



SCANIA SUPER POWERTRAIN

# THE FUTURE IS SUPER



# SCANIA



# TOMORROW WILL BE 8% BETTER

While no one can say for sure what the future will hold, we all work to be a part of it. To succeed, we must evolve, the Scania Super powertrain is the perfect example of that evolution.

Introducing unrivalled powertrain efficiency, the new Scania Super engine platform will secure the future of your transport operations for years to come – giving you more fuel savings, more payload and more uptime than ever before.

The future has never looked better. The future is Super.





# GROUNDBREAKING PERFORMANCE

The transport industry is at a turning point. Not only must today's fleet owners drive efforts to reduce greenhouse gas emissions, they must also maintain profitability. In response, we have invested more than a century of engineering experience to address that challenge. The result? Scania's greatest engineering accomplishment to date.

The new Scania Super is our most advanced and efficient combustion-engine powertrain ever, one which is engineered to meet the toughest emissions standards worldwide, both today and tomorrow. Delivering additional fuel savings of 8% and setting a new industry benchmark for emissions control, the Scania Super is the industry's new flagship for sustainable transport operations – from heavy haulage to the toughest terrains. Whatever the future holds, we know for sure that it will be at least 8% better for the planet, your operational performance, and your business.

## Better performance

In addition to improved fuel performance, the new Scania powertrain delivers a much smoother drive and an extended horsepower range of up to 560 hp.

## Higher payloads

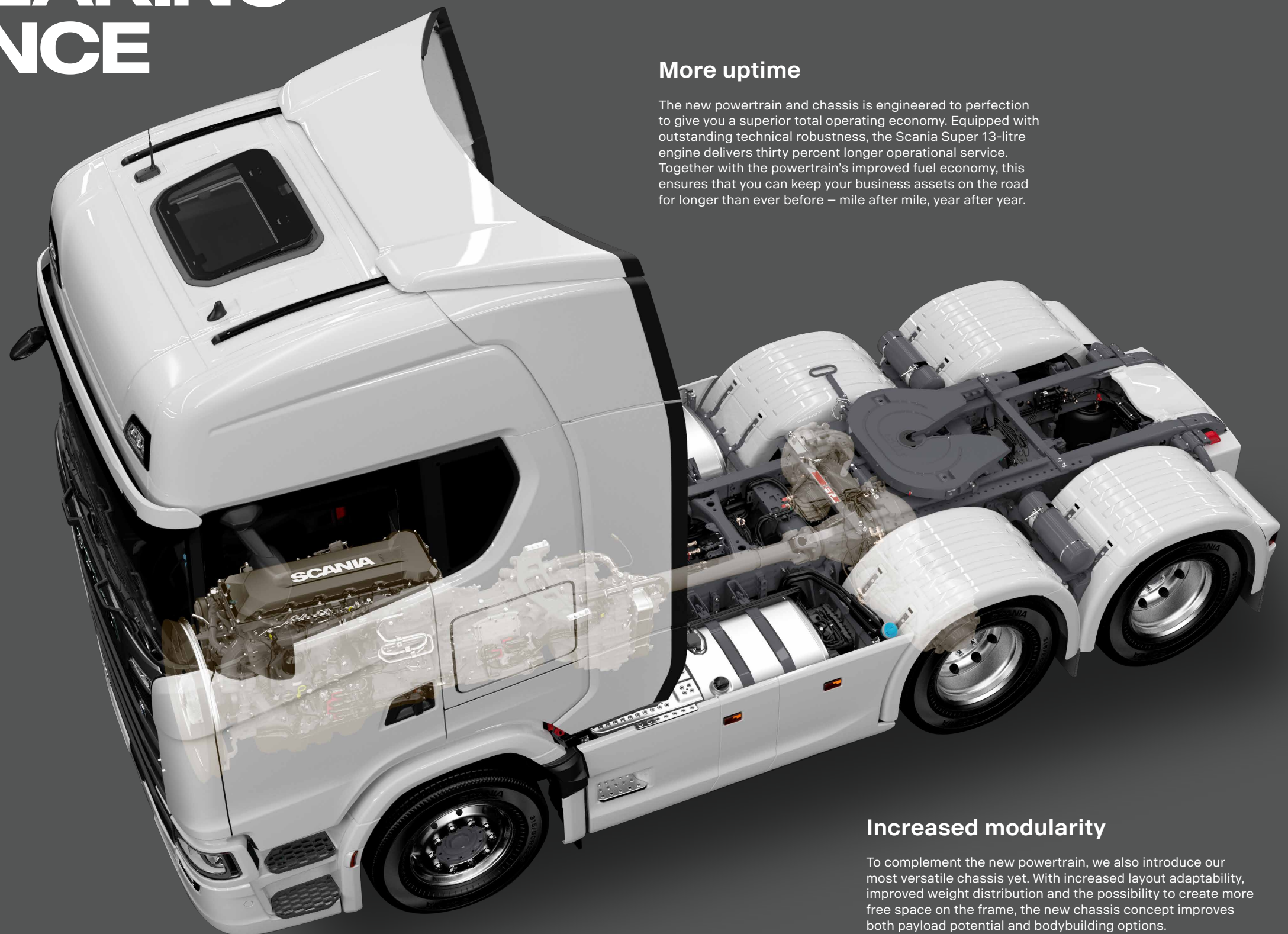
The Scania G25, G33 and G38 Opticruise gearbox range, now optimised for heavy-duty operations, delivers higher output torque and fast axle gearing with high payloads in tough operations.

## More uptime

The new powertrain and chassis is engineered to perfection to give you a superior total operating economy. Equipped with outstanding technical robustness, the Scania Super 13-litre engine delivers thirty percent longer operational service. Together with the powertrain's improved fuel economy, this ensures that you can keep your business assets on the road for longer than ever before – mile after mile, year after year.

## Increased modularity

To complement the new powertrain, we also introduce our most versatile chassis yet. With increased layout adaptability, improved weight distribution and the possibility to create more free space on the frame, the new chassis concept improves both payload potential and bodybuilding options.

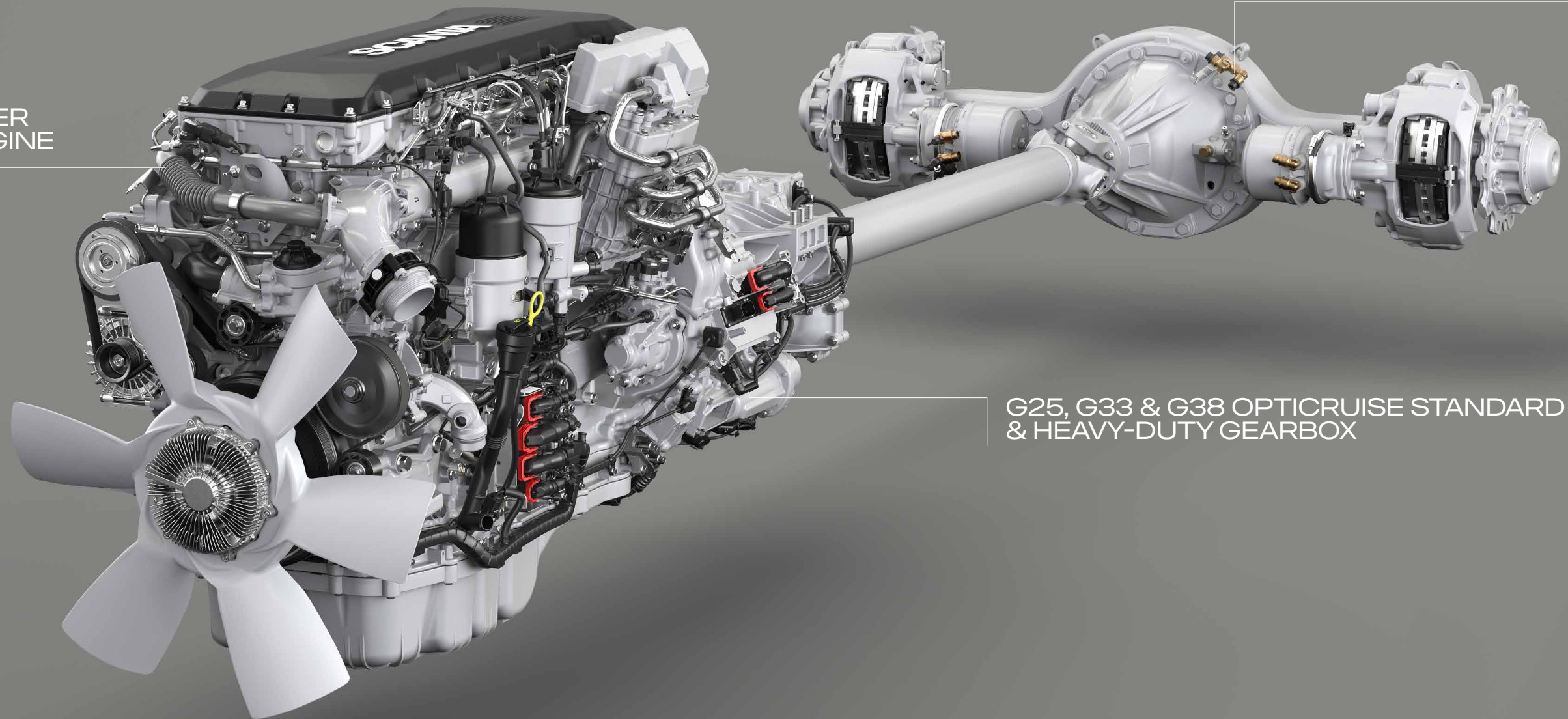


# OUR MOST EFFICIENT POWERTRAIN YET

The powertrain's groundbreaking efficiency really is the sum of its different components: the Scania Super 13-litre engine, Scania Opticruise gearbox, and the Scania R756 single reduction rear axle.

Through seamless integration, the world's most efficient truck just got even better.

SCANIA SUPER  
13-LITRE ENGINE



R756 SINGLE REDUCTION  
REAR AXLE

G25, G33 & G38 OPTICRUISE STANDARD  
& HEAVY-DUTY GEARBOX

New dual overhead camshafts (DOHC) improve exhaust gas exchange within the Scania Super engine for easier engine aspiration and optimised combustion, contributing to the outstanding engine efficiency.

The new Scania Twin-SCR system, with significantly improved emissions control, is engineered to produce optimised combustion, delivering superior performance and fuel efficiency.

The new optional compression release brake (CRB) can be combined with the Scania R4700D retarder to create an auxiliary brake system with outstanding capacity for the most demanding operations.

The Scania Opticruise G25, G33 and G38 standard and heavy-duty gearbox range introduces a new cast aluminium housing, a wider gear ratio spread and improved oil flow distribution – delivering improved gearshift performance, improved reverse performance and reduced noise.

The Scania R756 single reduction rear axle, with fast gearing options, raises the benchmark for rear axle performance, complementing the superior efficiency of the Scania Super 13-litre engine and Opticruise gearbox.



# REDEFINING ENGINE PERFORMANCE

Engineered to perfection to deliver combined fuel savings of 8%, the new Scania Super engine is ready to lead the transport industry through a decade of operational challenges.

Through superior driveability, an extended power range of up to 560 hp, and outstanding technical robustness made to deliver more miles of tough operation than ever before, the Scania Super engine is engineered to keep your business rolling further than ever beyond the transport challenges of tomorrow.

**50% brake thermal efficiency**

The Scania Super delivers industry leading brake thermal efficiency levels of 50%, representing our ambition towards a zero-carbon transport system and guaranteeing your superior fuel performance – regardless of road or load, mile after mile.

**World-leading emissions control**

The industry-leading Scania Twin SCR system, which introduces dual injection of AdBlue in the exhaust aftertreatment process, contributes to the superior efficiency of the new powertrain and secures its compliance with both existing and future expected vehicles emissions standards around the world.

**Premium stamina**

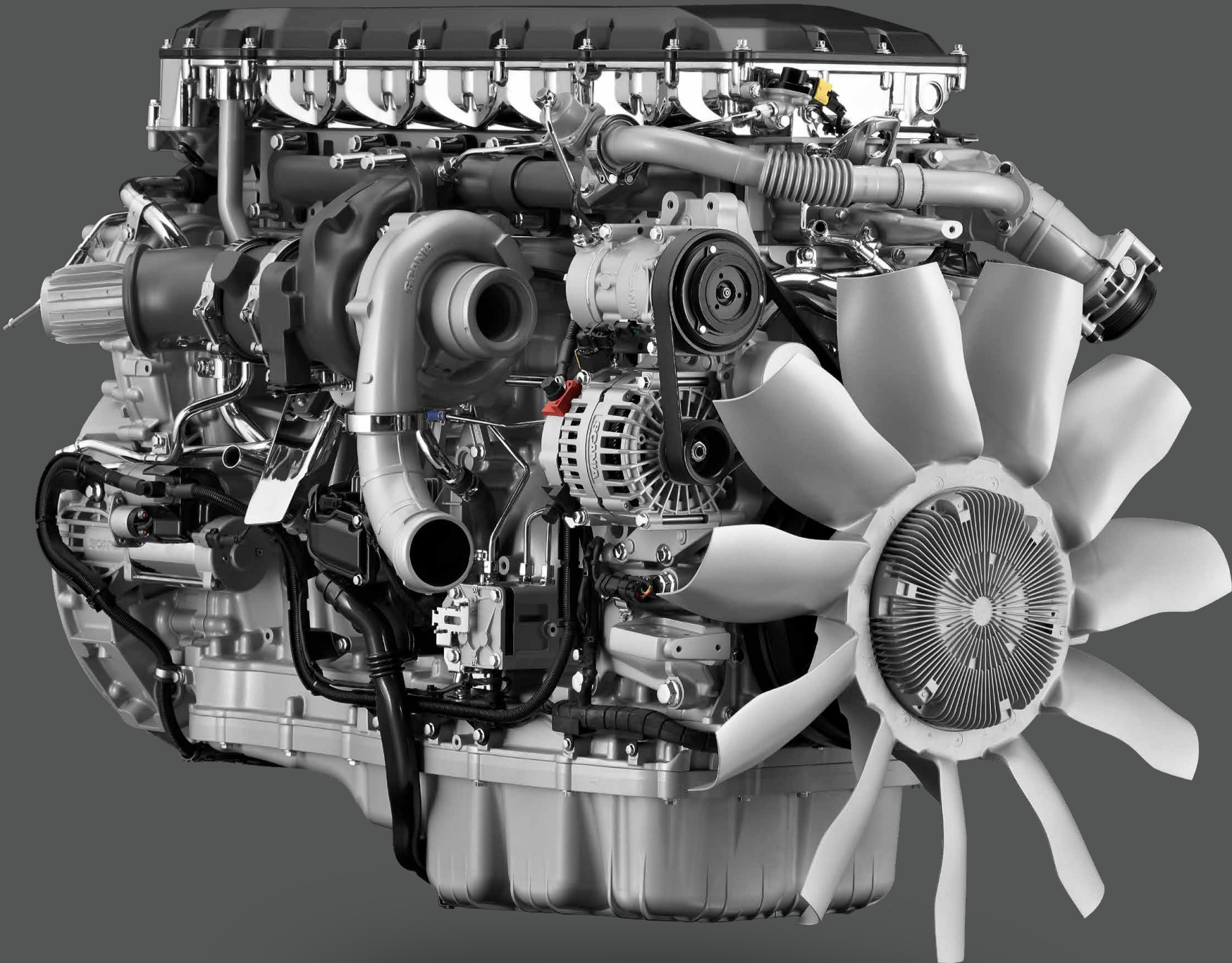
With up to 560 hp and torque up to 2800 Nm, the Scania Super delivers more power than ever before on a Scania 6-cylinder inline engine. With outstanding stamina, the new 13-litre engine is made to produce effortless propulsion with optimal fuel efficiency.

**Integrated auxiliary braking**

The engine-integrated compression release brake (CRB) system delivers powerful auxiliary braking capacity for improved engine brake performance.

**A bio-fuel champion**

The Scania Super range offers compatibility with a range of low-emission HVO fuels and biodiesel/FAME fuels.



**Specification range**

Emission level	Euro 6			
Power level	420 hp	460 hp	500 hp	560 hp
Torque	2300 Nm	2500 Nm	2650 Nm	2800 Nm

# SCANIA OPTICRUISE GEARBOX

Industry-leading engine performance demands a highly-efficient gearbox. The Scania Opticruise standard and heavy-duty gearbox range – available in three performance steps G25, G33 and G38 – is a critical enabler of the powertrain’s superior fuel efficiency.

Delivering an almost seamless transfer of power through a wider gear ratio spread and lower internal friction, the Opticruise G25, G33 and G38 set the highest industry standard for gearbox performance. Together with improved overall robustness, the Scania Opticruise remains the leading choice for sustainable, fuel-efficient transport operations.

**Outstanding efficiency**

Through a new variable oil volume and oil spray system, the Opticruise G25, G33 and G38 offer improved oil-flow distribution which ensure less internal friction and contribute to 50 percent lower internal losses.

**More gear options**

Based on a wider and more efficient 14-gear ratio, the control system of the Opticruise G25, G33 and G38 will automatically select the optimum gear for every driving situation. The new Opticruise performance steps, with super crawler and overdrive as standard, are engineered to support a higher torque at lower engine RPM – delivering lower fuel consumption.

**Outstanding reverse performance**

The Opticruise G25, G33 and G38 ensures improved reversing performance, featuring four automated-shift reverse gears as a standard, with the option of eight reverse gears in total.

**Improved brake performance**

The hydraulic auxiliary brake is enhanced through improved brake blending, delivering a maximum brake torque of 4700 Nm.

**Quieter, lighter, more compact**

The new compact aluminium housing, together with improved geometric design and oil-flow distribution, make this our lightest and quietest gearbox platform yet – delivering weight savings of up to 75 kg (GRS905) and 95 kg (GRSO935) compared to predecessor platforms.

	Engine compatibility	Torque capacity
G25	Up to 460 hp	2500 Nm
G33	Above 460 hp	3300 Nm
G38	Above 460 hp	3800 Nm

**Superior uptime**

Through higher precision engineering and the use of larger oil filters and high-quality oil, the Opticruise G25, G33 and G38 offer an extended oil change interval to give you fewer maintenance stops.

**Improved driveability**

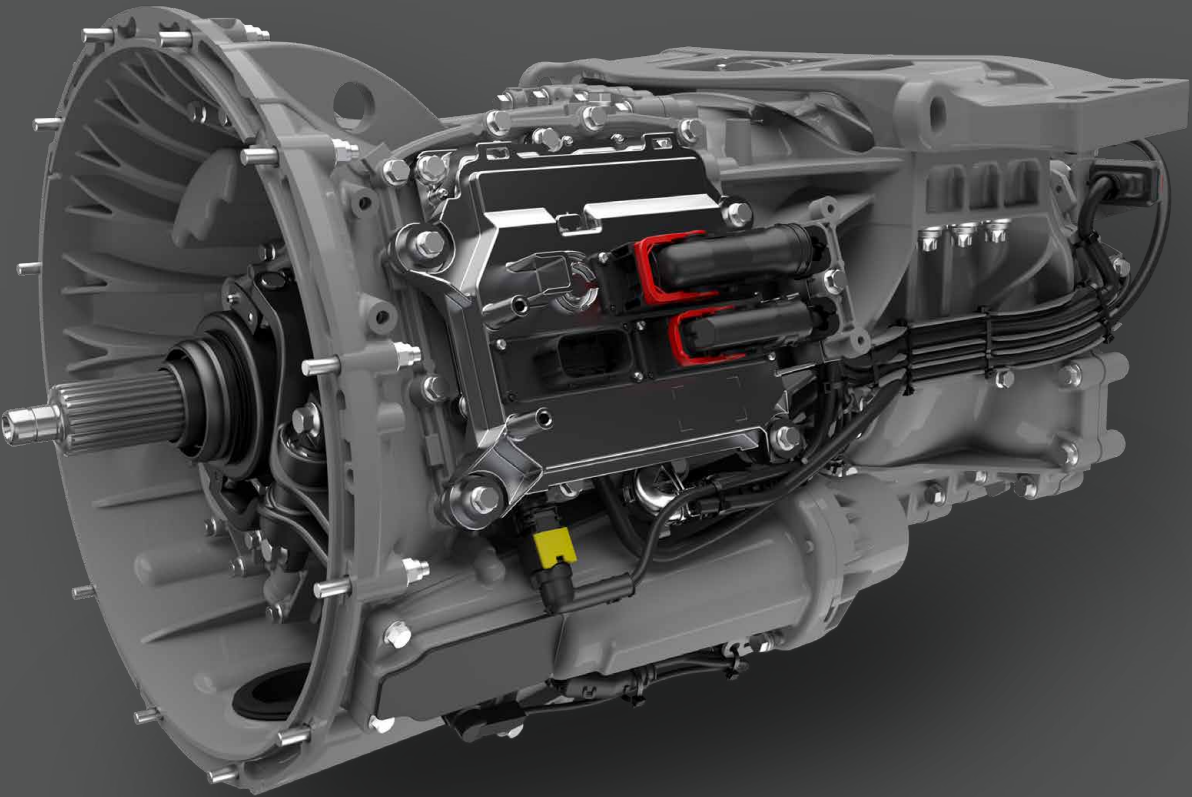
The Opticruise gearbox is equipped with a new robust management system which is designed to adapt to the current vehicle operation to enable smoother gear shifting, lower fuel consumption and a more comfortable driving experience.

**Improved PTO performance**

The Opticruise G25, G33 and G38 deliver a more powerful, fuel-efficient, low-noise and low-weight clutch-driven power take-off (PTO) range, offering even higher continuous power output to support heavier equipment such as hydraulic pumps.

**High payloads and tough operations**

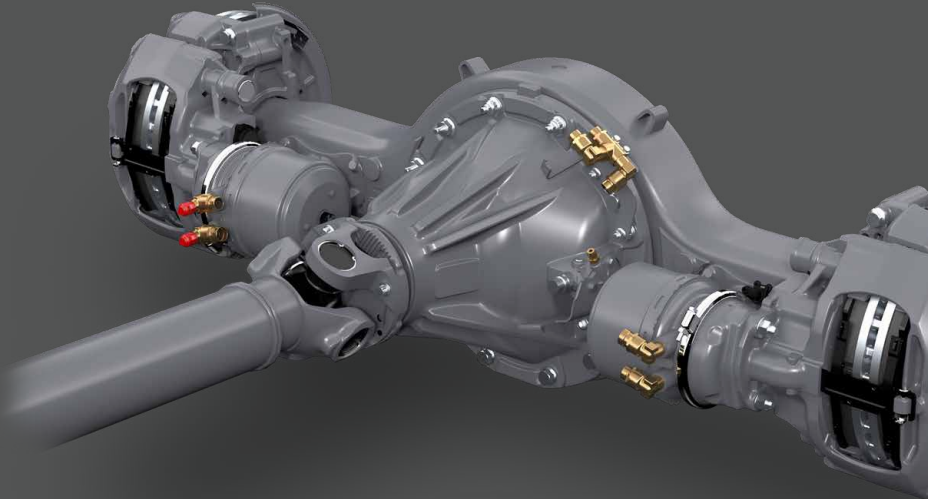
The G25, G33 and G38 Opticruise gearbox range, now available as a heavy-duty option, delivers higher output torque, superior startability and fast axle gearing with high payloads in tough operating terrains.



## CLASS-LEADING REAR AXLE EFFICIENCY

Offering a wider range of gear ratios from 1.95 to 4.11, Scania R756 single reduction rear axle is purpose engineered to enable the exceptional efficiency range of the Scania Super powertrain. It integrates seamlessly with the Scania Opticruise gearbox and the Scania Super engine creating the perfect match for all types of demanding operations.

With an improved technical life length, a significantly reduced component weight, reduced levels of internal friction and an extended service interval, the Scania R756 single reduction rear axle is the leading choice for future transport operations.





# NEXT-LEVEL MODULARITY

Based on the design strengths of the Scania modular system, the Scania chassis is now more versatile than ever. Not only does this facilitate a smoother bodybuilding process of your Scania truck, but it also gives you more possibilities for optimal load distribution and increased payload potential.

## Robustness and flexibility by design

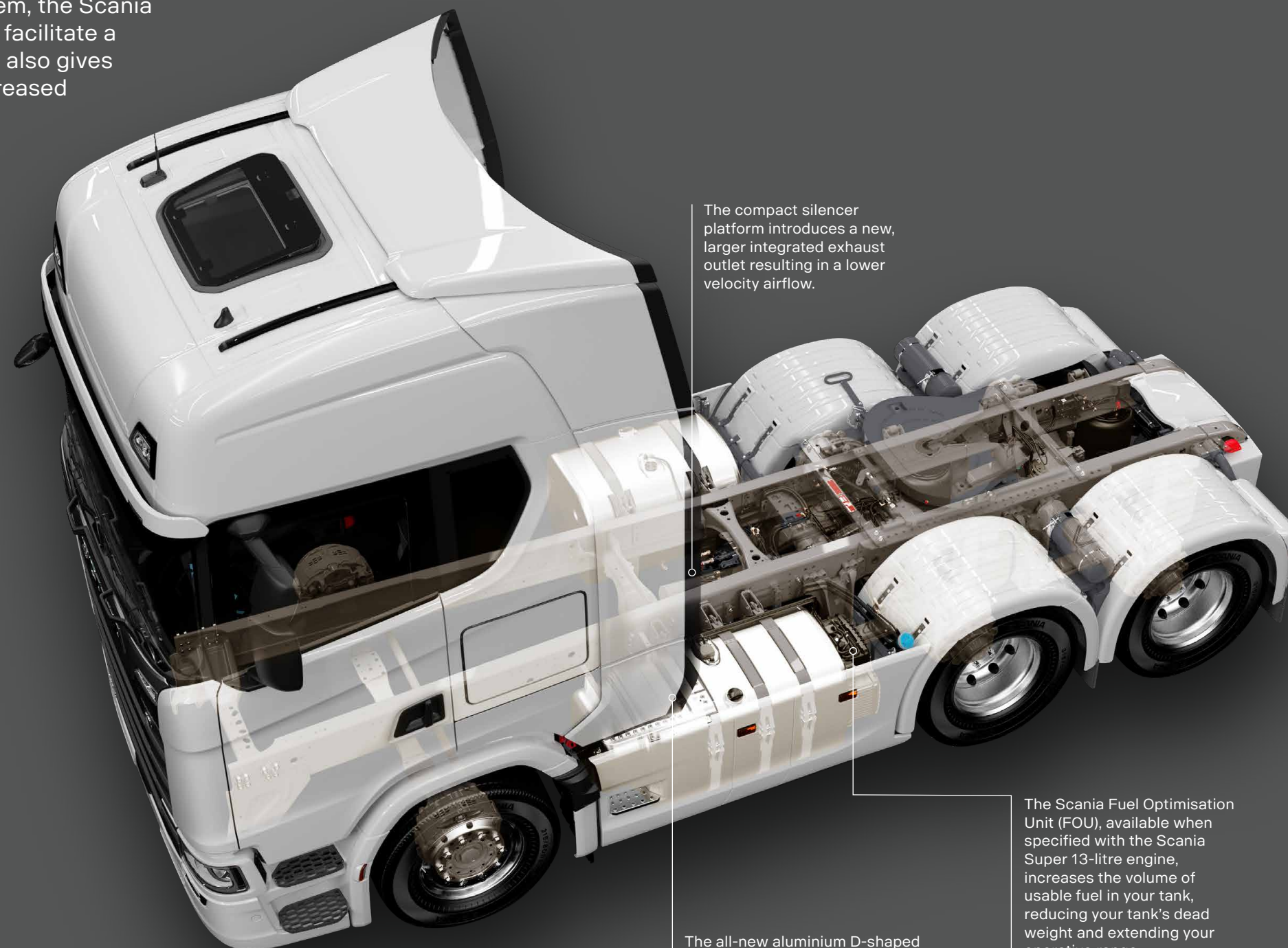
The chassis improved versatility gives you more freedom than ever to prioritise free space where you need it. This results in better integration between the chassis and bodywork, as well as a more modular and predictable chassis layout, giving you a tailor-made truck solution independent of application.

## Harness every drop of fuel

The aluminium D-shaped fuel tank range, available from 165 litres to 910 litres, features a new geometric design which is lighter, more robust, and available in many different lengths. The Super also introduces a fuel optimization unit, which attaches to the primary tank and is engineered to increase the usable fuel volume in your tank. It also monitors pump performance and detects early filter clogging which, together with extended fuel filter service intervals, delivers more time on the road for you and your business.

## Improved AdBlue ratio

Scania's side-mounted SCR tanks are a crucial part of the powertrain's superior emissions control. The Scania Twin SCR system introduces higher AdBlue volume capacity, delivered through 123-litre and 150-litre SCR tanks, to ensure a full 1:1 volume ratio between your Scania truck's fuel and AdBlue capacity.



The compact silencer platform introduces a new, larger integrated exhaust outlet resulting in a lower velocity airflow.

The all-new aluminium D-shaped fuel tanks, available in a range of sizes, deliver improved robustness and are designed to integrate seamlessly with the new Scania fuel optimisation unit (FOU).

The Scania Fuel Optimisation Unit (FOU), available when specified with the Scania Super 13-litre engine, increases the volume of usable fuel in your tank, reducing your tank's dead weight and extending your operative range.



# XT POWERED BY SUPER

The Scania XT range powered by the groundbreaking Super 13-litre engine powertrain brings world-leading fuel economy to the off-road.

The Scania XT's tough exterior is complemented by Super powertrain enhancements such as powerful engine-integrated auxiliary braking, higher output torque for high payloads in hard driving conditions, and the option of a low-velocity integrated exhaust outlet.

With groundbreaking fuel savings and lower noise emissions, the Scania XT powered by Super stands ready to meet the toughest challenges on your road ahead.



## SCANIA PROCARE

Scania ProCare is Scania's premium uptime service that all but eliminates the risk of unplanned stops for your business-critical trucks. By combining flexible and non-disruptive off-peak maintenance with proactive vehicle health analysis and a 24/7 monitoring guarantee, Scania ProCare will keep your fleet on the road for longer, mile after mile.

### Premium uptime experience

Taking Scania's commitment to uptime to an entirely new level, Scania ProCare is the premium vehicle maintenance choice for all Scania vehicles built from 2019 and onwards – from large international fleets to individual vehicle contracts.

As a premium and personal service, Scania technicians will also manage service planning for you, constantly keeping track of vehicle status and letting you know when it's time to act. For example, while a major engine breakdown could result in 40 workshop hours, the same root-cause could potentially be solved in just a few hours with Scania ProCare. Not only can this give you peace of mind, it also allows you to invest more focus where it matters, on your business.

### Intuitive preventative maintenance

With a ProCare contract, your Scania connected vehicle will intuitively report its technical status directly to Scania's expert maintenance teams in real time. By combining your vehicle's data with Scania's extensive and unique operational diagnostic data – gathered over many years – Scania technicians will proactively diagnose and resolve any potential downtime risks long before they begin to impact your operations.



