

OSANTS

ENGINEERED COMPONENTS. UNLIMITED POSSIBILITIES.

2026 CATALOG OF COMPONENTS



METALS

Fabricated, machined and formed metal components.



TRANSMISSIONS

Gearboxes, sprockets, chain and drive solutions.



FIBERGLASS

Durable, lightweight composite solutions built to last.



ASSEMBLIES

Integrated assemblies delivered ready to perform.



ELECTRIC

Motors, generators and electromechanical solutions.



ELECTRONICS

Control systems, PCBs, sensors and electronic solutions.



COMBUSTION

Engineered combustion systems and components for reliable power.



HYDRAULICS

Hydraulic components and systems that deliver power.



OSANTS.COM



PROJECTS@OSANTS.COM



(418) 845-8388

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ASSEMBLIES SOLUTIONS

— 2026 CATALOG —

ENGINEERED TO MEET YOUR REQUIREMENTS



COMPLETE KITS.
EVERYTHING YOU NEED.



ENGINEERED FOR
EASY ASSEMBLY.



BUILT FOR QUALITY.
BUILT TO LAST.



STREAMLINE PRODUCTION.
DRIVE PERFORMANCE.



SEMI-TRAILER KIT



TRAILER KIT



HOIST KIT



SUSPENSION SUPPORT KIT



CHAIR FRAME WITH
MOTORS & ACTUATORS KIT



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WHAT ARE ASSEMBLIES?

ASSEMBLIES AS KITS

Assemblies are pre-packaged sets of components designed for easy assembly and integration into larger systems or finished products.

WHY MANUFACTURERS CHOOSE ASSEMBLY KITS

-  Delivered as complete packages
-  Reduce sourcing complexity
-  Simplify production planning
-  Ensure component compatibility
-  Improve consistency across builds

OSANTS ASSEMBLY SOLUTIONS

OSANTS specializes in production and delivery of ready-to-assemble kits and high-value pre-assembled solutions that **help manufacturers improve efficiency** and scalability.

EXPLODED VIEW OF AN ASSEMBLY KIT



BENEFITS OF ASSEMBLIES SOLUTIONS

ENGINEERED TO STREAMLINE MANUFACTURING



REDUCED MANUFACTURING COMPLEXITY

All necessary parts arrive in one package, eliminating the need for multiple suppliers and purchase orders.



ENHANCED QUALITY CONTROL

Every component is manufactured and inspected to the same standards.



LOWER INVENTORY COSTS

Fewer individual part numbers to manage and stock.



FASTER PRODUCTION CYCLES

Assembly kits reduce preparation time and improve workflow efficiency.



CUSTOMIZABLE SOLUTIONS

Assemblies can be tailored to specific customer requirements, designs, and applications.

OSANTS



THE ASSEMBLY MANUFACTURING PROCESS

FROM ENGINEERING TO DELIVERY



A proven, end-to-end process that ensures precision, quality, and on-time delivery of assembly solutions that drive your success.



ASSEMBLY CATEGORIES & INDUSTRY APPLICATIONS



GENERAL CATEGORIES



TRANSPORTATION

- Semi-trailers
- Commercial trailers
- Heavy-duty hauling equipment



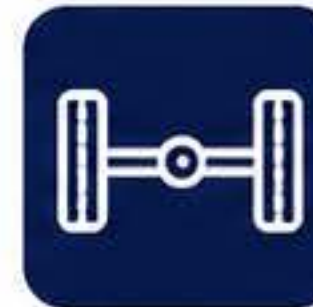
INDUSTRIAL EQUIPMENT

- Hoisting systems
- Material handling equipment
- Manufacturing machinery



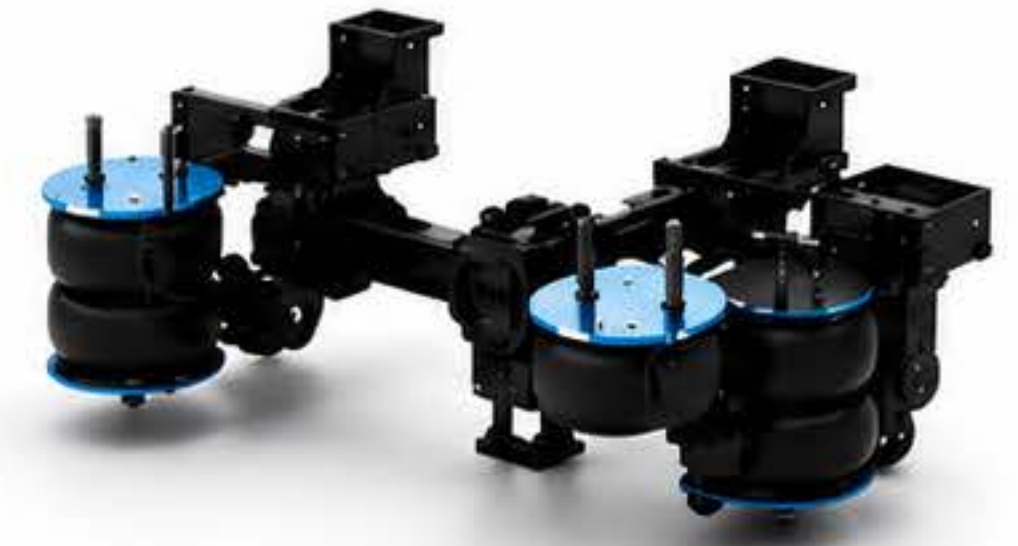
MOBILITY & SEATING SYSTEMS

- Powered seating platforms
- Actuator-driven assemblies
- Ergonomic systems



HEAVY VEHICLE COMPONENTS

- Suspension systems
- Chassis support structures
- Load-bearing assemblies



SEMI-TRAILER KITS

COMPLETE SEMI-TRAILER ASSEMBLY SOLUTIONS



Designed for OEMs and trailer manufacturers seeking efficient, ready-to-assemble solutions.



FEATURES

- ✓ Precision-manufactured components
- ✓ Consistent dimensional accuracy
- ✓ Simplified assembly process
- ✓ Durable construction for demanding applications



BENEFITS

- ✓ Reduced production time
- ✓ Improved quality consistency
- ✓ Streamlined supply chain management
- ✓ Faster market delivery



APPLICATIONS

- ✓ Flatbeds
- ✓ Freight transportation
- ✓ Logistics fleets
- ✓ Specialized hauling equipment



SANTS

TRAILER KITS

READY-TO-ASSEMBLE TRAILER SYSTEMS

Comprehensive trailer assembly kits engineered for reliability and ease of installation.



Built for Strength.
Designed for Performance.

FEATURES

-  Pre-packaged components
-  High-strength materials
-  Precision fit and finish
-  Scalable production support

BENEFITS

-  Simplified manufacturing
-  Lower inventory requirements
-  Consistent product quality

APPLICATIONS

-  Utility trailers
-  Commercial trailers
-  Specialized transport platforms



CHAIR FRAMES

WITH MOTORS & ACTUATORS KITS

INTEGRATED MOTION SYSTEMS

Complete assembly solutions for powered seating and motion-controlled applications.



SMOOTH. PRECISE. RELIABLE.



Tilt



Lift



Recline



Extend

SANTS



FEATURES



Integrated frame structures



Motor and actuator compatibility



Precision movement control



Reliable performance



BENEFITS



Simplified integration



Reduced assembly time



Improved manufacturing efficiency



APPLICATIONS



Powered Seating Systems



Medical Equipment



Mobility Products



Specialty Industrial Seating

HOIST KITS & SUSPENSION SUPPORT KITS



ENGINEERED SOLUTIONS. BUILT FOR PERFORMANCE.

HOIST KITS

ENGINEERED LIFTING SOLUTIONS

Designed for heavy-duty lifting and load management applications.



FEATURES



Robust structural components



Precision-engineered mechanisms



Long service life

APPLICATIONS



Construction equipment



Industrial lifting systems



Material handling operations

SUSPENSION SUPPORT KITS

CRITICAL VEHICLE SUPPORT SYSTEMS

Designed to improve stability, performance, and load distribution.



FEATURES



High-strength support structures



Precision mounting interfaces



Durable operating performance

APPLICATIONS



Heavy-duty trailers



Commercial vehicles



Transportation equipment

OSANTS

PARTNER WITH OSANTS FOR CUSTOM ASSEMBLIES SOLUTIONS

WHY CHOOSE OSANTS?



PREMIUM QUALITY MANUFACTURING

Built to meet the
highest standards.



PRECISION MACHINED COMPONENTS

Tight tolerances for
optimal performance.



CUSTOMIZED ASSEMBLY PROGRAMS

Tailored solutions for
your unique needs.



RELIABLE & DURABLE SOLUTIONS

Engineered for strength,
reliability & longevity.



GLOBAL MANUFACTURING SUPPORT

Delivering value
where you need it.



GET IN TOUCH



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ENGINEERED SOLUTIONS. *BUILT TO PERFORM.*

QUALITY • PRECISION • RELIABILITY • INNOVATION

COMBUSTION

2026 CATALOG

CUSTOM SOLUTIONS ENGINEERED TO
MEET YOUR REQUIREMENTS

OSANTS Sources **Custom** components
for combustion engines.

OSANTS

CYLINDERS



BUILT TO ENDURE.
MADE TO PERFORM.

PISTONS



POWER IN MOTION.
PRECISION IN EVERY STROKE.

CRANKSHAFTS



ENGINEERED
FOR BALANCE.
BUILT FOR STRENGTH.

SPARK PLUGS



IGNITE POWER.
DRIVE PERFORMANCE.

FUEL INJECTORS



PRECISION DELIVERY.
MAXIMUM EFFICIENCY.

VALVES



CONTROL FLOW.
MAXIMIZE POWER.



LET'S BUILD
WHAT'S NEXT. TOGETHER.



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ENGINE COMBUSTION SYSTEM

HOW IT WORKS & WHERE IT POWERS PERFORMANCE

A precisely engineered combustion system delivers the perfect balance of air, fuel, and ignition to create power. Every component works in harmony to ensure efficient combustion, maximum performance, and emissions control.

OSANTS Sources **CUSTOM** components for combustion engines.



CYLINDERS

Precision-bored chambers that contain the combustion process and guide piston movement for consistent power and efficiency.



SPARK PLUGS

Deliver a high-voltage spark at the right time to ignite the air-fuel mixture for smooth, powerful, and efficient combustion.



FUEL INJECTORS

Atomize and deliver the precise amount of fuel into the combustion chamber for optimal performance and economy.



PISTONS

Move up and down to compress the air-fuel mixture and transfer combustion power to the crankshaft.



VALVES

Control the intake of air and fuel and the exhaust of gases to keep the engine running efficiently and reliably.



CRANKSHAFTS

Convert the linear motion of the pistons into rotational power that drives the wheels and accessories.



OSANTS

THE COMBUSTION PROCESS – 4 STROKE CYCLE

1 INTAKE

The intake valve opens and the piston moves down, drawing in an air-fuel mixture.



2 COMPRESSION

The valves close and the piston moves up, compressing the mixture.



3 POWER

The spark plug ignites the mixture, creating power that drives the piston down.



4 EXHAUST

The exhaust valve opens and the piston moves up, pushing out burnt gases.



HOW IT WORKS TOGETHER

1 INTAKE

Valves open to draw air into the cylinder.

2 FUEL DELIVERY

Fuel injectors deliver a precise mist of fuel.

3 COMPRESSION

Pistons compress the mixture for maximum efficiency.

4 IGNITION

Spark plugs ignite the compressed mixture.

5 POWER STROKE

Expanding gases push the piston down.

6 EXHAUST

Valves open to expel exhaust gases.



TYPICAL APPLICATIONS



VEHICLES



TRAINS



BOATS



AIRCRAFT

ENGINE PERFORMANCE

POWERED BY **PRECISION**

CUSTOM SOLUTIONS ENGINEERED TO
MEET YOUR REQUIREMENTS

OSANTS Sources **Custom** components
for combustion engines.

VALVES

CONTROL FLOW.
MAXIMIZE POWER.

-  **PRECISION AIRFLOW CONTROL**
Engineered for optimal flow and power.
-  **HEAT-RESISTANT ALLOYS**
Withstand extreme temperatures.
-  **REDUCED WEAR CHARACTERISTICS**
Built for extended service life.
-  **HIGH-RPM RELIABILITY**
Consistent performance at any speed.
-  **OPTIMIZED COMBUSTION SUPPORT**
Enhances efficiency and power output.

FUEL INJECTORS

PRECISION DELIVERY.
MAXIMUM EFFICIENCY.

-  **ACCURATE FUEL ATOMIZATION**
Ensures precise fuel delivery for optimal performance.
-  **IMPROVED COMBUSTION EFFICIENCY**
Enhances power output and overall engine efficiency.
-  **REDUCED EMISSIONS**
Helps meet strict emission standards.
-  **FAST RESPONSE TIMING**
Quick actuation for better throttle response.
-  **HIGH-PRESSURE DURABILITY**
Built to withstand extreme pressure and temperatures.

SPARK PLUGS

IGNITE POWER.
DRIVE PERFORMANCE.

-  **VOLTAGE STABILITY**
Consistent high-voltage output ensures strong, stable sparks.
-  **COMBUSTION EFFICIENCY**
Optimized spark energy improves efficiency for more power.

OSANTS

PRODUCT FEATURES

-  **PRECISION AIRFLOW CONTROL**
Engineered for optimal flow and power.
-  **HEAT-RESISTANT ALLOYS**
Withstand extreme temperatures.
-  **REDUCED WEAR CHARACTERISTICS**
Built for extended service life.
-  **HIGH-RPM RELIABILITY**
Consistent performance at any speed.
-  **OPTIMIZED COMBUSTION SUPPORT**
Enhances efficiency and power output.

APPLICATIONS



PASSENGER
VEHICLES



RACING
ENGINES



INDUSTRIAL
SYSTEMS



HEAVY-DUTY
APPLICATIONS

ADVANCED FUEL MANAGEMENT TECHNOLOGY

FLOW
ACCURACY



±1%

Ultra-precise flow control
for consistent delivery.

PRESSURE
RESISTANCE



**UP TO
3000 BAR**

Engineered for high-
pressure performance.

FUEL
ECONOMY



**UP TO
15%**

Improved fuel efficiency
for lower operating costs.

PERFORMANCE
OPTIMIZATION



**MAXIMUM
OUTPUT**

Optimized combustion for
peak power & performance.

PISTONS

POWER IN MOTION.
PRECISION IN EVERY STROKE.

KEY FEATURES

-  LIGHTWEIGHT PERFORMANCE DESIGN
-  HIGH COMPRESSION RESISTANCE
-  PRECISION-BALANCED MACHINING
-  ENHANCED COMBUSTION EFFICIENCY
-  ADVANCED THERMAL STABILITY



CYLINDERS

BUILT TO ENDURE.
MADE TO PERFORM.

PRODUCT FEATURES

-  HIGH-STRENGTH ALLOY CONSTRUCTION
-  PRECISION BORE MACHINING
-  HEAT-RESISTANT ENGINEERING
-  LONG OPERATIONAL LIFESPAN
-  OEM & AFTERMARKET COMPATIBILITY



CRANKSHAFTS

ENGINEERED FOR BALANCE.
BUILT FOR STRENGTH.



ENGINEERING ADVANTAGES

-  DYNAMIC BALANCING
-  SUPERIOR FATIGUE RESISTANCE
-  PRECISION FORGED MATERIALS
-  REDUCED VIBRATION
-  LONG CYCLE DURABILITY

PRECISION ENGINEERING PROCESS

1

FORGING



High-strength forging for superior grain flow and structural integrity.

2

PRECISION MACHINING



Advanced CNC machining ensures exact tolerances and perfect finishes.

3

PERFORMANCE TESTING



Rigorous testing for balance, strength, and real-world performance.

ENGINEERED FOR PERFORMANCE.

BUILT FOR RELIABILITY.



QUALITY ASSURANCE

Rigorous testing for maximum reliability.



WORLDWIDE SUPPLY

Global reach.
Local commitment.



FAST DELIVERY

On-time solutions you can count on.



ENGINEERING SUPPORT

Expert guidance.
Every step of the way.



LET'S BUILD
WHAT'S NEXT. TOGETHER.



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OSANTS

OSANTS delivers combustion solutions designed for durability, efficiency, and high-performance applications worldwide.

OSANTS

ELECTRIC SOLUTIONS

2026 CATALOG

CUSTOM ELECTRIC COMPONENT SOLUTIONS

PRECISION ENGINEERED
FOR EVERY INDUSTRY

PROM CONCEPT TO PERFORMANCE.
BUILT TO POWER YOUR SUCCESS.



PREMIUM QUALITY
Built to the highest
international standards



PRECISION ENGINEERED
Designed for accuracy
and optimal performance



HIGH EFFICIENCY
Engineered to maximize
performance and save energy



RELIABLE & DURABLE
Built for long service life
and demanding conditions



WIDE APPLICATIONS
Solutions for industrial,
automotive, and commercial
applications



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INDUSTRY APPLICATIONS

— INDUSTRIES WE SERVE —

**ENGINEERED SOLUTIONS.
REAL-WORLD IMPACT.**

Our advanced motion control products power critical applications across a wide range of industries.



OSANTS
ELECTRIC SOLUTIONS



MANUFACTURING



- ✓ Assembly automation
- ✓ CNC machinery
- ✓ Packaging equipment



AUTOMOTIVE



- ✓ Production lines
- ✓ Material handling
- ✓ Test systems



FOOD & BEVERAGE



- ✓ Conveyors
- ✓ Packaging systems
- ✓ Processing equipment



OIL & GAS



- ✓ Pumping systems
- ✓ Control equipment
- ✓ Hazardous environments



RENEWABLE ENERGY



- ✓ Solar tracking
- ✓ Wind systems
- ✓ Energy storage



MEDICAL & LABORATORY



- ✓ Diagnostic equipment
- ✓ Automation systems
- ✓ Precision instruments

HOW ELECTRIC COMPONENTS ARE MADE

FROM DESIGN TO PERFORMANCE

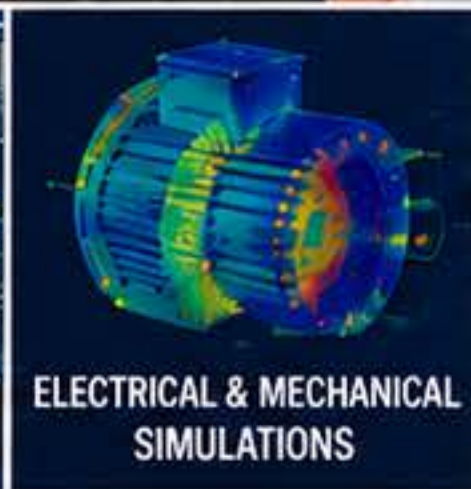
SANTS
ELECTRIC SOLUTIONS

1 ENGINEERING & DESIGN

Conceptualize. Simulate. Optimize.



CAD DESIGN



ELECTRICAL & MECHANICAL
SIMULATIONS



MATERIAL SELECTION



Product concept development



Electrical and mechanical simulations



Material selection



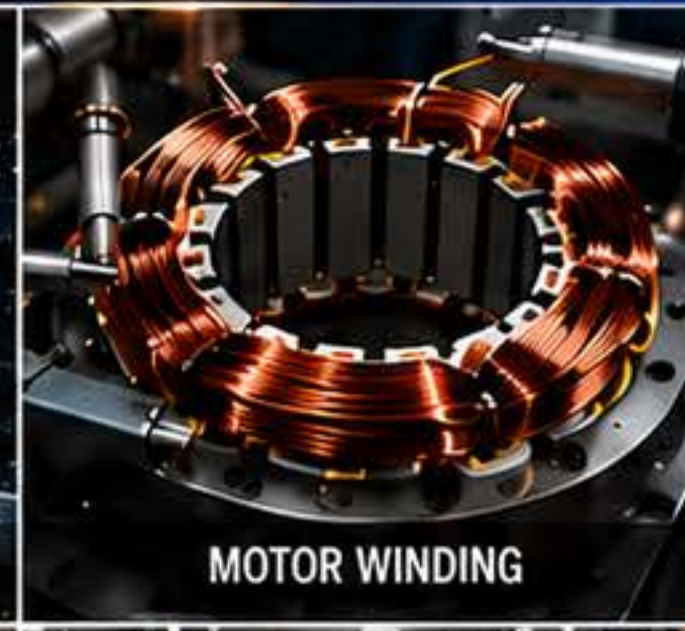
Performance testing protocols

2 MANUFACTURING

Precision. Quality. Consistency.



PRECISION MACHINING



MOTOR WINDING



WIRE HARNESS ASSEMBLY



AUTOMATED PRODUCTION LINE



Precision machining



Copper winding



Component assembly



Quality control inspections

3 TESTING & VALIDATION

Ensure Reliability. Deliver Performance.



DYNAMOMETER TESTING



ELECTRICAL TESTING



THERMAL ANALYSIS



DURABILITY TESTING



Load testing



Voltage and current verification



Durability testing



Compliance certification



ELECTRIC SOLUTIONS

YOUR TRUSTED ELECTRIC SOLUTIONS PARTNER

OSANTS delivers innovative electric motion and control solutions designed to improve productivity, precision, and operational efficiency.



PREMIUM QUALITY

Manufactured to international standards.



PRECISION ENGINEERED

Tight tolerances for optimal performance.



WIDE APPLICATIONS

Solutions for industrial, automation, and energy systems.



RELIABLE & DURABLE

Built for long service life and demanding conditions.



PRODUCT CATEGORIES OVERVIEW



AC MOTORS

High-efficiency industrial motors



DC MOTORS

Precision speed-control motors



OTHER MOTORS

Specialized motor solutions



WIRE HARNESSES

Custom electrical connectivity



ELECTRIC CLUTCHES & SOLENOIDS

Motion engagement systems



ACTUATORS

Linear motion solutions



DRIVES & CONTROLLERS

Intelligent motor control



DC MOTORS

PRECISION. POWER. PERFORMANCE.

High-performance DC motors engineered
for precision, efficiency, and reliability.

FEATURES

-  Precise speed control
-  High torque output
-  Compact design
-  Smooth operation
-  Automated systems

APPLICATIONS

-  Robotics
-  Medical equipment
-  Material handling
-  Industrial machinery
-  Automated systems

BENEFITS

-  Accurate positioning
-  Fast response times
-  Excellent controllability
-  High efficiency
-  Long service life



ENERGY TO MOTION.
BUILT TO EXCEL.



POWERING INNOVATION.
DRIVING PERFORMANCE.



EFFICIENT BY DESIGN.
POWERFUL BY NATURE.



ENGINEERED ELECTRIC.
BUILT FOR TOMORROW.

AC MOTORS

PRECISION. POWER. PERFORMANCE.

High-performance AC motors engineered for precision, efficiency, and reliability.

FEATURES

-  High efficiency
-  High starting torque
-  Compact design
-  Smooth operation
-  Built for durability

APPLICATIONS

-  Pumps
-  Compressors
-  Conveyors
-  Industrial machinery
-  HVAC systems

BENEFITS

-  Energy savings
-  Long service life
-  Reliable operation
-  Low noise & vibration
-  Low maintenance



ENERGY TO MOTION.
BUILT TO EXCEL.



POWERING INNOVATION.
DRIVING PERFORMANCE.



EFFICIENT BY DESIGN.
POWERFUL BY NATURE.



ENGINEERED ELECTRIC.
BUILT FOR TOMORROW.



ELECTRIC SOLUTIONS

SPECIALIZED MOTOR SOLUTIONS

ENGINEERED FOR PRECISION. BUILT FOR PERFORMANCE.

OVERVIEW

Tailored motor solutions designed to meet the most demanding application requirements.

From concept to commissioning, we deliver reliability, efficiency, and long-term value.



PRODUCT SOLUTIONS

- ✓ Custom Motor Design
- ✓ High-Performance Motors
- ✓ Precision Motion Systems
- ✓ Integrated Motor Assemblies
- ✓ Application-Specific Solutions



CUSTOM MOTOR
DESIGN



HIGH-PERFORMANCE
MOTORS



PRECISION MOTION
SYSTEMS



INTEGRATED MOTOR
ASSEMBLIES



APPLICATION-SPECIFIC
SOLUTIONS



APPLICATIONS

- ✓ Robotics & Automation
- ✓ Medical Equipment
- ✓ Aerospace & Defense
- ✓ Packaging Machinery
- ✓ Energy & Power Systems
- ✓ Specialized Industrial Systems



ROBOTICS &
AUTOMATION



MEDICAL
EQUIPMENT



AEROSPACE &
DEFENSE



PACKAGING
MACHINERY



ENERGY & POWER
SYSTEMS



SPECIALIZED
INDUSTRIAL SYSTEMS



BENEFITS

- ✓ Optimized Performance
- ✓ Engineered Reliability
- ✓ Energy Efficiency
- ✓ Long Service Life
- ✓ Total Lifecycle Support



OPTIMIZED PERFORMANCE

Solutions tailored for peak efficiency and precision.



ENGINEERED RELIABILITY

Built to perform consistently in the most demanding environments.



ENERGY EFFICIENCY

Designed to reduce energy consumption and operating costs.



LONG SERVICE LIFE

High-quality materials and rigorous testing ensure extended service life.



TOTAL LIFECYCLE SUPPORT

From engineering to after-sales support, we're with you every step of the way.



ENERGY TO MOTION.
BUILT TO EXCEL.



POWERING INNOVATION.
DRIVING PERFORMANCE.



EFFICIENT BY DESIGN.
POWERFUL BY NATURE.



ENGINEERED ELECTRIC.
BUILT FOR TOMORROW.

WIRE HARNESSES

BUILT FOR CONNECTION. ENGINEERED FOR PERFORMANCE.

Custom wire harness solutions designed for complex systems and demanding environments. Built to deliver reliable performance and seamless integration.

FEATURES

- Custom engineered
- High reliability
- Durable construction
- Precision assembly
- Quality materials
- Short lead times

APPLICATIONS

- Automotive
- Industrial equipment
- Medical devices
- Aerospace & defense
- Energy systems
- Robotics & automation

BENEFITS

- Reliable performance
- Cost effective
- Design flexibility
- Easy integration
- Long service life
- Global standards



POWERING CONNECTIONS.
BUILT TO PERFORM.



ENGINEERED SOLUTIONS.
DELIVERING RELIABILITY.



EFFICIENT BY DESIGN.
POWERFUL BY NATURE.



ENGINEERED ELECTRIC.
BUILT FOR TOMORROW.

ELECTRIC CLUTCHES AND SOLENOIDS

ENGINEERED TO ENGAGE. BUILT TO PERFORM.

High-performance electric clutches and solenoids designed for precise control, durable operation, and seamless integration in demanding industrial applications.

FEATURES

-  Precise engagement
-  Fast response time
-  High torque capacity
-  Low maintenance
-  Compact design
-  Long service life

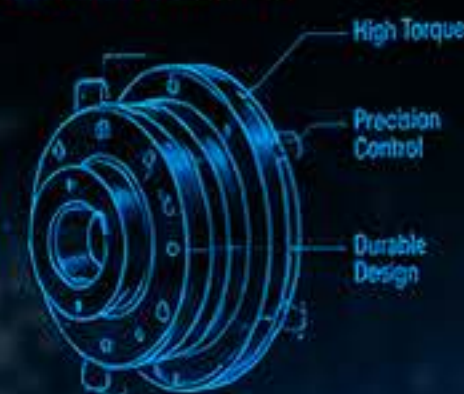
APPLICATIONS

-  Industrial machinery
-  Automotive systems
-  Material handling
-  Robotics & automation
-  Packaging equipment
-  HVAC systems

BENEFITS

-  Reliable performance
-  Energy efficient
-  Consistent operation
-  Reduced downtime
-  Easy integration
-  Cost effective

ELECTRIC CLUTCHES



SOLENOID SOLUTIONS



PERFORMANCE DATA



POWERING MOTION.
BUILT TO PERFORM.



ENGINEERED SOLUTIONS.
DELIVERING RELIABILITY.



EFFICIENT BY DESIGN.
POWERFUL BY NATURE.



ENGINEERED ELECTRIC.
BUILT FOR TOMORROW.

DRIVES AND CONTROLLERS

PRECISION CONTROL. MAXIMUM PERFORMANCE.

Advanced drives and controllers engineered for precise motor control, maximum efficiency, and seamless integration in demanding industrial applications.

FEATURES

- High performance
- Precise control
- Energy efficiency
- Compact design
- Built-in protection
- Easy commissioning
- Wide power range

APPLICATIONS

- Industrial automation
- Conveyor systems
- Pumps & fans
- HVAC systems
- Packaging machinery
- Robotics & motion
- Material handling

BENEFITS

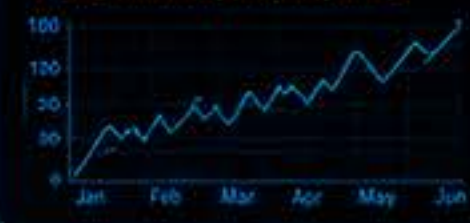
- Improved productivity
- Reduced energy usage
- Extended equipment life
- Reliable operation
- Flexible integration
- Lower total cost
- Consistent performance



SYSTEM ARCHITECTURE



PERFORMANCE MONITORING



ENERGY ANALYTICS



CONTROL MODES

- V/F Control
- Vector Control
- Servo Control
- Torque Control
- Position Control



POWERING MOTION.
BUILT TO PERFORM.



ENGINEERED SOLUTIONS.
DELIVERING RELIABILITY.



EFFICIENT BY DESIGN.
POWERFUL BY NATURE.



ENGINEERED ELECTRIC.
BUILT FOR TOMORROW.



ELECTRIC SOLUTIONS

ACTUATORS

MOTION. CONTROL. PERFORMANCE.

High-performance electric actuators engineered for precise motion control, durability, and seamless integration in demanding applications.

FEATURES

- Precise positioning
- High force output
- Compact design
- Smooth operation
- High duty cycle
- Sealed for reliability

APPLICATIONS

- Industrial automation
- Robotics
- Aerospace & defense
- Medical equipment
- Energy systems
- Material handling

BENEFITS

- Accurate control
- Increased productivity
- Long service life
- Low maintenance
- Energy efficient
- Easy integration



POWERING MOTION.
BUILT TO PERFORM.



ENGINEERED SOLUTIONS.
DELIVERING RELIABILITY.



EFFICIENT BY DESIGN.
POWERFUL BY NATURE.



ENGINEERED ELECTRIC.
BUILT FOR TOMORROW.



YOUR TRUSTED ELECTRIC SOLUTIONS PARTNER

WHY CHOOSE OSANTS?



PREMIUM QUALITY

Manufactured to international standards.



PRECISION ENGINEERED

Tight tolerances for optimal performance.



WIDE APPLICATIONS

Solutions for industrial, automation, and energy systems.



RELIABLE & DURABLE

Built for long service life and demanding conditions.



GET IN TOUCH



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POWERING PROGRESS TOGETHER

Quality. Precision. Reliability. That's OSANTS.

OSANTS ELECTRONICS 2026 CATALOG

for **PRINTED
CIRCUIT BOARDS**



INNOVATIVE
DESIGN



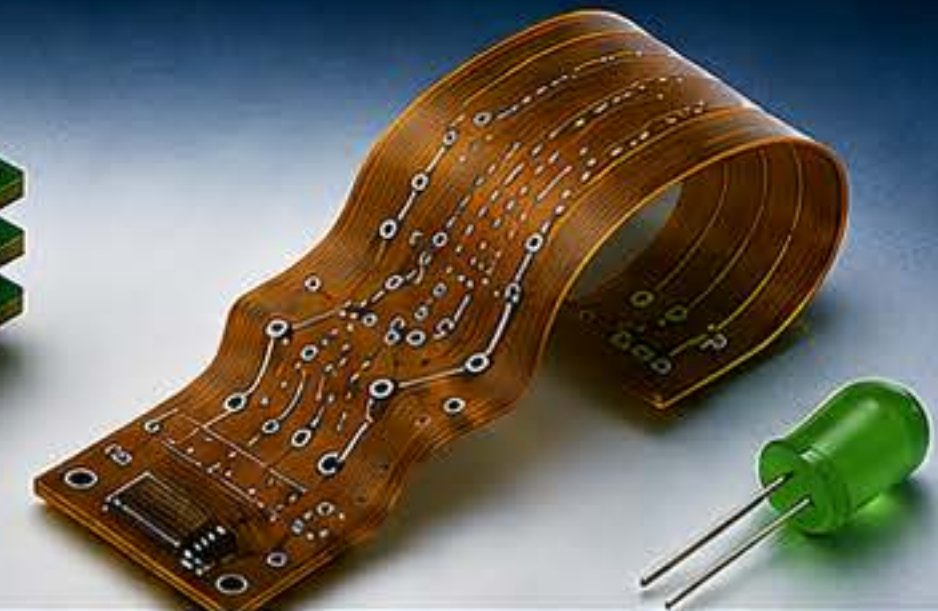
PRECISE
MANUFACTURING



QUALITY
ASSURANCE



SUSTAINABLE
SOLUTIONS



STRONG. SMART. CONNECTED.



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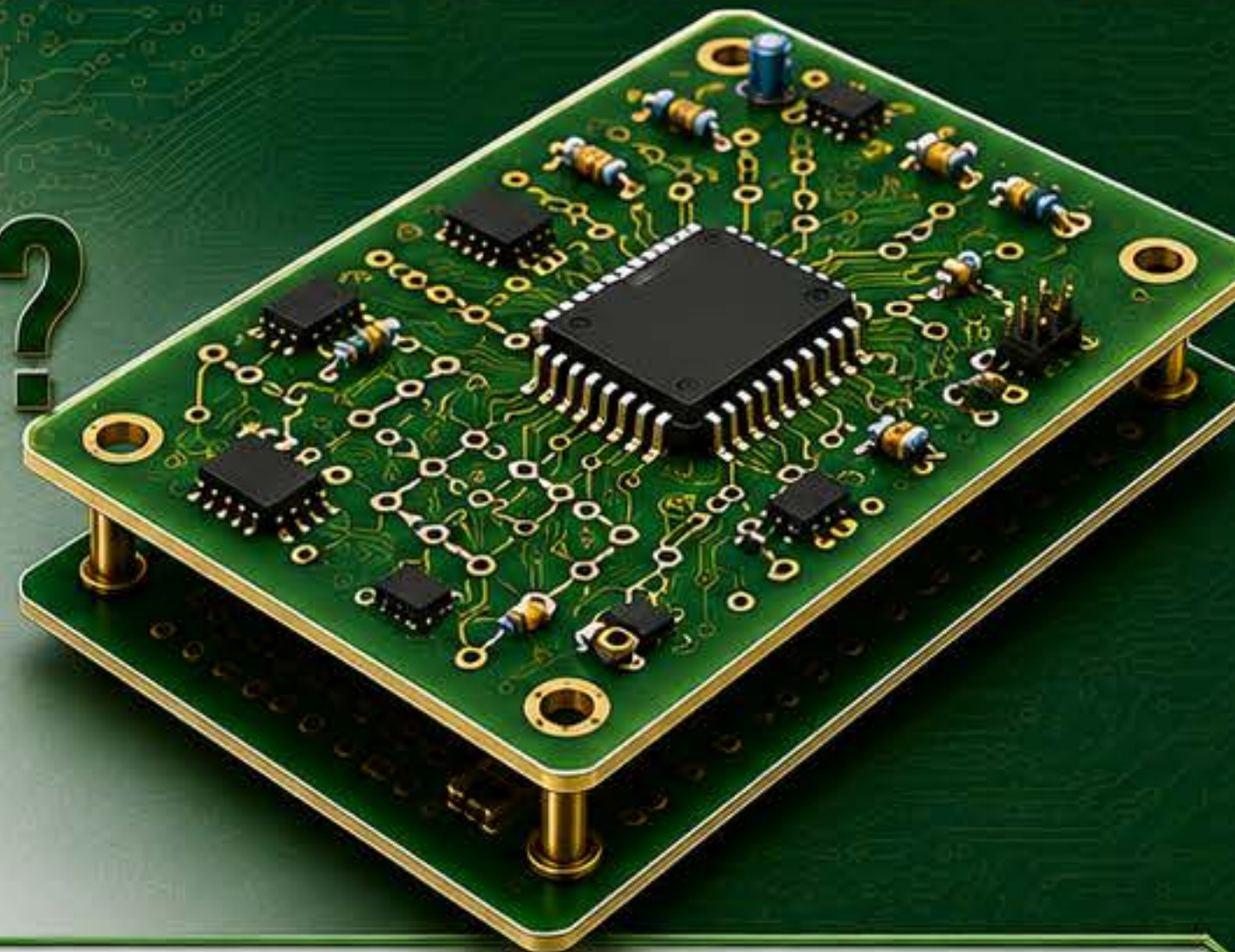
HOW IS A PCB MADE?

PRECISION. TECHNOLOGY. RELIABILITY.



THE PCB MANUFACTURING PROCESS

A Printed Circuit Board (PCB) is built through a series of carefully controlled steps that transform a blank substrate into a high-performance, reliable foundation for modern electronics.



KEY MATERIALS



Copper Clad Laminate (FR-4)
The base material that provides structure and insulation.



Copper Foil
Forms the conductive paths that connect components.



Solder Mask
Protects the copper and prevents solder bridges.



Silkscreen
Adds labels, symbols, and reference designators.

THE PCB MANUFACTURING STEPS

1 DESIGN & LAYOUT



Engineers create the PCB layout using specialized software, defining component placement and copper traces.

2 MATERIAL PREPARATION



Copper-clad laminate is cut to size and cleaned to ensure optimal adhesion for the next steps.

3 PHOTOIMAGING



A light-sensitive dry film is applied, then exposed to UV light through a photomask to transfer the circuit pattern.

4 ETCHING



Unwanted copper is removed using a chemical etchant, leaving behind the desired copper traces.

5 DRILLING



Precision drills create holes for component leads, vias, and mounting points.

6 PLATING



Holes are plated with copper to create electrical connections between layers (for multi-layer PCBs) and to pad the holes.

7 SOLDER MASK



A liquid solder mask is applied and cured, protecting the copper traces and preventing solder bridging.

8 SILKSCREEN



Component outlines, labels, and logos are printed on the board using durable silkscreen ink.

9 SURFACE FINISH



The exposed copper pads are finished with a protective layer (e.g., HASL, ENIG) to prevent oxidation and improve solderability.

10 TESTING & INSPECTION



Electrical testing and visual inspection ensure the PCB meets quality and performance standards.

BUILT FOR PERFORMANCE



From advanced design to precision manufacturing and rigorous testing, every PCB is engineered for reliability, durability, and optimal performance in demanding applications.



STRONG. SMART. CONNECTED.

OSANTS[®]

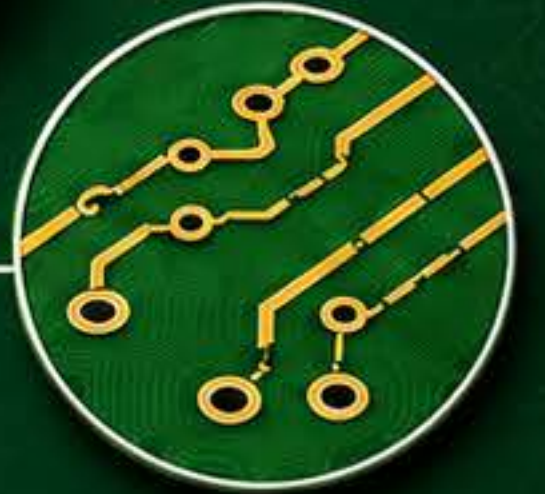
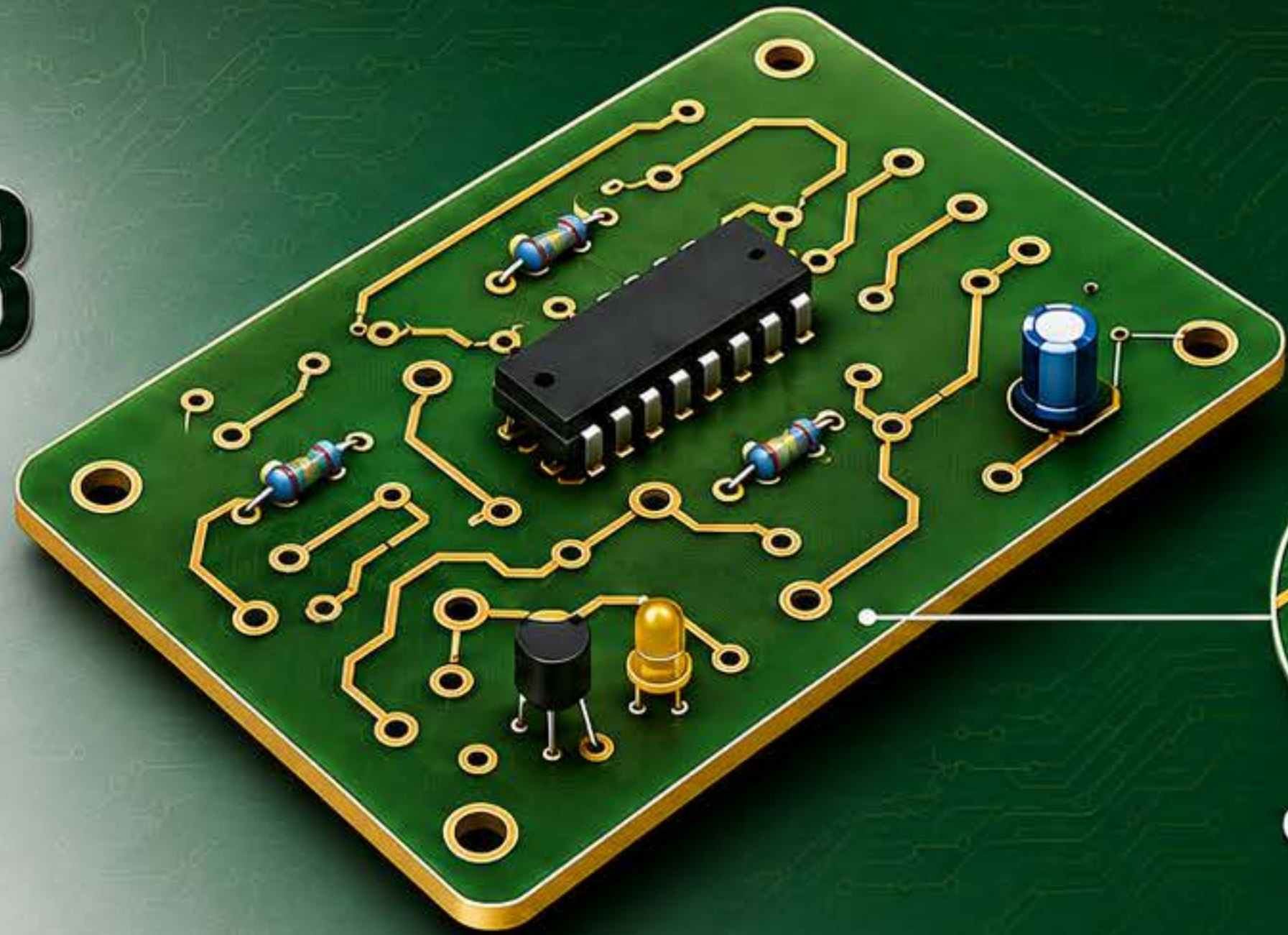
SINGLE-SIDED PCB

SIMPLE. RELIABLE. COST-EFFECTIVE.



WHAT IS A SINGLE-SIDED PCB?

A Single-Sided PCB has conductive copper traces on only one side of an insulating board. Components are mounted on the same side as the traces, making it a simple, economical, and easy-to-manufacture solution for many electronic applications.



**Copper Traces
on One Side**

KEY FEATURES



Simple & Easy to Design

Straightforward layout and manufacturing process.



Cost-Effective

Lower manufacturing cost makes it ideal for budget-friendly projects.



Reliable Performance

Fewer layers mean less complexity and high reliability for basic circuits.



Compact & Lightweight

Provides essential functionality in a simple, space-saving form.

COMMON USES



Remote Controls

Widely used in IR remotes for TVs, fans, and other home appliances.



Calculators

Perfect for basic calculators and simple electronic devices.



LED Indicators

Ideal for LED circuits, status indicators, and signal displays.



Power Supplies

Used in simple power supply units and adapters.



DIY & Education

Great choice for beginners, prototyping, and learning projects.

STRONG. SMART. CONNECTED.

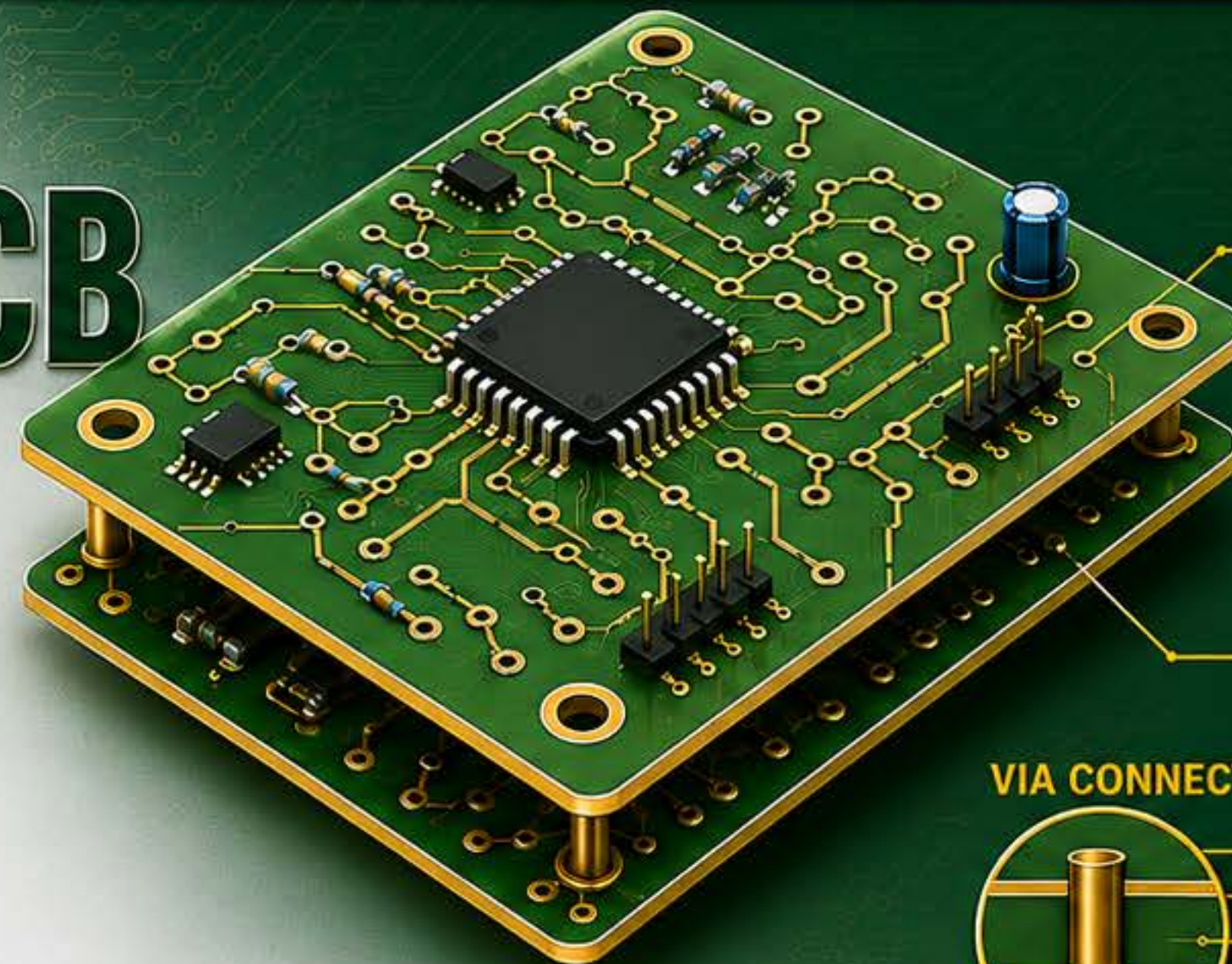
OSANTS DOUBLE-SIDED PCB

**MORE CONNECTIONS. MORE POWER.
MORE POSSIBILITIES.**

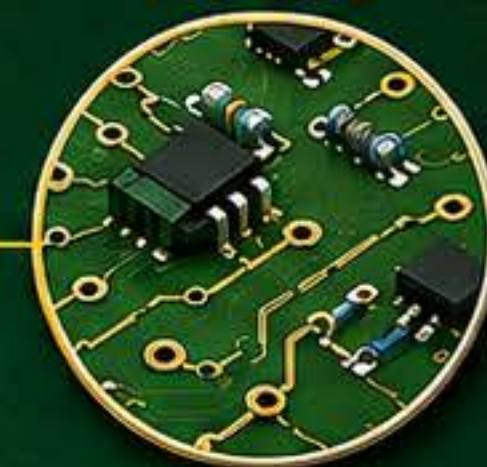


WHAT IS A DOUBLE-SIDED PCB?

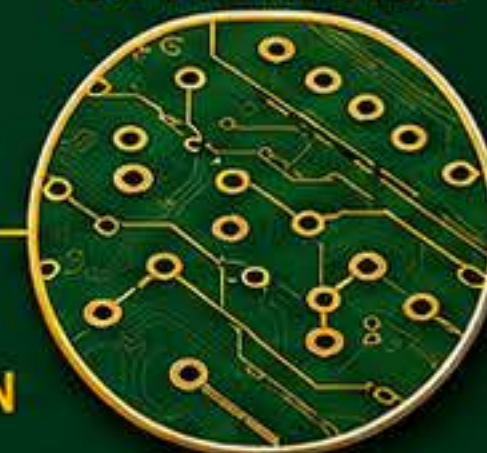
A Double-Sided PCB has conductive copper traces on both sides of an insulating board. Components are mounted on either side, and the traces are connected through plated through-holes (vias). This design allows for greater circuit density, improved performance, and more advanced functionality.



TOP SIDE



BOTTOM SIDE



VIA CONNECTION



- Top Copper Layer
- Insulating Layer
- Plated Through-Hole (Via)
- Bottom Copper Layer

KEY FEATURES



Higher Circuit Density

Use both sides for routing to accommodate more components and complex designs.



Enhanced Performance

Shorter trace lengths and better grounding improve signal integrity and reduce noise.



Design Flexibility

Ideal for advanced circuits requiring more connections and functionality.



Durable & Reliable

Built to withstand stress, vibration, temperature changes, and daily use.



Cost-Effective for Complex Designs

Offers more capability without the need for multi-layer boards in many applications.

COMMON USES



MICROCONTROLLER DEVELOPMENT BOARDS

Supports more I/O pins, sensors, and peripherals in compact designs.



POWER SUPPLY CIRCUITS

Efficient routing for high-current paths and voltage regulation.



AUDIO AMPLIFIERS

Better layout for low-noise performance and improved signal quality.



COMMUNICATION DEVICES

Ideal for RF modules, GPS, Wi-Fi, Bluetooth, and IoT devices.



INDUSTRIAL & AUTOMATION

Reliable performance in controllers, sensors, and monitoring systems.



MEDICAL DEVICES

Used in diagnostic tools, monitoring equipment, and portable devices.

STRONG. SMART. CONNECTED.

OSANTS

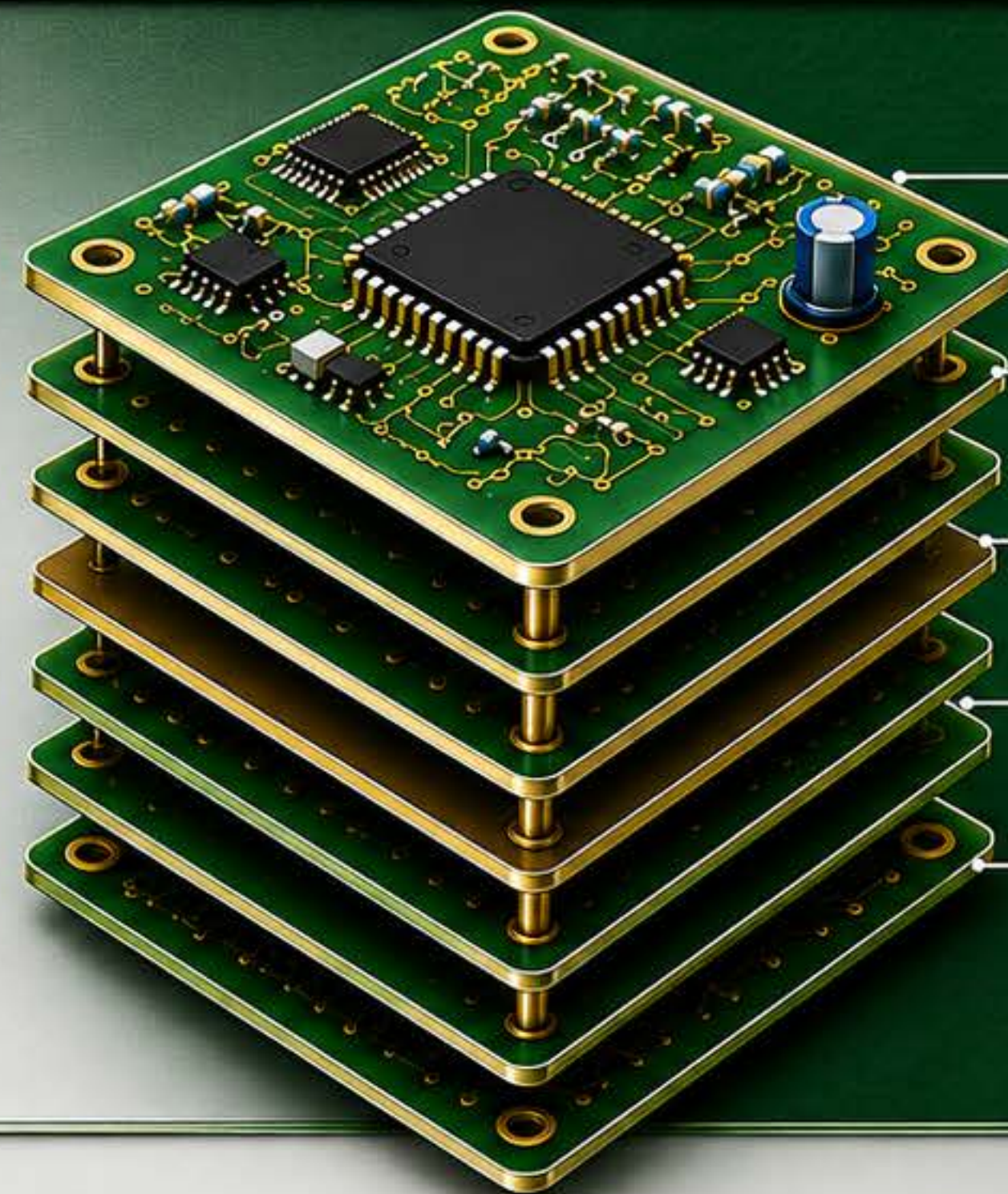
MULTI-LAYER PCB

ADVANCED DESIGN. MAXIMUM PERFORMANCE.
BUILT FOR COMPLEXITY.



WHAT IS A MULTI-LAYER PCB?

A Multi-Layer PCB consists of three or more conductive layers stacked together with insulating materials in between. Layers are interconnected using plated through-holes (vias), enabling complex circuits, high density, superior signal integrity, and efficient power distribution in a compact form factor.



TOP LAYER
Components &
Signal Routing

INNER LAYER 1
Signal Routing

INNER LAYER 2
Power Plane

INNER LAYER 3
Ground Plane

BOTTOM LAYER
Signal Routing

KEY FEATURES



High Density Interconnects

More layers allow higher component density and complex routing in smaller spaces.



Superior Signal Integrity

Dedicated power and ground planes reduce noise, crosstalk, and signal loss.



Efficient Power Distribution

Power and ground planes deliver stable voltage and current across the board.



Design Flexibility

Supports advanced circuits, high-speed signals, and mixed-signal designs.



Reliable & Durable

Built to withstand thermal stress, vibration, and demanding environments.



Optimized Performance

Ideal for high-speed, high-frequency, and high-power applications.

COMMON USES



SMARTPHONES & MOBILE DEVICES

Compact, high-density boards for powerful performance and advanced features.



NETWORKING EQUIPMENT

High-speed data transmission, complex routing, and reliable power delivery.



AUTOMOTIVE ELECTRONICS

Engine control units, safety systems, and infotainment with high reliability.



MEDICAL DEVICES

Precision instruments requiring accuracy, miniaturization, and reliability.



AEROSPACE & DEFENSE

Mission-critical systems that demand high performance and extreme reliability.



INDUSTRIAL SYSTEMS

Automation, control systems, and sensors built for rugged environments.

STRONG. SMART. CONNECTED.

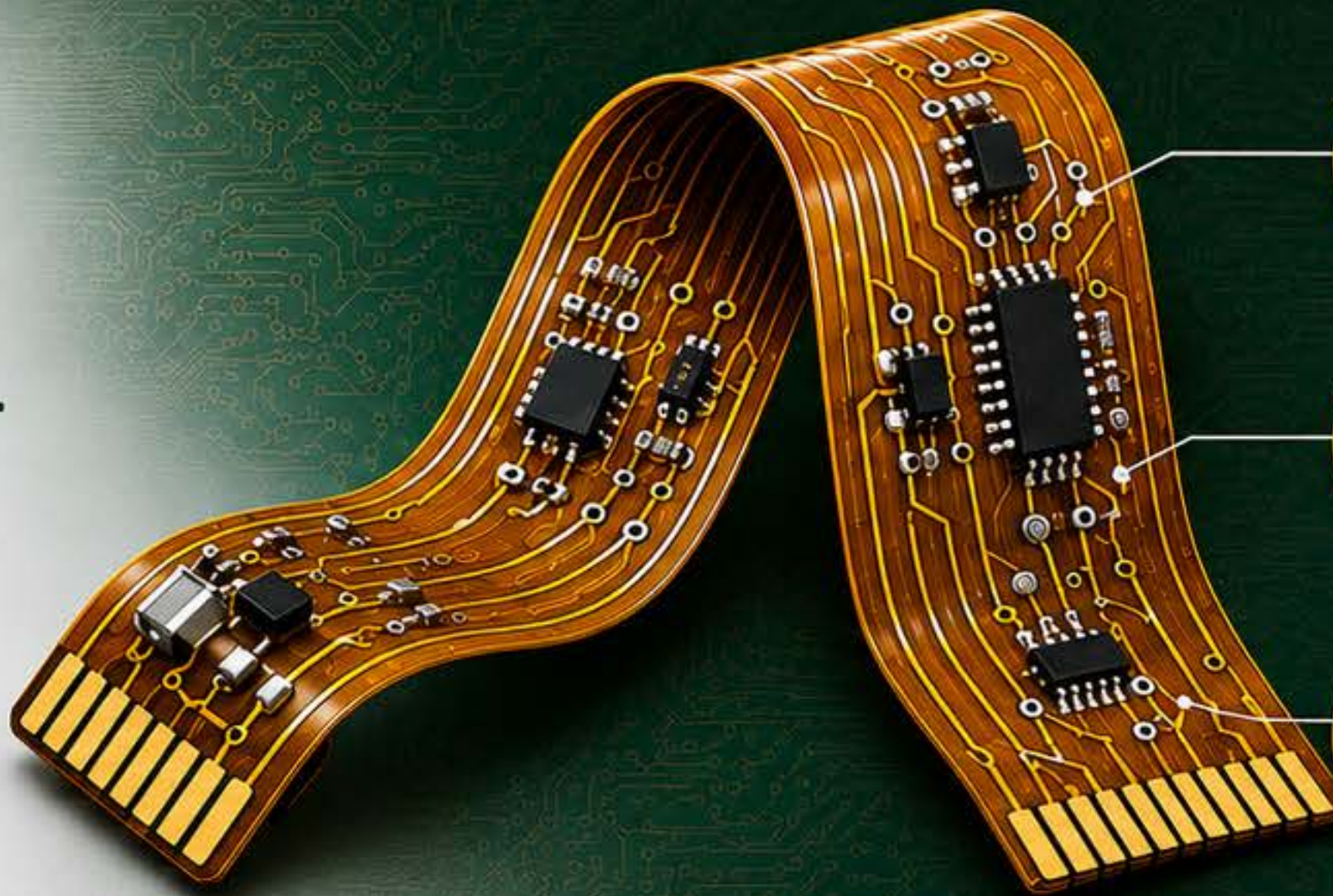
OSANTS FLEXIBLE PCB

FLEXIBLE BY DESIGN. POWERFUL BY PERFORMANCE.



WHAT IS A FLEXIBLE PCB?

A Flexible PCB is made from bendable, lightweight materials that allow the circuit to flex, twist, and fold without breaking. They are ideal for dynamic applications where space is limited and durability is essential. Flexible PCBs maintain reliable electrical performance even in continuous motion or extreme conditions.



LIGHTWEIGHT
Reduces size and weight of the final product.



FLEXIBLE & DURABLE
Withstands bending, twisting, and vibration without damage.



SPACE-SAVING
Enables complex designs in tight or compact spaces.

KEY FEATURES



High Flexibility
Bends and folds easily to fit dynamic or compact designs.



Lightweight
Uses thin, flexible materials to reduce overall weight.



High Reliability
Designed to endure millions of flex cycles and harsh conditions.



Space Efficiency
Ideal for 3D and constrained environments.



Wide Temperature Range
Performs reliably in extreme heat or cold.



Customizable Designs
Supports various shapes, sizes, and configurations.

COMMON USES



WEARABLE DEVICES

Perfect for smartwatches, fitness trackers, and other wearable electronics.



FOLDABLE DEVICES

Enables seamless connections in foldable phones, tablets, and display modules.



MEDICAL DEVICES

Used in endoscopes, hearing aids, and other compact medical equipment.



CAMERA MODULES

Ideal for compact cameras and imaging systems with tight space limits.



AUTOMOTIVE

Used in sensors, lighting, and safety systems that require high durability.



AEROSPACE & DEFENSE

Reliable performance in high-vibration and extreme environment applications.

STRONG. SMART. CONNECTED.

ENGINEERED FOR PERFORMANCE.

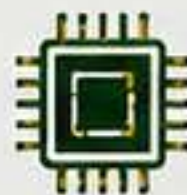
BUILT FOR RELIABILITY.

Advanced PCB solutions designed for precision, performance, and long-term reliability. From prototype to production, we deliver quality you can count on.



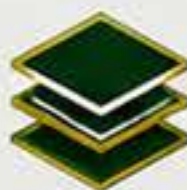
PRECISION ENGINEERED

High-precision design and manufacturing for optimal performance.



HIGH RELIABILITY

Rigorous testing ensures durability and consistent performance.



ADVANCED TECHNOLOGY

State-of-the-art equipment and processes for superior quality PCBs.



LEAD-FREE & ROHS COMPLIANT

Environmentally responsible manufacturing for a sustainable future.



OSANTS

OSANTS delivers advanced PCB solutions designed for performance, reliability, and innovation—powering your ideas from concept to completion.



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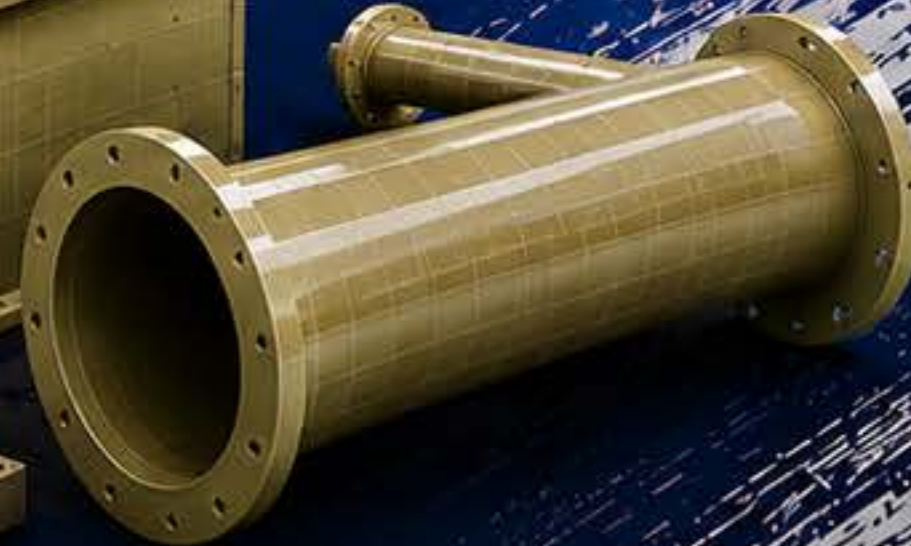
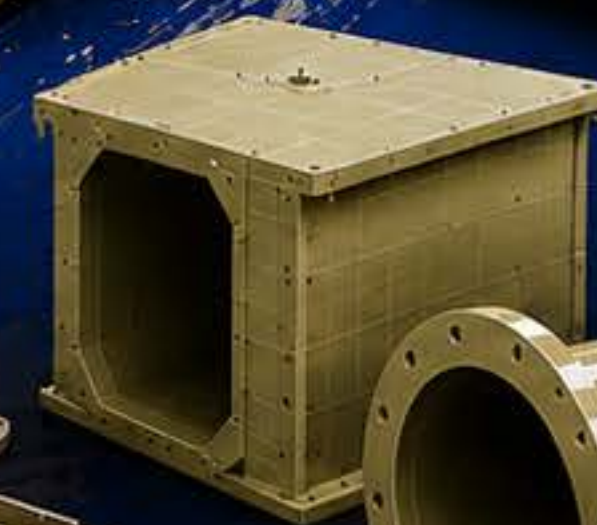
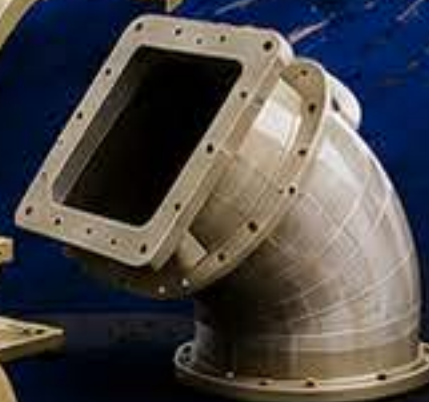
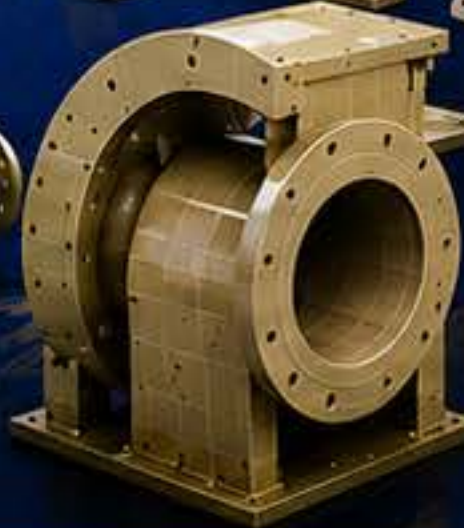
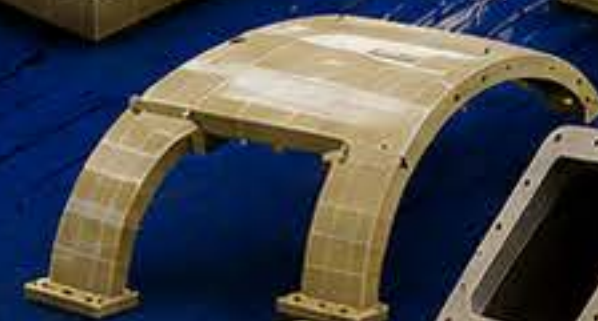
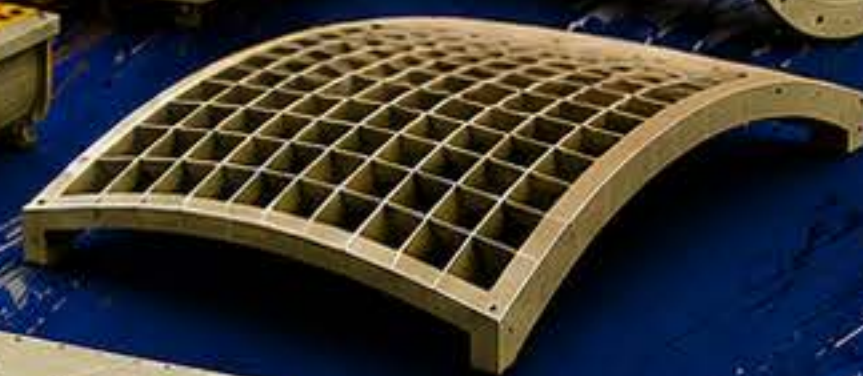
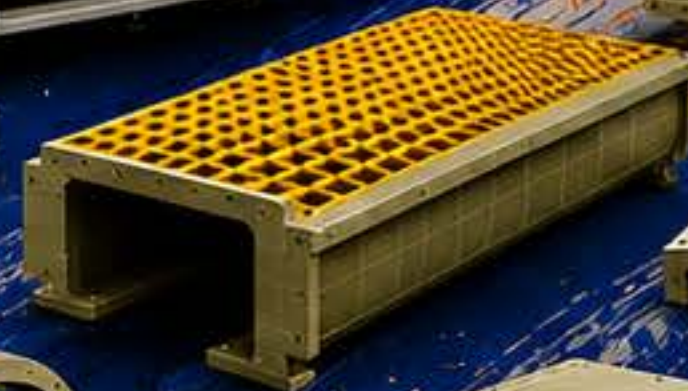
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OSANTS

FIBERGLASS 2026 CATALOG

**DURABLE. CORROSION RESISTANT.
BUILT FOR PERFORMANCE.**

Custom fiberglass components
and systems for the world's most
demanding environments.



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FIBERGLASS MANUFACTURING CAPABILITIES OF OSANTS

OSANTS specializes in fiberglass products that require skilled labor, secondary processing, and assembly operations. We support OEM customers with cost-effective manufacturing solutions for industrial and ventilation applications.



1 HAND LAY-UP MANUFACTURING

- Manual fiberglass lay-up
- Custom molds and large parts
- Ideal for industrial housings and fan shrouds
- Low-to-medium production volumes



2 SPRAY-UP / SPRAY LAY-UP

- Efficient for larger fiberglass structures
- Gel coat compatible
- Good surface finish
- Cost-effective for industrial products



3 VACUUM INFUSION & COMPOSITE SOLUTIONS

- Improved consistency and strength
- Reduced resin waste
- Suitable for structural fiberglass parts



OSANTS

SECONDARY OPERATIONS

& ASSEMBLY SERVICES

VALUE-ADDED SERVICES THAT
ENHANCE QUALITY AND PERFORMANCE

OSANTS provides a full range of secondary operations and assembly services to deliver finished, ready-to-install fiberglass components with consistency, precision, and care.



GEL COAT FINISHING



- Smooth cosmetic surfaces
- UV and corrosion protection
- Color matching options



MACHINING & TRIMMING



- CNC trimming
- Drilling and routing
- Precision finishing



ASSEMBLY SERVICES



- Hardware installation
- Bonding and fastening
- Pre-assembled subcomponents



QUALITY & PACKAGING



- Inspection processes
- Export packaging
- Container optimization

LOGISTICS ADVANTAGE SHIP SMART. SAVE MORE.

OSANTS optimizes packaging and loading to maximize space utilization and reduce shipping costs.



NESTED & STACKED
Designed for efficient nesting and stacking



CONTAINER OPTIMIZATION
Maximizing container space to reduce costs



REDUCED SHIPPING COSTS
More parts per container, less air shipped



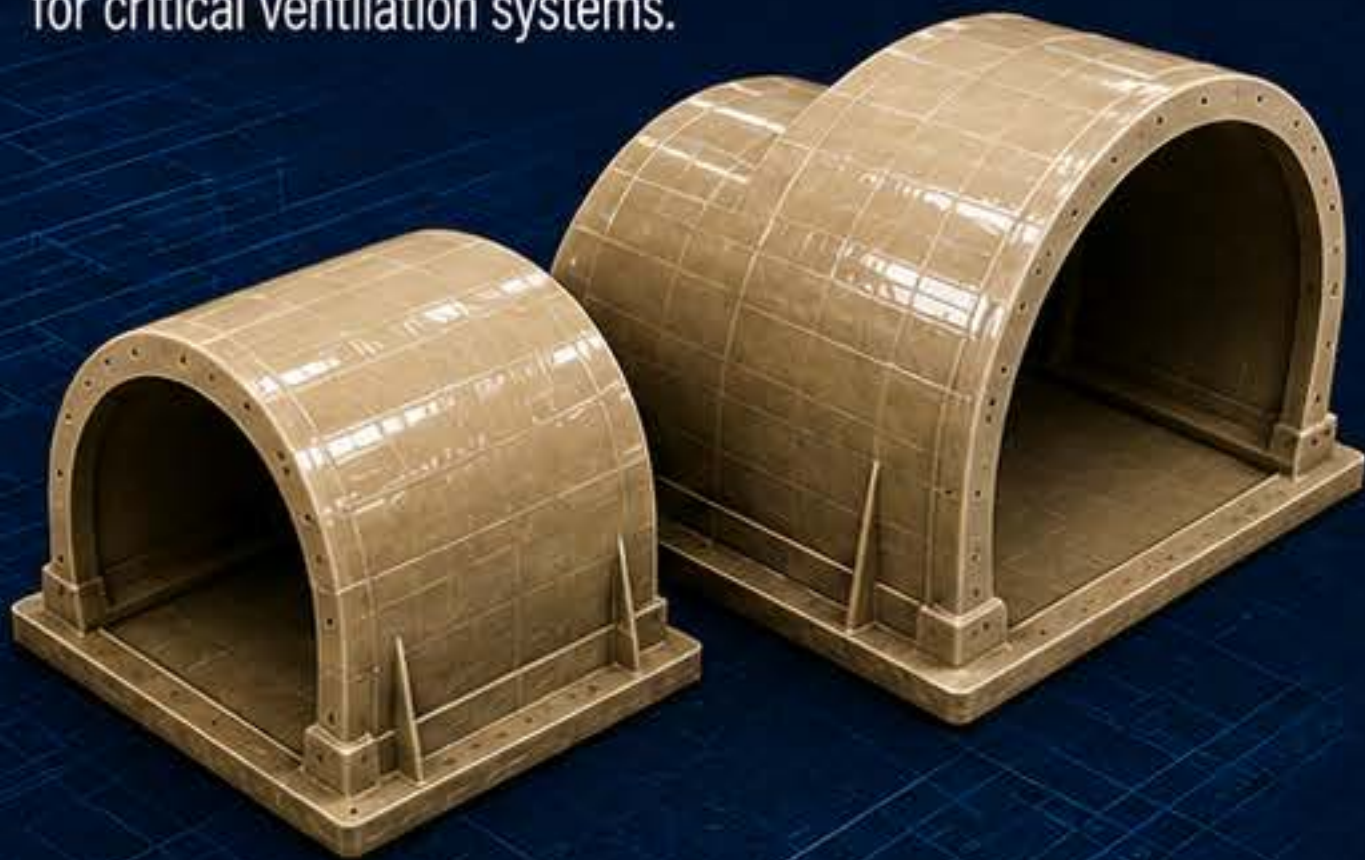


PROJECT EXAMPLE

VENTILATION FAN SHROUD PROGRAM

RECENTLY SUPPLIED FOR A HVAC OEM

OSANTS partnered with a leading HVAC OEM to design and manufacture large fiberglass fan shrouds with complex shapes and high performance requirements for critical ventilation systems.



PROJECT OVERVIEW



CUSTOM SOLUTION

Engineered and manufactured to meet complex design and performance needs.



HIGH PERFORMANCE

Built with durable fiberglass to handle demanding environments.



OEM APPROVED

Delivered to exact specifications and quality standards.



ON-TIME DELIVERY

Completed and shipped efficiently to support production schedules.

MANUFACTURING PROCESSES INCLUDED



FIBERGLASS MOLDING

Precision molding for complex, large-scale fiberglass components.



GEL COAT FINISHING

High-quality gel coat for superior surface finish and durability.



MACHINING OPERATIONS

CNC machining for precise dimensions and perfect fit.



ASSEMBLY WORK

Expert assembly and reinforcement for structural integrity.

WHY THIS PROJECT WAS SUCCESSFUL

- ✓ High labor content for superior quality and attention to detail
- ✓ Large custom shapes engineered to meet exact OEM requirements
- ✓ Value-added secondary operations to reduce customer workload
- ✓ Efficient nesting and stacking to optimize container space
- ✓ Cost-effective global supply without compromising quality



METALS & MINING



- ✓ Durable, corrosion resistant, and built for extreme environments.
- ✓ Our fiberglass solutions support safety, reliability, and long service life in mining and metals processing operations.



AUTOMOTIVE INDUSTRY



- ✓ Lightweight, durable, and precision engineered fiberglass body kits that enhance performance, style, and aerodynamics.
- ✓ Built to meet the demands of modern automotive manufacturing and customization.



POWER GENERATION



- ✓ Fiberglass components engineered for power generation processes.
- ✓ Our solutions support reliable, efficient, and sustainable operations from water intake to emissions management.



VENTILATION & HVAC



- ✓ Fiberglass components for airflow systems and ventilation equipment.
- ✓ Built to deliver reliable performance in demanding indoor and outdoor environments.



COOLING SYSTEMS



- ✓ High-performance fiberglass solutions for cooling towers and heat rejection systems.
- ✓ Engineered for corrosion resistance and long-term durability.



INDUSTRIAL EQUIPMENT



- ✓ Reliable and rugged components for industrial and processing equipment.
- ✓ Built to handle tough conditions and continuous use.



MARINE APPLICATIONS



- ✓ Corrosion-resistant fiberglass parts built for harsh marine environments.
- ✓ Delivering strength, durability, and long-lasting performance.



CORROSION-RESISTANT PRODUCTS



- ✓ Engineered for chemical resistance and long-term durability in aggressive environments.



OEM CUSTOM COMPONENTS



- ✓ Custom-designed fiberglass parts engineered to meet unique OEM requirements.
- ✓ Precision, quality, and flexibility you can count on.



OTHER INDUSTRIES & APPLICATIONS



- ✓ Versatile fiberglass solutions for a wide range of industries and specialized applications.
- ✓ Engineered to perform where it matters most.

ENGINEERED FOR PERFORMANCE.

BUILT FOR RELIABILITY.



QUALITY ASSURANCE

Advanced testing for maximum strength and durability.



WORLDWIDE SUPPLY

Global reach.
Local commitment.



FAST DELIVERY

On-time solutions you can count on.



ENGINEERING SUPPORT

Expert guidance.
Every step of the way.



**STRONG.
LIGHTWEIGHT.
CORROSION
RESISTANT.**



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Fiberglass components engineered for performance, built to last.

OSANTS HYDRAULICS 2026 CATALOG

CUSTOM ENGINEERED TO MEET
YOUR REQUIREMENTS



VALVE
SYSTEMS



MANIFOLD
BLOCKS



CYLINDERS



HYDRAULIC
MOTORS



POWER PACKS
& UNITS



OPEN LOOP
SYSTEMS



CLOSED LOOP
SYSTEMS

BUILT FOR **EVERY** APPLICATION



CONSTRUCTION



AGRICULTURE



MATERIAL HANDLING



MINING



INDUSTRIAL AUTOMATION



MARINE



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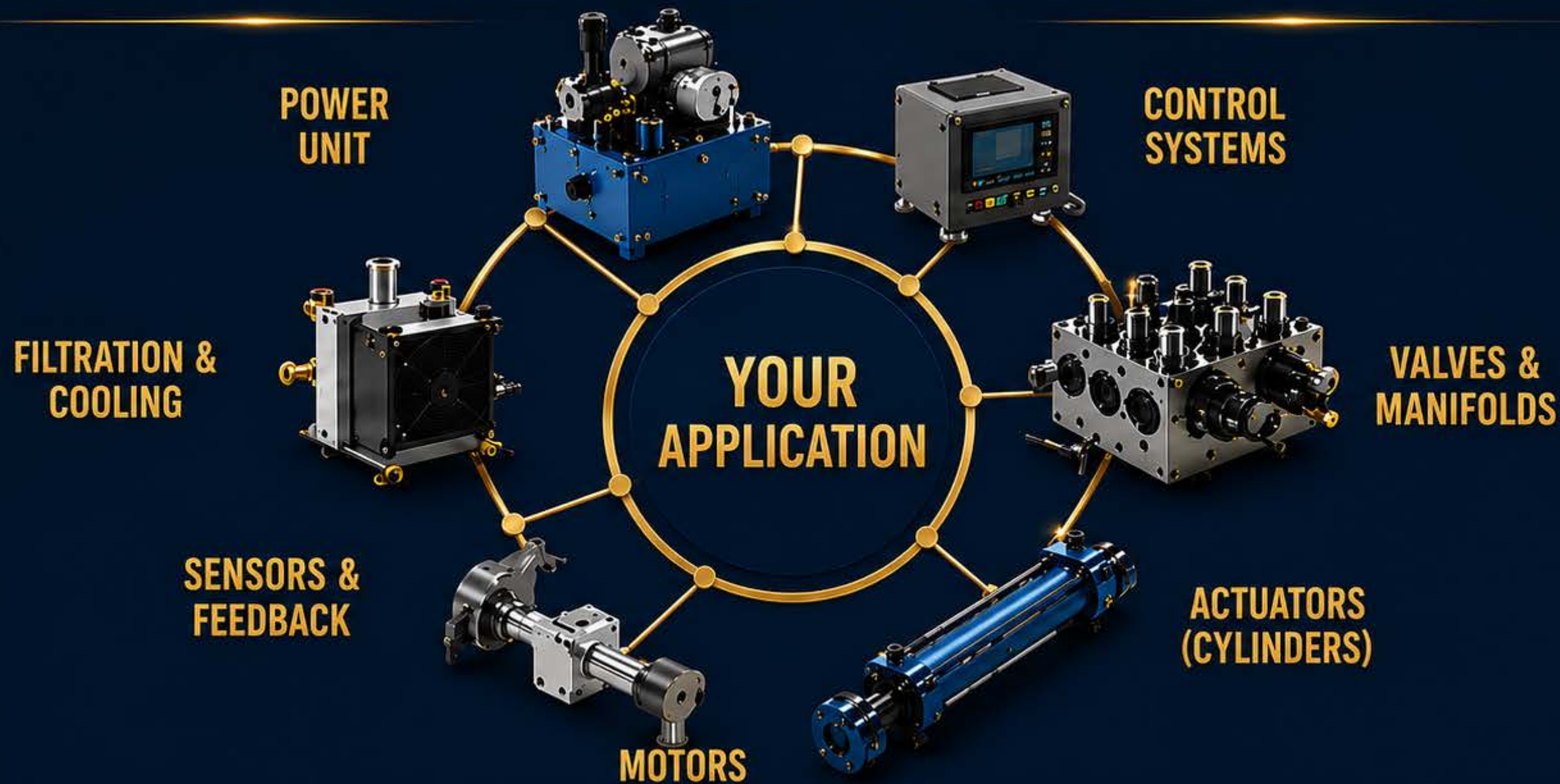


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SYSTEM INTEGRATION CAPABILITIES



Seamless component
integration



Optimized system
performance



Reduced installation
time



Lower operating
costs



Built to your exact
specifications

SELECT YOUR CUSTOM HYDRAULIC SOLUTION

Engineered to Perform. Built to Last. Designed for You.



VALVE SYSTEMS

Precise control for every application



MANIFOLD BLOCKS

Custom manifolds for compact, efficient systems



HYDRAULIC CYLINDERS

Reliable linear motion for the toughest jobs



HYDRAULIC MOTORS

High torque, efficient power in a compact size



POWER PACKS & POWER UNITS

Complete power solutions ready to perform



OPEN LOOP SYSTEMS

Simple, reliable, and cost-effective performance



CLOSED LOOP SYSTEMS

Superior efficiency and precision control

PRODUCT FAMILY COMPARISON

FEATURES	VALVE SYSTEMS	MANIFOLD BLOCKS	HYDRAULIC CYLINDERS	HYDRAULIC MOTORS	POWER PACKS & UNITS	OPEN LOOP SYSTEMS	CLOSED LOOP SYSTEMS
Function	Control flow, pressure, direction	Distribute & manage flow	Linear motion	Rotary motion	Generate & supply hydraulic power	Basic flow control	Precision flow & motion control
Control Precision	High	High	High	High	N/A	Moderate	Very High
Efficiency	High	High	High	High	High	Good	Excellent
Customization	Very High	Very High	Very High	High	Very High	Moderate	Very High
System Complexity	Moderate	Moderate	Low	Moderate	Moderate	Low	High
Typical Applications	All industries	Mobile & industrial equipment	Construction, agriculture, marine	Winches, drives, conveyors	All mobile & industrial systems	General purpose equipment	High performance & precision systems

VALVE SYSTEMS

PRECISION HYDRAULIC CONTROL

OSANTS Valve Systems deliver reliable, precise flow and pressure control for a wide range of hydraulic applications. Engineered for performance, durability and efficiency.

KEY FEATURES



HIGH FLOW CAPACITY

Engineered for demanding applications and high flow requirements.



PRECISION CONTROL

Delivering accurate and repeatable performance every time.



COMPACT DESIGNS

Space-saving solutions for modern, compact hydraulic systems.



CUSTOM CONFIGURATIONS

Tailored to meet your unique system and application needs.

OUR VALVE SOLUTIONS

DIRECTIONAL CONTROL VALVES



Control the start, stop and direction of fluid flow in your system.

PROPORTIONAL VALVES



Infinitely variable control for accurate pressure, flow and force.

FLOW CONTROL VALVES



Regulate flow rate to optimize speed and system performance.

PRESSURE RELIEF VALVES



Protect your system from overpressure and ensure safety.

CARTRIDGE VALVES



Compact, reliable and ideal for manifold integrated solutions.

BUILT FOR DEMANDING APPLICATIONS

CONSTRUCTION



Reliable control in the toughest environments.

MINING



High performance and durability for heavy-duty operations.

INDUSTRIAL AUTOMATION



Precision and repeatability for automated systems.



ENGINEERED TO INTEGRATE

Seamlessly integrate our valve systems into your custom hydraulic solutions for maximum efficiency and reliability.

OSANTS HYDRAULIC CYLINDERS

— RELIABLE LINEAR MOTION SOLUTIONS —

OSANTS hydraulic cylinders are engineered for strength, durability and precise performance in the toughest working conditions.



Precision Seals
Maximum Reliability

CYLINDER TYPES

TIE-ROD CYLINDERS



- High strength
- Easy maintenance
- Versatile mounting

WELDED CYLINDERS



- Compact design
- Heavy duty
- High pressure

TELESCOPIC CYLINDERS



- Multi-stage extension
- Long reach
- Space saving

CUSTOM CYLINDERS



- Built to your specs
- Unique applications
- Custom mounts

ENGINEERED TO DELIVER



HIGH STRENGTH

Built for demanding loads and cycles



PRECISE CONTROL

Smooth operation and accurate positioning



DURABLE CONSTRUCTION

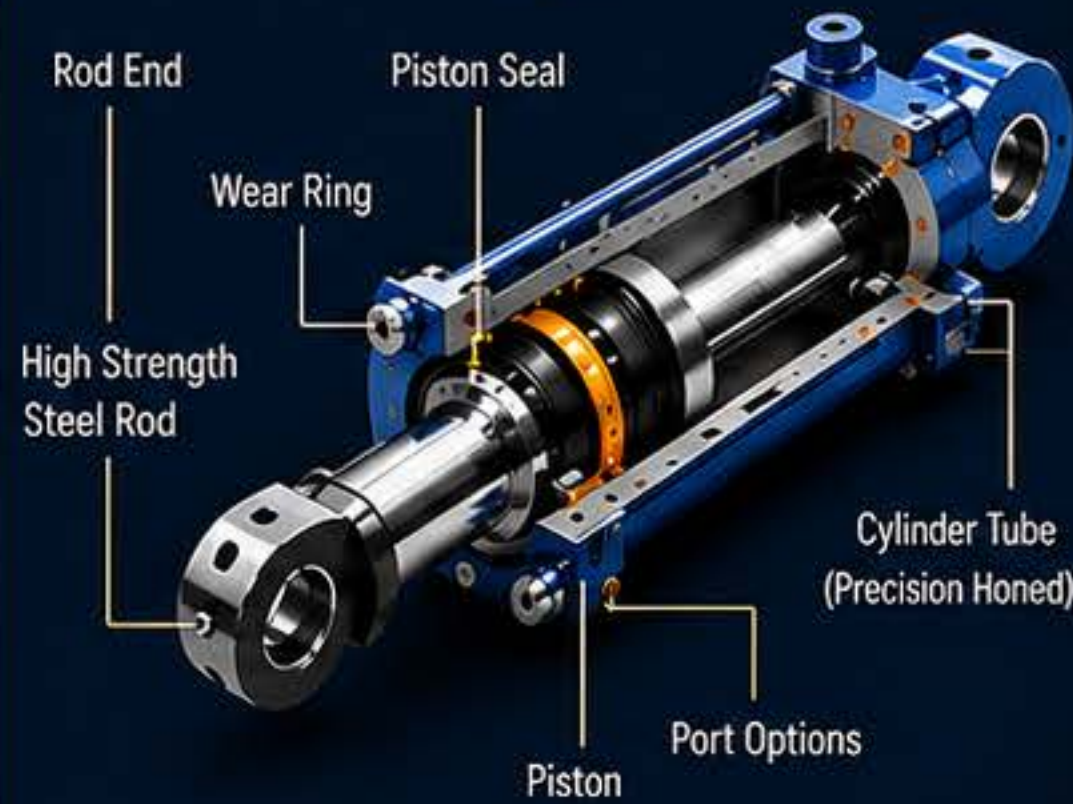
Premium materials and advanced design



CUSTOM SOLUTIONS

Designed to meet your exact requirements

ENGINEERING EXCELLENCE



SPECIFICATIONS

	Bore Sizes	25 mm (1") – 320 mm (12 1/2")
	Stroke Lengths	Up to 6000 mm (235")
	Pressure Ratings	Up to 350 bar (5076 psi)
	Mounting Styles	Clevis, Trunnion, Flange, Pivot, Foot, Rod End & more
	Materials	High strength steel, chrome rod, custom coatings
	Temperature Range	-40°C to +120°C (-40°F to +248°F)

CAD DESIGN & CUSTOM ENGINEERING



3D modeling • Simulation • Prototyping • Testing

MANIFOLD BLOCKS

CUSTOM HYDRAULIC MANIFOLDS

OSANTS designs and manufactures custom hydraulic manifold blocks that integrate multiple functions into a single, compact solution. Engineered for performance, reliability, and easy integration into your system.

SOLUTIONS



INTEGRATED HYDRAULIC CIRCUITS

Combine multiple functions into one manifold for optimized performance.



CUSTOM MANIFOLD DESIGN

Tailored to your exact specifications, performance requirements, and installation constraints.



CARTRIDGE VALVE INTEGRATION

Seamless integration of industry-standard cartridge valves for flexibility and serviceability.



COMPACT SYSTEM ARCHITECTURE

Save space and reduce complexity with compact, high-performance manifold solutions.



BENEFITS



REDUCED LEAK POINTS

Fewer connections mean less risk of leaks and improved reliability.



SIMPLIFIED INSTALLATION

Pre-assembled and tested for faster installation and commissioning.



LOWER MAINTENANCE

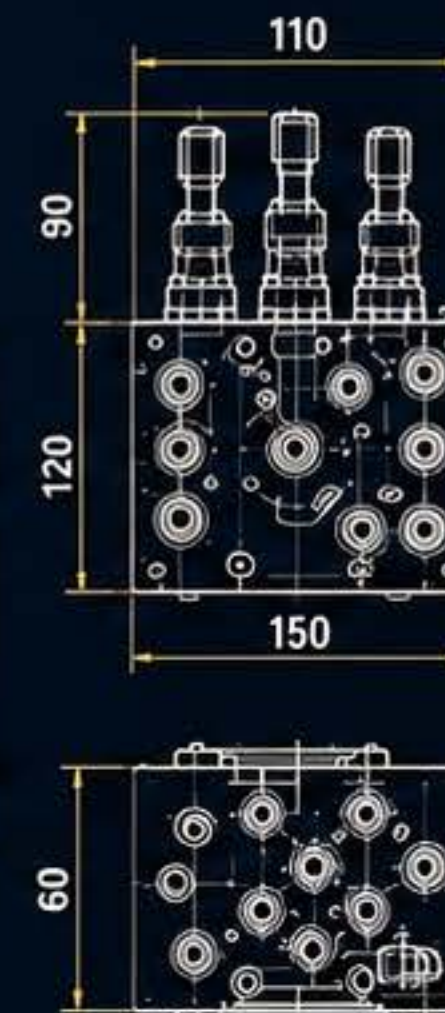
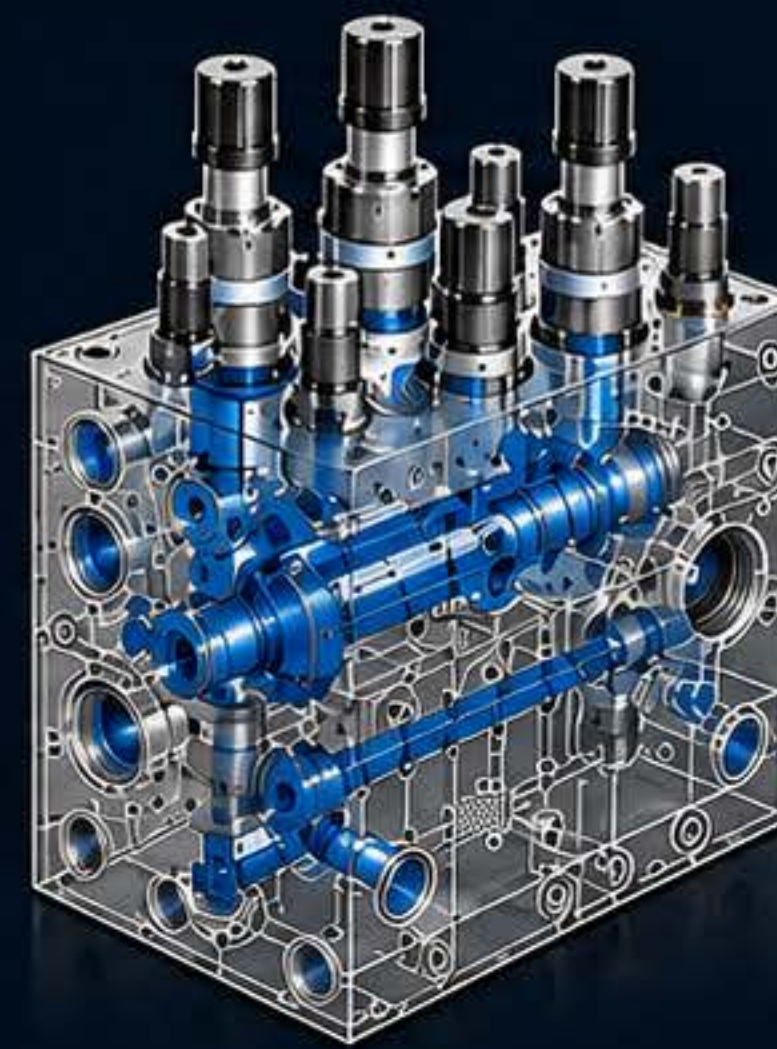
Centralized design for easier access and reduced downtime.



IMPROVED EFFICIENCY

Optimized flow paths and reduced pressure losses boost system efficiency.

CAD ILLUSTRATIONS



DESIGN EXAMPLES



EXCAVATOR
CONTROL MANIFOLD



MOBILE EQUIPMENT
MANIFOLD



INDUSTRIAL MACHINE
MANIFOLD



POWER UNIT
MANIFOLD



CUSTOM
COMPACT MANIFOLD

ENGINEERED FOR YOUR APPLICATION

Every manifold is custom designed, engineered, and tested to meet your specific performance, size, and interface requirements.



3D CAD DESIGN
& SIMULATION



FLOW ANALYSIS
& PERFORMANCE
OPTIMIZATION



IN-HOUSE
MANUFACTURING
& TESTING



BUILT TO MEET
INDUSTRY
STANDARDS

OSANTS

HYDRAULIC MOTORS

HIGH-PERFORMANCE DRIVE SYSTEMS

OSANTS hydraulic motors convert hydraulic power into reliable rotational motion for the toughest applications. Engineered for high performance, efficiency, and durability in demanding operating conditions.

KEY FEATURES



HIGH TORQUE

Delivers superior torque for demanding loads and tough conditions.



VARIABLE SPEED OPERATION

Precise speed control for maximum flexibility and application performance.



COMPACT FOOTPRINT

Space-saving designs for easy integration into tight installations.



LONG SERVICE LIFE

Built with premium materials and proven technology for extended durability.

GEAR MOTORS



Compact and efficient with high starting torque and smooth operation.

PISTON MOTORS



High power density and efficiency for heavy-duty applications.

ORBITAL MOTORS



Robust design with high torque at low speeds and excellent reliability.

CUSTOM MOTOR ASSEMBLIES

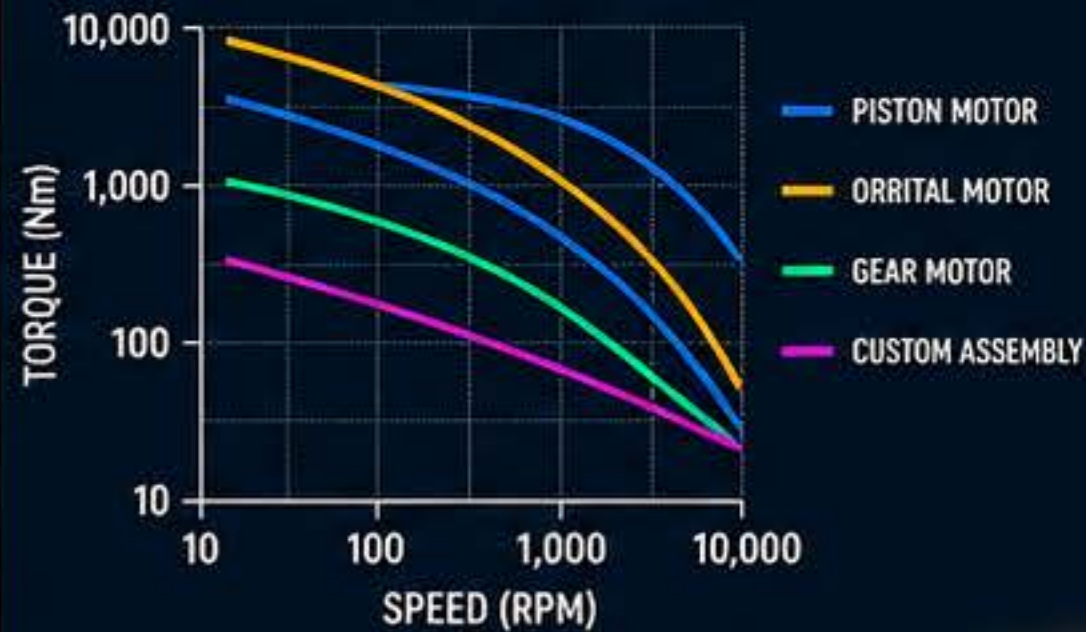


Tailored solutions engineered to meet your exact performance and installation requirements.

PERFORMANCE CHARTS

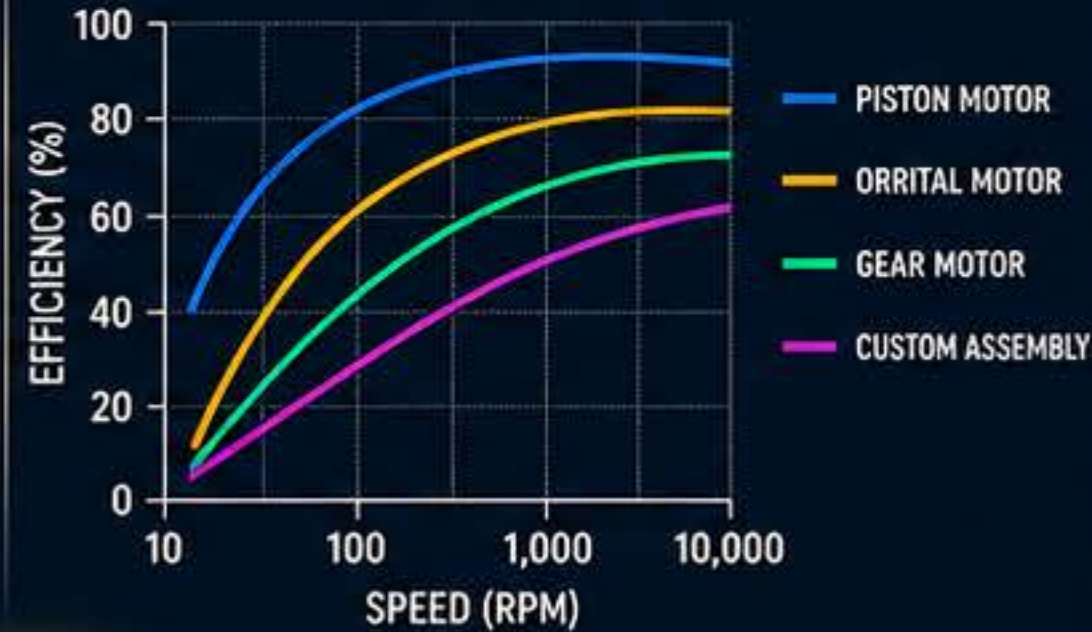
TORQUE vs SPEED

Typical Output Torque (Nm)



EFFICIENCY CURVES

Overall Efficiency (%)



TYPICAL SPECIFICATIONS

SPECIFICATION	RANGE
Displacement	8 – 10,000 cm ³ /rev
Max. Continuous Torque	Up to 20,000 Nm
Max. Speed	Up to 6,000 RPM
Max. Pressure	Up to 450 bar (6,525 psi)
Efficiency	Up to 95%
Operating Temperature	-40°C to +120°C
Mounting Options	SAE, ISO, Custom
Porting Options	SAE, BSPP, NPT, Custom

CAD DESIGN & CUSTOM ENGINEERING



3D modeling



Simulation

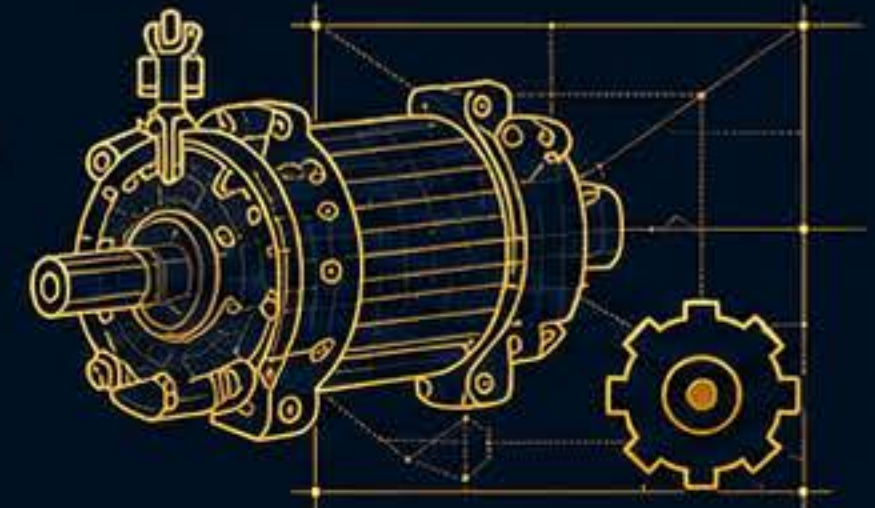


Prototyping



Testing

From concept to production, OSANTS delivers custom motor solutions designed for your application, performance, and environment.



POWER PACKS & POWER UNITS



COMPLETE HYDRAULIC POWER SOLUTIONS

OSANTS power packs and power units are engineered to deliver reliable hydraulic power for any application. From compact standard units to fully customized systems, we provide complete solutions that are efficient, durable, and built to perform.

KEY BENEFITS



RELIABLE HYPERFORMANCE

Consistent hydraulic power when and where you need it.



ENERGY EFFICIENT

Optimized design reduces power consumption and operating costs.



BUILT TO LAST

High-quality components and rigorous testing ensure long service life.



CUSTOM SOLUTIONS

Tailored to your exact requirements and application needs.

STANDARD POWER UNITS



Pre-engineered units for general hydraulic applications. Reliable, cost-effective, and ready to install.

COMPACT POWER PACKS



Space-saving designs that deliver high performance in a compact footprint. Ideal for mobile and industrial equipment.

MOBILE HYDRAULIC SYSTEMS



Rugged and portable hydraulic power for job sites and off-road applications. Built for durability and easy transportation.

CUSTOM ENGINEERED UNITS



Fully customized power units designed to meet your unique specifications and performance requirements.

QUALITY COMPONENTS. OPTIMAL PERFORMANCE.

We use premium components from trusted manufacturers to ensure reliability and efficiency.

RESERVOIRS



Steel or aluminum tanks in various sizes and configurations.

PUMPS



Gear, vane, and piston pumps to match your flow and pressure needs.

FILTRATION SYSTEMS



High-efficiency filters and breathers for clean, reliable operation.

ELECTRONIC CONTROLS



Advanced controls, sensors and CAN/PLC systems for precise operation.

FLEXIBLE POWER & CONTROL OPTIONS

Configure your power unit to match your application and operating environment.



AC/DC POWER

Electric motor options in a variety of voltages and configurations.



DIESEL DRIVEN

High-performance diesel engines for demanding mobile applications.



PLC INTEGRATION

Seamless PLC and HMI integration for automated and remote operation.



OSANTS

OPEN LOOP & CLOSED LOOP SYSTEMS

SYSTEM ARCHITECTURE SOLUTIONS

OSANTS designs and engineers both open and closed loop hydraulic operational requirements. From simple, cost-effective solutions to advanced, high-precision systems, we deliver reliability and performance you can count on.



OPEN LOOP SYSTEMS



SIMPLICITY

Straightforward design for easy operation and maintenance.



COST EFFICIENCY

Lower initial investment and reduced complexity for cost-effective solutions.



RELIABILITY

Proven technology that delivers dependable performance.

CLOSED LOOP SYSTEMS



PRECISION CONTROL

Advanced feedback provides superior accuracy and repeatability.



ENERGY EFFICIENCY

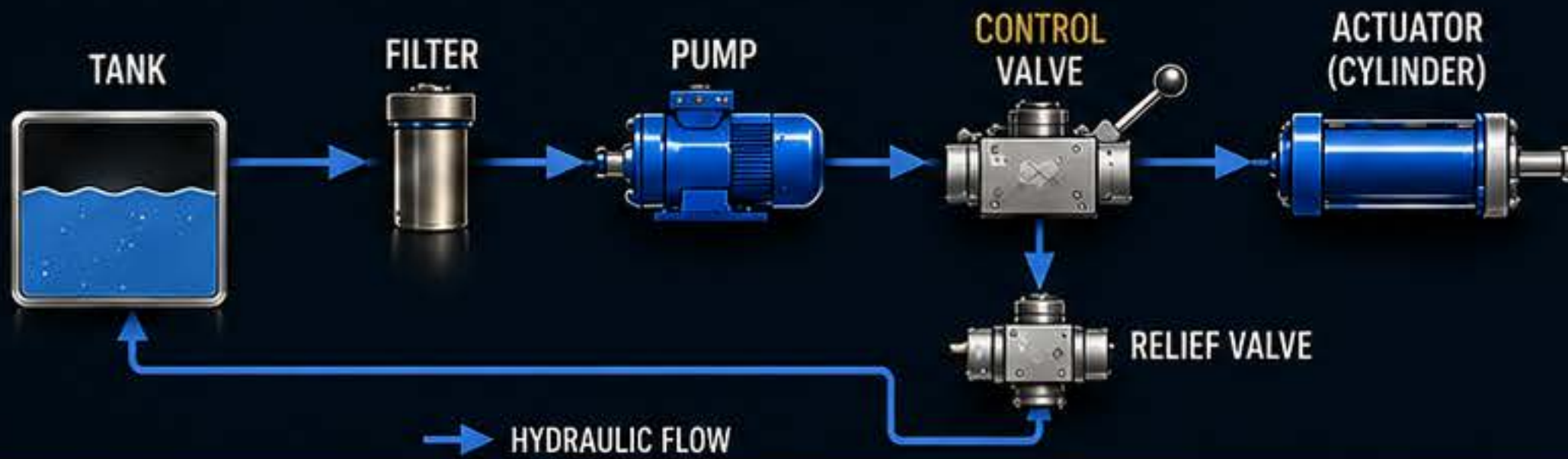
Optimized performance reduces energy consumption and operating costs.



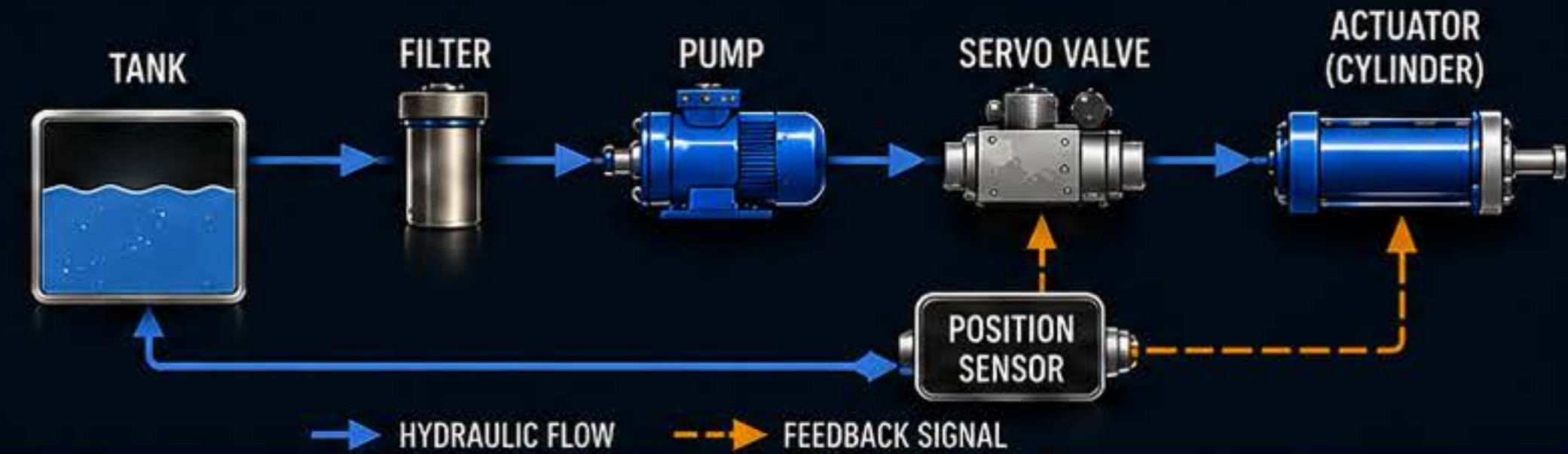
DYNAMIC PERFORMANCE

High responsiveness and consistent performance in demanding applications.

OPEN LOOP SYSTEM ARCHITECTURE



CLOSED LOOP SYSTEM ARCHITECTURE



KEY DIFFERENCES



Open loop systems

are ideal for simple applications where cost and reliability are priorities.



Closed loop systems

are best suited for applications requiring high accuracy, efficiency, and dynamic performance.

OPEN LOOP vs CLOSED LOOP COMPARISON

FEATURE	OPEN LOOP	CLOSED LOOP
 Efficiency	Good	Excellent
 Control Precision	Moderate	High
 Cost	Lower	Higher
 Applications	General Machinery	High-Performance Equipment

BUILT FOR YOUR SUCCESS

Whether you need the simplicity of an open loop system or the advanced control of a closed loop system, OSANTS delivers custom-engineered solutions that maximize productivity, reliability, and efficiency.



ENGINEERED
SOLUTIONS



PROVEN
RELIABILITY



EXPERT
SUPPORT

OSANTS

— HYDRAULIC SOLUTIONS —

ENGINEERED FOR
PERFORMANCE.

BUILT FOR
RELIABILITY.

Custom Hydraulic Solutions designed for precision,
quality, and long-lasting performance.



PREMIUM QUALITY

Manufactured to
international
standards.



PRECISION ENGINEERED

Tight tolerances for
optimal
performance.



WIDE APPLICATIONS

Solutions for industrial,
automotive, and
heavy equipment.



RELIABLE & DURABLE

Built for long service life
and demanding
conditions.

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POWERING
PROGRESS
TOGETHER

Quality. Precision. Reliability. That's OSANTS.

OSANTS

2026 CATALOG

CUSTOM METAL COMPONENT SOLUTIONS

PRECISION ENGINEERED FOR EVERY INDUSTRY

*FROM RAW MATERIAL TO
PRECISION PERFORMANCE.*

- ✓ FABRICATIONS
- ✓ JOININGS
- ✓ CASTINGS
- ✓ MACHININGS
- ✓ CUTTINGS
- ✓ EXTRUSIONS
- ✓ TREATMENTS
- ✓ CUSTOM COMPONENTS



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AEROSPACE

Precision machined and structural components.



AUTOMOTIVE

Production and aftermarket components.



ENERGY & POWER

Power generation and infrastructure components.



OIL & GAS

Valves, fittings, and heavy-duty equipment parts.



INDUSTRIAL AUTOMATION

Frames, extrusions, and machine components.



CONSTRUCTION

Structural and fabricated assemblies.



MEDICAL

Precision machined instruments and devices.



DEFENSE

Mission-critical engineered components.



PRECISION
ENGINEERING



TIGHT TOLERANCES



ADVANCED
MANUFACTURING



QUALITY
ASSURANCE



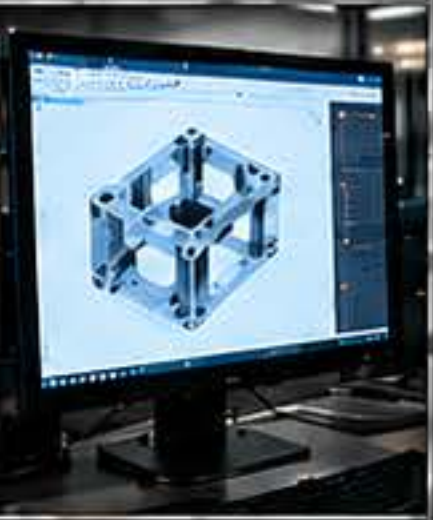
GLOBAL
SUPPLY



CUSTOMER
FOCUSED

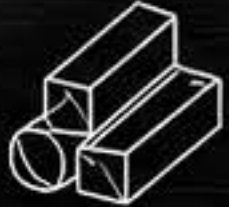
OSANTS HOW METAL COMPONENTS ARE MADE

1 DESIGN & ENGINEERING



Conceptualize and engineer to meet exact specifications.

2 MATERIAL SELECTION



Choose the right materials for strength, durability and performance.

3 FABRICATION



Build the foundation with cutting, forming and assembly.

4 JOINING/ WELDING



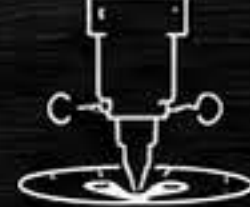
Join components using advanced welding techniques for maximum integrity.

5 CASTING/ FORMING



Shape complex geometries with casting or forming processes.

6 MACHINING



Achieve precise tolerances with CNC machining and advanced equipment.

7 CUTTING



Cut with accuracy using processes like laser, plasma or saw cutting.

8 SURFACE TREATMENT



Enhance durability and appearance with coatings, plating or heat treatment.

9 INSPECTION & QUALITY CONTROL



Rigorous testing and inspection ensure every component meets standards.

10 PACKAGING & DELIVERY



Secure packaging and on-time delivery to keep your operations moving.

THE OSANTS ADVANTAGE



PRECISION MANUFACTURING

Advanced technology and skilled craftsmanship deliver components with tight tolerances and superior finishes.



REPEATABILITY

Consistent processes ensure the same high-quality results every time, for every order.



SCALABILITY

From prototypes to large production runs, we scale with your needs efficiently and cost-effectively.



QUALITY CONTROL

Rigorous inspection and testing at every stage ensures reliability, safety and long-lasting performance.



OSANTS

METAL SOLUTIONS

FABRICATIONS

STRUCTURAL & WELDED ASSEMBLIES

Custom fabricated structures designed for strength, durability, and assembly integration.

PRODUCTS

-  Machine Bases
-  Equipment Frames
-  Structural Assemblies
-  Support Structures
-  Welded Frames

MANUFACTURING METHODS

-  Welding
-  Forming
-  Assembly
-  Grinding

INDUSTRIES SERVED

-  Industrial Equipment
-  Automation
-  Material Handling
-  Energy



**PRECISELY FABRICATED.
BUILT TO PERFORM.**



**CONSISTENT QUALITY.
TIGHT TOLERANCES.**



**CUSTOM SOLUTIONS.
FAST LEAD TIMES.**



**ENGINEERED FOR STRENGTH.
DESIGNED TO LAST.**

OSANTS

METAL SOLUTIONS

JOININGS

PRECISION JOINING SOLUTIONS

Advanced joining processes ensuring structural integrity and long-term performance.

PROCESSES

-  MIG Welding
-  TIG Welding
-  Laser Welding
-  Brazing
-  Mechanical Fastening

ADVANTAGES

-  High Strength
-  Precision Alignment
-  Reduced Distortion

APPLICATIONS

-  Aerospace
-  Automotive
-  Heavy Equipment



**PRECISELY JOINED.
BUILT TO PERFORM.**



**CONSISTENT QUALITY.
TIGHT TOLERANCES.**



**CUSTOM SOLUTIONS.
FAST LEAD TIMES.**



**ENGINEERED FOR STRENGTH.
DESIGNED TO LAST.**

OSANTS

METAL SOLUTIONS

STAMPINGS

PRECISION METAL STAMPING FOR HIGH-VOLUME
PRODUCTION WITH UNMATCHED RELIABILITY.

PRODUCTS

-  BRACKETS & MOUNTS
-  ENCLOSURES
-  PANELS & COVERS
-  CONNECTORS

BENEFITS

-  HIGH VOLUME
-  COST EFFECTIVE
-  CONSISTENT QUALITY
-  FAST Turnaround

APPLICATIONS

-  AUTOMOTIVE
-  APPLIANCES
-  HVAC
-  INDUSTRIAL EQUIPMENT



PRECISELY STAMPED.
BUILT TO PERFORM.



CONSISTENT QUALITY.
TIGHT TOLERANCES.



CUSTOM SOLUTIONS.
FAST LEAD TIMES.



ENGINEERED FOR STRENGTH.
DESIGNED TO LAST.

SANTS

METAL SOLUTIONS

CASTINGS

Complex Metal Cast Components

Near-net-shape components produced for complex geometries and cost-efficient manufacturing.

CASTING TYPES

-  Sand Casting
-  Investment Casting
-  Die Casting
-  Permanent Mold Casting

BENEFITS

-  Complex Shapes
-  Reduced Machining
-  High Production Efficiency

INDUSTRIES

-  Pump & Valve
-  Energy
-  Transportation



**PRECISELY CAST.
BUILT TO PERFORM.**



**CONSISTENT QUALITY.
TIGHT TOLERANCES.**



**CUSTOM SOLUTIONS.
FAST LEAD TIMES.**



**ENGINEERED FOR STRENGTH.
DESIGNED TO LAST.**

OSANTS

METAL SOLUTIONS

FORGINGS

Strength Formed by Precision

Forged metal components deliver exceptional strength, durability, and reliability. Our forging solutions produce high-performance parts for the most demanding industrial applications.

FORGING TYPES

-  Open Die Forging
-  Closed Die Forging
-  Ring Forging
-  Rolled Ring Forging

ADVANTAGES

-  Superior Strength
-  Grain Flow Integrity
-  Impact Resistance
-  High Fatigue Resistance

INDUSTRIES

-  Automotive
-  Aerospace
-  Energy & Power
-  Heavy Equipment
-  Oil & Gas



PRECISION FORGED.
BUILT TO PERFORM.



CONSISTENT QUALITY.
TIGHT TOLERANCES.



CUSTOM SOLUTIONS.
FAST LEAD TIMES.



ENGINEERED FOR STRENGTH.
DESIGNED TO LAST.

OSANTS

METAL SOLUTIONS

MACHININGS

PRECISION CNC MACHINED COMPONENTS

High-precision CNC machining for critical tolerances and superior finishes.

CAPABILITIES

-  CNC Milling
-  CNC Turning
-  Multi-Axis Machining
-  Drilling
-  Threading

TOLERANCES

-  Tight Precision Specifications
-  Prototype Through Production

APPLICATIONS

-  Aerospace
-  Medical
-  Industrial Automation



**PRECISELY MACHINED.
BUILT TO PERFORM.**



**CONSISTENT QUALITY.
TIGHT TOLERANCES.**



**CUSTOM SOLUTIONS.
FAST LEAD TIMES.**



**ENGINEERED FOR STRENGTH.
DESIGNED TO LAST.**

OSANTS

METAL SOLUTIONS

CUTTINGS

ADVANCED METAL CUTTING SERVICES

Precision cutting technologies for rapid and accurate component production.

TECHNOLOGIES



Laser Cutting



Waterjet Cutting



Plasma Cutting



Saw Cutting

BENEFITS



High Accuracy



Fast Production



Minimal Waste

INDUSTRIES



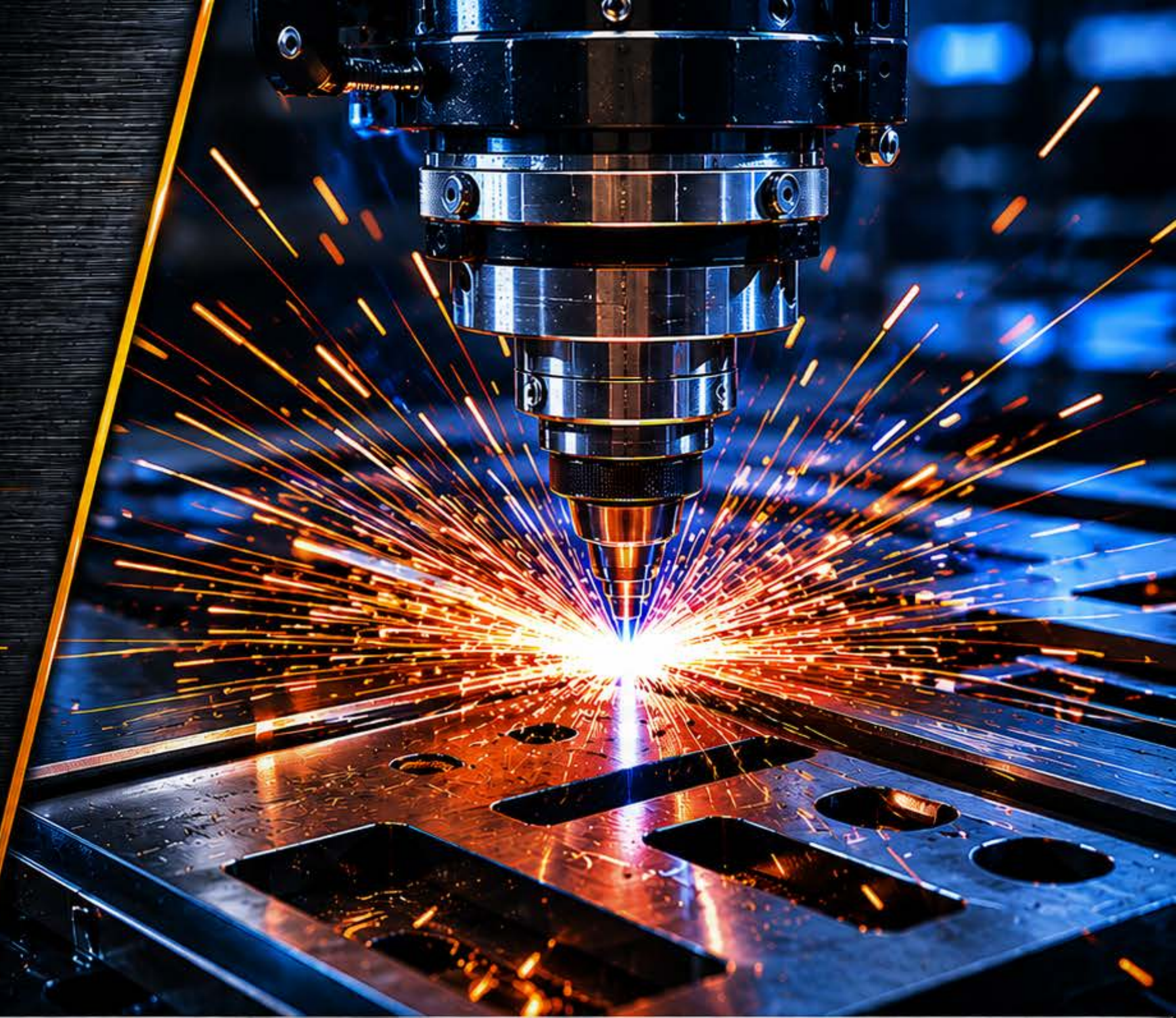
Construction



Manufacturing



Energy



PRECISE CUTS.
BUILT TO PERFORM.



CONSISTENT QUALITY.
TIGHT TOLERANCES.



CUSTOM SOLUTIONS.
FAST LEAD TIMES.



ENGINEERED FOR STRENGTH.
DESIGNED TO LAST.



METAL SOLUTIONS

Aluminum & Specialty Extrusions

Custom and standard extrusion profiles for structural and engineered applications.

PRODUCTS

-  T-Slot Profiles
-  Structural Extrusions
-  Heat Sink Profiles
-  Custom Shapes

BENEFITS

-  Lightweight
-  Corrosion Resistant
-  Design Flexibility

APPLICATIONS

-  Automation
-  Electronics
-  Architectural Systems



PRECISELY EXTRUDED.
BUILT TO PERFORM.



CONSISTENT QUALITY.
TIGHT TOLERANCES.



CUSTOM SOLUTIONS.
FAST LEAD TIMES.



ENGINEERED FOR STRENGTH.
DESIGNED TO LAST.



METAL SOLUTIONS

OTHERS / CUSTOM COMPONENTS

Specialized Metal Solutions

Custom-engineered components
manufactured to customer specifications.

EXAMPLES

-  Valve Bodies
-  Hydraulic Components
-  Specialty Fittings
-  Custom Assemblies
-  Prototype Parts

ENGINEERING SUPPORT

-  Reverse Engineering
-  DFM Analysis
-  Rapid Prototyping
-  Production Scaling



PRECISELY ENGINEERED.
BUILT TO PERFORM.



CONSISTENT QUALITY.
TIGHT TOLERANCES.



CUSTOM SOLUTIONS.
FAST LEAD TIMES.



ENGINEERED FOR STRENGTH.
DESIGNED TO LAST.

OSANTS

METAL SOLUTIONS

SURFACE FINISHING & PROTECTION

Surface enhancement solutions to improve appearance, durability, and performance.

TREATMENTS



POWDER
COATING



ANODIZING



PLATING



PASSIVATION



HEAT
TREATMENT



PAINTING

BENEFITS



CORROSION
PROTECTION



WEAR
RESISTANCE



IMPROVED
APPEARANCE



ENHANCED PERFORMANCE.
BUILT TO LAST.



SUPERIOR PROTECTION.
MAXIMUM RELIABILITY.



CONSISTENT QUALITY.
EXCEPTIONAL FINISHES.



BUILT FOR YOUR STANDARDS.
DELIVERED ON TIME.



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ENGINEERING
METAL SOLUTIONS
FROM CONCEPT TO COMPLETION.



OSANTS

TRANSMISSION COMPONENTS

SOLUTIONS ENGINEERED TO
MEET YOUR REQUIREMENTS



PREMIUM
QUALITY



PRECISION
MACHINED



RELIABLE &
DURABLE



INDUSTRY
PROVEN



POWERING PROGRESS TOGETHER



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INTRODUCTION

Power transmission systems transfer mechanical energy from a power source to driven equipment, enabling efficient movement, speed control, torque multiplication, and precision operation.

POWER FLOW DIAGRAM

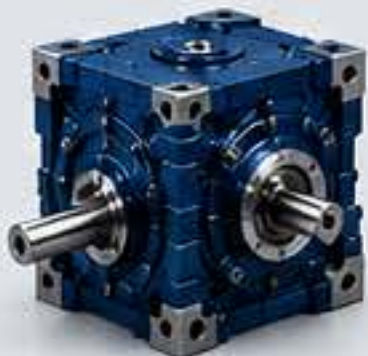


COMPONENT FUNCTIONS



BEARINGS

Reduce friction and support rotating shafts.



GEARBOXES

Modify speed and increase torque.



COUPLINGS

Connect rotating shafts while compensating for misalignment.



CLUTCHES

Engage and disengage power transmission.



SHAFTS

Transfer rotational power throughout the system.



CHAIN SYSTEMS

Transmit power over longer center distances.



PULLEY SYSTEMS

Provide efficient belt-driven power transfer.

BENEFITS



INCREASED EFFICIENCY

Optimize performance and reduce energy consumption.



REDUCED DOWNTIME

Reliable components minimize interruptions and keep operations running.



EXTENDED EQUIPMENT LIFE

High-quality components withstand demanding conditions.



IMPROVED OPERATIONAL RELIABILITY

Consistent performance ensures smoother operations and greater productivity.

INDUSTRY APPLICATIONS

WHERE OUR TRANSMISSION COMPONENTS EXCEL



MANUFACTURING

Conveyors,
assembly lines,
packaging systems



MINING

Heavy-duty
material handling
equipment



AGRICULTURE

Harvesters,
irrigation systems,
processing equipment



AUTOMOTIVE

Production
equipment and
drivetrain support



FOOD & BEVERAGE

Sanitary processing
and packaging
systems



MATERIAL HANDLING

Warehouses,
conveyors,
automated systems



ENERGY

Power generation
and industrial
infrastructure

KEY BENEFITS



HIGH RELIABILITY

Engineered for
consistent performance
in demanding conditions.



LOW MAINTENANCE

Built to reduce wear
and extend service
intervals.



MAXIMUM UPTIME

Dependable components
that keep your operations
running longer.



GLOBAL STANDARDS COMPLIANCE

Manufactured to meet
international quality
and safety standards.





PRECISION IN MOTION

BEARINGS

PRECISION. RELIABILITY. PERFORMANCE.

High-performance bearings engineered for precision, reliability, and long service life.

FEATURES

-  High load capacity
-  Low friction design
-  Precision tolerances
-  Smooth operation
-  Corrosion resistance
-  Wide range of sizes

APPLICATIONS

-  Industrial machinery
-  Electric motors
-  Automotive
-  Robotics
-  Conveyor systems
-  Wind energy

BENEFITS

-  Enhanced durability
-  Reduced maintenance
-  High efficiency
-  Quiet performance
-  Consistent reliability
-  Longer service life



ENGINEERED
FOR PRECISION.



BUILT FOR RELIABILITY.
DESIGNED TO LAST.



OPTIMIZED FOR
PERFORMANCE.



POWERING INDUSTRY.
EVERY DAY.



PRECISION IN MOTION

CHAIN SYSTEMS

POWER. RELIABILITY. ENDURANCE.

High-performance chain systems engineered for reliable power transmission and long service life.

FEATURES

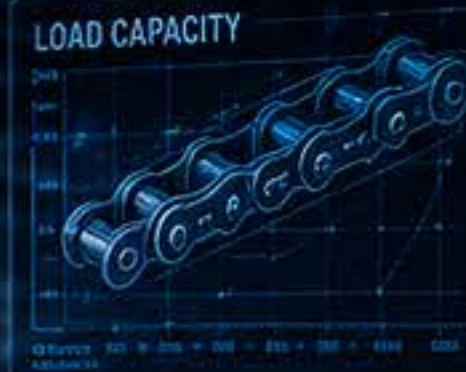
- High tensile strength
- High fatigue resistance
- Smooth & quiet operation
- Wear & impact resistant
- Corrosion protection
- Pre-lubricated options
- Wide range of sizes

APPLICATIONS

- Industrial machinery
- Conveyor systems
- Automotive
- Material handling
- Agricultural
- Robotics
- Packaging equipment

BENEFITS

- Reliable power transmission
- Reduced downtime
- Extended chain life
- High efficiency
- Consistent performance
- Low maintenance
- Cost-effective operation



ENGINEERED
FOR RELIABILITY.



BUILT FOR PERFORMANCE.
DESIGNED TO LAST.



SMOOTH POWER TRANSFER.
MAXIMUM EFFICIENCY.



POWERING INDUSTRY.
DRIVING PROGRESS.



PRECISION IN MOTION

CLUTCHES

ENGAGE. TRANSFER. PERFORM.

High-performance clutches engineered
for reliable power transmission and long service life.

FEATURES

- High torque capacity
- Smooth engagement
- Precision performance
- Heat resistance
- Wear resistance
- Corrosion protection
- Compact design

APPLICATIONS

- Automotive
- Industrial machinery
- Heavy equipment
- Agricultural
- Robotics
- Power generation
- Marine

BENEFITS

- Reliable power transfer
- Reduced downtime
- Enhanced durability
- High efficiency
- Consistent performance
- Long service life
- Lower maintenance



ENGINEERED
FOR RELIABILITY.



BUILT TO HANDLE TORQUE.
DESIGNED TO LAST.



SMOOTH ENGAGEMENT.
MAXIMUM CONTROL.



POWERING PERFORMANCE.
DRIVING EVERY MOMENT.



— PRECISION IN MOTION —

COUPLINGS

CONNECTING POWER. DELIVERING PERFORMANCE.

High-performance couplings engineered for precision, reliability, and long service life.

FEATURES

-  High torque capacity
-  Misalignment tolerance
-  Vibration damping
-  Smooth operation
-  Corrosion resistance
-  Wide range of sizes

APPLICATIONS

-  Industrial machinery
-  Pumps & compressors
-  Electric motors
-  Conveyors
-  HVAC systems
-  Marine & offshore

BENEFITS

-  Enhanced reliability
-  Reduced downtime
-  Protects equipment
-  High efficiency
-  Quiet performance
-  Longer service life



ENGINEERED
FOR PRECISION.



BUILT FOR RELIABILITY.
DESIGNED TO LAST.



OPTIMIZED FOR
PERFORMANCE.



POWERING INDUSTRY.
EVERY DAY.





PRECISION IN MOTION

GEARBOXES

TRANSMIT. TRANSFORM. PERFORM.

High-performance gearboxes engineered
for reliable power transmission and long service life.

FEATURES

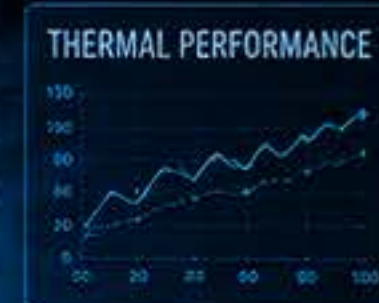
- High torque density
- Precision gearing
- Smooth & quiet operation
- High efficiency
- Low backlash
- Robust construction
- Compact design
- Wide range of ratios

APPLICATIONS

- Industrial machinery
- Conveyor systems
- Automotive
- Robotics
- Wind energy
- Agricultural
- Marine
- Material handling

BENEFITS

- Reliable power transmission
- Reduced downtime
- Extended service life
- High efficiency
- Consistent performance
- Low maintenance
- Versatile mounting
- Cost-effective operation



ENGINEERED
FOR RELIABILITY.



BUILT TO PERFORM.
DESIGNED TO LAST.



MAXIMUM EFFICIENCY.
MINIMAL DOWNTIME.



POWERING INDUSTRY.
DRIVING PROGRESS.



PRECISION IN MOTION

PULLEY SYSTEMS

DRIVE. CONTROL. PERFORM.

High-performance pulley systems engineered for reliable power transmission and long service life.

FEATURES

- High load capacity
- Precision balancing
- Smooth & quiet operation
- Low vibration
- Corrosion protection
- Compact design
- Wide range of sizes

APPLICATIONS

- Industrial machinery
- Conveyor systems
- HVAC systems
- Automotive
- Robotics
- Agricultural
- Power generation

BENEFITS

- Efficient power transmission
- Reduced maintenance
- Extended service life
- High efficiency
- Consistent performance
- Cost-effective solution
- Versatile integration



ENGINEERED
FOR PRECISION.



BUILT FOR RELIABILITY.
DESIGNED TO LAST.



SMOOTH OPERATION.
MAXIMUM EFFICIENCY.



POWERING INDUSTRY.
DRIVING PERFORMANCE.

SANTS

— PRECISION IN MOTION —

SHAFTS

STRENGTH. PRECISION. PERFORMANCE.

High-performance shafts engineered
for reliable power transmission and long service life.

FEATURES

-  High torsional strength
-  Precision machining
-  Excellent straightness
-  Surface hardening
-  Wear & fatigue resistance
-  Corrosion protection
-  Smooth operation
-  Wide range of sizes

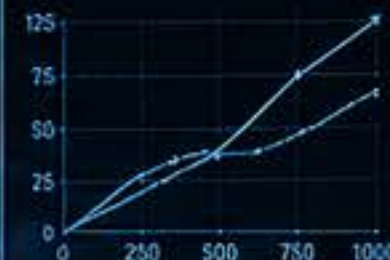
APPLICATIONS

-  Industrial machinery
-  Gearboxes
-  Pumps & compressors
-  Conveyor systems
-  Automotive
-  Robotics
-  Marine
-  Power generation

BENEFITS

-  Reliable power transmission
-  Reduced vibration
-  Extended service life
-  High efficiency
-  Consistent performance
-  Lower maintenance
-  Cost-effective solution
-  Custom engineering

TORSIONAL STRENGTH



STRAIGHTNESS TOLERANCE



SURFACE HARDNESS



FATIGUE STRENGTH



ENGINEERED
FOR STRENGTH.



BUILT FOR PRECISION.
DESIGNED TO LAST.



PRECISELY MACHINED.
PERFECTLY BALANCED.



POWERING INDUSTRY.
DRIVING PERFORMANCE.



PRECISION IN MOTION

YOUR TRUSTED POWER TRANSMISSION PARTNER

WHY CHOOSE OSANTS?



PREMIUM QUALITY

Manufactured to international standards.



PRECISION MACHINED

Tight tolerances for optimal performance.



WIDE APPLICATIONS

Solutions for automotive, industrial, and heavy machinery.



RELIABLE & DURABLE

Built for long service life and demanding conditions.



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Quebec, Canada



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