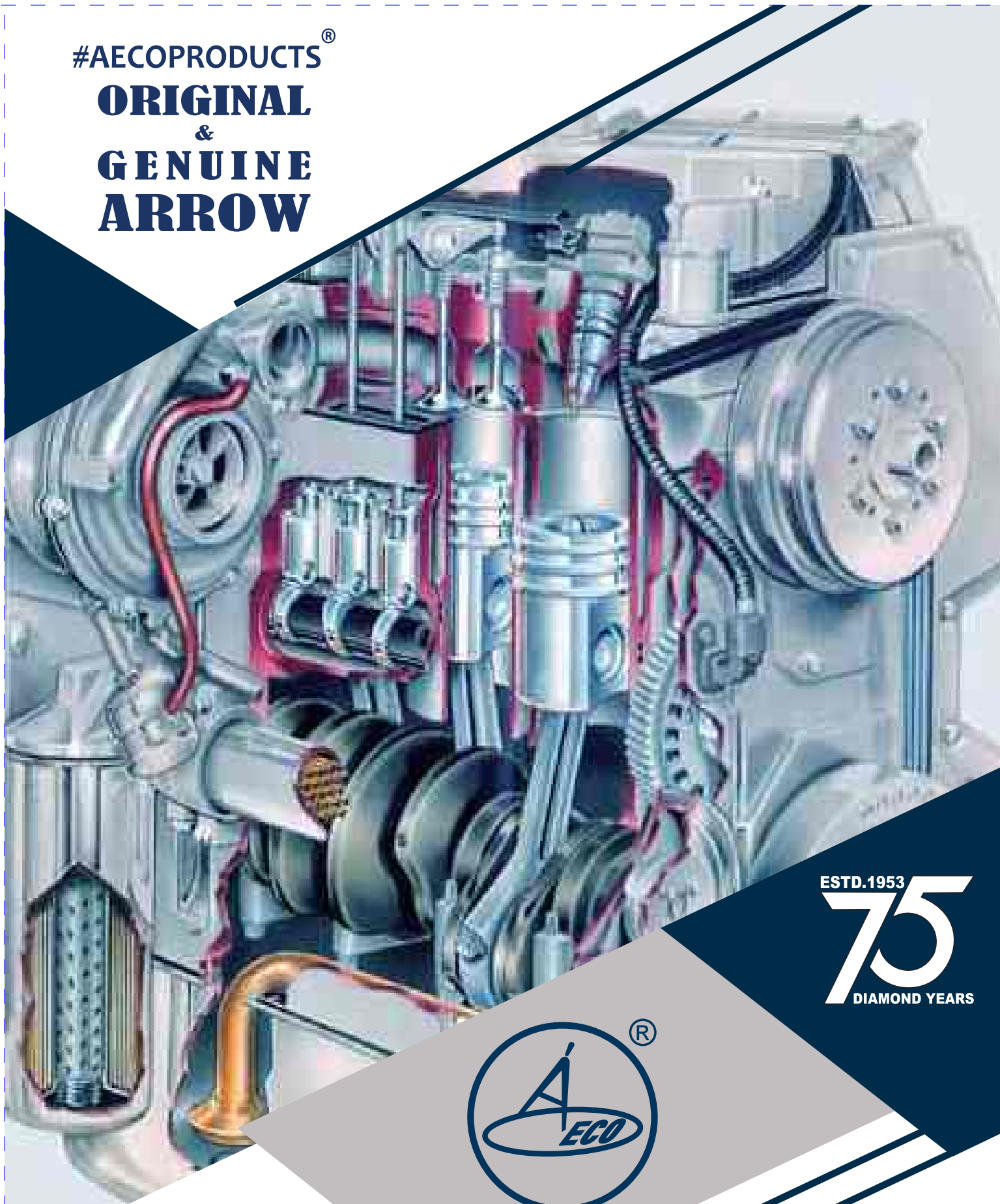


#AECOPRODUCTS[®]
**ORIGINAL
&
GENUINE
ARROW**



ESTD.1953
75
DIAMOND YEARS



AECO
Arrow[®]
ENGINE PARTS

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With over **70 years** of industry experience, AECO Engineering stands as a distinguished leader in the manufacturing and quality control of engine spare parts. Our rich heritage and commitment to excellence have positioned us as a trusted provider of high-performance components across diverse applications, including TRACTOR, TRUCK, AUTOMOBILE, HEAVY MACHINERY, MARINE, and STATIONARY ENGINE. With a steadfast commitment to precision engineering, innovation, and customer satisfaction, AECO Engineering delivers reliable solutions that optimize performance and durability across various industries worldwide.

At AECO Engineering, our mission is to uphold our legacy of excellence by delivering superior quality engine spare parts that exceed industry standards. We provide innovative and dependable engine spare parts that exceed customer expectations in terms of quality, performance, and reliability. We strive to continuously improve our products through advanced engineering, technological innovation, and responsive customer service, ensuring long-term satisfaction and trust among our clients.

Led by **Mr Mukesh Gupta's 45+ years of expertise**, AECO Engineering excels in production and quality control, ensuring each component meets rigorous standards. His strategic vision drives continuous improvement and innovation, reinforcing our reputation for excellence across automotive, marine, agriculture, and industrial sectors. At AECO Engineering, we are dedicated to exceeding industry standards and customer expectations, delivering superior quality and reliability in every product.



CORE COMPETENCIES

- ADVANCED MANUFACTURING EXPERTISE
- COMPREHENSIVE QUALITY CONTROL
- INNOVATIVE PRODUCT DEVELOPMENT
- CUSTOMER SERVICE
- CONTINUAL IMPROVEMENT

INDUSTRIES SERVED

- AUTOMOTIVE (PASSANGER AND COMMERCIAL)
- AGRICULTURAL
- MARINE
- INDUSTRIAL
- CONSTURCTION & MINING

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CYLINDER LINER

We use **CENTRIFUGAL CASTING METHOD** to manufacture durable cylinder liners for engines in automotive, tractors, industrial, marine and stationary sectors. Our process includes precise mold preparation, molten metal casting into rotating molds, solidification, controlled cooling, and detailed finishing.

We produce 2 main types:

Dry liners, which are replaceable components installed after machining

- **SEMI FINISH**
- **FULLY FINISH**
- **CHROMARD**

Wet liners, which are integrated into the engine block and cooled by engine coolant.

- **NORMAL**
- **PHOSPHATED**
- **CHROME PLATED**
- **HEAT TREATMENT**
- **FIRE RING LINER**

Each type offers specific advantages based on engine design and performance needs.

Our Air-Cooled Cylinder Liners are crafted using a specialized Shell Moulding Process, featuring wear-resistant, close-grained iron casting for extended durability and efficient cooling.



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PISTONS

At AECO Engineering, we manufacture high-performance pistons from premium materials. Our process involves casting or forging, precision machining, and heat treatment for enhanced strength and durability, with surface coatings for improved wear resistance. Rigorous quality control ensures compliance with industry standards.

We also offer custom-designed pistons tailored to client specifications, adhering to international standards for OEM replacement across various applications.

Type of Piston:

- **NORMAL PISTON**
- **ALFIN TYPE**
- **STEEL STRUT TYPE**
- **COOLING GALLERY TYPE**



PISTON PINS

Our piston pins are manufactured from premium 20MnCr5 grade steel, ensuring exceptional performance with a hardness range of 55-65 HRC. Each piston pin undergoes case hardening to enhance surface wear resistance while maintaining a tough core to effectively absorb shock loads. This combination of durability and strength significantly extends the service life of our piston pins.



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ENGINE VALVE

We craft high-performance engine valves using alloy or stainless steels. Our process involves forging, precision machining, and heat treatments like hardening and tempering to enhance strength and wear resistance. Surface treatments such as nitriding or chrome plating improve durability and reduce friction. Each valve undergoes rigorous quality control, including dimensional checks and simulated testing, to ensure global standards for reliability and performance. Our commitment guarantees optimal engine efficiency and longevity across automotive, marine, agricultural, and industrial applications.

Type of Valves:

- **MONOMETAL**
- **TIP & SEAT STELLITE**
- **PHOTPATD**
- **NITRITED**
- **BIMETAL**
- **BUTTON WELDED**
- **CHROME PLATED**



VALVE GUIDE

Valve guide manufacturing at AECO Engineering involves meticulous steps to ensure precision and durability. Starting with high-quality materials like bronze alloys or cast iron, we employ machining techniques to achieve precise dimensions and surface finishes. Heat treatment enhances mechanical properties, followed by surface treatments to improve wear resistance. Rigorous quality control measures validate each guide's adherence to strict tolerances and performance standards. These steps ensure our valve guides meet the demands of automotive, marine, agricultural, and industrial applications for reliable engine performance.

Type of Valve Guides:

- **PLAIN**
- **SEAL TYPE**
- **COLLAR**
- **DOUBLE COLLAR**



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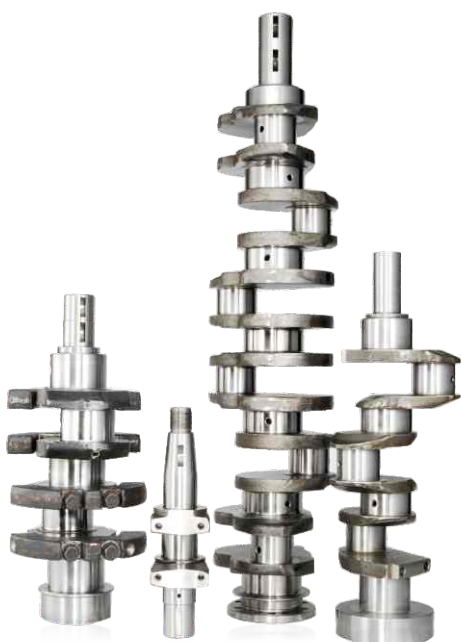
VALVE SEAT

We specialize in crafting high-quality engine valve seats using durable materials to ensure optimal performance and longevity. Our process involves precise casting, meticulous machining, and heat treatments to enhance hardness and stability. Each valve seat undergoes rigorous quality control to meet global standards, guaranteeing reliable operation across automotive, marine, agricultural, and industrial applications.

We offer valve seats in various materials, including IRON BASED, COBALT BASED, and NICKEL BASED options.

CONNECTING ROD

Connecting rods, essential components in engines, undergo a specialized manufacturing process at AECO Engineering. Initially purchased in a semi-finished state, these rods undergo rigorous machining processes in-house. This process includes precision operations such as milling, drilling, and grinding to achieve exacting dimensional specifications and surface finishes. Each rod undergoes rigorous inspection and testing to ensure it meets high-quality standards before use in tractors, trucks, automobiles, and industrial machinery, ensuring optimal performance and reliability.



VALVE SEAT

At AECO Engineering, we specialize in machining FORGED and CAST crankshafts. Forged crankshafts, made from high-strength alloy steels, undergo rough and precise machining, while Cast crankshafts, made from cast iron or steel alloys, require extensive machining. Both types receive heat treatment for added strength and durability. Rigorous quality controls ensure each crankshaft meets stringent standards for optimal performance in automotive, marine, agricultural, and industrial applications.

We can also supply FORGINGS and CASTINGS in semi finish stage as per client requirements.



PISTON RINGS

Our piston rings are precision-cast with stringent material control to guarantee high tensile strength, exceptional wear and scuffing resistance, and durability under operating temperatures. Each ring undergoes a meticulous process of double turning, barrel honing, and precise grinding to ensure maximum accuracy and smooth, reliable performance.

OIL PUMPS & WATER PUMPS

We provide an extensive selection of oil and water pumps tailored for diverse applications. Our pumps are distinguished by their superior efficiency and extended service life, designed to integrate seamlessly with existing systems and deliver reliable performance under demanding conditions.



ENGINE BEARINGS AND BUSHES

AECO Engineering is proud to supply high-quality engine bearings and bushes designed to meet the rigorous demands of modern engines. Our range includes precision-engineered bearings and durable bushes, crafted to enhance engine performance and longevity. With a commitment to excellence, we ensure that every component we provide meets stringent industry standards, offering reliability and superior functionality in every application.

GASKETS

AECO Engineering is dedicated to supplying top-quality gaskets that ensure optimal sealing and performance in a variety of applications. Our gaskets are meticulously crafted from high-grade materials to provide reliable sealing solutions, preventing leaks and maintaining system integrity. With a focus on precision and durability, we deliver gaskets that meet the highest industry standards, ensuring that every component functions seamlessly within your engineering projects.

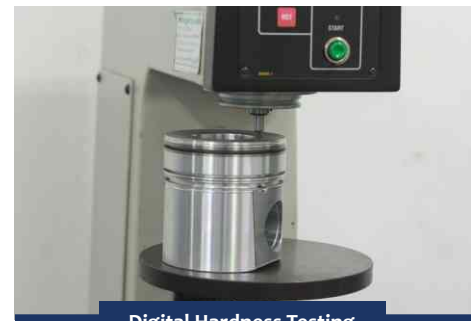




Cad Specialist



Profile Projector



Digital Hardness Testing



Roundness Measuring Tester



Digital Height Gauge



RA Value



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100% Ovality Testing



In-house Material Testing

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