PRECISION COATING™

The Surface Is Only the Beginning...

IonGuard© Ti360™

Ion Implantation Process for Wear Resistance

Ion Beam Assisted Deposition (IBAD) Process for Osseointegration

Precision Coating's engineered proprietary surface finishes provide state-of-the-art wear resistance & osseointegration for Orthopedic & Advanced Surgical implants & instruments.

Ti360™ with IBAD

Using Ion Beam Assisted Deposition (IBAD) surface treatment technology, ion beams are directed at a substrate, causing the ions to embed in the surface. In addition to osseointegration, this process improves surface hardness, reduces friction, and enhances other properties of the substrate. Via the IBAD process, we can deposit various metals on polymer, metal, & metal alloys.

IonGuard©

Our Ion Implantation process uses direct ion beam bombardment to create a hard, low-friction, hydrophilic surface. This low-temp process improves wear resistance without changing the surface morphology of the device.

Applications

- Medical Implants
- Titanium & Cobalt-Chromium Hip Components
- Knees, Hips, Elbows, Shoulders, & Extremeties, inc. PEEK Implants
- Fixation, Pedicle, & Interference Devices & Screws
- Small Joints

Benefits

- Wear Resistance & Osseointegration
- Improved Surface Functionality
- Maintains native benefits of PEEK implants
- Increased Surface Hardness
- Reduced Friction
- No Risk of Delamination

A master file is maintained with the FDA, supporting your regulatory efforts.