly in-line or near production.



3D X-Ray

The industrial computed tomography systems from ZEISS enable you to perform advanced metrology and inspection tasks for a huge variety of applications. Whether plastic, metal, or multi-material, 3D X-ray systems inspect your parts quickly and reliably. They give you perfect insight and provide non-destructive testing of both, external and internal structures

