

The logo for OSANTS, featuring the letters 'O', 'S', 'A', 'N', 'T', 'S' in a bold, sans-serif font. The 'O' is white with a blue outline, while the other letters are solid blue. The background of the logo is white, which is part of a larger white banner at the top left of the page.

OSANTS

A photograph of a modern operating room. In the center is a large, white, C-shaped surgical microscope. To the left is a medical workstation with multiple monitors displaying vital signs and waveforms. In the background, there is a surgical table, several overhead surgical lamps, and a wall-mounted monitor showing chest X-rays. The room is brightly lit with a clean, clinical aesthetic.

MEDICAL COMPONENTS & SYSTEMS

2026 CATALOG

Precision Engineered Components
for Life-Critical Applications

From precision-engineered components
to fully integrated medical systems, we deliver
reliable, safe, and innovative solutions
built to meet the highest standards
of quality and performance.



Download Catalog



MEDICAL SOLUTIONS

Precision Engineered Components for Medical Devices & Equipment

OSANTS MEDICAL SUPPLY CAPABILITIES

- ✓ Global sourcing network
- ✓ ISO 13485 qualified suppliers
- ✓ Prototype through production
- ✓ Full traceability
- ✓ Regulatory documentation support
- ✓ Medical-grade manufacturing



PRECISION MACHINED COMPONENTS



- ✓ Surgical components
- ✓ Implant components
- ✓ Housings
- ✓ Fasteners



MOTION & MECHANICAL SYSTEMS



- ✓ Actuators
- ✓ Lead screws
- ✓ Bearings
- ✓ Positioning systems



ELECTRICAL & ELECTRONIC COMPONENTS



- ✓ Connectors
- ✓ Power supplies
- ✓ Sensors
- ✓ Control modules



MEDICAL DEVICE ASSEMBLIES



- ✓ Kitting
- ✓ Box builds
- ✓ Device assemblies
- ✓ Electromechanical systems



PRECISION MACHINED COMPONENTS

Engineered to exacting standards for critical medical applications.



1. CNC MACHINED PARTS



- ✔ Implant components
- ✔ Surgical instrument parts
- ✔ Orthopedic components
- ✔ Dental components



2. SHAFTS & SPINDLES



- ✔ Drive shafts
- ✔ Motor shafts
- ✔ Precision spindles
- ✔ Ground shafts



3. HOUSINGS & ENCLOSURES



- ✔ Sensor housings
- ✔ Electronic enclosures
- ✔ Device casings
- ✔ Medical instrument housings



4. PRECISION FASTENERS



- ✔ Bone screws
- ✔ Specialty fasteners
- ✔ Threaded inserts
- ✔ Locking components



5. BUSHINGS & BEARINGS



- ✔ Miniature bearings
- ✔ Bushings
- ✔ Bearing assemblies
- ✔ Wear components



6. SURFACE FINISHES



- ✔ Passivation
- ✔ Electropolishing
- ✔ Anodizing
- ✔ Medical coatings

OSANTS ADVANTAGE



TIGHT TOLERANCES



MEDICAL GRADE MATERIALS



ISO 13485 COMPLIANCE



GLOBAL SOURCING SUPPORT



MOTION & MECHANICAL SYSTEMS

Engineered Motion Solutions for Precision in Every Medical Application.



1. LINEAR MOTION SYSTEMS



- ✓ Linear guides
- ✓ Rails
- ✓ Carriages
- ✓ Slides



2. LEAD SCREWS & NUTS



- ✓ Ball screws
- ✓ Acme screws
- ✓ Precision nuts
- ✓ Assemblies



3. ACTUATORS & SLIDES



- ✓ Electric actuators
- ✓ Miniature actuators
- ✓ Positioning slides
- ✓ Motion modules



4. COUPLINGS



- ✓ Flexible couplings
- ✓ Servo couplings
- ✓ Mini couplings
- ✓ Medical drive couplings



5. BEARINGS



- ✓ Instrument bearings
- ✓ Angular bearings
- ✓ Ceramic bearings
- ✓ Precision bearings



6. GEARS & GEARBOXES



- ✓ Planetary gearboxes
- ✓ Spur gears
- ✓ Worm gears
- ✓ Drive systems

OSANTS ADVANTAGE



PRECISION MOTION



REPEATABLE ACCURACY



MEDICAL DEVICE READY



PRODUCTION SCALABILITY



MEDICAL DEVICE ASSEMBLIES

Integrated Solutions for Advanced Medical Devices



1. KITTING & INTEGRATION



- ✓ Custom kitting
- ✓ Component integration
- ✓ Subassembly builds
- ✓ System integration



2. BOX BUILDS



- ✓ Enclosure assembly
- ✓ PCB installation
- ✓ Wiring & cabling
- ✓ Functional testing



3. DEVICE ASSEMBLIES



- ✓ Electromechanical assembly
- ✓ Final assembly
- ✓ System configuration
- ✓ Calibration & test



4. ELECTROMECHANICAL SYSTEMS



- ✓ Motion system integration
- ✓ Sensor integration
- ✓ Control system integration
- ✓ Performance validation

OSANTS ADVANTAGE



ENGINEERING SUPPORT



ISO 13485 COMPLIANT



QUALITY ASSURANCE



END-TO-END SOLUTIONS



ELECTRICAL & ELECTRONIC COMPONENTS

High-Reliability Components for Critical Medical Applications



1. CABLE ASSEMBLIES



- ✓ Custom cables
- ✓ Patient cables
- ✓ Data cables
- ✓ Power cables

2. CONNECTORS



- ✓ Circular connectors
- ✓ Push-pull connectors
- ✓ Disposable connectors
- ✓ Sealed connectors

3. POWER SUPPLIES



- ✓ Medical AC/DC
- ✓ External supplies
- ✓ Embedded supplies
- ✓ Battery chargers

4. SENSORS



- ✓ Pressure sensors
- ✓ Flow sensors
- ✓ Temperature sensors
- ✓ Position sensors

5. CONTROL MODULES



- ✓ Embedded controls
- ✓ PCB assemblies
- ✓ Interface modules
- ✓ Control boards

OSANTS ADVANTAGE



EMI/EMC COMPLIANCE



HIGH RELIABILITY ELECTRONICS



TESTED COMPONENTS



FULL TRACEABILITY



OSANTS

ENGINEERED SOLUTIONS FOR MEDICAL COMPONENTS & SYSTEMS

BUILT FOR PRECISION. DESIGNED FOR LIFE.

OSANTS is a trusted partner for precision-engineered components and systems for the medical industry. We deliver innovative, high-quality solutions that ensure safety, reliability, and performance in critical healthcare applications.

SURGICAL INSTRUMENTS

Precision Components for Surgical Tools & Devices

DIAGNOSTIC EQUIPMENT

Components for Imaging, Ultrasound & Lab Equipment

ORTHOPEDIC SOLUTIONS

Implant Components, Surgical Guides & Fixation Systems

MEDICAL DEVICES

Custom Parts for Pumps, Monitors, Infusion & Life Support Devices

PHARMACEUTICAL SYSTEMS

Components for Drug Delivery, Packaging & Manufacturing Equipment

COMPONENTS & SYSTEMS SOLUTIONS

- ✓ Precision Machined Parts
- ✓ Motors & Actuators
- ✓ Gears & Gearboxes
- ✓ Bearings & Seals
- ✓ Sensors & Switches
- ✓ Fasteners & Retention Systems
- ✓ Fluid Handling Components
- ✓ Enclosures & Housings
- ✓ Custom Assemblies

ENGINEERING & DESIGN SUPPORT

- ✓ Concept Development
- ✓ CAD / 3D Modeling
- ✓ Design for Manufacturability
- ✓ FEA & Simulation
- ✓ Prototyping & Validation
- ✓ Custom Component Design
- ✓ Regulatory Compliance Support
- ✓ Technical Documentation

MANUFACTURING EXCELLENCE

- ✓ CNC Machining
- ✓ Swiss & Multi-Axis Turning
- ✓ Precision Grinding
- ✓ Laser Cutting
- ✓ Micro Machining
- ✓ Medical Grade Plastics
- ✓ Cleanroom Assembly
- ✓ Quality Manufacturing

QUALITY & REGULATORY COMPLIANCE

- ✓ ISO 13485 Certified
- ✓ FDA Registered
- ✓ Design History File (DHF)
- ✓ Risk Management (ISO 14971)
- ✓ Verification & Validation
- ✓ Material Traceability
- ✓ RoHS & REACH Compliant
- ✓ 100% Quality Inspection

LOGISTICS & SUPPLY CHAIN SOLUTIONS

- ✓ Global Sourcing
- ✓ Supplier Management
- ✓ Inventory Management
- ✓ Logistics Coordination
- ✓ JIT & Kanban Support
- ✓ On-Time Delivery
- ✓ Packaging Solutions
- ✓ Export Documentation
- ✓ After-Sales Support

STANDARDS & CERTIFICATIONS – CERTIFIED SUPPLIER PER ISO 13485



ISO
13485
Medical Devices



FDA
Registered
Facility



CE
Certified



RoHS
Compliant



UKCA
Certified

OSANTS ADVANTAGES

- ✓ Specialized in medical components & systems
- ✓ High precision, reliability & biocompatibility
- ✓ Custom solutions for complex medical applications
- ✓ Strict quality & regulatory compliance
- ✓ Scalable manufacturing & global supply chain
- ✓ Partnering for innovation & patient safety



DOWNLOAD PDF CATALOGS
AT [OSANTS.COM](https://www.osants.com)



projects@osants.com



(418) 845-8388



[OSANTS.COM](https://www.osants.com)

