

COMBUSTION

2026 CATALOG

OSANTS

CUSTOM SOLUTIONS ENGINEERED TO
MEET YOUR REQUIREMENTS

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

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

OSANTS

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

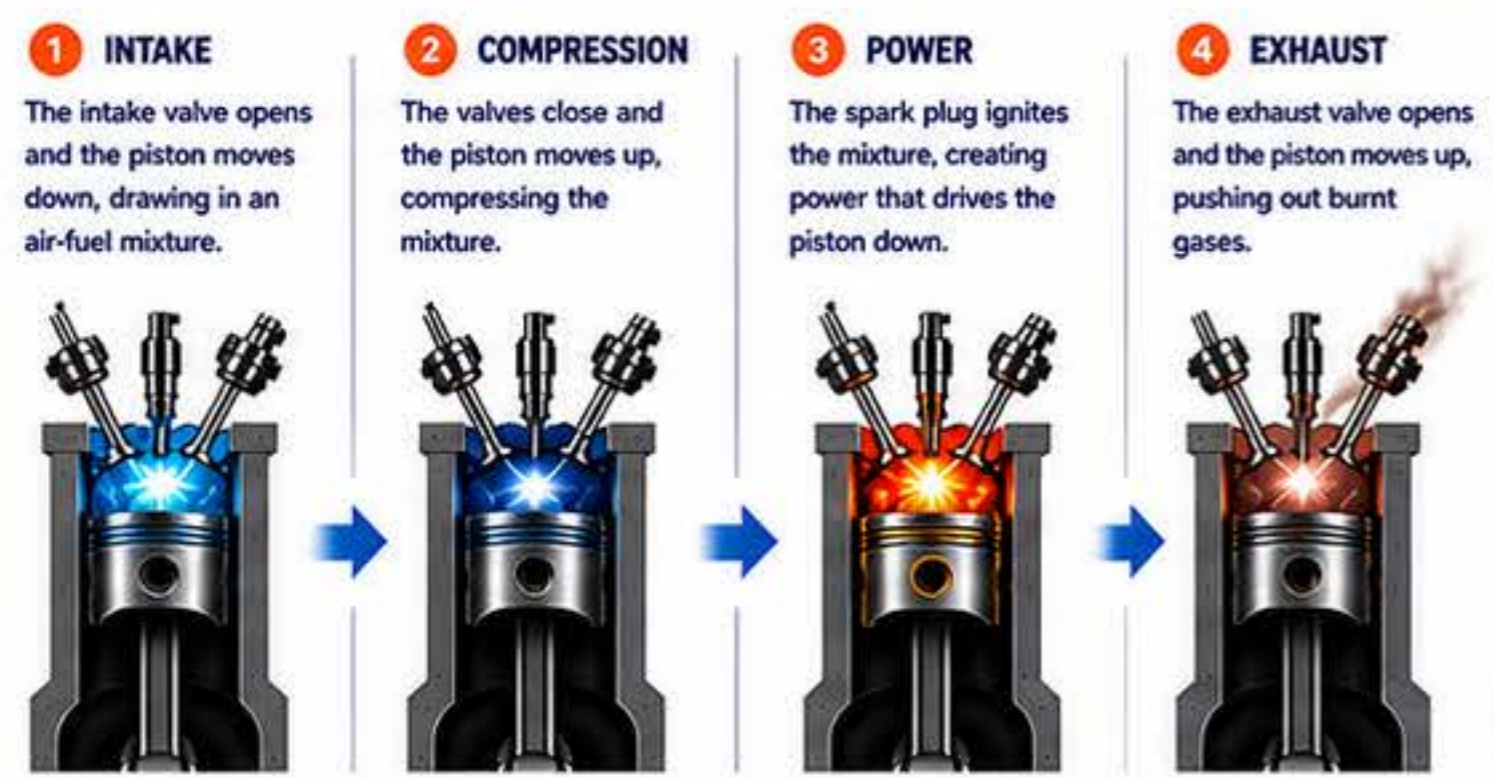
Control the intake of air and fuel and the exhaust of gases to keep the engine running efficiently and reliably.



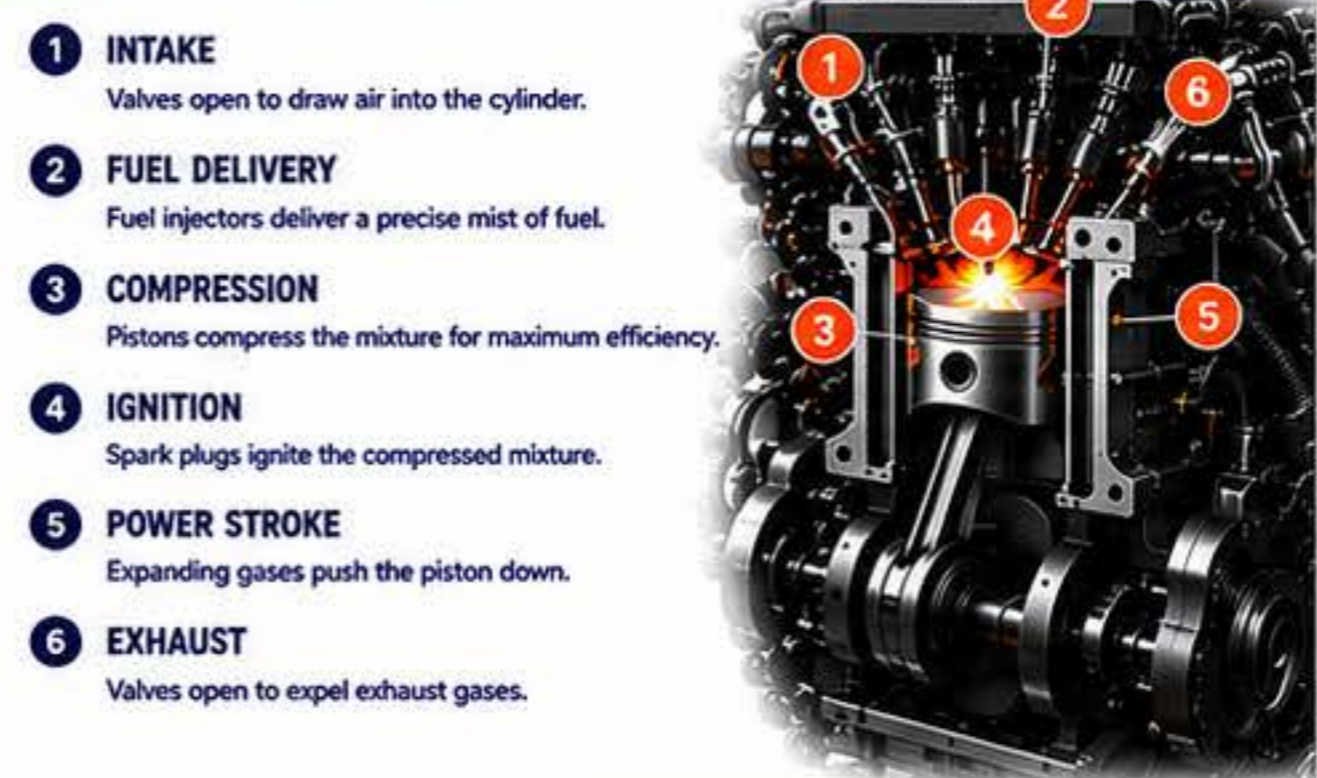
CRANKSHAFTS

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

THE COMBUSTION PROCESS - 4 STROKE CYCLE



HOW IT WORKS TOGETHER



TYPICAL APPLICATIONS



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



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.



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