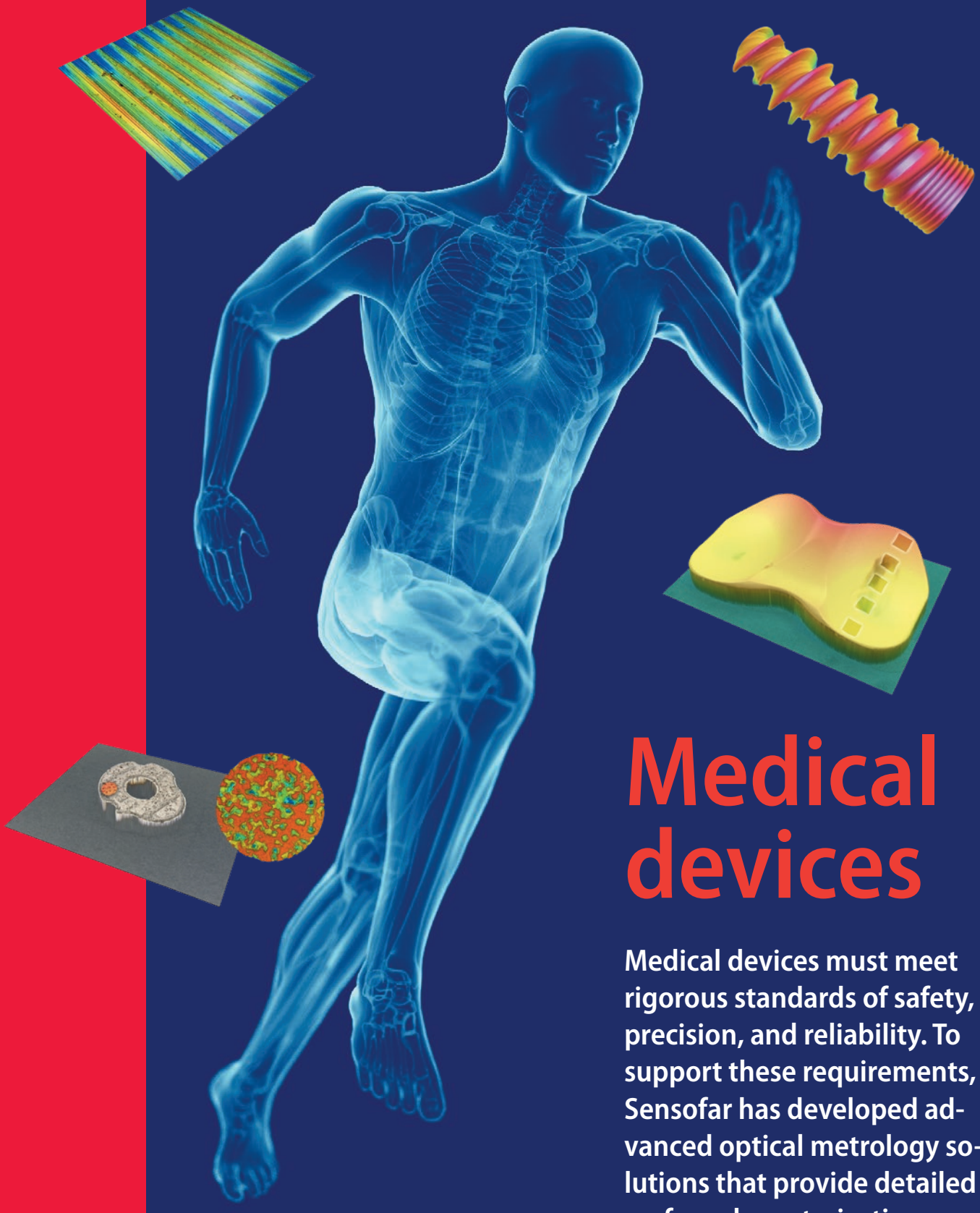
SEMPRE
CONNECTED METROLOGY

SENSOFAR



Medical devices

Medical devices must meet rigorous standards of safety, precision, and reliability. To support these requirements, Sensofar has developed advanced optical metrology solutions that provide detailed surface characterization.

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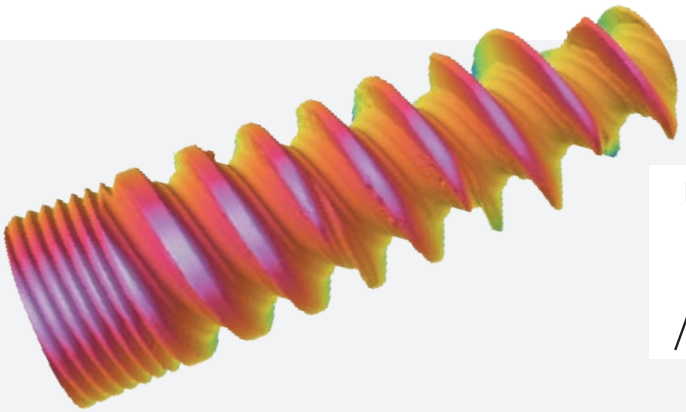
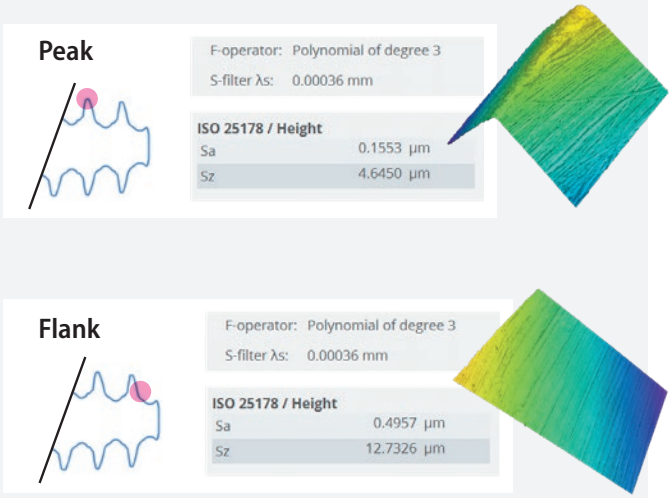
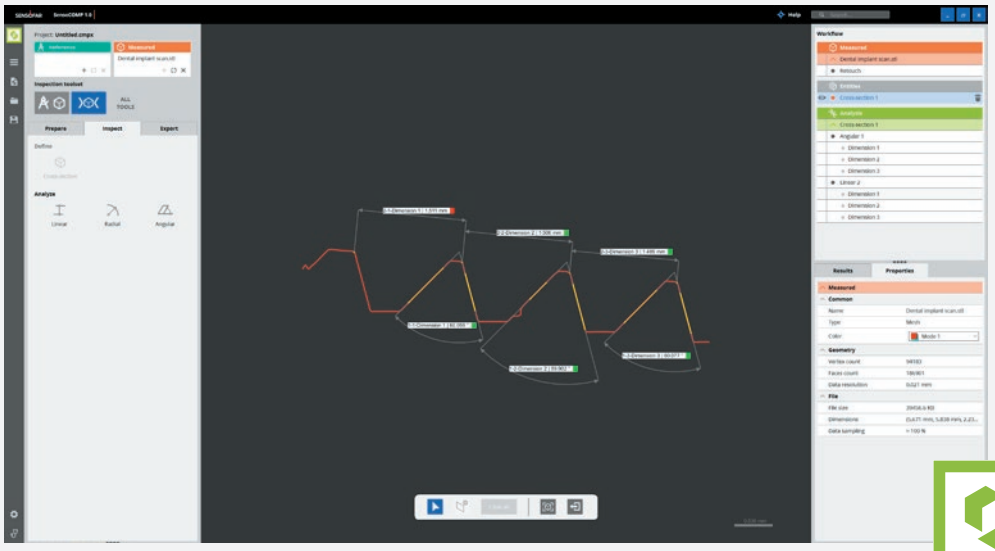






NEW

SensoCOMP

Dental implants

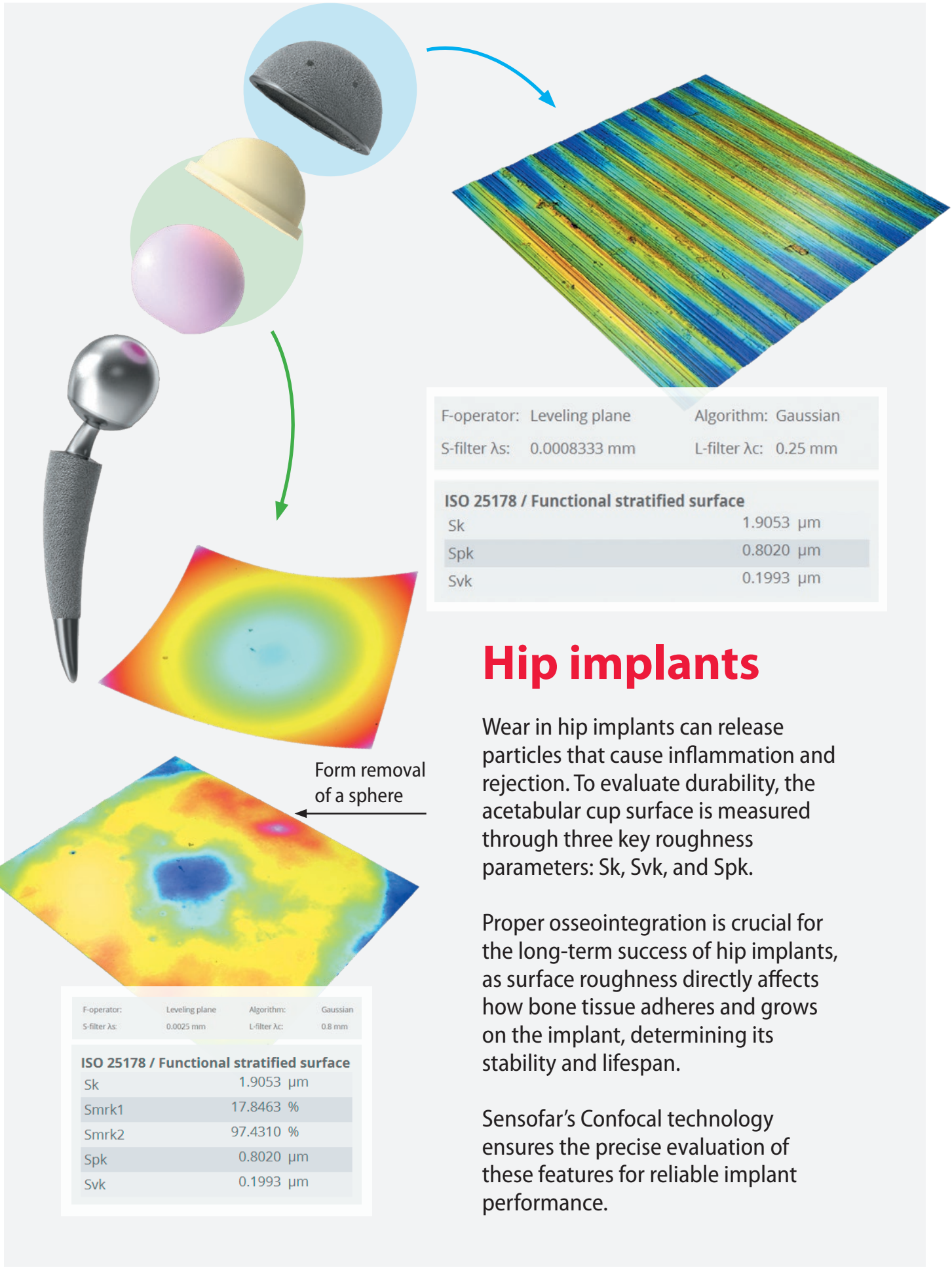
Threaded surfaces are key to the stability of dental implants.

To ensure proper performance and osseointegration, roughness is measured in three key regions: the peak, the flank, and the valley.

With the S neox Five Axis and Active Illumination Focus Variation, Sensofar captures the complete 3D geometry of the implant.

SensoMAP extracts critical dimensions, offering insights into how design and materials affect implant integration and durability.

Additionally, SensoCOMP, Sensofar's 3D inspection software, offers advanced flexibility for dimensional evaluation of challenging geometries such as dental implants, allowing users to inspect what matters most.

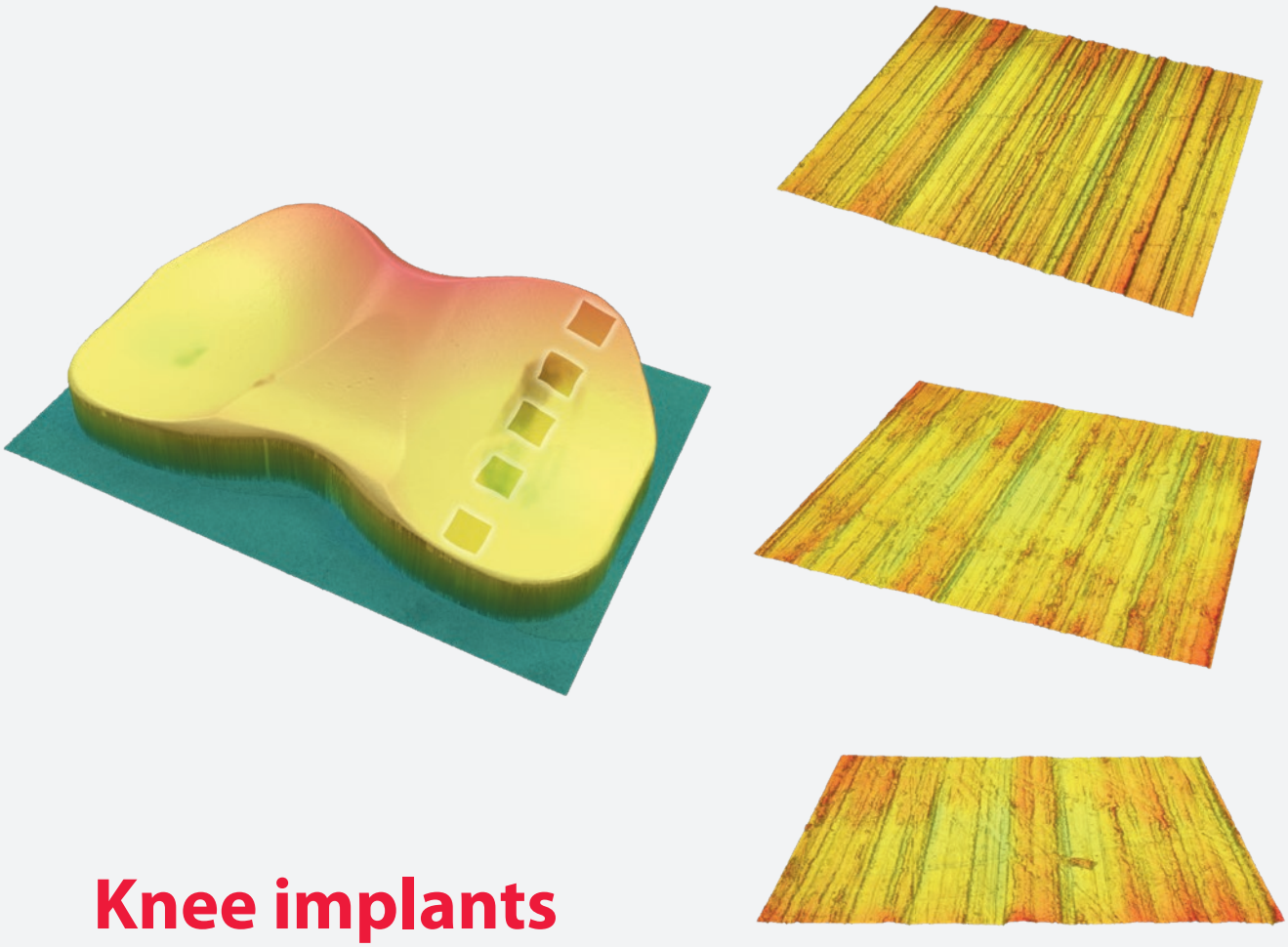


Hip implants

Wear in hip implants can release particles that cause inflammation and rejection. To evaluate durability, the acetabular cup surface is measured through three key roughness parameters: Sk, Svk, and Spk.

Proper osseointegration is crucial for the long-term success of hip implants, as surface roughness directly affects how bone tissue adheres and grows on the implant, determining its stability and lifespan.

Sensofar's Confocal technology ensures the precise evaluation of these features for reliable implant performance.

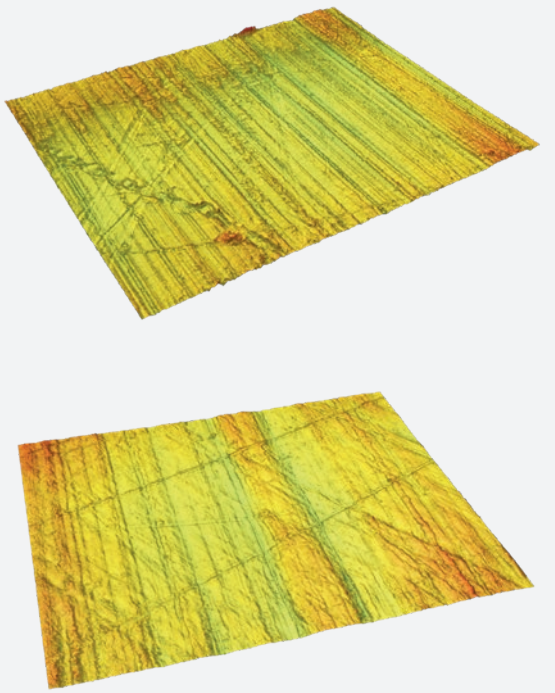


Knee implants

Knee implants require measurements at multiple positions; however, tilted or curved surfaces can reduce accuracy and complicate data collection.

Consistent surface quality is crucial for achieving proper osseointegration, as it facilitates enhanced bone attachment and prolongs implant longevity.

Sensofar's S neox Five Axis solves these challenges by combining Confocal and Interferometry with rotation and elevation, ensuring precise characterization of complex geometries.



Sensofar's non-contact optical profilers combine **Confocal, Interferometry, and Focus Variation technologies** to deliver the accuracy and versatility required for analyzing surface texture, coatings, and geometry in medical implants.

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SENSOFAR

METROLOGY

SENSOFAR is a leading-edge technology company that has the highest quality standards within the field of surface metrology

Sensofar provides high-accuracy optical profilers based on confocal, interferometry, and focus variation techniques, from standard setups for R&D and quality inspection laboratories to complete non-contact metrology solutions for in-line production processes. The Sensofar Group has its headquarters in Barcelona, a European technology and innovation hub. The Group is represented in over 30 countries through a global network of partners and has its own offices in Asia, Germany, and the United Sta

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