



Quality Makes the Difference

ONE STOP SOURCE NEW REPLACEMENT PARTS FOR THE HEAVY EQUIPMENT INDUSTRY





Cylinder Liners

- High strength alloy centrifugal casting
- Induction hardened Caterpillar[®] liners
- Casting Bainite Cummins[®] C liners
- Precise cross-hatch honing
- 100% magnetically inspected



Camshafts

- OEM alloy steel forging and induction hardening or chilled alloy iron casting.
- Precise CNC turning and grinding
- 100% magnetically inspected



Pistons

- Silicon alloy aluminum pistons
- Cast-in nickel iron ring band
- Machined valve pocket
- Elliptical pin boss
- 100% ultrasonically inspected



Valves

- OEM material, metallurgy and construction.
- Two-piece valves, Stellite Valves and Chrome Plated Valves for Caterpillar[®], Cummins[®], Detroit Diesel[®], Mack[®] and IHC[®] engine.



PISTON RING

- CEP Steel compression rings come with several types of coatings; Moly, Chrome and Ceramic PVD Coatings. These coatings offer higher tensile strength and greater hardness, while offering improved stress resistance and durability. Our secondary compression rings are manufactured out of non heat treated grey cast iron for better conformability that improves oil control. Our low tension oil rings reduce friction and cylinder wear for longer service life.

CONNECTING ROD

- CEP Connecting rods are subjected to compressive and tensile forces during operation. CEP connecting rods are made of forged steel. Forging compresses and aligns the grain structure of the steel, creating a connecting rod of superior strength and durability.





CYLINDER BLOCK AND CYLINDER HEAD

- Our specialists have developed the most important parts of the diesel engine, cylinder block and cylinder heads, which are suitable for Caterpillare engine 3066, 3304, 3306, 3406, 3116 and CAT C series, Cummins 6CT, 6BT and 4BT. All of our products are manufactured strictly according to original drawings to assure easy installation.

CRANKSHAFT

- CEP supplies crankshaft for Caterpillar®, Komatsu® and Cummins® engine. These crankshafts are manufactured from alloy steel forging or high strength nodular cast iron.
- Manufactured as original drawings to assure easy installation.
- Rigid dynamical balanced to provide long life.
- Forged and precision machined from quality alloy steel.
- Laser quenching to reduce stress concentration.
- Surface treatment by carbonitriding process for high strength and outstanding wear characteristics.
- Casting crankshaft manufactured by intermediate frequency quenching and roll burnish to increase fatigue strength.





COMPRESSOR

- CEP AIR Compressor, Top Quality, Very Competitive Price



BELT

- CEP BELT, High flexibility, High resistance



TURBO CHARGER

- CEP Turbochargers are engineered with the best materials and fine craftsmanship to ensure they conform to our standards of excellence. Our turbochargers are machined and assembled with high dimensional accuracy, resulting in better performance and higher durability



CHAMBER

- Pre-combustion chambers are spaces where fuel is ignited and the combustion process begins. CEP chambers are manufactured by TOP-LEVEL QUALITY.



FUEL LINES

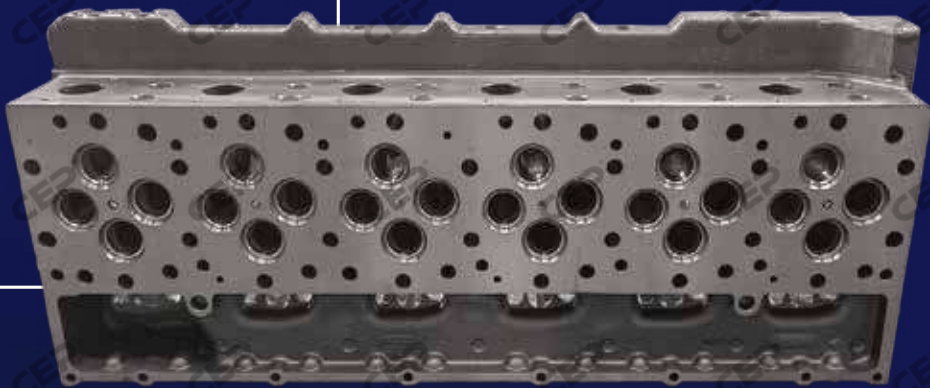
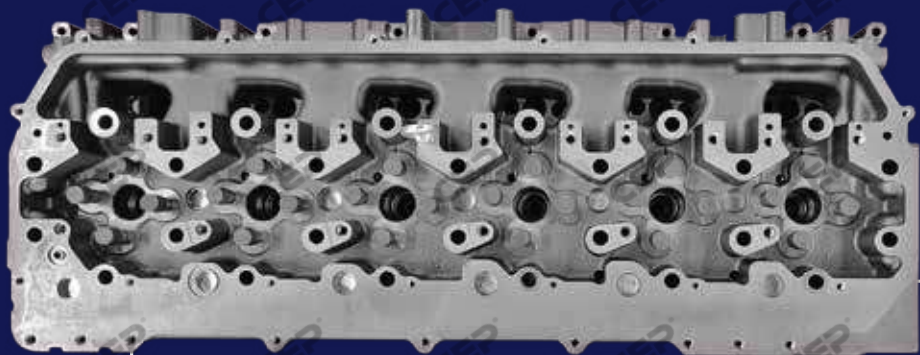
- CEP Fuel lines are manufactured in Italy with OEM quality level, and a complete reference of Fuel Assembly Lines for your demand.

GLOW PLUG

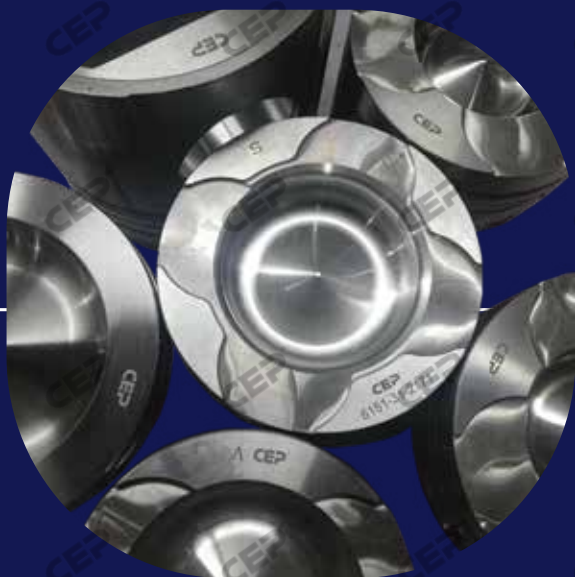
- CEP glow plugs provide in-cylinder heating to aid diesel engine starting in cold weather, reducing the cranking time to start the engine. CEP glow plugs are tested for your rugged work environment.







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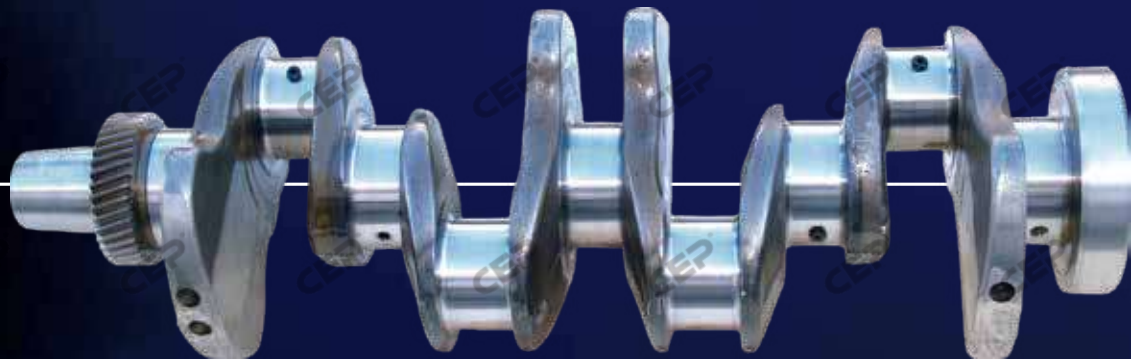
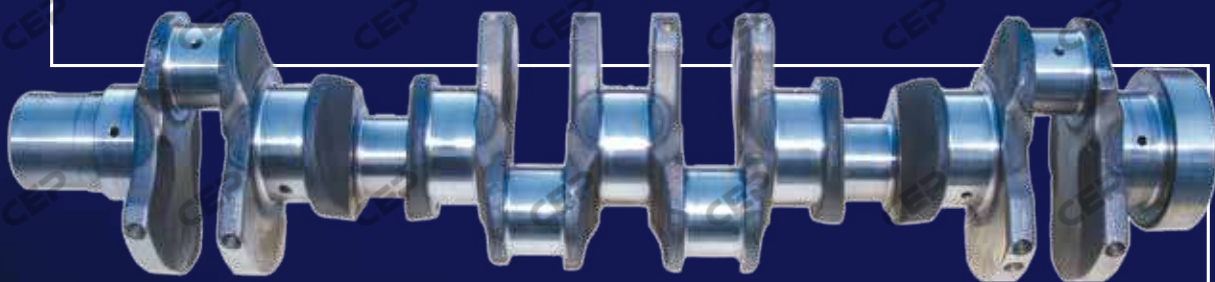


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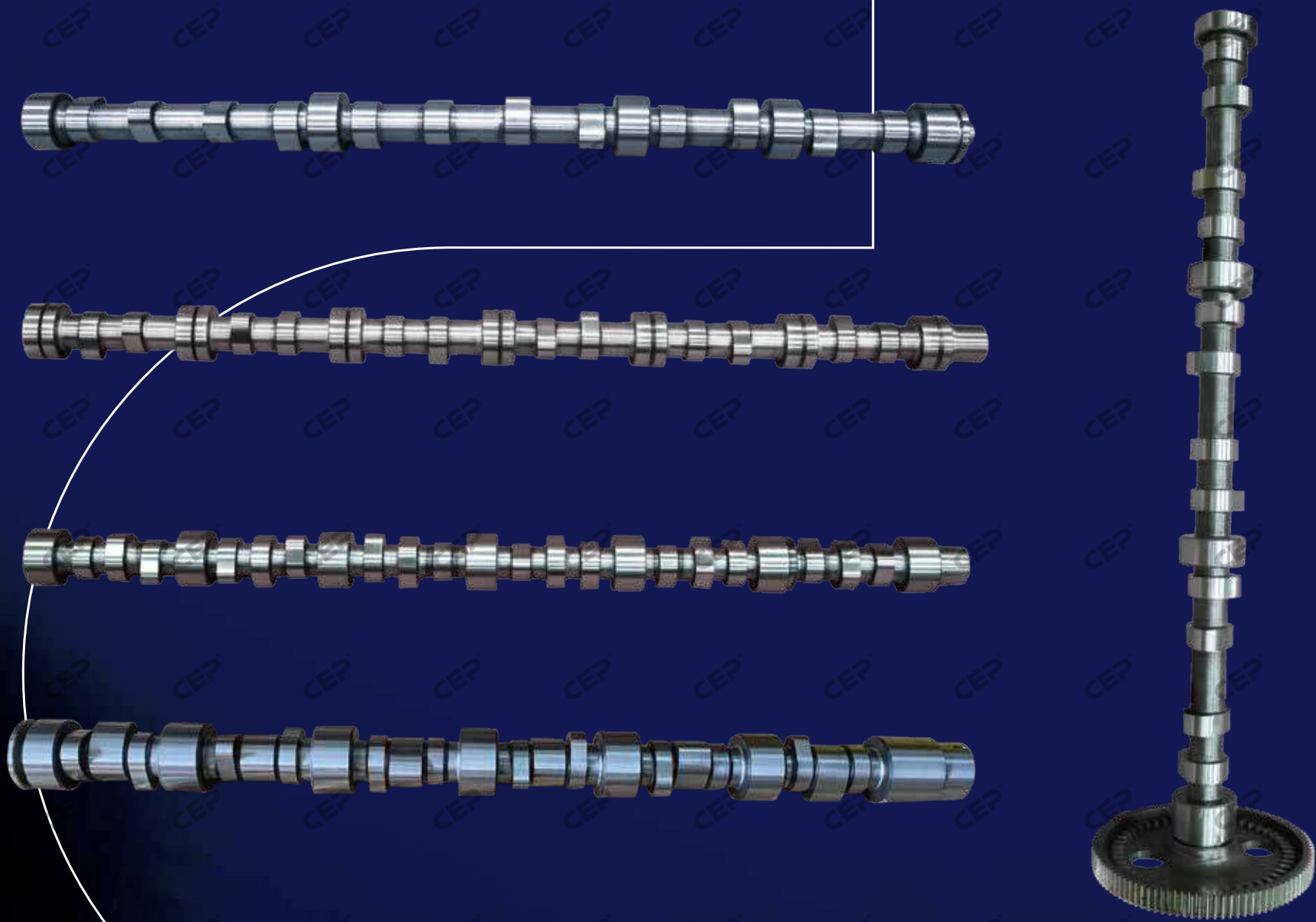
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GEAR PUMPS

- OEM aluminum alloy casting body
- 100% interchangeable with Caterpillar and Komatsu gear pumps.



Vane Pump Cartridge Kits

- Manufactured to the strictest specifications
- Full range of Vickers® Vane Pumps
- Cartridge Kits 100% interchangeable with Caterpillar® Vane Pumps.

Hydraulic Cylinders

- CEP Hydraulic Cylinders are on the job every day, with superior strength and dent resistance reducing costly maintenance and downtime.





Hydraulic Hoses & Fittings

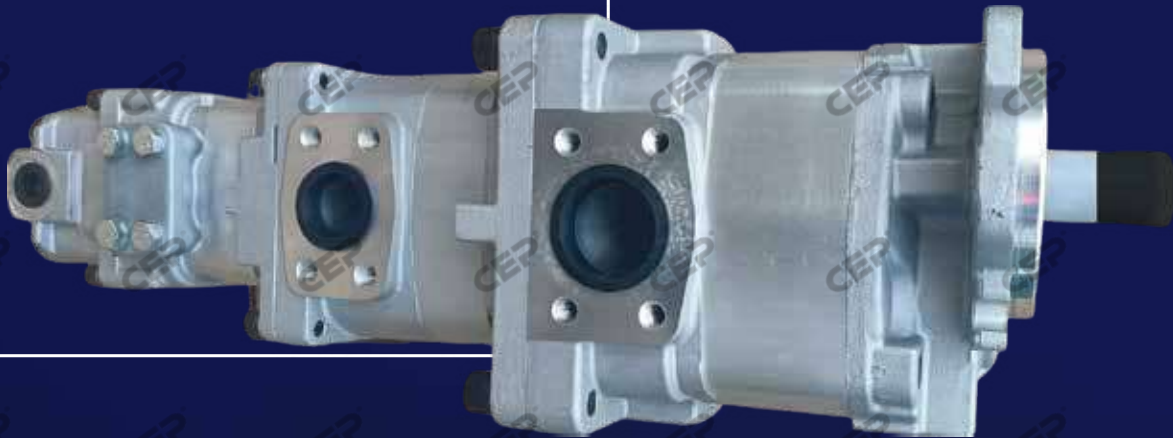
- CEP offers wide variety of hydraulic hoses, fittings and couplings that are available for quick delivery to keep your machine up and running.

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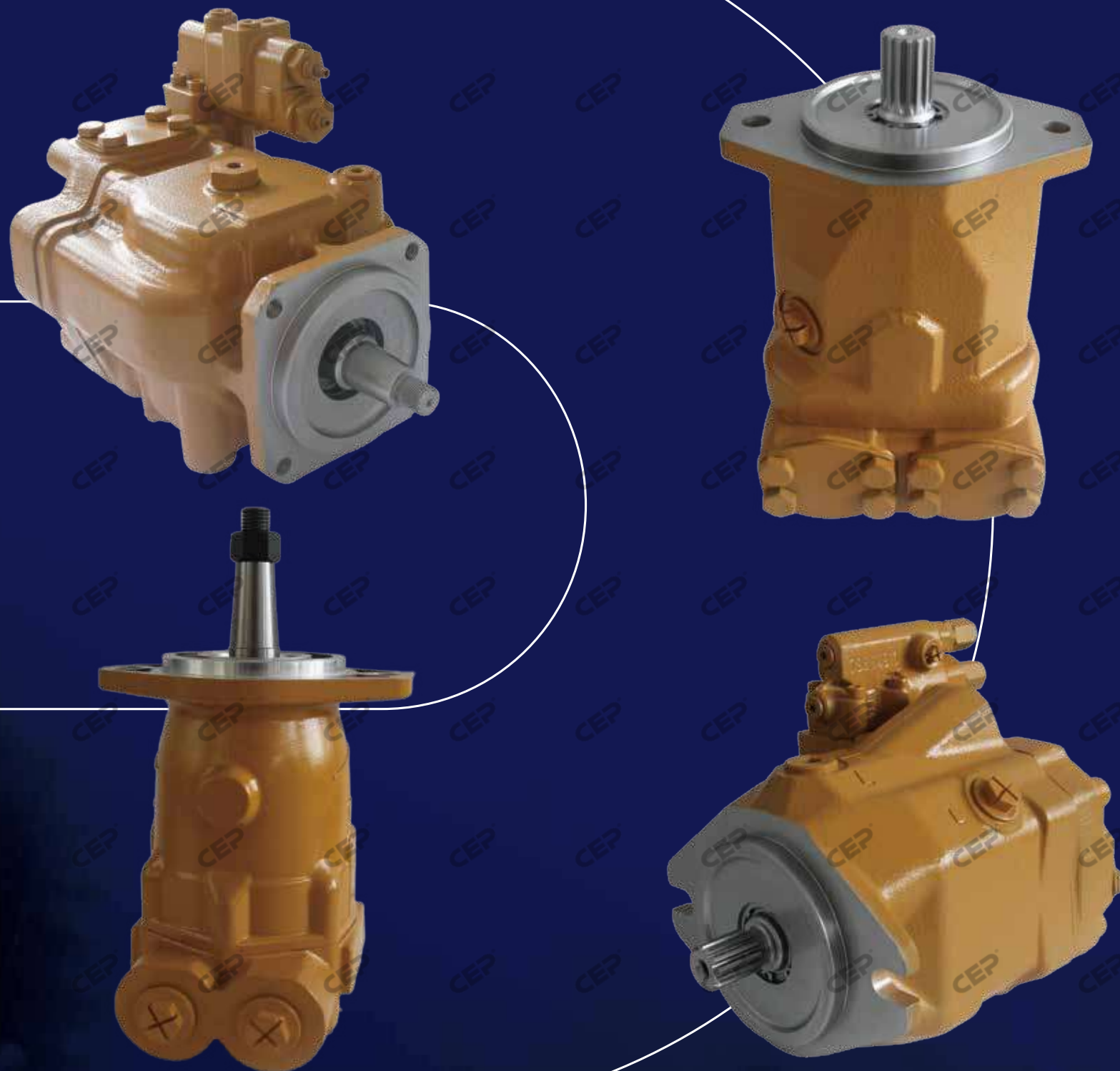


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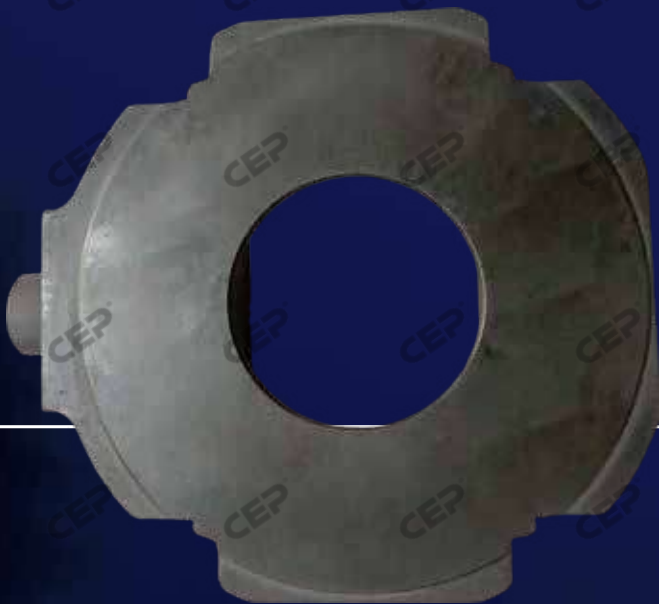
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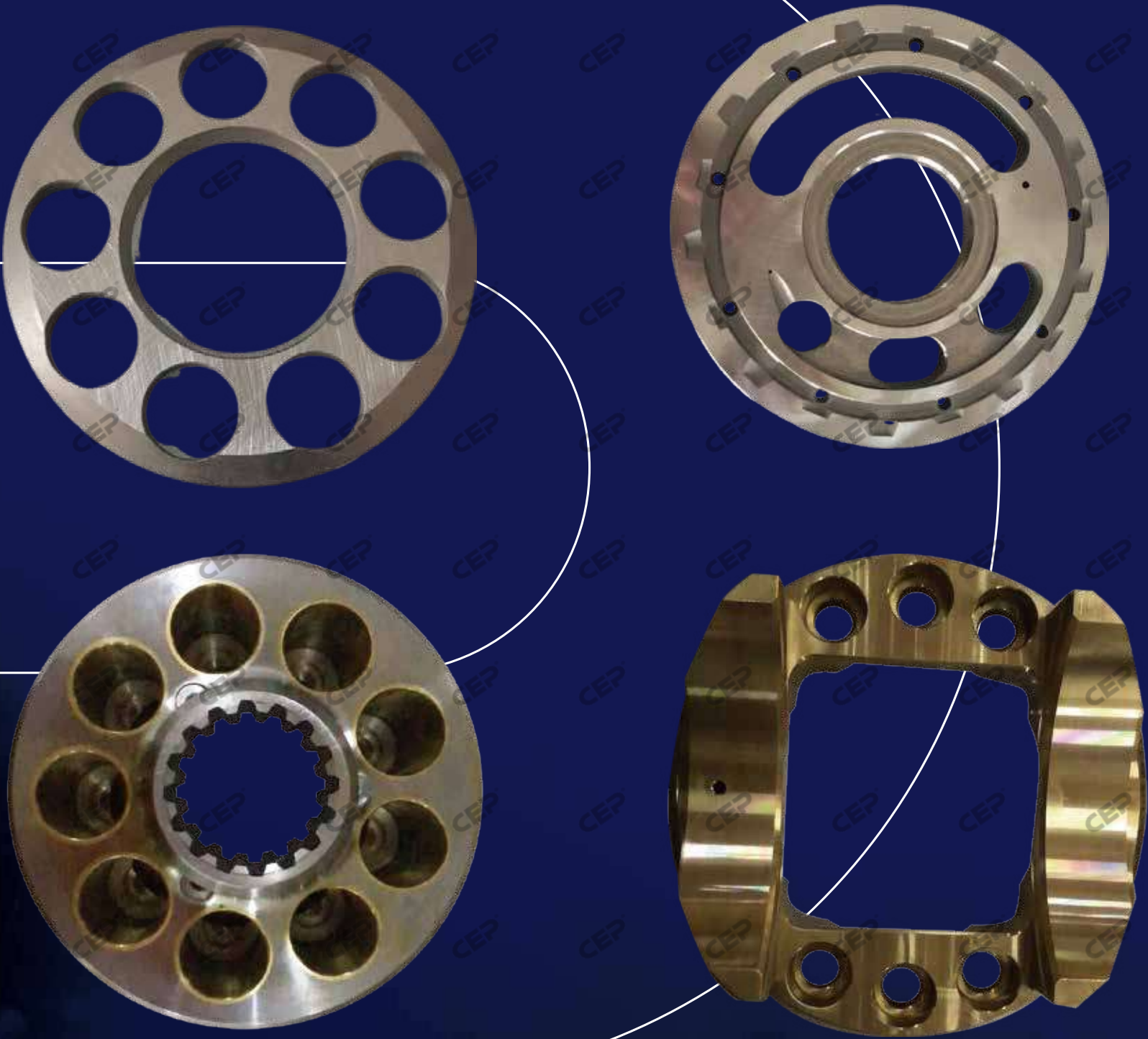
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Gears

- OEM standard highest quality steel
- Heat treated and machined by US heat treatment line and gear manufacturing line
- Gears available for Transmissions, Final Drives and other Heavy-Duty applications.

Steering Clutch Components

- OEM material standard and production process
Inner and Outer Drums. Hubs, Shafts, Cages, Springs, Nuts, Discs and Flanges etc. for Caterpillar® and Komatsu® equipment.





Friction Discs and Brake Bands

- OEM material standard and production process
- Wet or dry applications
- Full range of Sinter Discs, Paper Discs, Carbon Discs, Steel Mating Plates and Brake Bands for Caterpillar® and Komatsu® equipment.

U-Joints

- High strength alloy forging
Precisely machined and tightly sealed
- Full range covering
Caterpillar® and Komatsu® application.





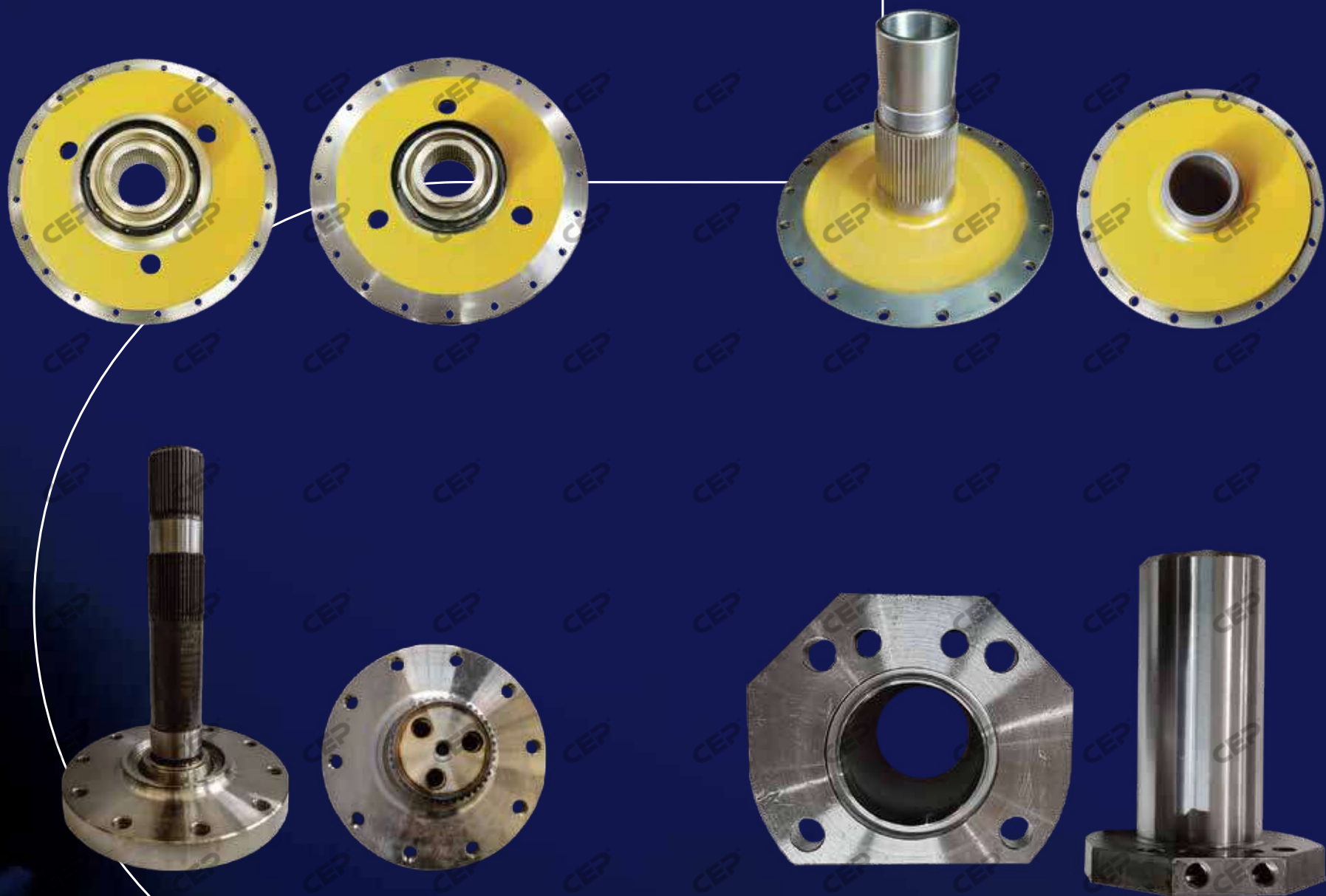
CEP SWING CIRCLE

- OEM Quality
- WIDE PRODUCT RANGE

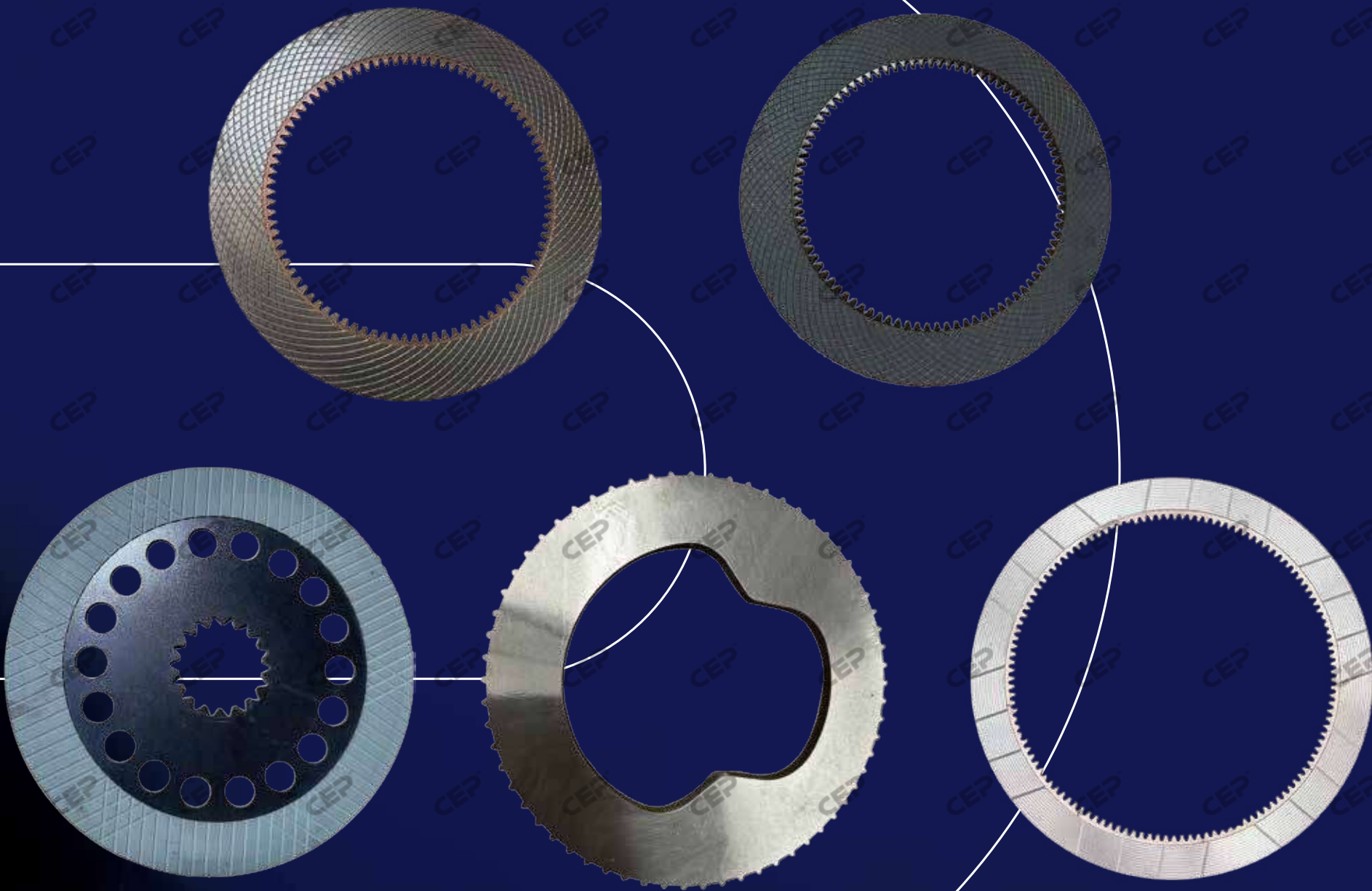
CEP PIN & BUSHING

- TOP QUALITY
USED FOR DIFFERENT
KINDS OF LOADERS &
EXCAVATORS









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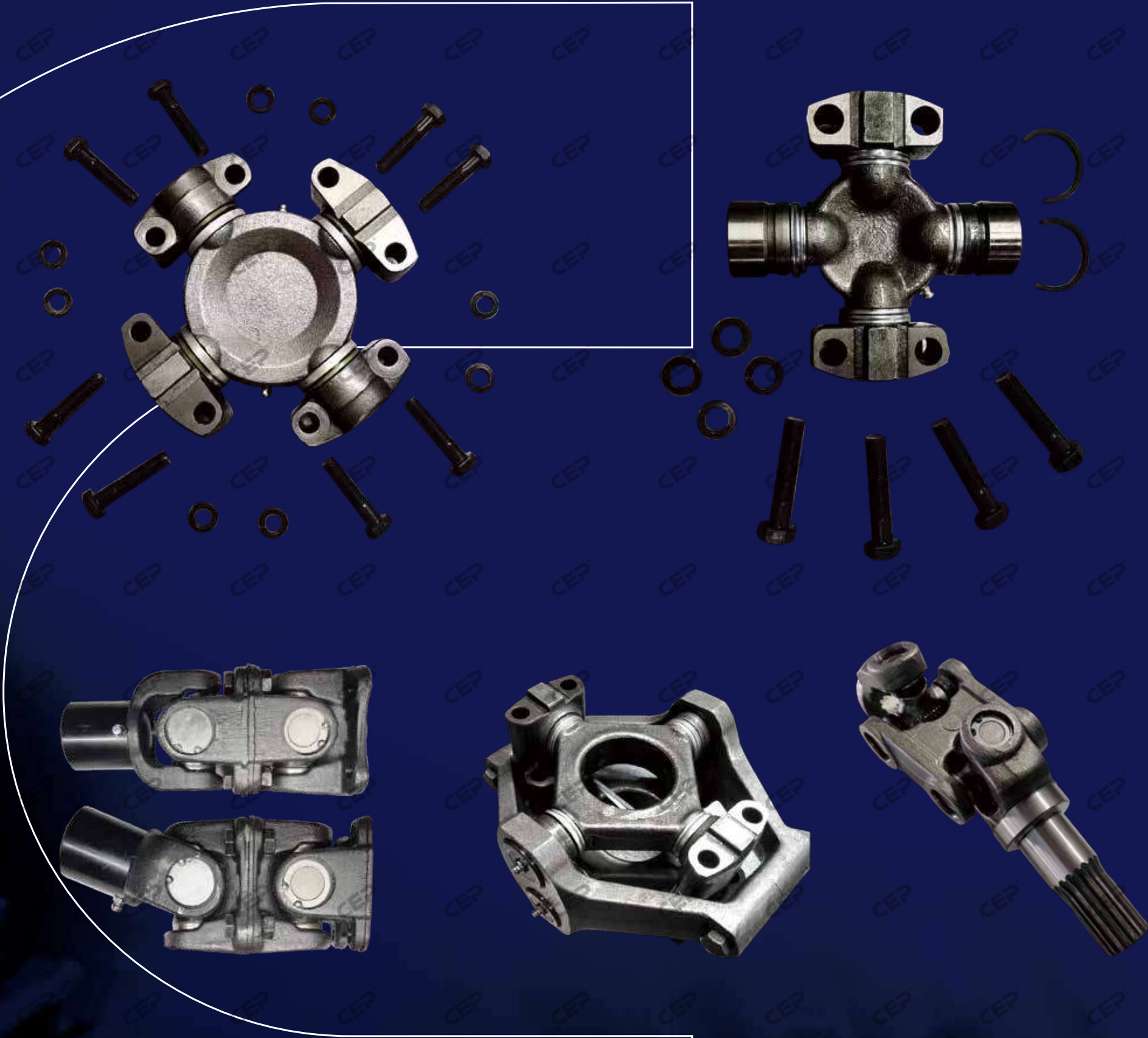


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BOLT AND NUTS

- Different type: Hex head, Metric and Inch, galvanized and phosphated, standard or special measurements.
Allen Head phosphated, metric and inches.
- Wide application:
Applied for Track Link, Sprocket, Segment, Track Shoe, wheel-guide supports etc., Maximum resistance to tension.

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TEETH & ADAPTORS

- High quality special alloy cast iron
- Unique heat treatment procedure



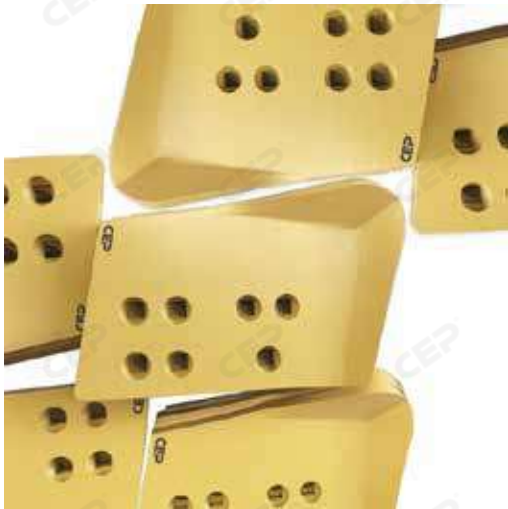
PIN & RETAINERS

- CEP Pins and retainers are made with the toughest materials and the special process to prevent the corrosion.



CUTTING EDGES & BLADES

- CEP Cutting edges & blades are designed and manufactured from the high quality steel to ensure productivity and provide the best performance in your machine



END BITS

- CEP End Bits provide superior strength, longer wear life and increased the productivity of the machine.



BIT CUTTERS

- CEP Bit Cutters are made from steel body 42CrMoA and tungsten carbide tip(KE11) with high wear resistance and impact toughness.

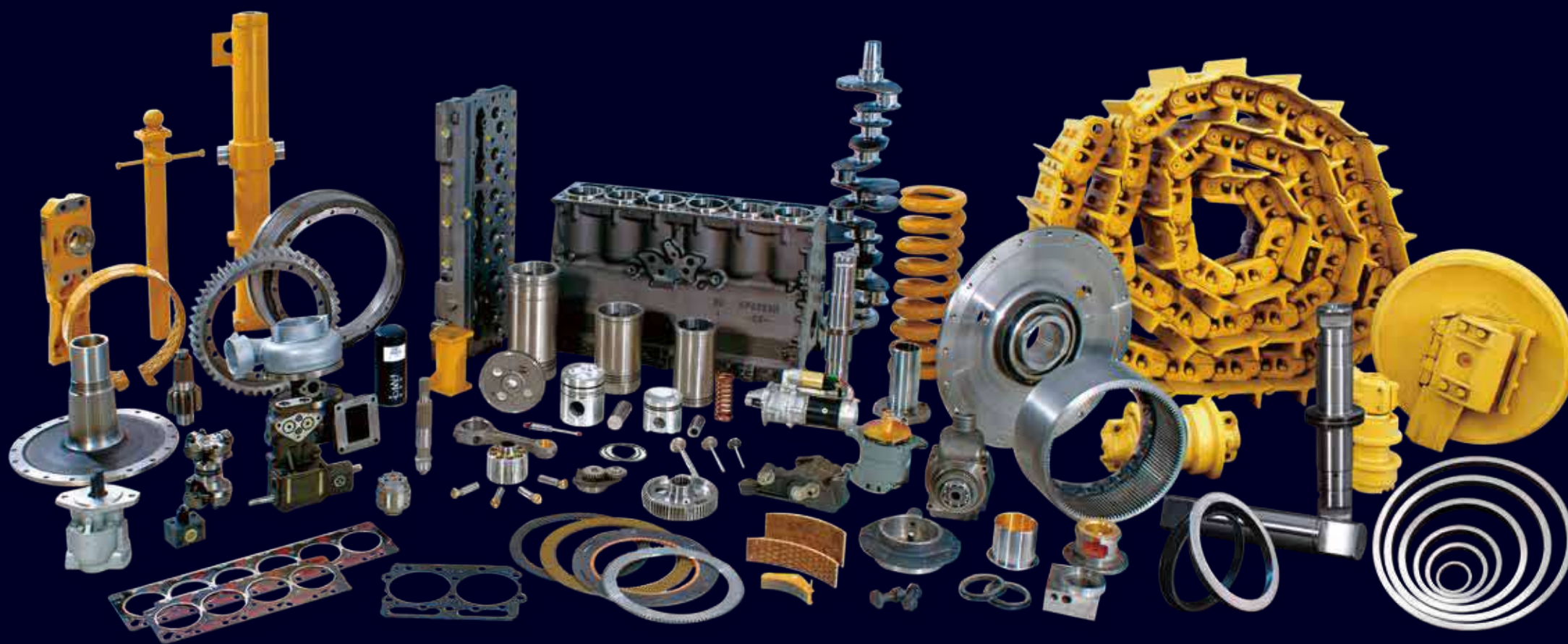
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TRACK CHAINS AND TRACK GROUPS ASSEMBLED

- Sealed and lubricated, greased and sealed
- Excellent oil retention and dirty exclusion
- Excellent seal performance for extreme working conditions
- Use high strength, abrasion-resistant steel with specific heat treatment for life performance
- Available in standard and heavy duty versions

RUBBER TRACKS

- Available for many machine models and applications, specific mix of rubber for wear resistance and damages.
- Internal core specially designed and fully hardened for bending resistance, steel wires with high strength resistance and perfectly positioned for correct tensioning and resistance to breakage





FRONT IDLERS

- CEP offer guaranteed high quality OEM Idlers. Both fabricated and casted version. Using state of the art technology, idlers under go a special heat treatment that provides long durability. Thank to our production capacity and engineering skills we can manufacture according to customer drawing if necessary.





RECOIL SPRINGS & TRACK ADJUSTERS

- CEP Recoil Springs are manufactured with High Quality steel 60Si2Mn or 60Si2Cr Proper heat treatment process Full range adaptable to Caterpillar, Daewoo, Hitachi, Kobelco, Komatsu and Hyundai Brands.CEP Track adjusters ensure optimum shock absorbance, assembled with high quality of seal and internal components to ensure a perfect tension of the Track Chain in order to perform wear performances.The high quality of components prevent leakage problems and high resistance to corrosion also on extreme mud working conditions.



Track Rollers

- Best selection of seal groups, shafts and bushings etc.self-lubricated and maintenance free rotary friction welding by robots Heat treatment performed for the different applications for extreme load applications and extreme working conditions.



CARRIER ROLLERS

- Produced in different version by Bearings or Bushings for the specific applications in order to assure good performances on field.



Track shoes

- CEP Track Shoes are available on many different profiles and dimensions. Obtained by laminated profile using Boron Steel material with a full hardening heat treatment. The Boron Steel with full hardening heat treatment guarantee a perfect resistance on bending and wear life on all field conditions.

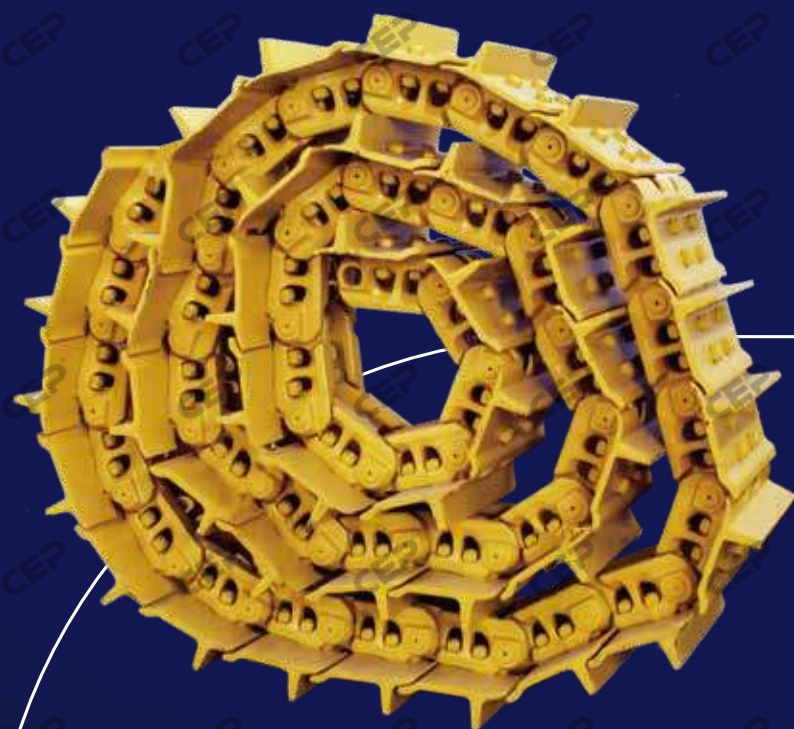


SPROCKETS & SPROCKET SEGMENTS

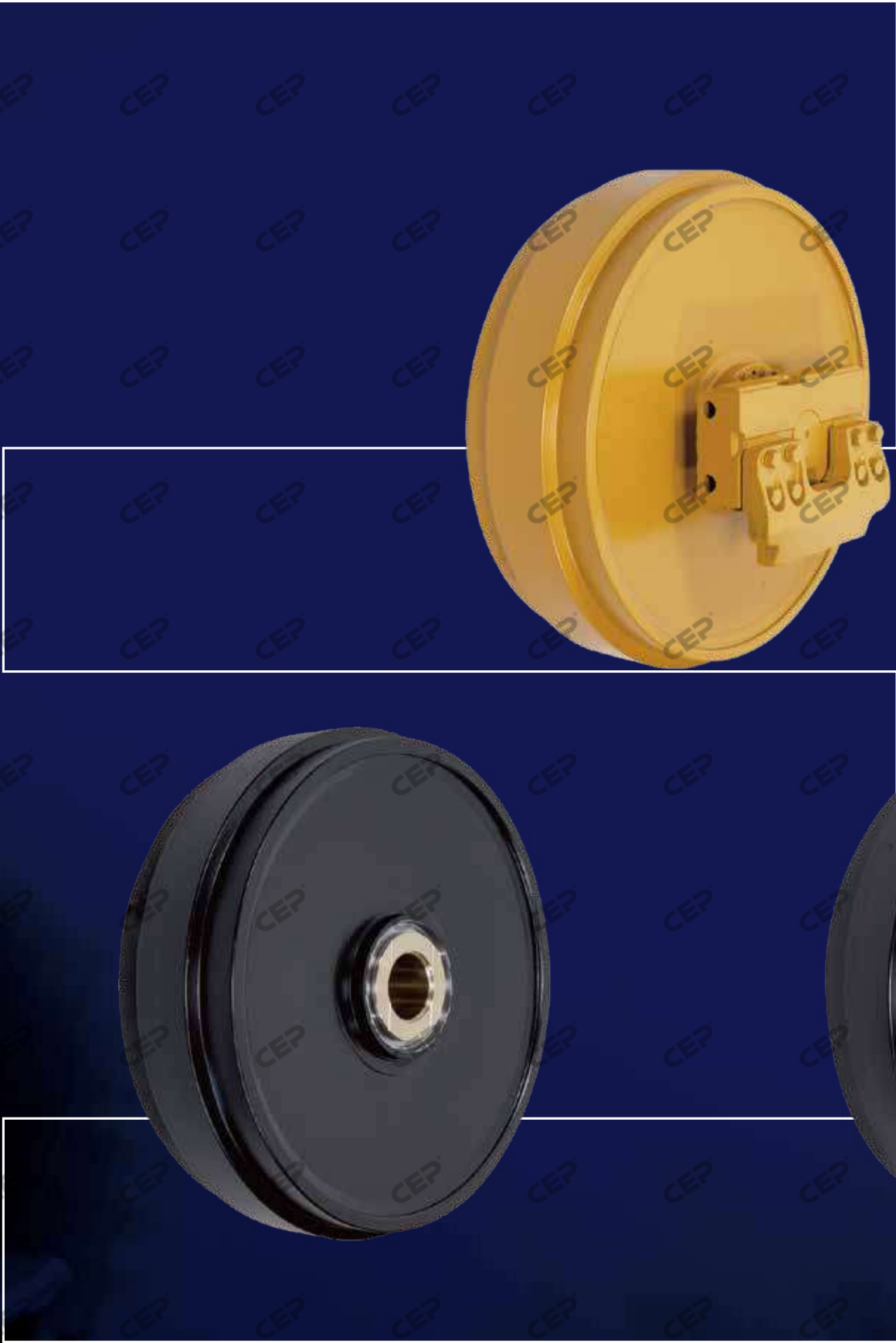
- CEP Sprockets obtained by casting using a specific material in order to obtain the correct mechanical property, machined by CNC machine to guarantee a correct fitting and avoid bolt loosening. Heat treatment performed by single shot for a full hardness on teeth for long wear resistance, tempering operation after heat treatment to avoid chipping problems. CEP Segments obtained by precision forging process for perfect fitting on machine, heat treatment by full hardening for long wear life and bolt loosening.

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RC Front Idler for Komatsu PC2000

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SEALS

- “CEP seals are manufactured with materials specifically to handle the rising pressures and temperatures of hydraulic cylinders. Resealing hydraulic cylinders quickly and effectively is just one of the many ways you can help reduce operating costs and improve the performance of your machine’s hydraulic system.”
- CEP offer CYLINDER SEALS FOR Hydraulic Cylinder, including:
Press -In Wiper Seals, Snap-In Wiper Seals, Snubber Seals, U-Cup Rod Seals, Buffer Seals, Head Seals, Head Wear Rings, Metal Bearing Head Wear Rings, Piston Seals, Piston Wear Rings

O’RING KIT

- CEP o -ring kits are manufactured with specific sealing materials to ensure long life.Each kit includes an assortment of O -rings, plus a sturdy plastic container with individual compartments and a lid that locks for protection.
- Various O -Ring Styles Include:
Hydraulic seals, Silicone O -rings, Metric O -rings, Nitrile O -rings, High temperature O-rings





GASKET AND GASKET KIT

- CEP has a wide range of gaskets and gasket kits for Caterpillar, Komatsu and Cummins.
All the kits supplied by cep relating to these applications are produced in line with OEM specifications.
In our range of gaskets you will find excellent sealing characteristics, resistance to erosion and competitive prices.

Including

● UPPER STRUCTURE

- Multiple Cylinder Head
- Single Cylinder Head
- Manifold Gasket Kit
- Aftercooler & Lines Kit
- Turbocharger Mounting Kit

● CENTRAL & LOWER STRUCTURE

- Cylinder Block & Oil Pan Gasket
- Single Cylinder Liner Kit
- Oil Pump Kit

● FRONT STRUCTURE

Front Cover & Housing Gasket Kit

● REAR STRUCTURE

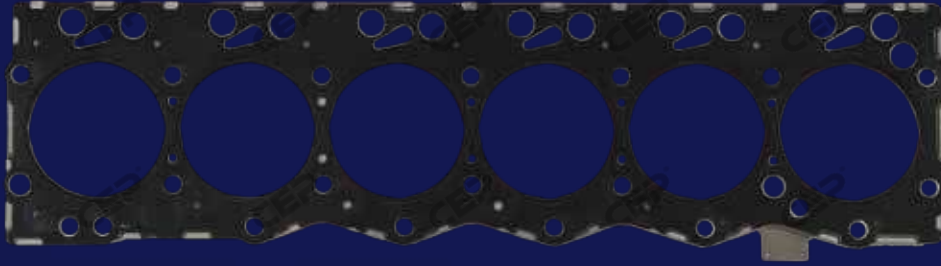
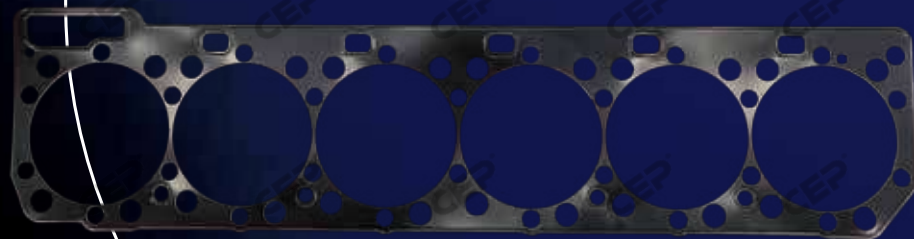
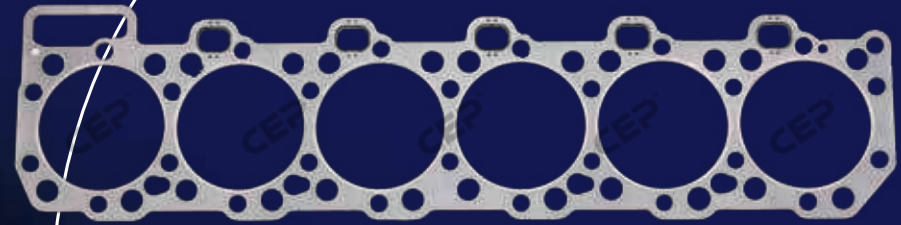
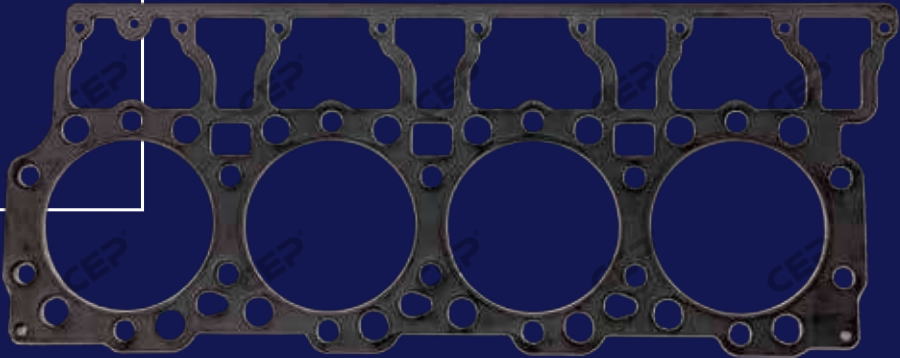
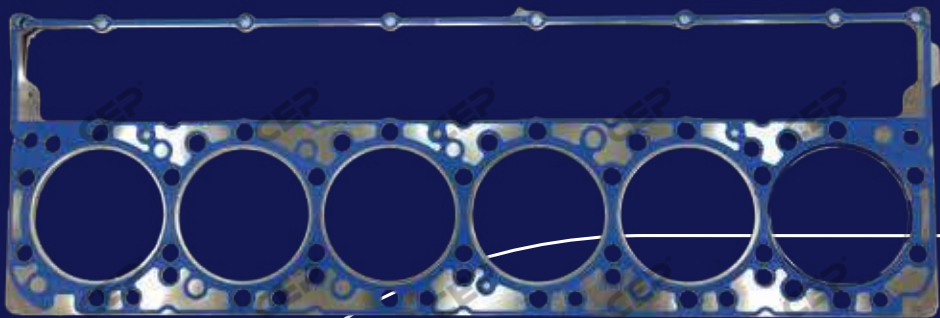
Rear Cover & Housing Gasket Kit
Water Lines Kit

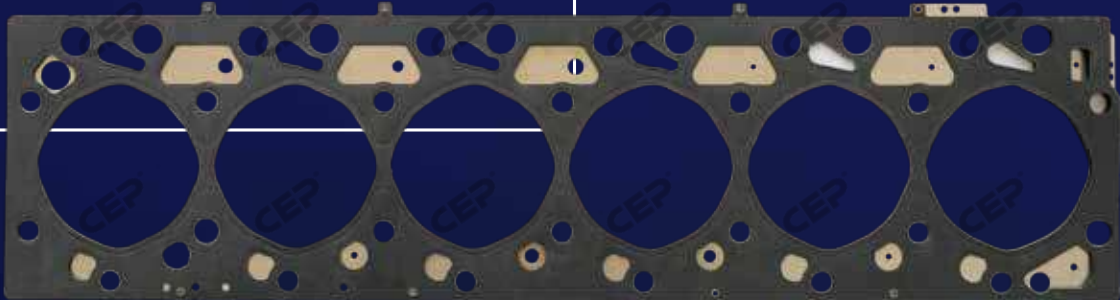
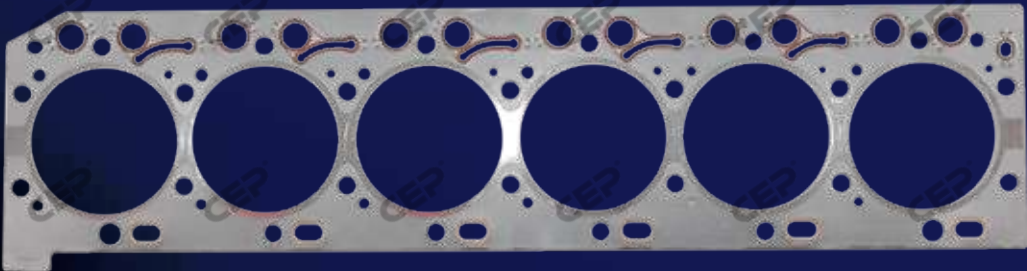
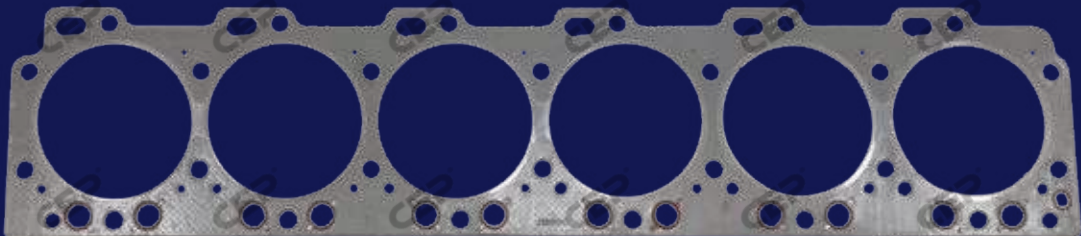
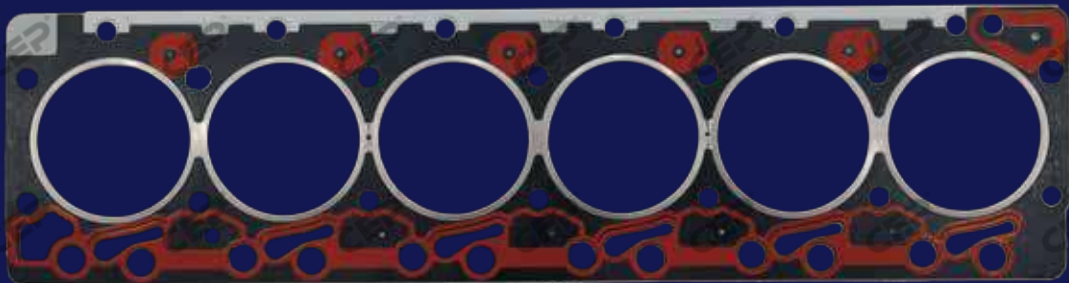
● FUEL SYSTEM

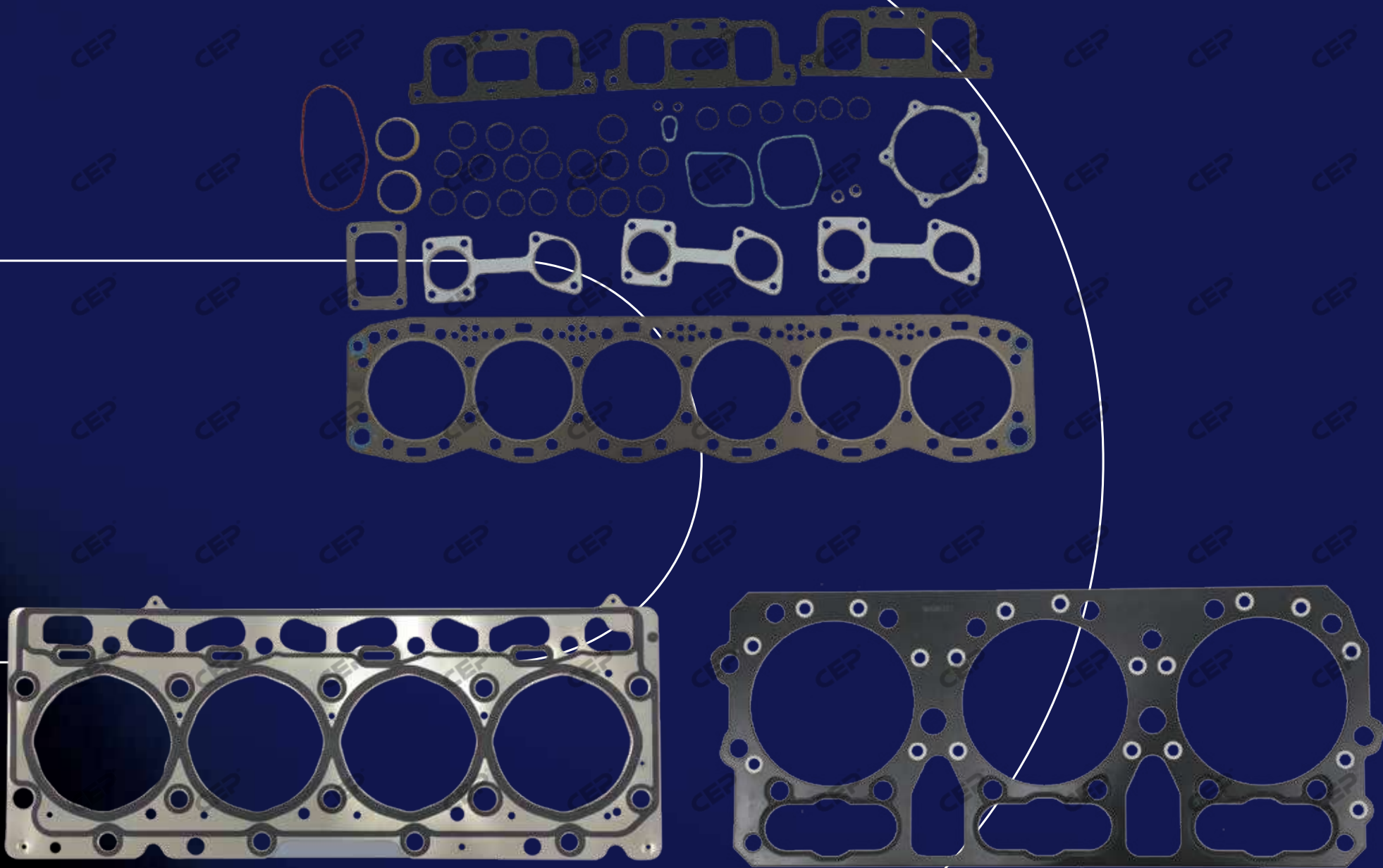
Scroll & sleeve Metering Fuel System Kit

● OLD STYLE GROUP

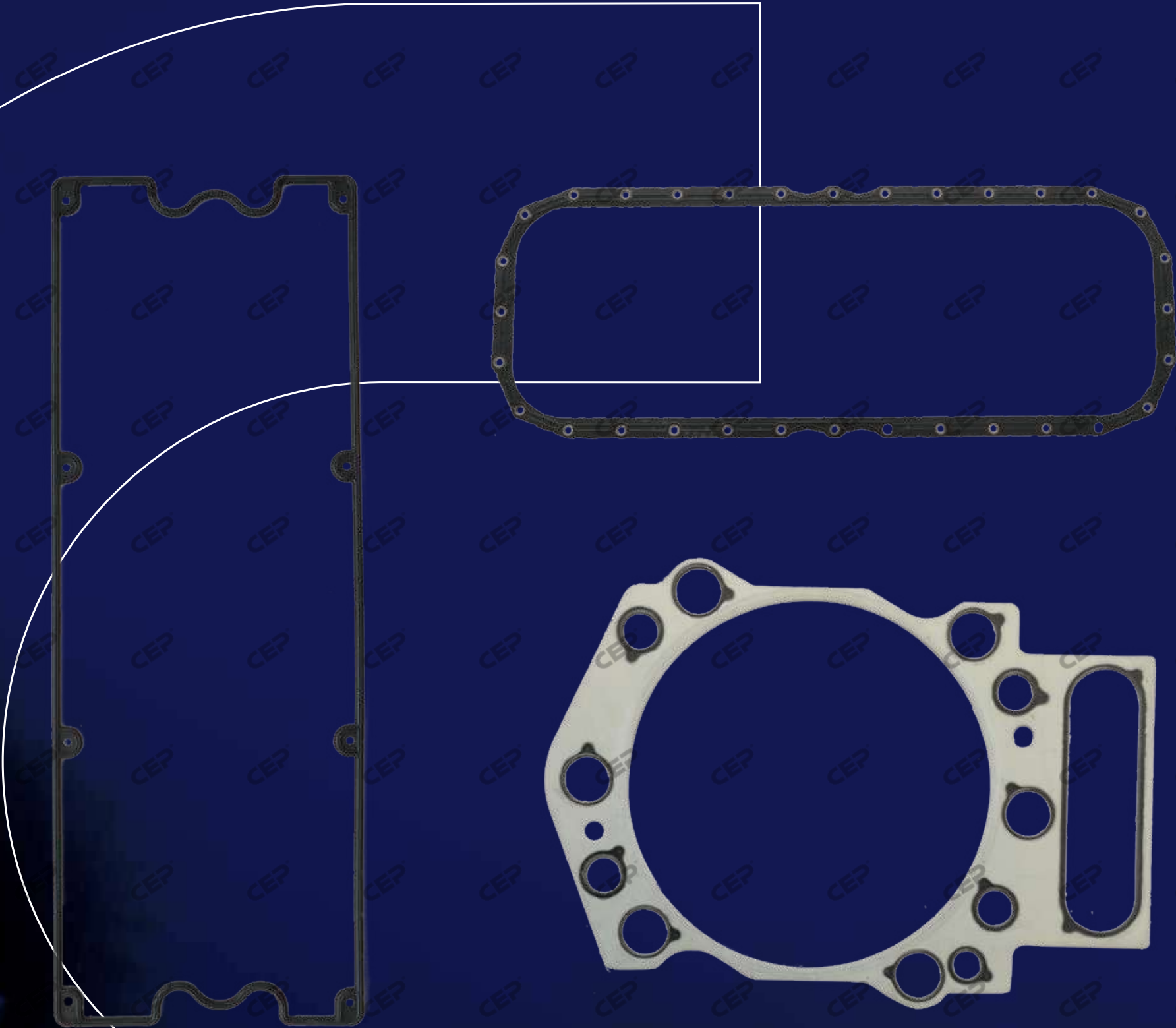
Complete Overhaul Kit is made up of one the Basic Kit and one Supplemental Kit
Valve Grinding Kit is all that you needed for all the heads of any Engine
CEP also offers you the full range of Gasket and Seals for Komatsu and Cummins machines







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ALTERNATOR

- All of the CEP alternators go through extensive testing and quality control measures throughout the production process.

STARTING MOTOR

- CEP electrical starting motors give consistent performance and outstanding wear resistance at an excellent value.





SENSORS

- CEP sensors provide an accurate and reliable mean of converting rotational speed into a signal that can be measured by electronic control equipment.

SOLENOID

- CEP Solenoids offer long service and value, they generatean essentially uniform magnetic field when currents run through it and convert electric current to mechanical action, providing a simple means to generate a strong magnetic field.





GOVERNOR CONTROL MOTORS

- CEP Governors provide reliable and precise control of engine speed and output, with high quality and performance.



LIGHTING

- CEP lamp assemblies are broad beamed, high intensity lamps that provide excellent visibility during low light conditions. CEP lights help turn night into day and increase productivity of both machines and operators



GAUGES

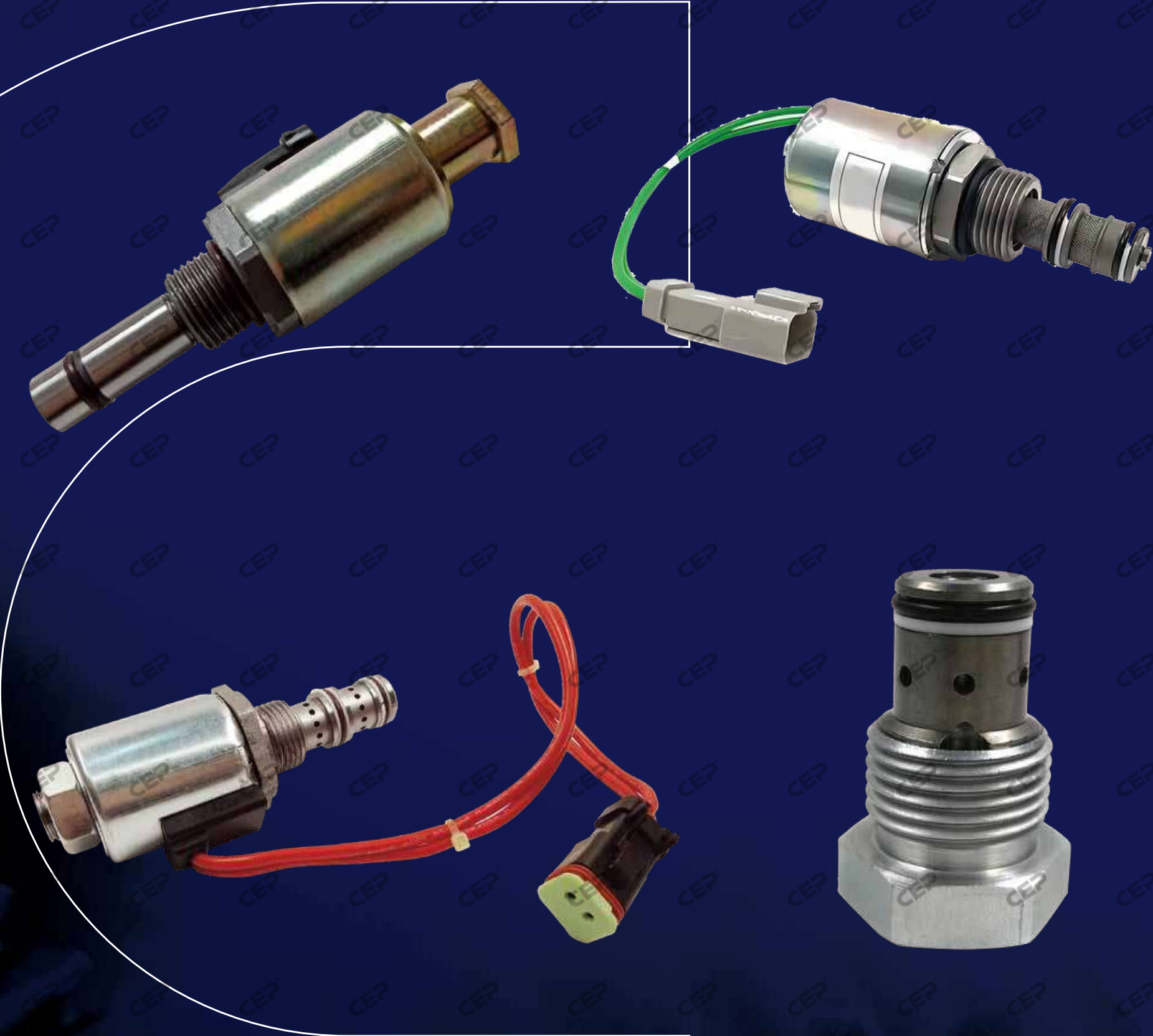
- CEP cover a broad range of gauges for all of your machine's needs. From electrical temperature gauges to mechanical pressure gauges, our state-of-the-art technology will allow you to get any needed measurement with accurate results.

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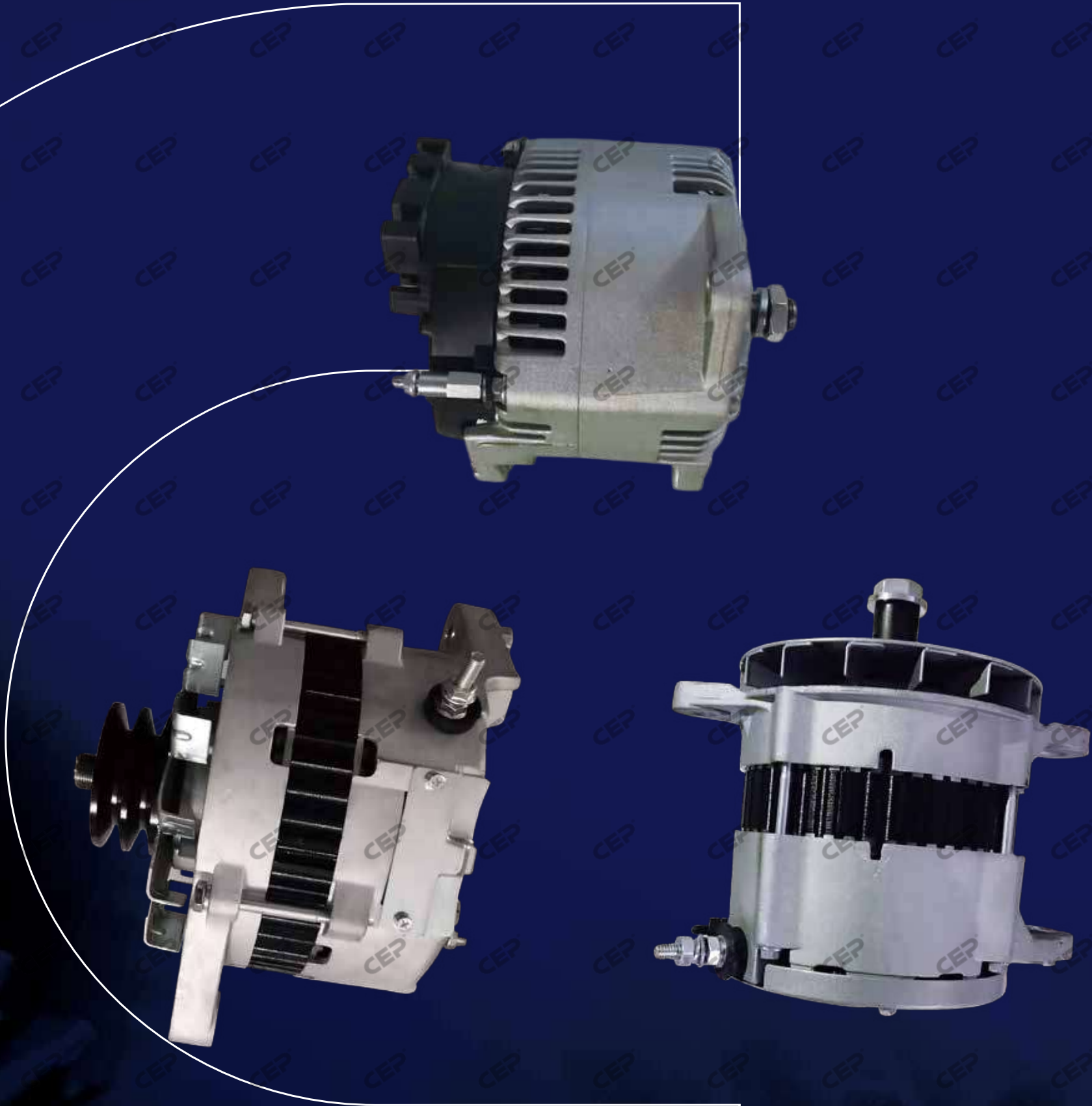








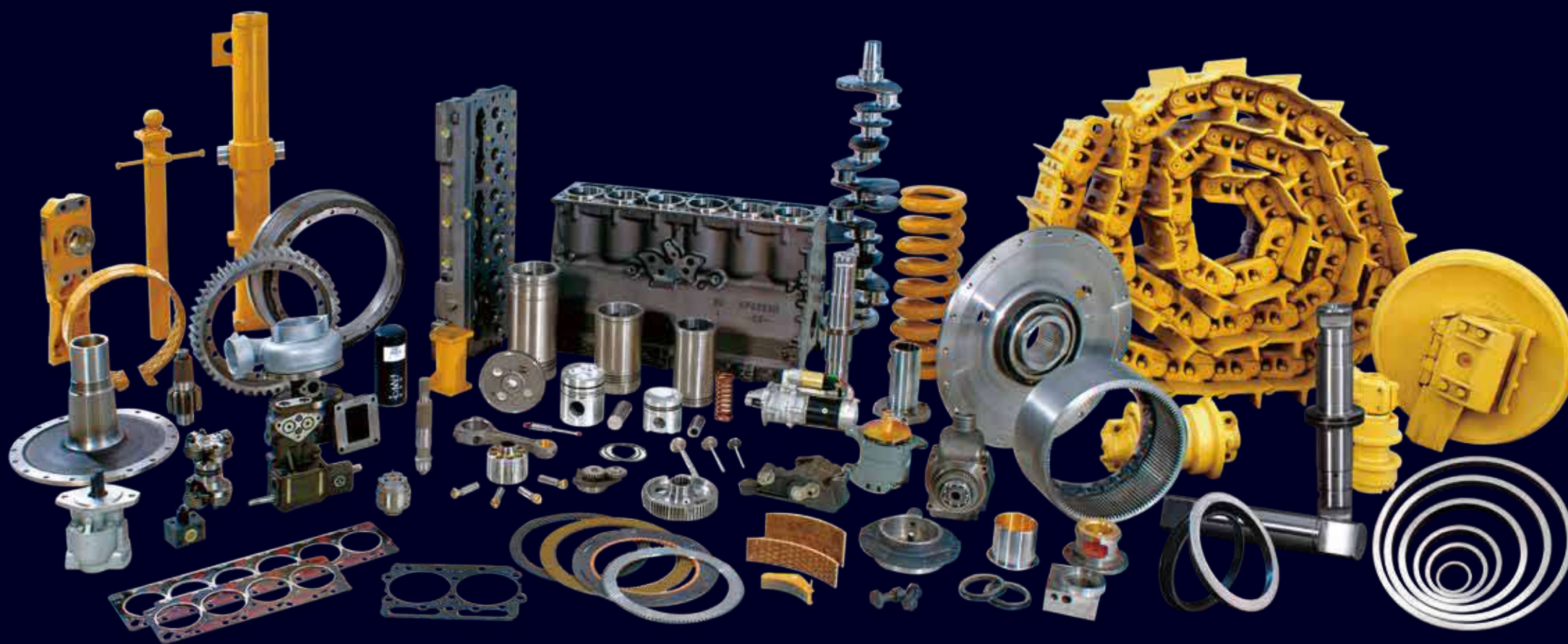






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INJECTORS

- CEP injectors have high quality with the right fuel delivery, uniformity, injecting angle and atomization to increased fuel efficiency and performance.



NOZZLE

- CEP nozzles can regulates the flow of fuel to the ultimate ignition Compartment.



PLUNGERS & BARRELS

- CEP Plungers & Barrels are with highquality that will assure you achieve an upgrade on your fuel system as well as the desired engine performance.

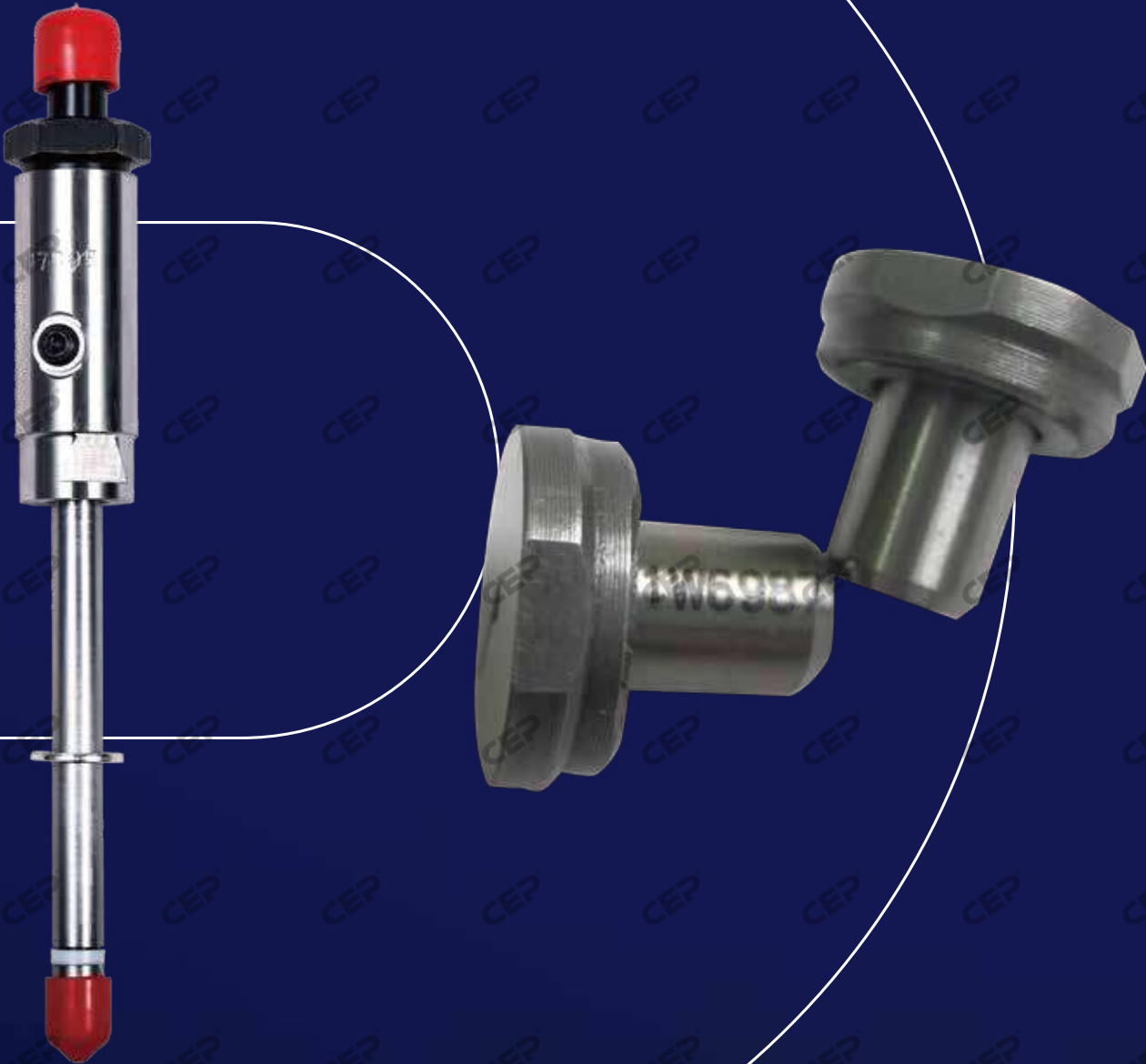
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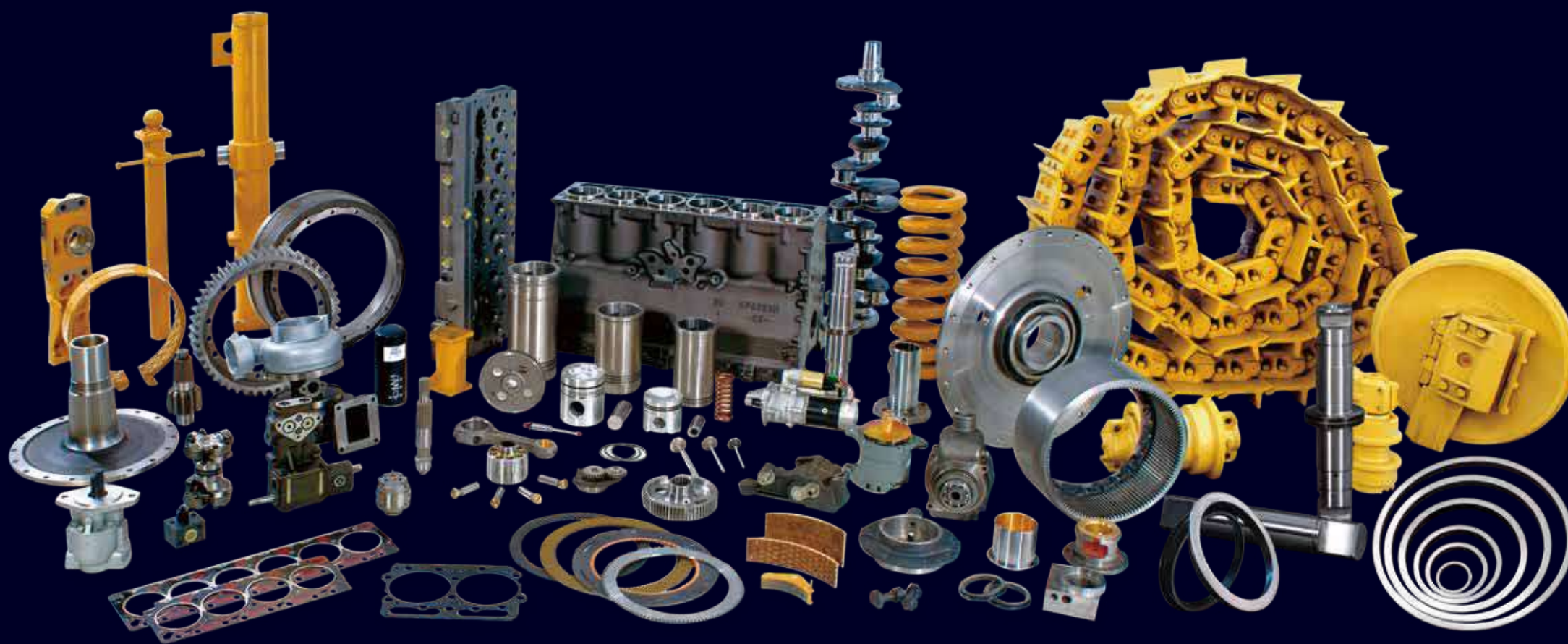






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FILTERS



FILTERS

- The following are some of the CEP filtration products available for your heavy equipment:
 - . Oil and Fuel Filters
 - . Separators
 - . Hydraulic filters
 - . Strainers
 - . Air filters and more



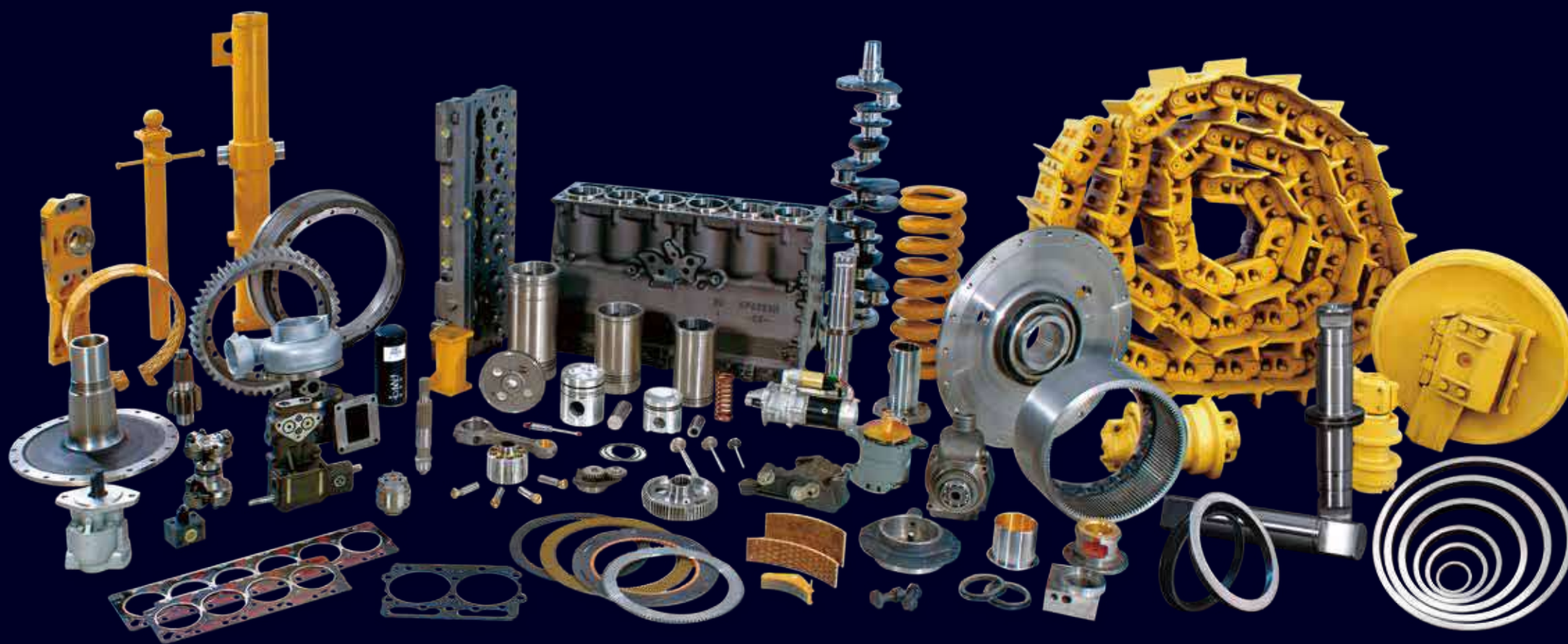


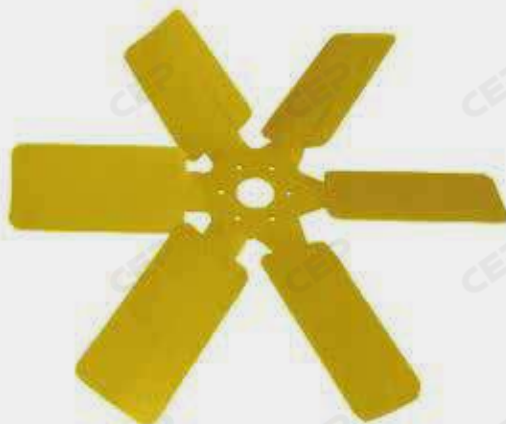




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FAN

- CEP fans are perfectly balanced to run more efficiently. Full range and wide usages.



OIL COOLER

- CEP oil coolers are pressure tested in our facilities to ensure leak -proof quality



RADIATOR CORE

- CEP special folded core radiators are designed to resist vibration and stress damage, increasing reliability and life of your machine



RADIATOR ASSY

- CEP Radiator assy are designed and produced according to Original equipments' specifications, with good performance for your cooling system.



A/C COMPRESSOR

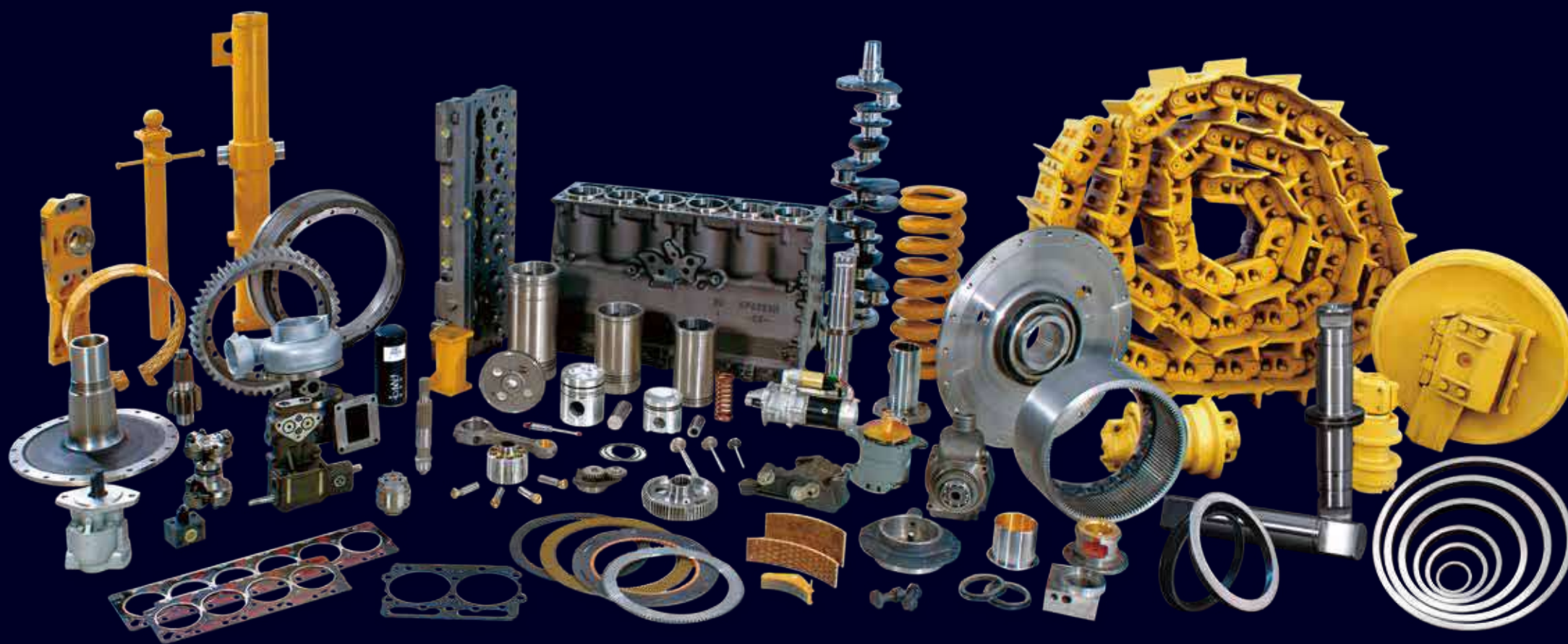
- CEP A/C compressor, produced by OEM factory with wide product range and very good performance.





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TAPERED ROLLER BEARINGS

- Tapered roller bearings, the most common and fast moving bearings, are rolling element bearings that can support axial forces as well as radial forces.
- Taper Roller Bearings have tapered raceways & between them taper rollers are arranged, resulting in meeting at a single point on central Axis. They are also available in double and four rows.



BALL BEARINGS

- Ball bearing is a type of rolling-element bearing that uses balls to maintain the separation between the bearing races. Developed to reduce rotational friction and support radial and axial loads.



SPHERICAL ROLLER BEARINGS

- A spherical roller bearing is a rolling element bearing that permits rotation with low friction, and permits angular misalignment. Typically these bearings support a rotating shaft in the bore of the inner ring that may be misaligned in respect to the outer ring. Designed to withstand high loads, different types of environment shocks and vibrations.



NEEDLE ROLLER BEARINGS

- A needle roller bearing is a special type of roller bearing which uses long, thin cylindrical rollers resembling needles. They have a greater surface area in contact with the races, so they can support a greater load. They are also thinner, so they require less clearance between the axle and the surrounding structure. heavily used in automobile components such as rocker arm pivots, pumps, compressors, and transmissions.



SPHERICAL PLAIN BEARING

- Spherical plain bearings are used in equipment that undergo articulated movement, involving oscillating or aligning motions. CEP Spherical plain bearings are manufactured with high quality material and technology, makes your machine to move easily and efficiently.

CYLINDRICAL ROLLER BEARINGS

- The Cylindrical roller bearings are in linear contact with the raceways. They have a high radial load capacity and are suitable for high speeds. There are different types of cylindrical roller bearings suitable for various applications. The cylindrical shape allows the inner ring to have axial movement relative to the outer ring. This allows thermal expansion, where both rings must be pressfitted.



