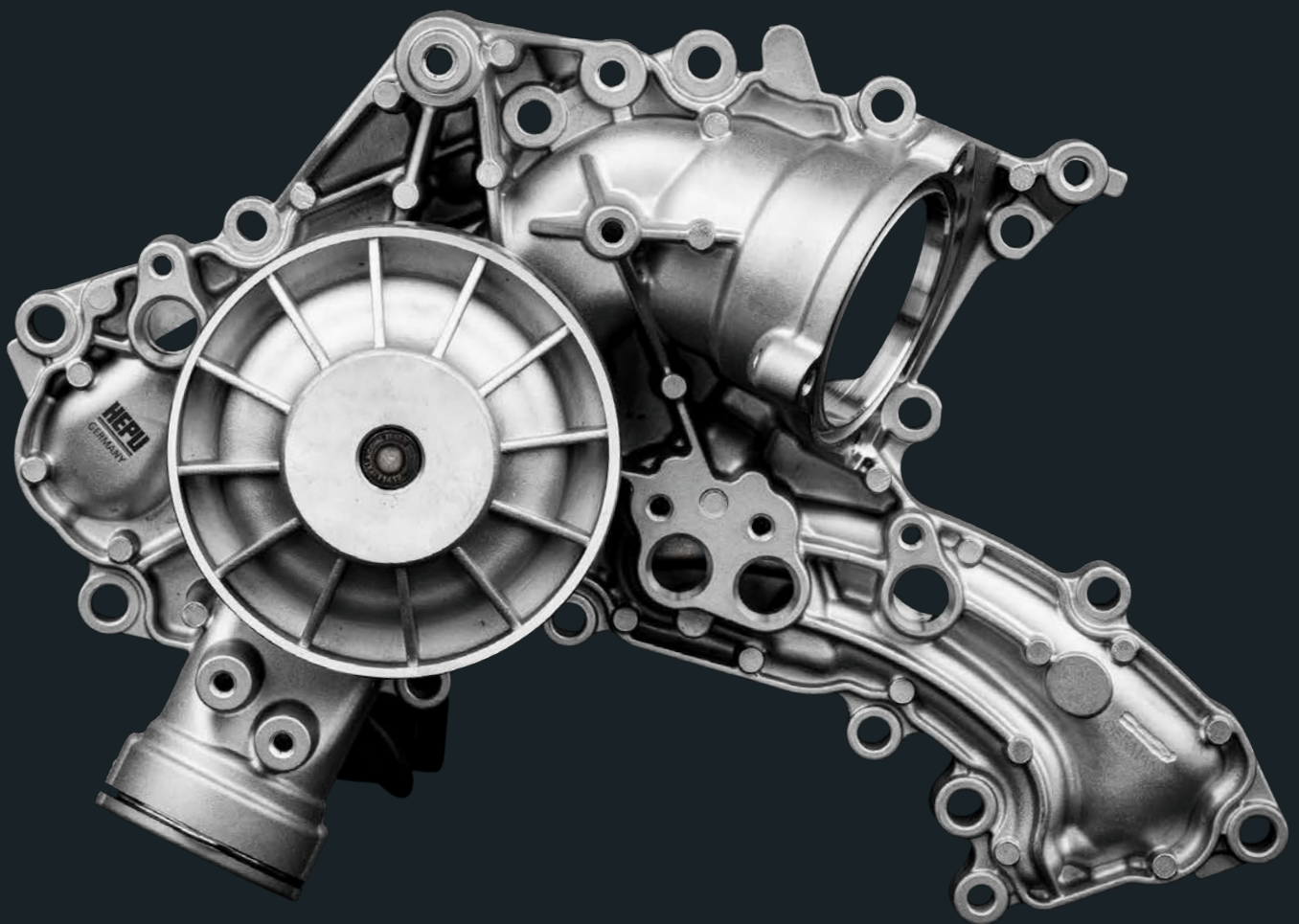


HEPU®



MADE IN GERMANY
SINCE 1958

THE CULTURE OF COOLING



PUMP TECHNOLOGIES / TIMING SYSTEMS
THERMAL MANAGEMENT / FLUIDS

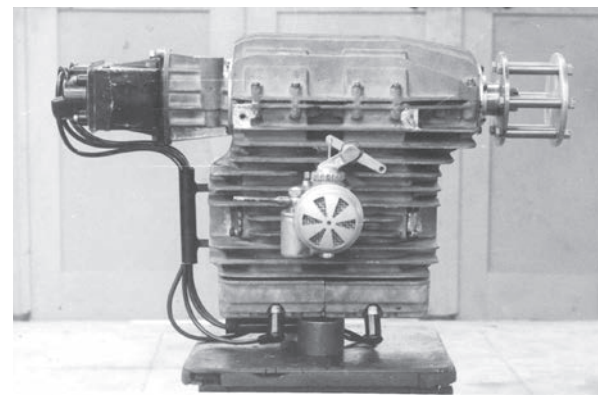
MADE IN GERMANY | SINCE 1958

Heritage. Engineering. Responsibility.

For nearly seven decades, HEPU® has combined German manufacturing expertise with dependable supply and one clear focus: **safe repairs.**



Production and warehouse facility for water pumps in Bad Oeynhausen, year 1968, former chocolate factory.



1950s – Topsy Nipper's engine, a sport aircraft from the company's earliest engineering era.

Since 1958

HEPU's story begins with engineering – from the Pollmann family's early workshops and motorcycle conversions to certified aircraft engines (picture).

In 1958, that ambition took us to our first water pump, built under part number P90 for the Opel Rekord A.

From our headquarter in Kalletal, HEPU® grew into an international „Made in Germany“ brand. In 2007, we introduced the world's first water pump kit – a concept that reshaped the aftermarket. Timing kits, thermal management and a full pump technology programme followed.

More than six decades on, the principle is unchanged:
Quality | Trust | Technology.

Why HEPU?

German manufacturer, not just a label. Development, material selection, machining, assembly, inspection and technical support – one connected process which takes place in Kalletal, Germany.

An OE-quality mindset. Fit, function and durability measured against the original application – with selective material upgrades where they add real durability.

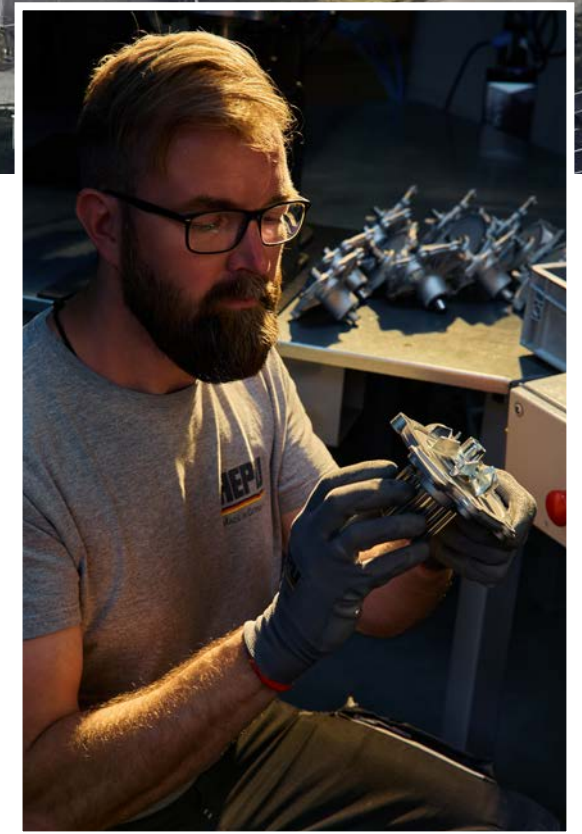
Everything the job needs. Complete repair kits under one part number – no missing parts, no compromise, no second trip to the shelf.

Long-term over short-term. Family ownership invests in reputation, partnerships and reliability – not short-lived trends.

Short decision paths. Management, engineering, production and sales stay close – so we react faster to workshop feedback.

Pump technology that lasts. Steel impellers and needle bearings outlast plastic and ball-bearing designs under real workshop conditions.

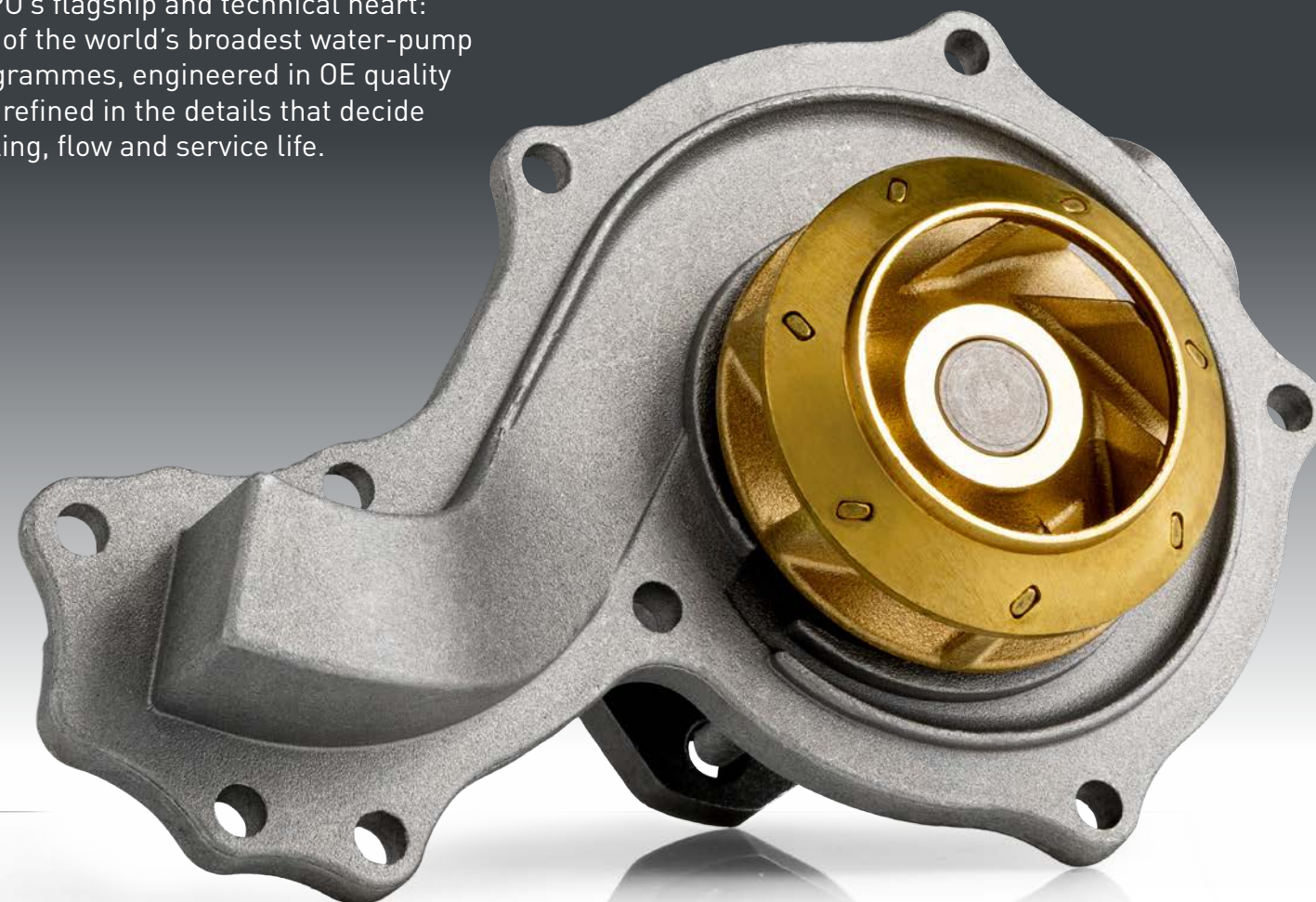
Wide coverage, reliable supply. Extensive application coverage with dependable fulfilment – fewer backorders and less pressure on your shelf.



Stephan Czach, Production Manager – quality control in Kalletal.

Water Pumps

HEPU's flagship and technical heart: one of the world's broadest water-pump programmes, engineered in OE quality and refined in the details that decide sealing, flow and service life.



The parts that decide reliability are hidden after installation. This is what's inside every HEPU® pump:

Engineering & Construction

OE quality or better.

Geometry and performance follow the original – with upgrades where the OE design has a known weakness.

Rigorous functional testing.

Operation, leakage and pressure verified before the part reaches the workshop.

Wear-resistant internals.

High-load bearings, hardened shafts and carbon-ceramic/silicon-carbide seals withstand belt forces and stay leak-tight.

Precision-machined, flow-optimised.

Accurate flanges for easy fitting and even gasket compression; impeller geometry and cavitation resistance for consistent flow from idle to full load.



Water pumps are the category that defines HEPU®. For decades, the brand has stood for high-quality pumps – where heritage, production know-how and market recognition meet.

From mechanical, electric and switchable to auxiliary and commercial-vehicle pumps, the range covers conventional, hybrid and electric applications. Its world-leading breadth lets you consolidate more demand with one specialist brand while broad coverage, exact catalogue assignment and strong availability give fast access to the right part and cut vehicle downtime.

Metal is First Choice

Dimensionally stable and mechanically stronger impeller.

Holds its geometry and blade shape through repeated heat cycles, keeping flow consistent and reducing overheating risk. Resists the cracking, deformation and ageing that affect plastic impellers in hot coolant. Available in selected references.

Rigid housing holds clamping force.

Resists creep and bolt-load loss under heat, so the seal stays evenly compressed.

Heat- and pressure-robust housing.

Less cracking around mounts and hoses – and none of the joint stress of plastic-to-aluminium interfaces.

Workshops

Fewer comebacks, lower risk.

Robust sealing and application-correct parts mean fewer returns – and premium quality protects a far more valuable engine from overheating damage.

Faster installation.

Precise dimensions and correct interfaces cut adjustment and rework.

Backed by HEPU TECH Academy.

Expert-led content explaining the most frequent service errors – turning correct fitting into fewer comebacks.

One specialist brand. Conventional, electric, switchable, auxiliary and heavy-duty pumps from one trusted source.

Technology	Benefit
Mechanical	Direct, durable coolant circulation with precise pulley, bearing, shaft and seal design.
Electric	Demand-controlled flow independent of engine speed – targeted cooling, after-run, efficiency.
Switchable	Faster warm-up and cooling only when required – supports fuel efficiency and emissions.
Auxiliary	Circulation for parking heaters, turbo/EGR cooling, after-run and battery/power-electronics.
Truck	Circulation for parking heaters, turbo/EGR cooling, after-run and battery/power-electronics.



Timing Systems – Belt Drive

Complete belt-drive solutions from one box: the HEPU® water pump matched with OE-brand belts, OE-brand tensioners and every installation-critical fastener – for a safe, efficient repair.



One kit. Complete. Trusted.
– HEPU® Water Pump Kits.



A timing drive is only as reliable as its weakest part. HEPU® complete kits bring every wear-related component together at a single quality level – matched to the exact engine and version, so belt, tensioners, pulleys and pump share the same service life under the same heat, mileage and load.

Replacing everything at once protects a far more valuable engine from the immediate cost of a belt-system failure – and gives the workshop one box, fewer part numbers and fewer chances for error.



100% OE-brand belt.

Correct tooth geometry, tensile strength, heat resistance and service life for the application.

Genuine HEPU® water pump.

The brand's core component – HEPU® sealing, bearing, material and hydraulic expertise, built into the complete repair.



Everything in one box.

One order, one matched part-number set – no missing components once the car is apart.



Kit type	When to use it
Water pump kits	Belt-drive components plus the HEPU® water pump – where the pump is driven by, or serviced with, the timing belt.
Timing belt kits	Complete belt-drive service where a water pump is not required in the repair scope.
Multi V-belt kits (± water pump)	Accessory-drive components, with or without the pump, where the vehicle layout requires them together.

Exceptional aftermarket coverage.

SCAN FOR
TIMING KITS
– BELT DRIVE



Timing Systems – Chain Drive

Beyond component replacement: Vanatec® chain technology, complete application-specific kits, OE-brand sealing and precisely calibrated valve-timing parts – one coordinated solution for long-term timing accuracy.

Every link, every part, in time – HEPU® Timing Chain Kits.

A timing chain drive wears as one system – chain, guides, tensioner and sprockets age together under the same load, heat and contamination. Replacing only the failed part leaves worn mating components ready to fail after a labor-intensive job. HEPU® complete chain kits bring every install-relevant part together – matched to the exact engine code and chain-drive variant, at one premium quality level throughout – so the workshop renews the whole system in a single, precise repair.

Application-specific completeness.

Chain, tensioner, guide rails, sprockets, expansion bolts and OE-brand seals – every part the exact engine version needs, nothing missing, nothing mismatched.

Faster, easier installation.

One kit means no hunting for individual components and no missing-part surprises once the engine is open.

OE quality throughout.

Premium quality across every component – not just the chain – for a repair that holds.

Lower warranty exposure.

No old guide, weak tensioner, worn sprocket or reused fastener left behind to fail later.

VANATEC – Hardened Where the Chain Wears

A timing chain doesn't stretch – it wears. Elongation happens at the pins, where millions of load cycles slowly erode each joint. Multiplied across every link, that microscopic wear becomes the elongation that throws valve timing off and, in the worst case, ends in a jumped or broken chain.

VANATEC gives a solution to the problem at its source. Through a vanadium diffusion hardening process, HEPU® enriches the chain pins – the highest-wear contact point in the entire drive – with an exceptionally hard, wear-resistant surface layer.

Why VANATEC:

Vanadium diffusion treatment targets the pins – the exact point where timing chains wear and elongate. A harder, wear-resistant pin surface reduces joint wear, so the chain keeps its length longer.

Lower risk of engine damage. Resisting the wear that leads to chain jump or breakage protects the engine from catastrophic failure.

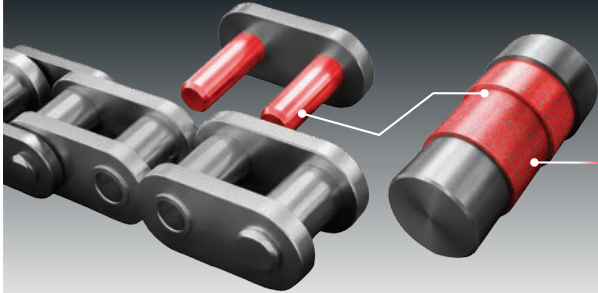
Built for modern engine stress. Engineered for downsized, high-load, soot-exposed engines – where chains work hardest.

Technology	Key features	Benefit
OE-Brand Gaskets & Seals	Verified material quality, precise geometry and application-correct elasticity from established OE manufacturers – for correct compression and long-term resistance to heat, oil and ageing.	• No hardening, no leakage over the life of the repair. • Close the engine with confidence – not an anonymous low-cost gasket in a labour-intensive job.
Variable Valve Timing (VVT) Adjusters	Rapid, accurate phasing for torque, power, efficiency, emissions and smooth running – with exact OE calibration for proper ECU interaction and fewer diagnostic faults.	• Optimised rotor-vane sealing for fast adjustment and long service life. • Standalone, or integrated into expanded timing-chain kits.
Variable Valve Timing (VVT) Adjusters	Accurate oil metering on ECU command – central to VVT speed and precision – with OE-compatible electronics for plug-and-play fitment and clean diagnostics.	• Resists pressure loss and sticking that cause delayed adjustment and fault codes. • Valve + adjuster + chain-drive components address the full timing-control path – not isolated symptoms.

Exceptional aftermarket coverage.



THE NEW BENCHMARK IN TIMING CHAIN DURABILITY



23

V

Vanadium

50.9415

QUALITY THAT LASTS

6

YEARS

OR 120 000 KM

WARRANTY

VANATEC CHAINS



Thermal Management

HEPU® is cooling-system specialist. Pumps, thermostats, valves, pipes, hoses and expansion tanks work as one thermal-management system – controlling temperature, pressure and flow precisely under every condition.

The System-Level Advantage

Modern thermal management is no longer about one component – it's about the whole circuit working as one. HEPU® connects decades of water-pump heritage with the parts that regulate, route, store and monitor coolant, delivering a complete temperature-control system from a single specialist source.



Thermostats

Precise opening. Accurate control of when coolant reaches the radiator keeps the engine in its operating window.

Faster warm-up. Holding coolant in the small circuit when cold cuts warm-up time, friction and fuel use.

Overheating protection. Reliable full opening under load moves heat to the radiator and avoids hot spots.

Stable heating & emissions. Correct engine temperature supports cabin heating, combustion quality and aftertreatment.

Wide technology coverage. Conventional, map-controlled and integrated thermostat modules – with long-life wax, springs, seals and housings.



Coolant Control Valves

Demand-based routing. Electronic valves send flow only where heating or cooling is needed, cutting energy loss.

Multiple temperature zones. Separate control of engine, cabin, battery, inverter, EGR cooler or transmission circuits.

Fast, accurate actuation. OE-compatible motors, position sensing and valve geometry for precise control.

Efficiency for hybrids & EVs. Optimised battery and power-electronics temperatures support charging, range and component life.

Diagnostic compatibility. Correct electrical and mechanical behaviour avoids fault codes and emergency modes.



Cooling Pipes, Tubes & Hoses

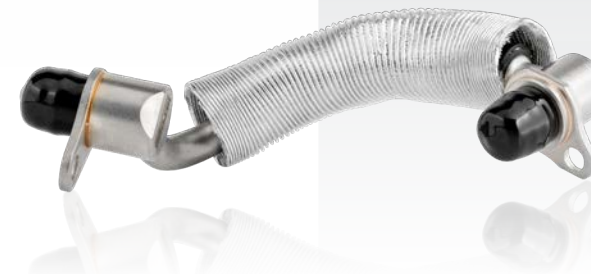
Exact OE routing. Application-specific curves, lengths, brackets and connectors prevent kinking, chafing and hot-component contact.

Temperature & pressure resistance. Materials and reinforcement selected for hot pressurised coolant and repeated engine movement.

Chemical & corrosion resistance. Tolerate coolant chemistry, road salt, oil mist and environmental exposure.

Reliable quick connections. Correct connector geometry and sealing rings for secure installation without excessive force.

The perfect connection. Pipes and hoses link the HEPU® pump, thermostat, valve and expansion tank into one dependable system.



Expansion Tanks

Pressure management. Tank and cap absorb coolant expansion and hold system pressure – more boiling reserve without overloading hoses and seals.

Air separation & reserve. Correct internal geometry supports degassing and a stable, visible coolant reserve.

Thermal-cycling resistance. Quality polymers, welded seams and reinforced connections resist cracking, distortion and leakage.

Application-correct caps & sensors. Match the vehicle's specification and warning strategy.

Protection from secondary damage. A leaking tank or wrong pressure control means coolant loss, overheating and major engine damage.

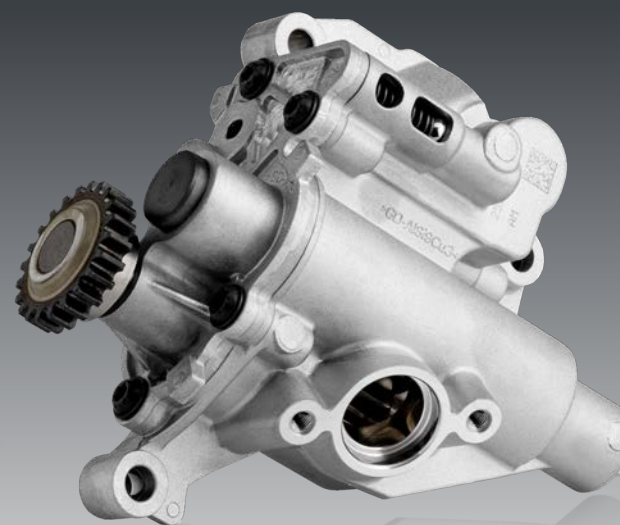


One specialist across the circuit.



Oil Management

HEPU® oil-management components protect the engine where failure gets expensive: reliable oil pressure, controlled oil temperature and clean, stable flow to every lubrication-dependent system.



Oil Pumps

Rapid pressure build-up. A stable lubricating film immediately after start-up – when engine wear risk is highest.

Correct flow under every load. Precise internal clearances and robust drive components hold the required oil volume from idle to high rpm.

Protection of critical systems. Bearings, crankshaft, camshafts, turbochargers, chain tensioners and VVT all depend on reliable oil supply.

Variable, unregulated & tandem technologies. Coverage of every pump concept matches the original engine's efficiency and control strategy; variable pumps cut parasitic loss.

Durable, quiet construction. Precision gears/rotors, shafts and pressure-control elements cut noise, friction and pressure fluctuation; wear- and corrosion-resistant materials last.



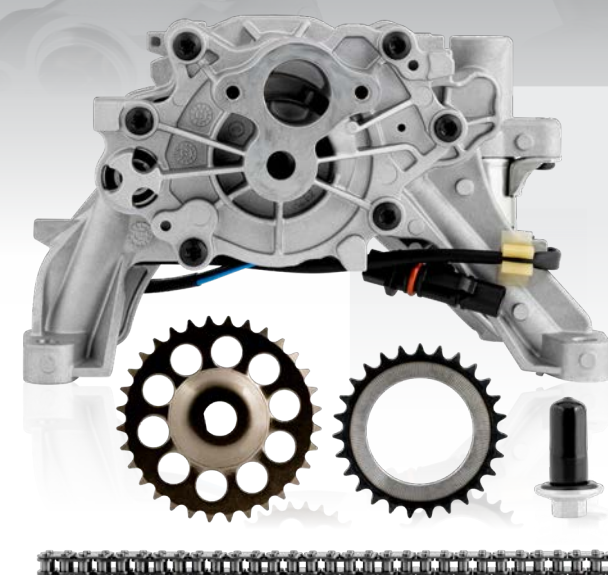
Oil Pump Kits

A complete drive & lubrication repair. Oil pump, drive chain, sprockets, tensioner, guides, pickup seals, gaskets, bolts and other install-critical parts.

No worn drive parts left behind. A new pump can't deliver if an old chain, guide or tensioner adds backlash, noise or failure risk.

Sealing security. Fresh pickup and housing seals stop air entry on the suction side and leakage on the pressure side.

Faster process, fewer comebacks. One application-specific kit ends dependent-part hunting and fixes the whole wear path – not just the visible part.



Oil Coolers & Oil Modules

Stable oil temperature. Oil-to-coolant exchangers warm cold oil faster and shed excess heat under load – viscosity stays in range.

Protection under high load. Controlled temperature preserves the lubricating film at bearings, turbochargers and timing components.

Reduced oxidation & deposits. Avoiding excess oil temperature slows degradation, sludge and varnish.

Efficient integrated modules. May combine filter housing, cooler, thermostat, bypass valves, sensors and passages into one ready-to-install assembly.

Factory-like fit. Correct ports, mounting, connectors and sealing surfaces cut installation effort and cross-leak risk.

Protection against oil-coolant mixing. Quality heat exchangers and seals reduce internal leakage that contaminates both circuits and causes major engine damage.



**Complete lubrication,
one manufacturer.**



Vacuum & Fuel Systems

Two pressure-critical systems, one specialist: HEPU® vacuum pumps keep the brake booster and vacuum-dependent controls working, while high-pressure pumps deliver the exact rail pressure modern direct-injection engines demand.



Vacuum Pumps

Reliable vacuum supply. Supports the brake booster and, depending on the application, additional engine-control systems.

Consistent performance. Maintains sufficient vacuum during starting, repeated braking and changing engine loads.

Efficient operation. Precision components minimise friction, noise and performance losses.

Durable & leak-tight. Robust materials and accurate sealing help prevent oil leakage and loss of vacuum.



High Pressure Pumps

Precise fuel pressure. Supplies modern petrol direct-injection systems with the required pressure.

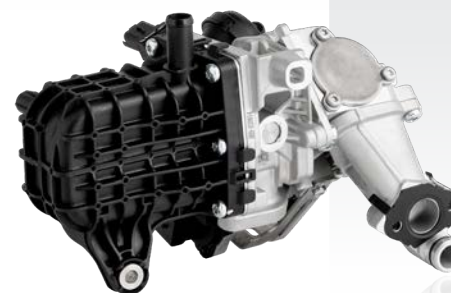
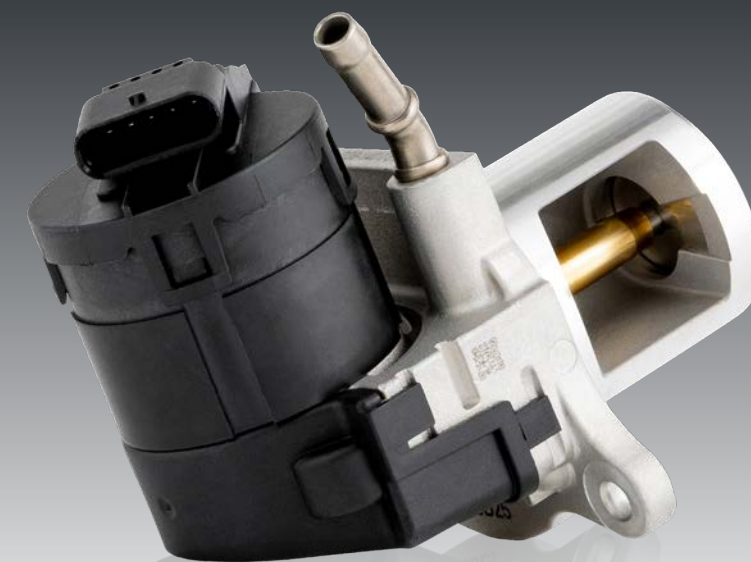
Reliable delivery. Maintains stable fuel flow from starting and idling to high engine load.

Efficient combustion. Consistent rail pressure supports accurate injection, performance and emissions control.

OE-compatible design. Correct connections, geometry and pressure characteristics enable reliable installation and operation.

Emission & Aftertreatment Systems

HEPU® emission-system components restore accurate exhaust-gas and urea dosing under severe heat, soot and chemical exposure – helping the vehicle meet its emissions strategy without sacrificing drivability or reliability.



EGR Technologies

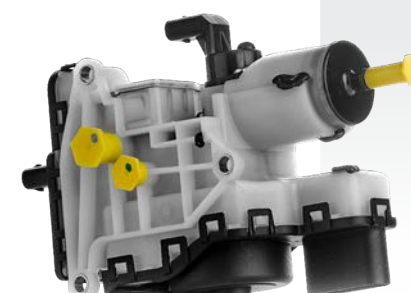
EGR module – system solution. Valve and cooler engineered together to manage the quantity and temperature of recirculated gas; matched housings, seals, sensors and actuators cut interface risk and speed installation.

Precise metering & stable control. OE-calibrated actuators and position sensors reduce NOx without losing drivability; correct electrical feedback avoids plausibility faults.

Heat & soot resistance. Robust materials, bearings and valve geometry withstand contaminated exhaust gas and repeated thermal cycles.

Restored drivability. Correct EGR flow addresses rough running, hesitation, smoke, power loss and high fuel use from a sticking valve.

EGR coolers. Lower gas temperature makes EGR more effective; corrosion-resistant alloys and controlled brazing prevent exhaust-to-coolant cross-leaks and protect connected systems.



Urea / AdBlue® Dosing Modules

Accurate AdBlue® dosing. Exact quantity for efficient SCR NOx conversion; fine atomisation and correct targeting for uniform ammonia distribution.

Crystallisation & heat resistance. Application-correct materials, heating and nozzle geometry reduce deposits; injector and seals tolerate exhaust heat and corrosive urea; OE-compatible control prevents dosing faults.

Integrated supply system. Tank assembly may combine pump, heater, level/quality/temperature sensors, filter and control electronics.

Reliable below freezing. AdBlue® freezes at approx. -11 °C; correct heaters and controls thaw the fluid and restore dosing within the required time.

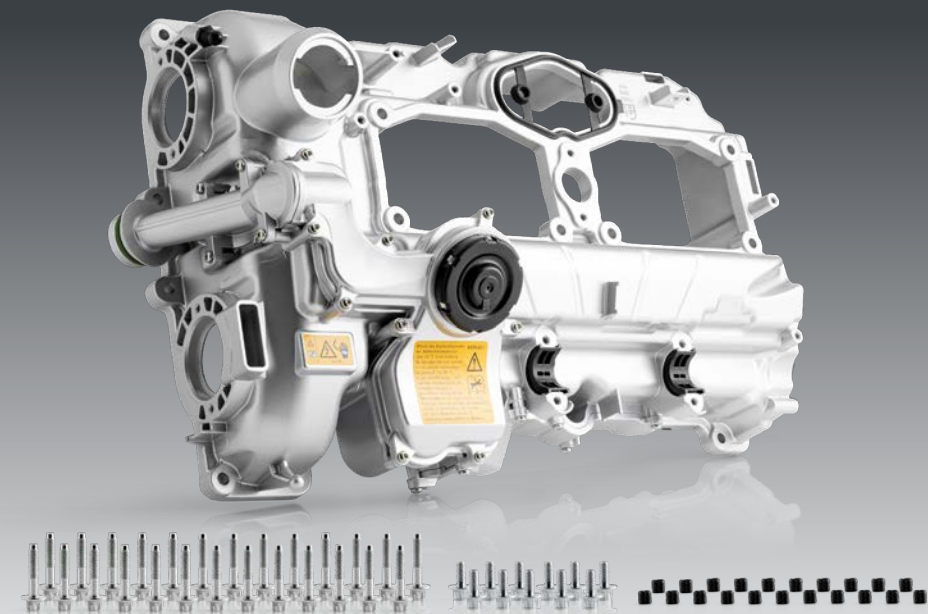
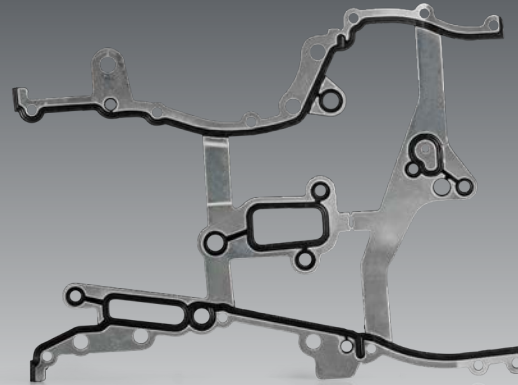
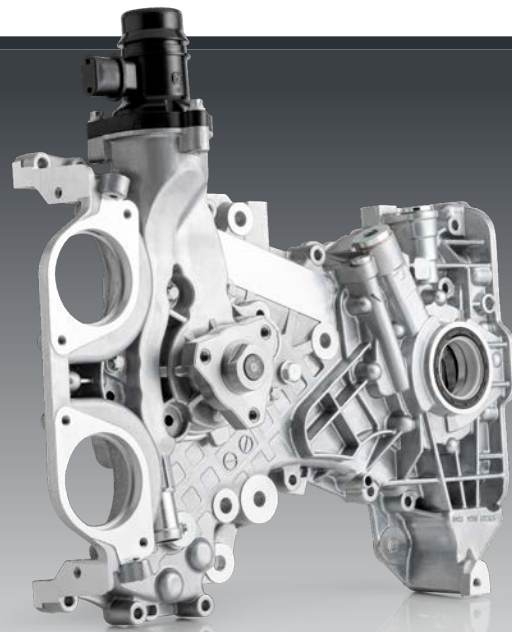
Complete repair advantage. Where internal pump, heater or sensor components aren't separately serviceable, a matched tank module restores full supply in one repair.

Clean, compliant, complete – vacuum, fuel and emission systems from HEPU®.



Engine Technologies

HEPU® engine-technology components restore air control, sealing, crankcase pressure and structural interfaces with OE-level geometry and calibration – stopping small faults from becoming drivability, emissions or oil-loss problems.



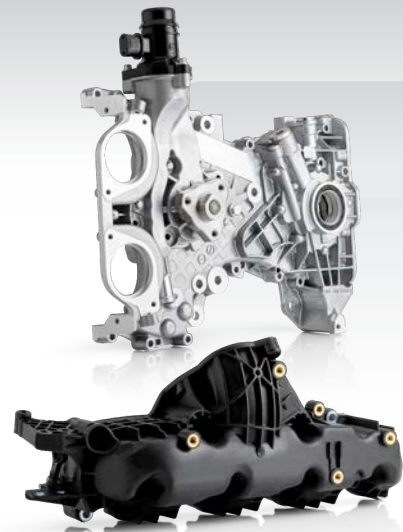
Intake Manifolds

Even air distribution. OE-matched runner geometry feeds each cylinder consistently – balanced combustion, torque and efficiency.

Correct swirl & tumble. Where fitted, integrated flaps and actuators shape airflow across speeds and loads for better combustion and emissions.

Leak-tight construction. Accurate flanges, gaskets and joints prevent unmetered air, lean faults and unstable idle; materials resist heat, vibration and deposits.

Ready-to-install integration. Sensors, actuators, rails or seals can be supplied as part of the module to reduce assembly work.



Cylinder Head Covers

Reliable valve-train sealing. Stable cover geometry and application-correct gaskets prevent oil leakage onto hot engine components.

Integrated crankcase ventilation. Many covers carry PCV valves and oil separation – accurate function keeps crankcase pressure right and oil carryover low.

Resistance to thermal distortion. Quality materials and reinforced mounting zones hold sealing pressure through repeated heat cycles.

Prevention of secondary faults. A defective cover/PCV can cause vacuum leaks, oil consumption, whistling, mixture faults and seal damage.



Timing Covers

Structural precision. Accurate alignment with the head, block and oil pan while keeping chain/belt clearances.

Complex sealing. OE-accurate surfaces and gaskets control oil – and, in some designs, coolant – across multiple joint planes.

Integrated functions. May carry oil passages, crankshaft seals, pumps, sensors or engine mounts – dimensional accuracy is critical.

Clean repair solution. A complete cover replaces cracked or warped housings and ends repeated reseal attempts.



Crankcase Ventilation Hoses

Correct vapour routing. Returns blow-by gases to the intake while keeping the designed crankcase-pressure balance.

Oil- & temperature-resistant. Tolerates hot oil vapour, fuel residues, vacuum and engine movement without collapsing or cracking.

Exact OE routing & connectors. Application-specific length, bends, clips and quick connections prevent kinks, chafing and air leaks.

Prevention of vacuum faults. A split or loose hose causes unmetered air, rough idle, mixture codes, oil leaks and higher emissions.

Throttle Bodies

Precise electronic airflow control. Accurate plate position lets the ECU manage torque, idle, cold start, traction and emissions.

Fast, smooth response. Low-friction bearings, correct gearing and a calibrated actuator – no sticking or oscillation.

Leak-tight bore & position feedback. Precise machining prevents bypass air; OE-compatible sensors report the true throttle angle.

Plug-and-play, restored drivability. Correct connectors and adaptation cut install/diagnostic effort; resolves hesitation, limp mode, unstable idle and warning lights.

Caring for the engine's essential systems.



Fluids

HEPU® fluids complete the system: correctly specified coolant protects every component the brand supplies, while screenwash, de-icer and AdBlue® deliver dependable seasonal, visibility and emissions performance.



System competence, not a stand-alone chemical. HEPU® knows how fluid quality affects pumps, seals, thermostats, valves, heat exchangers and the whole cooling circuit.

Correct specification matters. Modern vehicles use different inhibitor technologies – colour alone is not a reliable selection criterion.

A complete workshop proposition. One brand supplies both the replacement component and the fluid that protects the repair.

Parts & fluids catalogues. Dedicated catalogue access supports correct selection, application coverage and cross-selling.



Windscreen Washer Fluids

Clear, smear-free visibility. Effective surfactants remove road film, insects, salt and dirt without distracting residue.

Reliable frost protection & compatibility. Winter formulations protect reservoir, lines, pump and nozzles; safe for paint, rubber, plastics and polycarbonate headlamps.

Summer & winter, multiple pack sizes. Season-specific products for retail top-up, workshop and high-volume commercial use.



Coolant Concentrates

Flexible mixture strength. Select the required frost/boil protection and concentration for climate and vehicle specification.

Corrosion protection. Application-correct inhibitors protect aluminium, cast iron, steel, copper alloys, solders and mixed-material systems.

Pump & system protection. Cavitation/erosion control for impellers and liners; scale prevention for clean passages; seal and elastomer compatibility.

Year-round thermal performance. Freeze protection in winter, boiling reserve under load and consistent heat transfer in every season.



Ready-Mix Coolants

Correct concentration from the start. Pre-mixed fluid removes dilution errors that weaken corrosion, frost or boiling protection.

Controlled-quality water. Avoids minerals and contaminants that cause scale, conductivity or inhibitor problems.

Fast, consistent, lower-risk. Ready-to-pour saves mixing time; a sealed mix gives the same result every time with fewer handling steps.



Windscreen De-Icer

Fast ice removal, better visibility. Rapidly dissolves frost without aggressive scraping; clear the windscreen quickly and safely before driving.

Reduced re-freezing, surface-safe. Delays renewed icing; designed for automotive glass and surrounding rubber, plastics and paint. Targeted spray application.



AdBlue® Fluid

High-purity urea solution. Correct concentration and very low contamination for reliable SCR operation.

Effective NOx reduction. Generates ammonia so the SCR catalyst converts NOx into nitrogen and water; protects dosing and catalyst components.

Stable, traceable quality. Controlled production, packaging and storage; practical workshop, fleet and retail pack sizes.

New Range of Products

DEF Anti-Crystal Additive. Reduces urea crystal deposits in susceptible dosing systems and supports clean spray/flow.

Radiator Cleaner. Removes oil, rust, scale and residues before refilling – restoring heat transfer and protecting a newly installed pump or thermostat.

Engineered coolants, OE-spec protection



HEPU® FLUIDS
FINDER



HEPU® PARTS
CATALOGUE



■ QUALITY ■ TRUST ■ TECHNOLOGY



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