

# Dayton Coating Technologies

## Biocompatible Medical PVD Coating



Tribology lab



5 PVD coating chambers



Ultrasonic cleaning

Experienced surface treatment and PVD coater for medical instruments, orthopedics, probes, alignment devices, implants and surgical cutting tools. Coatings are biocompatible and acceptable for use with external and internal devices that come in contact with skin, tissue, bone and blood.

- FDA compliant facility to ISO 10993 standards
- All processes meet medical guidelines and performance requirements
- Over 100 NDA's and medical specifications including specific orthopedic applications
- USP class 6 biocompatibility testing of several criteria to include acute systemic exposure, cytotoxicity, sensitization, intracutaneous irritation, systemic injection

### Biocompatible Coating Family

- **nC MediCOAT:** (TiN, ZrN) Family of gold thin coatings for specialized medical devices and instruments
- **nC MediCUT:** (TiAlN, AlTiN, AlTiSiN, CrN, TiCN, AlCrN) Family of medical coatings for cutting tools and specialized applications
- Coating R&D center, expert advice and confidentiality

### Benefits:

- Improved instrument performance
- Create distinct color identification
- Decrease friction and improve wear resistance
- Barrier layer for various solutions and environmental exposures

### Advantages When Using DAYTON COATING TECHNOLOGIES

- Industry leader in coating adhesion, processes are consistently validated
- Our facility is secure, and recorded from multiple cameras 24 hrs a day
- In-house tribology lab for surface analysis by trained experts
- 100% US owned, world class PVD equipment, operated by highly trained employees
- Operations run 6 days a week, 24 hours a day, onsite visits and audits are encouraged
- Fastest delivery time, exceptional customer service with **guaranteed results**

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### DCT Biocompatible Coatings:

- **TiN** (Titanium Nitride) • **ZrN** (Zirconium Nitride) • **CrN** (Chromium Nitride) • **TiCN** (Titanium Carbo-Nitride)
- **TiAlN** (Titanium Aluminum Nitride) • **AlTiN** (Aluminum Titanium Nitride) • **AlCrN** (Aluminum Chromium Nitride)
- **TiAlSiN** (Titanium Aluminum Silicon Nitride) • **Special Coating R&D and Evaluation**