



ROBOTICS SOLUTIONS

Precision Engineered Components
& Complete Robotics Solutions

From precision-engineered components to fully integrated robotics solutions, we deliver high-performance parts, assemblies, and systems that power innovation, enhance reliability, and keep your operation moving forward.



Precision
Engineering



Reliable
Performance



Globally
Sourced



Driving
Innovation



PRECISION MOTION & POWER TRANSMISSION SOLUTIONS

POWER. PRECISION. PERFORMANCE.

Engineered motion control and mechanical solutions delivering accuracy, reliability, and efficiency for advanced robotics and automation systems.



HIGH-PRECISION COMPONENTS ENGINEERED FOR AUTOMATED MOTION SYSTEMS



ROBOTIC MOTION COMPONENTS

- ✓ Precision Gearboxes
- ✓ Harmonic Drives
- ✓ Servo Couplings
- ✓ Timing Pulley Systems
- ✓ Linear Guide Systems
- ✓ Ball Screws
- ✓ Bearing Assemblies



STRUCTURAL & MECHANICAL COMPONENTS

- ✓ Robotic Arm Fabrications
- ✓ Machined Aluminum Structures
- ✓ Welded Support Frames
- ✓ Mounting Brackets
- ✓ Protective Guarding Systems
- ✓ Conveyor Support Structures



HIGH-PRECISION MANUFACTURING

- ✓ CNC Machining
- ✓ Precision Grinding
- ✓ Laser Cutting
- ✓ Robotic Welding
- ✓ Surface Treatments
- ✓ Tight-Tolerance Assemblies



PRECISION ENGINEERED

Designed for exceptional accuracy, smooth operation, and long-term performance in motion-critical applications.



BUILT FOR RELIABILITY

High-quality materials and advanced manufacturing ensure durability and consistent performance.



OPTIMIZED FOR EFFICIENCY

Engineered solutions that reduce vibration, minimize wear, and maximize system efficiency.



SEAMLESS INTEGRATION

Components and assemblies designed to integrate seamlessly with robotic and automation systems.



QUALITY ASSURED

Rigorous inspection and testing ensure every component meets the highest quality and precision standards.



SMART AUTOMATION & CONTROL SOLUTIONS

CONNECT. AUTOMATE. OPTIMIZE.

Intelligent electrical and automation systems engineered to increase productivity, improve reliability, and power the future of robotics.



INTEGRATED ELECTRICAL & CONTROL SYSTEMS FOR MODERN INDUSTRIAL AUTOMATION



ELECTRICAL SYSTEMS

- ✓ Wire Harnesses
- ✓ Industrial Connectors
- ✓ Cable Assemblies
- ✓ Junction Boxes
- ✓ Power Distribution Systems
- ✓ Sensor Wiring Systems



AUTOMATION & CONTROLS

- ✓ PLC Control Panels
- ✓ HMI Interfaces
- ✓ Servo Drive Systems
- ✓ Motor Controllers
- ✓ Sensor Integration
- ✓ Safety Control Systems



ROBOTICS INTEGRATION COMPONENTS

- ✓ End-of-Arm Tooling Interfaces
- ✓ Pneumatic Control Systems
- ✓ Vision System Mounts
- ✓ Robot Cell Integration Hardware
- ✓ Automated Inspection Systems



QUALITY & VALIDATION

- ✓ Electrical Continuity Testing
- ✓ Load Testing
- ✓ Functional Testing
- ✓ Environmental Testing
- ✓ OEM Compliance Verification



BUILT FOR RELIABILITY

High-quality components and engineering deliver long-term performance in demanding automation environments.



SEAMLESS INTEGRATION

Systems designed for easy integration with robots, PLCs, sensors, and factory automation networks.



INCREASE PRODUCTIVITY

Smart control solutions that improve cycle times, uptime, and overall equipment effectiveness.



SAFETY & COMPLIANCE

Engineered to meet global safety standards and ensure operator protection in automated workcells.



TESTED. VERIFIED. TRUSTED.

Rigorous testing and validation ensure reliability, quality, and compliance at every stage of production.



COMPLETE ROBOTIC SYSTEM ASSEMBLIES

ENGINEERED. INTEGRATED. DELIVERED.

End-to-end assembly and turnkey solutions that streamline deployment, reduce risk, and deliver maximum performance.



FROM INDIVIDUAL COMPONENTS TO FULLY INTEGRATED ROBOTIC SYSTEMS



PRE-ASSEMBLED AUTOMATION SYSTEMS

- ✓ Robotic Work Cells
- ✓ Conveyor Assemblies
- ✓ Pick-and-Place Systems
- ✓ Material Handling Systems
- ✓ Safety Enclosure Systems
- ✓ Vision Inspection Stations



OEM MANUFACTURING SUPPORT

- ✓ Build-to-Print Manufacturing
- ✓ Multi-Component Kit Assemblies
- ✓ Global Sourcing Coordination
- ✓ Production Scaling Support
- ✓ Supplier Management
- ✓ Inventory Reduction Programs



LOGISTICS & SUPPLY CHAIN SOLUTIONS

- ✓ Consolidated Global Shipping
- ✓ Packaging Optimization
- ✓ Container Loading Solutions
- ✓ Vendor Coordination
- ✓ Quality Release Management



TURNKEY SOLUTIONS

Complete system integration from concept to commissioning, ready for production.



BUILT FOR PERFORMANCE

Engineered assemblies tested for reliability, precision, and seamless operation.



SCALABLE & FLEXIBLE

Solutions that scale with your needs and adapt to evolving production demands.



GLOBAL REACH

Worldwide manufacturing and logistics support to deliver where and when you need it.



QUALITY ASSURED

Rigorous testing, documentation, and quality processes ensure systems you can trust.

ENGINEERED SOLUTIONS FOR ROBOTICS COMPONENTS & SYSTEMS

BUILT FOR PERFORMANCE. DESIGNED FOR RELIABILITY.

OSANTS is a trusted partner for robotics components and systems. We work with qualified manufacturers to deliver precision-engineered products that ensure reliability, accuracy, and maximum performance in the world's most demanding robotics applications.

INDUSTRIAL ROBOTS

Automation & Productivity

COLLABORATIVE ROBOTS

Safe Human Collaboration

MOBILE ROBOTS

AGV / AMR Solutions

MEDICAL ROBOTS

Precision & Reliability

SERVICE ROBOTS

Intelligent Automation



COMPONENTS & SYSTEMS SOLUTIONS

- ✓ Actuators & Drives
- ✓ Gearboxes & Reducers
- ✓ Sensors & Vision Systems
- ✓ End Effectors & Grippers
- ✓ Linear Motion Components
- ✓ Motion Control Systems
- ✓ Cables & Cable Carriers
- ✓ Power Supplies & Units
- ✓ Control Panels & Enclosures
- ✓ Custom Assemblies



ENGINEERING & DESIGN SUPPORT

- ✓ Concept & Feasibility Study
- ✓ CAD / 3D Modeling
- ✓ Kinematics & Simulation
- ✓ Custom Component Design
- ✓ DFM & DFA Analysis
- ✓ Prototype Development
- ✓ Performance Optimization
- ✓ Value Engineering
- ✓ Technical Documentation



MANUFACTURING EXCELLENCE

- ✓ Precision Machining
- ✓ CNC Turning & Milling
- ✓ Advanced Fabrication
- ✓ Robotic Welding
- ✓ Surface Treatment
- ✓ 3D Printing / Additive Mfg.
- ✓ Assembly & Integration
- ✓ Testing & Calibration
- ✓ Quality Manufacturing



QUALITY & TESTING ASSURANCE

- ✓ Dimensional Inspection
- ✓ In-Process Verification
- ✓ Functional Testing
- ✓ Load & Endurance Testing
- ✓ Electrical Safety Testing
- ✓ Environmental Testing
- ✓ Traceability & Reporting
- ✓ Compliance Documentation
- ✓ Continuous Improvement



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 9001 / ISO 14001



ISO 9001
Quality
Management



ISO 14001
Environmental
Management



RoHS
Compliant



CE
Certified



UL
Certified



OSANTS ADVANTAGES

- ✓ Specialized in robotics components & systems
- ✓ High precision, accuracy & repeatability
- ✓ Custom solutions for any robotics application
- ✓ Tested for reliability, durability & long service life
- ✓ End-to-end support from concept to production
- ✓ Reliable global supply chain partnerships



ACTUATORS & DRIVES



GEARBOXES & REDUCERS



SENSORS & VISION SYSTEMS



END EFFECTORS & GRIPPERS



LINEAR MOTION COMPONENTS



MOTION CONTROLLERS & DRIVE SYSTEMS



CABLES & CABLE CARRIERS



POWER SUPPLIES & CONTROL PANELS



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