



NEXT GENERATION

# INDUSTRIAL POWER SOLUTIONS

**SCANIA**



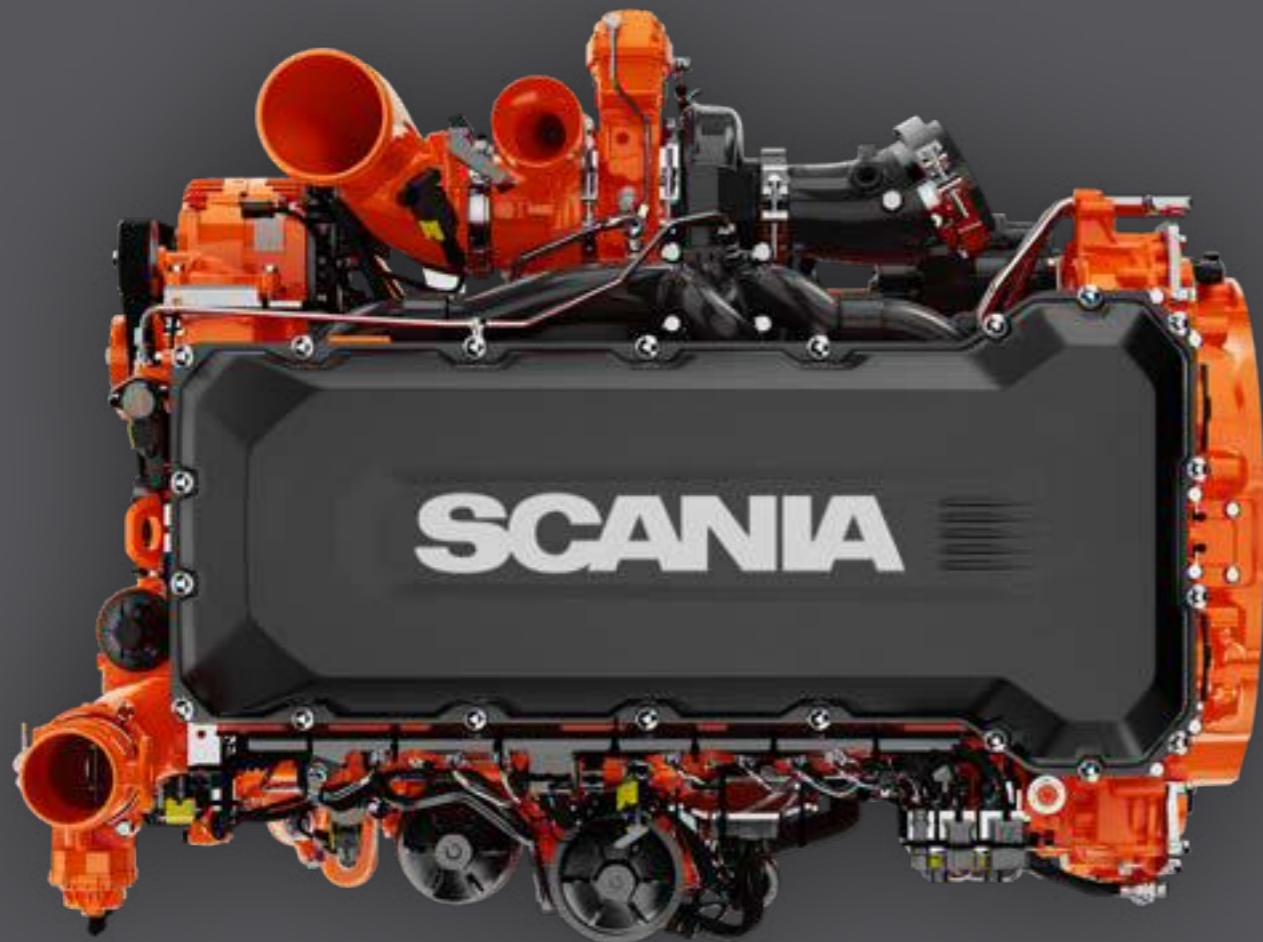
# HEAVY-DUTY POWER

Built upon a decade of cutting-edge engine research and development, Scania's latest power systems secure equipment uptime through even better dependability, durability and robustness, with a longer lifespan than ever before. And a simplified service concept, ready parts availability and proactive professional support means further peace of mind for your business.

When there's hard work to do, you need a power provider that will really deliver – not only state-of-the-art engines, but the agile approach and committed support you need to keep your business operations running smoothly, each and every day of the year. Scania has the answers.

# WELCOME TO THE NEXT GENERATION

Almost 10 years in the making, Scania's most advanced engine platform yet brings the cutting-edge technology of our award-winning Super truck line engine to power solutions, specifically designed and developed in-house to meet industrial operations needs.



Offering unparalleled efficiency to save fuel and reduce CO<sub>2</sub> emissions, our next generation inline engines deliver an outstanding operating economy – together with the quality and reliability you need to keep your operations running day after day, year after year.

#### More power, more torque, less fuel

Our ground-breaking next generation inline engine platform delivers exceptional performance with no compromises. Compared to the previous 368 kW DC13 engine it delivers an impressive up to 7% less fuel consumed in g/kWh under the same operation conditions, with the possibility to achieve even greater savings depending on the application, environment and other variables.

#### Engineered for excellence

With a wider power output range and featuring our most powerful and efficient 13-litre engine yet, our engines are pushing the boundaries of durability further than ever before, extending what was already among the longest engine lifespan on the market by a further 50%.

#### Cleaner, quieter, future-proof

Our inline engines don't just offer more power and efficiency, reducing emissions for a cleaner tomorrow. They do it more quietly than ever before. Which means you get more value, less noise and less CO<sub>2</sub> from every drop.

Our advanced inline engines are also compatible with renewable fuels including 100% HVO, making it possible to reduce emissions by up to 90% compared to standard diesel.



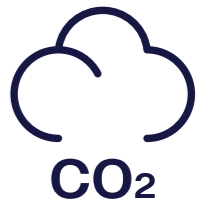
LESS FUEL CONSUMPTION\*



BEST-IN-CLASS POWER DENSITY



RELIABLE POWER AT ALL TIMES



SAVE TONS IN CO<sub>2</sub> EMISSIONS EACH YEAR\*

\*Next generation 13-litre DC13 compared to current generation 13-litre DC13 engines.

# UNLOCK THE FULL POTENTIAL OF POWER

The Scania approach isn't just about resilient, high-powered products. It's about empowering your operations – offering you unwavering support and more value over the lifetime of your product through advanced performance, higher fuel efficiency and less maintenance. Our industry-leading engine range is proudly developed and manufactured in Sweden with the premium quality the Scania name demands.

Ready to find the perfect power solution for your demands?  
Choose your Scania engine today.

## NEXT GENERATION 11-LITRE DC11 ENGINES

The introduction of our DC11 engine makes downsizing from the previous 13-litre engine an easy decision, with no compromise on torque. And compared to the previous 9-litre version it delivers 20% more power, plus 34% more torque. Available in both low-emission and unregulated emission models, with a range of certifications including EU Stage V, Korea Tier 5, China Stage IV and US Tier 4F.

**Configuration:** inline 5 cylinder  
**Displacement:** 10.6 litres  
**Bore x stroke:** 130x160 mm  
**Weight dry:** 970 kg  
**Output range:** 202-368 kW  
**Max Torque:** 2523 Nm at 1200 rpm



## NEXT GENERATION 13-LITRE DC13 ENGINES

The performance of a 16 litre engine, in 13 litre displacement. Our most powerful engine platform yet, the next generation DC13 delivers 11% more power and 21% more torque than its predecessor. Available in both low-emission and unregulated models, with a range of certifications including EU Stage V, China Stage IV and US Tier 4F.

**Configuration:** inline 6 cylinder  
**Displacement:** 12.7 litres  
**Bore x stroke:** 130x160 mm  
**Weight dry:** 1,050 kg  
**Output range:** 368-450 kW  
**Max Torque:** 3001 Nm at 1400 rpm



### Access Scania's worldwide service network

With more than 1,800 service workshops all over the world, the availability of professional services, assistance and advice is second-to-none. Many of our authorised workshops are ready and reachable to provide you with the support you need around the clock, 365 days a year.

# NO JOB TOO TOUGH

Need more power without upsizing? You got it. More torque? Sure. Oh, and could you make it quieter and more fuel efficient too? Why not? The cutting-edge technology and ground-breaking engineering behind our next generation inline engine platform is the gift that just keeps on giving, setting new benchmarks for power, efficiency and engine lifetime across the industry.



## **Innovating with simplicity**

At Scania, we've spent over a century improving the performance, efficiency and durability of our engines. Every element has been meticulously designed and engineered to better meet your needs – from a common compact footprint size to a fully modular system. We've left no stone unturned when it comes to enabling easy servicing and maintenance, installation and the ready availability of parts, so you can buy with confidence.

## **Durability you can count on**

We're the industry leaders when it comes to durable engines that deliver more, for longer. We've worked not only to prevent downtime in the most critical operations, but also for engines that last longer than ever before. Our 13-litre engine already offered a long base engine lifespan – now our next generation 13-litre inline engine has surpassed that by up to a further 50%.

# WHERE POWER MEETS PRECISION

Designed for uninterrupted performance in even the most demanding of environments, Scania's industrial power systems are not only built to last, but also to deliver maximum power from every drop. Whether deployed in construction and material handling equipment, material processing, agricultural machinery or special purpose vehicles, they ensure the same combination of instant response, high torque at low revs and industry-leading energy efficiency to benefit your operation.



## Construction operations

Dumpers plunging through rough construction sites. Wheel loaders securing crucial deliveries at remote road projects. Excavators keeping momentum in the harshest weather. These are typical scenarios where Scania performs with a proven standard of excellence – with no room for compromise. The construction business is a challenging one and here, uptime is key. Scania offers robust and dependable engine solutions with excellent power-to-size, instant response, and uncompromising torque – so you can relax, knowing the hardest jobs are being managed to the highest standard.



## Material processing

From efficient stone crushers in a rough mining environment, to tough wood choppers and forestry equipment – combining high-precision handling with relentless power, no application is too demanding for a Scania engine. Our versatile stationary engines ensure unrivalled performance as well as easy installation and maintenance, for primary or back-up power services.



## Compressor and pump applications

Scania engines excel in demanding remote operations. Be it by powering reliable water pumps in vulnerable areas, delivering for a challenging solution for waste processing, or driving powerful compressors on remote off-grid locations, Scania's power solutions are the answer for special applications which often call for flexible and reliable solutions.



## Material handling

At a time where supply chains are under greater pressure than ever, cost-efficient handling of goods plays an extremely important role, not the least in ports. Here, uptime is the principal focus. Featuring instant response, low operational cost and long service intervals, Scania engines are really in their element. With loads of power and reliability, they make sure reach stackers, cranes, straddle carriers, and various types of trucks work together round the clock to handle the tight margins and busy operations.



## Agricultural operations

Nature has its own mind and makes its own plans. When time is of the essence for taking care of your crops, you need a proven workhorse to rely on. A combine, heavy-duty tractor or beet and sugarcane harvester – no matter the application, or when you need it, Scania is your reliable partner. Agricultural operations aren't just about efficiency; it also involves care for the environment, land and soil. To us, this goes hand-in-hand with Scania's sustainable approach, incorporating features like extended uptime to minimise unnecessary waste of resources, fuel efficiency, and low emissions.



## Airport equipment

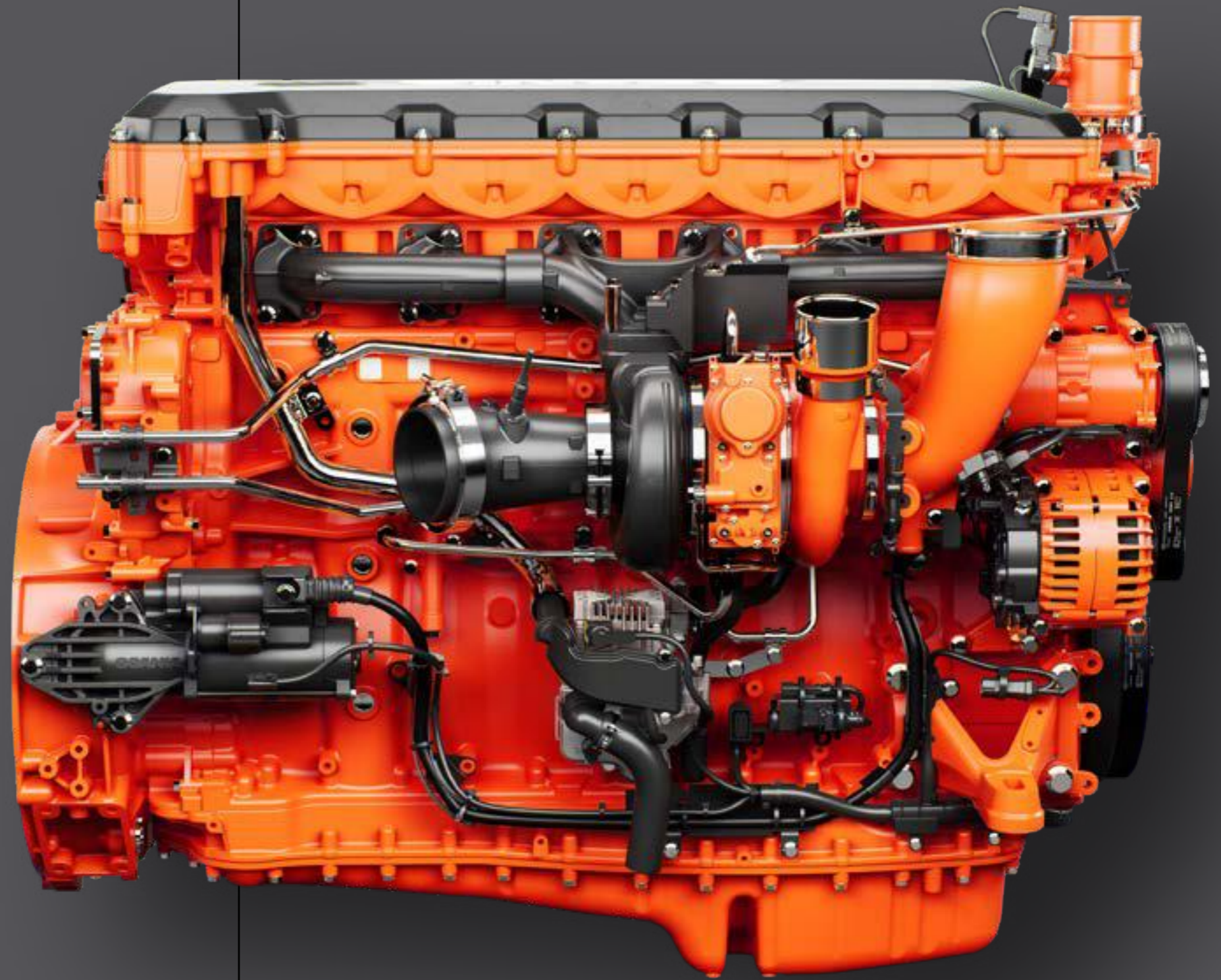
Our engines have a track record of success within airport rescue and firefighting vehicle applications, offering the ultimate in fast emergency response when there is no room for delay. Scania is recognised as the premium brand in airport emergency power solutions thanks to unsurpassed reliability, industry leading durability, and adaptability for the required uses.

# POWERING CHANGE FOR TOMORROW

At Scania we believe the future is electric and are leading research and development into electric power solutions, but that doesn't mean the sustainability of ICE solutions cannot be improved while they are still in operation. Our combustion engine solutions were already best-in-class and fully emission compliant – but we believe it is necessary to go further still with our next generation, and continue to drive the shift to sustainable solutions.

Translated into concrete numbers, our new 13-litre industrial engine for example can deliver reduced CO<sub>2</sub> emissions of around 21 tons per year compared to the previous edition 13-litre Stage V, based on 2,000 operating hours at 100% load.

We are committed to driving change, and embrace every effort to reduce emissions and environmental impacts – whether on the road or in an industrial setting. Scania engines offer solutions to meet the sustainability demands and emissions targets of every market, including renewably-fuelled and electric engine options.



Our engines are available with a range of emission certifications, including EU Stage V, China Stage IV, Korea Tier 5 and US Tier 4F. We also offer CO<sub>2</sub>-optimised options with an even stronger focus on lowering operation emissions. With the potential to save of tons of CO<sub>2</sub> every year, Scania's engines offer a smart choice

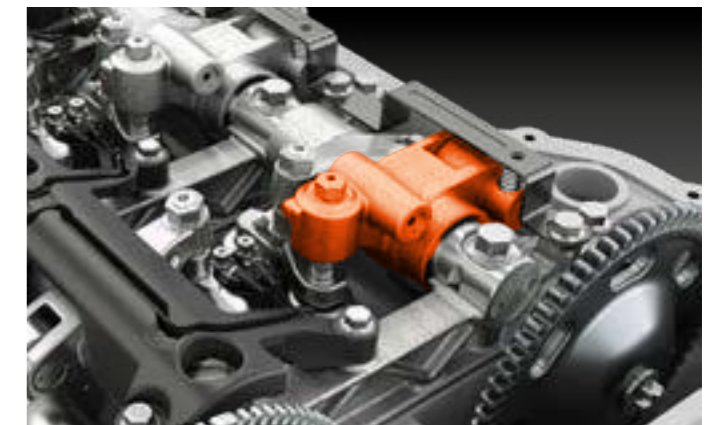
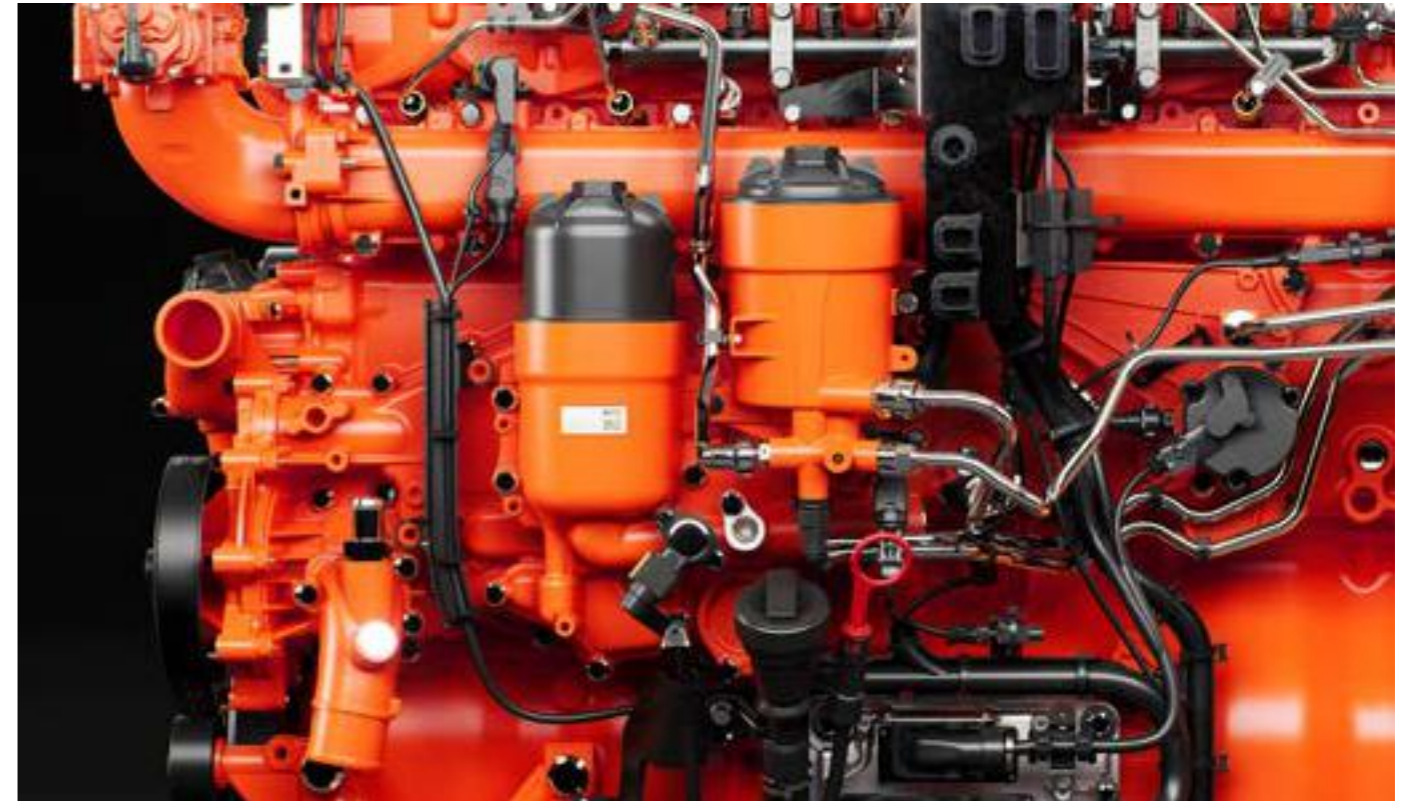
to future-proof your business for environmental standards and regulations. Fuel types are also flexible, including 20% blends of biodiesel/FAME, as well as compatibility with 100% HVO, unlocking even more potential, reducing CO<sub>2</sub> emissions by up to 90% compared to standard diesel.

# PURE SCANIA. DOWN TO THE NANOMETRE.

At Scania we have over 100 years of engine expertise, yet we also believe it is necessary to constantly push the boundaries in order to stay at the cutting-edge of power solutions that deliver more for businesses while emitting less. It is that philosophy that led to our expert team delivering a number of improvements to key details in our new platform.

Whether it's an improved combustion system, optimised injectors, or optimised high pressure fuel pump, the platform sets a new standard in performance. And a more rigid engine block, reinforced flywheel housing plus more robust engine transmission ensures the engines have an extended lifespan that means they'll give more to your operations for even longer.

And at a time when every drop of fuel is more valuable than ever before, innovations like reduced internal friction, improved oil flow and better, and more precise cooling of the engine combine to unlock best-in-class fuel efficiency that create an immediate impact on your energy costs. The best just got even better.



#### Scania emission control systems

Scania SCR (selective catalytic reduction) is a proven after treatment system ensuring exhaust gases are released with minimum nitrogen oxide (NOx) content. Injected into the exhaust, a urea-based additive, AdBlue/DEF (diesel exhaust fuel), converts the toxic nitrogen oxides into harmless water and nitrogen gas. Scania SCR is easy to handle, very reliable and does not affect torque and power output.

#### Servicing made simpler

Scania focused on simplifying servicing of the next generation engines. The oil dipstick, filler and filters for oil and fuel are placed close together to reduce the need to move around the engine. Cartridge and spin-on filter options, as well as remote filtration options also contribute to a simplified service concept.

#### Power take-off options

Scania's next generation engine range offers a wider choice of interface options for the engine-driven power take-off (PTO) solution, capable of meeting even the most demanding applications with an increased capability up to 1000Nm (on IFN rating).

#### Optimised gas exchange with new cylinder head

Improving fuel consumption is a key aspect of the updated components of the next generation engine platform. New dual overhead camshafts under a single engine head cover are part of delivering excellent efficiency.

#### Airflow on demand

The emission compliant engine features both variable geometry turbo (VGT) and an inlet throttle, which makes it possible to limit airflow through the engine. This combines the benefits of excellent transient response from the engine and efficient thermal management of the aftertreatment system, without sacrificing efficiency.

#### Integrated auxiliary braking

The new engine-integrated Compression Release Brake (CRB), weighing only 7 kg, provides fully integrated brake blending for an increased retardation effect for the most challenging industrial operations demanding good capacity. Scania's optional CRB system can also contribute to reduced parts maintenance and increase the machine's residual value.



