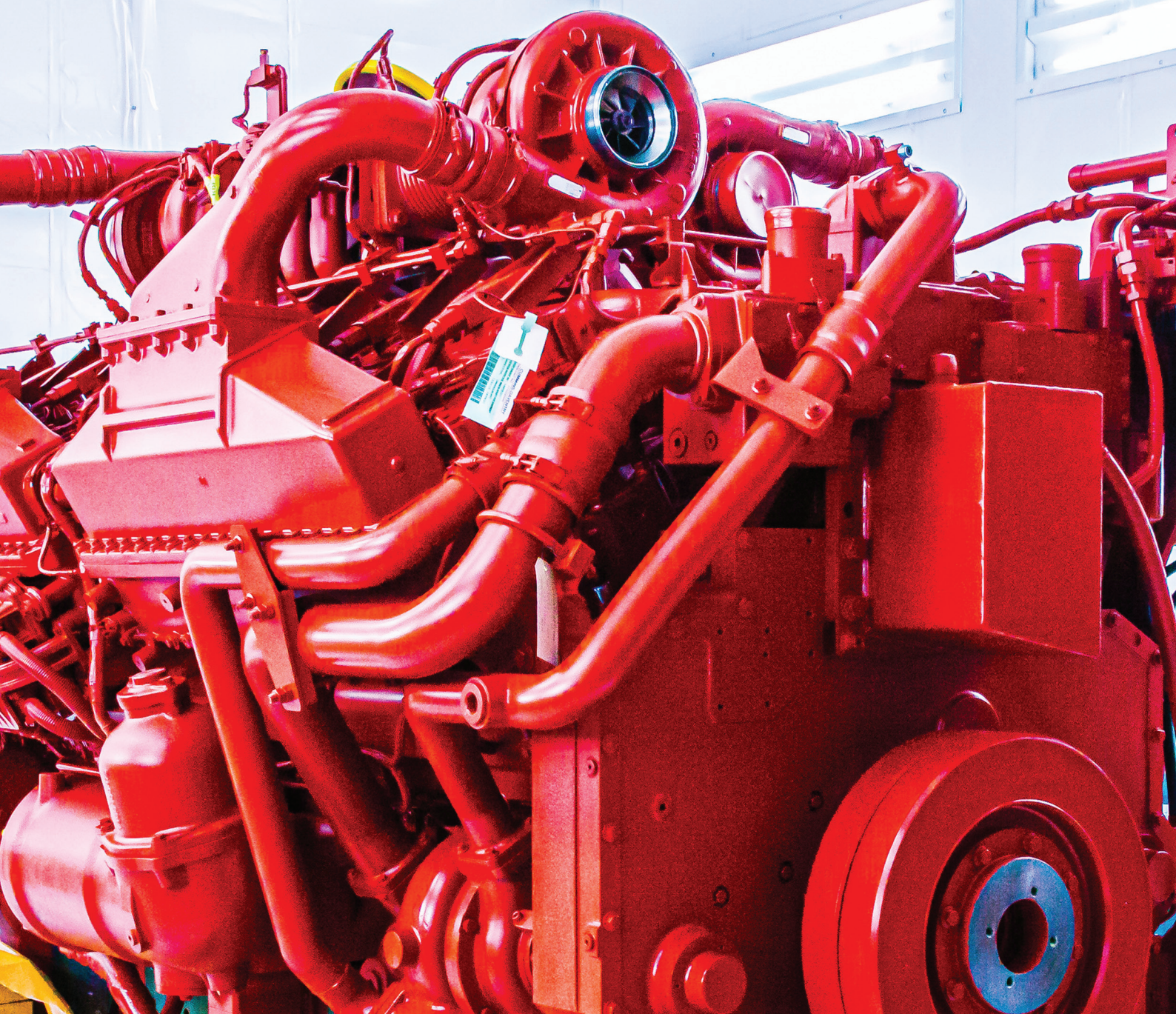




High horsepower engine remanufacturing

European Master Rebuild Centre



Global power leader

Cummins is a global technology power solutions leader operating in over 190 countries. For over 100 years Cummins has been a leader, designing, manufacturing, distributing and supporting thousands of customers around the world.

Cummins comprise a wide range of engines and related component technologies to provide tailored solutions that meet and exceed the needs of global markets and customers.

Cummins are the industry experts working with customers every step of the way to provide high quality products and services that maximise uptime, minimise emissions, and deliver class- leading performance.

Please note references to emissions in this brochure refer to in-use emissions only unless stated otherwise.



Sustainability

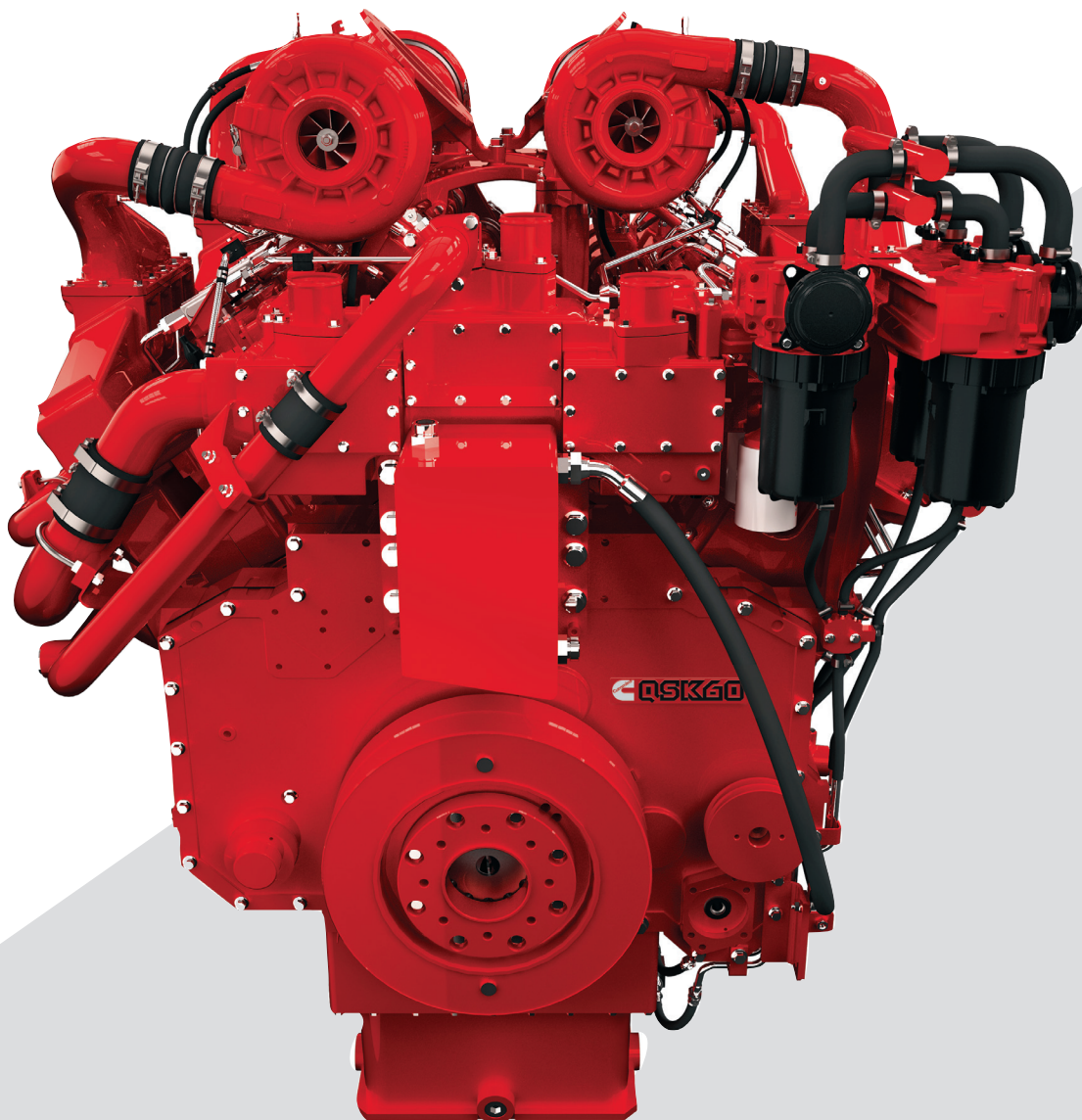
Cummins planet 2050 next generation environmental sustainability strategy is designed to enable Cummins to achieve its mission to make peoples lives better by powering a more prosperous world.

As part of planet 2050, one of the goals is to create a circular lifecycle plan for every product. The remanufacturing of Cummins engines and parts expands the life of the product while contributing to a circular economy.

Cummins remanufactured engines use up to 85% less energy compared to the production of a new engine, this reduces unnecessary waste and lowers cost of ownership by extending the life of the engine.



Why remanufacture?



QUALITY

Superior quality through predefined process with improved efficiency using state-of-the-art equipment that aligns with Cummins global manufacturing and operation standards.

TECHNOLOGY

Specialist tools and processes used to meet Cummins quality standards and the same expectations as a new engine.

TOTAL COST OF OWNERSHIP

Delivers a lower total cost of ownership for customers by reducing lead time.

EFFICIENCY

Improved engine performance, allowing customers to keep their equipment for longer.

EXPERT

Over 100 years as a global technology power solutions leader. Cummins has specially trained technicians that are experts in remanufacturing.

MAXIMISED UPTIME

Shorter lead time in comparison to a new engine. Also, service exchange remanufactured engines are available from stock.



ADVANCED REBUILD

An advanced rebuild is where the engine is removed from the application and taken to the rebuild centre. At the rebuild centre, the engine is totally dismantled, cleaned, inspected and rebuilt to an advanced level. Key components are critically inspected, parts that meet specifications will be reused and parts that do not meet expectations will be replaced with Cummins genuine parts. An advanced rebuild is also backed with Cummins standard warranty.

ULTIMATE REMANUFACTURE

The ultimate remanufacture solution is a completely remanufactured engine to the same level as a new engine.

The remanufacturing process includes complete disassemble of the engine, with all parts individually cleaned, inspected and dyno tested to meet power and torque performance. The Cummins engine is upgraded to the latest specifications to meet same quality, performance and efficiency of a brand-new engine.

ULTIMATE SERVICE EXCHANGE REMANUFACTURE

An ultimate service exchange remanufactured engine is a remanufactured engine that is available to the customer on demand. This could be through a customer service agreement or an engine available on stock. The benefits of a service exchange engine includes a reduced lead time, enables the pre-planning of engine replacements, and lower total cost of ownership.

Benefit	Advanced rebuild	Ultimate remanufacture	Ultimate service exchange remanufacture
Experienced and specially trained Cummins technicians	✓	✓	✓
Genuine Cummins parts	✓	✓	✓
Bill of materials	Standard	Advanced	Advanced
Engine testing	Standard	Advanced	Advanced
Advanced process control	✓	✓	✓
Product upgrade		✓	✓
Advanced performance testing		✓	✓
Unlimited 12 months warranty		✓	✓
Swing engine availability			✓

A dedicated facility in Europe



**Scan the QR code to take a look inside
our European Master Rebuild Centre**

A state-of-the-art facility offering customers expert remanufacture of their high horsepower engines.

The European Master Rebuild Centre, based in Poland, is an extension of the Cummins global aftermarket support network and dedicated to the remanufacture and rebuild of engines.

The 4,600 sqm European Master Rebuild Facility is designed to provide our customers with high quality products and services. It is also the headquarters for Cummins Poland and includes a modern warehouse, offices and state of the art workshop capable of rebuilding and repairing all types of engines.

Cummins European Master Rebuild Centre incorporates advanced technological solutions that will help meet growing customer demand for

remanufacture and rebuild engines. Our team of specialised technicians and aftermarket support team are dedicated to provide the highest quality service that improves engine uptime and efficiency.

FULLY EQUIPPED FOR QUALITY

The European Master Rebuild Centre is a centre of excellence, operating to the same exacting standards as a factory making original equipment.

It features numerous sustainable solutions, including a high-tech microbiological wash bay reusing 100% of water, the installation of solar panels, allowing Cummins to use its own green energy, and charging points for electric vehicles. In addition, it is equipped with innovative systems such as two 15-tonne overhead cranes, jib cranes.

The new site has two disassembly bays, four high-horsepower and three mid-range/heavy-duty assembly bays, and a millipore testing stand.

Why use our new HHP European Master Rebuild Centre?

OFFERING BROAD PRODUCT RANGE**

- 19L-up to 78L diesel engine
- 450-3500 horsepower engine

GUARANTEED UPTIME FOR REBUILDS AND REMANUFACTURES

- Cooperative and accurate scheduling
- Availability of swing engines

GENUINE CUMMINS PARTS WITH FACTORY WARRANTY

- 100% genuine parts
- Parts reuse guidelines to Cummins specification

CUMMINS CERTIFIED ENGINE REBUILDS AND REMANUFACTURES

- Backed up by Cummins warranty on workmanship and parts
- 100% fully automated dynamometer test
- Trained and certified technicians

ADHERENCE TO INTERNATIONAL STANDARD

- ISO 9001 certified

MANUFACTURING QUALITY, RELIABILITY AND SAFETY

- Process conforming to Cummins global manufacturing standards
- Global manufacturing and operating consistency

**Varies by location

The 6-step process

The remanufacture process – including complete disassembly, cleaning, inspection, the replacement of major components, design improvements, and testing – is dedicated to extending the life of the original engine. In many cases, these steps can also enhance the engine's fuel efficiency and performance, making the product life cycle more sustainable. Scan the QR code to watch the process videos.



1

DISASSEMBLY

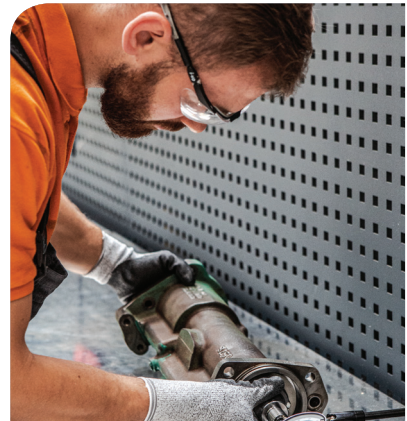
Every core is disassembled down to the last bolt, unsalvageable parts are removed and salvageable are routed to cleaning.



2

CLEANING

A meticulous cleaning process used on every component to remove debris and meet quality standards.



3

INSPECTION

Each part is forensically inspected using sophisticated systems to ensure quality assurance standards are met.



4

MEASUREMENTS

Electronic gauging is used to measure production tolerances to achieve unprecedented accuracy.



5

REASSEMBLY

Engine is reassembled using new and reconditioned parts and built on a first-of-its kind rebuild assembly line with 150 thorough quality checks.



6

TESTING

Every engine goes through a series of rigorous quality tests, then is coated with environment proofing and painted as required.

Our sectors

Commercial marine

With more than 80 years of marine experience supplying power of commercial, recreational and government applications across Europe.

For customers whose Cummins-powered equipment is in-frame, the European Master Rebuild Centre offers a refresh solution including the replacement of critical performance parts at the customer's site, in situ. Cummins rebuild and remanufacture options adhere to safety and environmental standards regulations to meet the safety and marine regulations compliance.



Mining and construction

Cummins specialise in delivering high-quality mining service support to our customers that can be tailored to each and every mining site.

A remanufactured engine provides mining and construction customers the same life-to-overhaul expectations as a brand-new engine, with fast service turnarounds to help maintain integrity and lower total cost of ownership. The ultimate service exchange option offers customers the advantage to replace the existing engine with a remanufactured SE. This SE engine can be fitted into any customer's application with no modifications or on-site alterations.



Power generation

Remanufactured G-drive engines that deliver reliable power in the most demanding environments.

Our commitment to quality means that remanufactured engines and parts are improved to latest performance criteria. Remanufactured engines offers customers an improved total cost of ownership option that has the same life-to-overhaul expectations as a new engine. Cummins guarantees performance like new, backed by extensive testing and warranty support.



Rail

Tailored remanufacturing options that maximises the life cycle of the locomotive.

Our engines offer the highest availability at the lowest operating costs and are cleaner and more efficient to aid in the rail industry's journey towards a zero-carbon future. Cummins is on track with the most progressive rail companies in the world. We aim to improve our level of service through quality, performance as well as sustainability. A Cummins remanufactured engine requires 85% less energy compared to manufacturing new engines and provides customers with more sustainable and efficient engines.





Service agreements

Customer service agreements are comprehensive and uniquely crafted partnerships between Cummins and the customer, with each agreement tailored to the customer's specific requirements.

Our aftermarket team offers comprehensive service support plans that concentrate on:

- Maximising uptime
- Focus on maintaining product performance
- Delivering a lower total cost of ownership
- Enabling the customers to better manage operating costs

Focusing on delivering high-quality service support to our customers and working in partnership with OEMs, operators and dealers, our customer support team can create a service agreement to suit you.



GLOBAL



CONNECTED



ON-SITE



PHONE SUPPORT



ONLINE GUIDANCE



Connected solutions

Cummins offers an outstanding selection of software, mobile applications and digital hardware to optimise the performance and reliability of your Cummins-powered equipment.

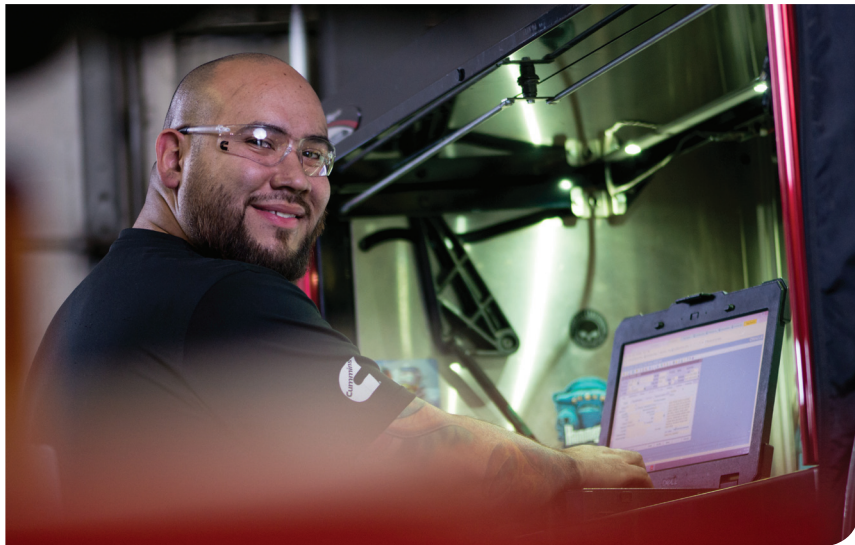
PREVENTECH

PrevenTech® is Cummins' unique digital technology. Every moment of every day, PrevenTech evaluates the performance of every connected engine and securely transmits the insights (via 4G or WiFi), advising on problems, both urgent and the ones coming down the track. Service recommendations are prioritised based on urgency, based on a wide range of engine parameters.

Benefits of PrevenTech:

- Boost productivity and sustainability
- Optimise maintenance and service
- Ability to provide personalised service recommendations
- Matched to the operator's needs

Warranty



Cummins engines are backed by a comprehensive warranty programme that is supported through a global parts and service network.

Cummins offers a total value warranty package that is based on reliability, performance and service support.

Benefits of an extended warranty

- Supported by a global network of authorised Cummins service providers
- Lower your risk of unexpected failure costs beyond factory standard warranty
- By using Cummins authorised technicians you will ensure genuine parts are fitted and work is completed to the highest standard
- Variety of coverage terms and options to meet your needs
- Protection against rising parts, labour and travel costs
- World-class Cummins factory technical assistance
- Backed by 100 years of experience through Cummins



**CUSTOMER SERVICE
TECHNICAL SUPPORT
WARRANTY ASSISTANCE
CONNECTED SERVICE**

Contact us at care.cummins.com or
Phone 00 8000 286 6467



DISCOVER OUR EUROPEAN MASTER REBUILD CENTRE

To learn more about Cummins High Horsepower and the European Master Rebuild Centre, scan the QR code or visit cummins.com/eu/service/remanufacturing.

SUPPORTING ALL OF EUROPE



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