

# SCANIA



LONG-HAULAGE: TECHNICAL SPECIFICATIONS AND OPTIONS

# EFFICIENT TRANSPORT MADE TO ORDER



# MAKING THE MOST OF THE BEST

A Scania long-haulage truck is a reliable partner on the road. By combining your truck with the ideal setup of services and support systems, you can always rely on your vehicle to provide optimised performance – no matter where you operate. The right selection of supportive solutions will secure outstanding performance in all conditions – and you will understand the true meaning of having a truck specially tailored for your business.







# OPTING FOR TAILORED PERFORMANCE

Get maximum gain from your Scania, with minimum effort. Here is an overview of the solutions that will help make your transport more efficient, your drivers more skilled and comfortable – and your business more profitable.

## Heavy-duty powertrain

With an extremely efficient cooling system, advanced combustion technology, and fuel injection, Scania engines provide exceptional performance with outstanding fuel efficiency, high torque, and low emissions. Together with our extensive range of gearboxes you will be perfectly suited to take on any task, of any operation. The whole range of Scania heavy-duty gearboxes can be equipped with the Scania Retarder. Use it together with an exhaust brake, and experience greatly improved brake performance.

- *8+1 gears* – basic heavy-duty gearbox with one crawler gear and one reverse gear.  
Option: Scania Retarder
- *12+2 gears* – range splitter gearbox with two crawler gears and two reverse gears.  
Options: Scania Opticruise, Scania Retarder
- *12+2 gears* – range-splitter gearbox with overdrive, two crawler gears and two reverse gears.  
Options: Scania Opticruise, Scania Retarder
- *12+2 gears* – range-splitter reinforced gearbox with overdrive, two crawler gears and two reverse gears.  
Options: Scania Opticruise, Scania Retarder
- *6+1 gears* – fully automatic transmission with torque converter and one reverse gear.  
Option: Scania Retarder

## Scania Opticruise

Scania Opticruise, one of the first automated gear changing systems on the market, has been refined in many steps over the years, and is now one of the smoothest and smartest systems on the market. For operations requiring the driver to be in charge for specific manoeuvring, we introduce Clutch on Demand: a new performance step for Scania Opticruise. Clutch on Demand has an additional clutch pedal for convenient use in special conditions, otherwise the system works as an ordinary automatic clutch system.

### *Smooth and fast gearing*

The new lay-shaft brake provides faster and smoother gear changes to maintain both engine torque and road speed.

### *Scania Opticruise general features*

- Driver interface with all functions for gear changing and retarder control integrated in the right-hand steering wheel lever.
- Available in 8, 12 and 12+2 speed versions, the latter also with overdrive.
- Adaptive shift strategy based on style of driving, load and inclination of the road.
- Comprehensive electronic protection keeps clutch wear to a minimum.
- Several parameters can be adjusted by a Scania workshop to tailor the functionality to fit your specific needs.



#### **Performance modes**

The performance modes are part of Scania Opticruise. They allow you to adapt the vehicle's performance to match certain operational demands. Switching mode is easily done while driving and the chosen mode is visible on the central display. If required, all settings can be altered or fine-tuned by a Scania service workshop. There are totally four performance modes:

- *Standard mode.* Provides optimal balance between fuel economy and hill performance.
- *Economy mode.* Tuned to minimise fuel consumption and thus contribute to lower fuel costs.
- *Power mode.* Prioritises engine response and uphill performance in order to optimize transport time.
- *Off-road mode.* Enables better traction control when driving in rough terrain and on surfaces with high rolling resistance.

#### **Scania Retarder**

The Scania Retarder interacts with the cruise control, exhaust brake and wheel brakes to provide total downhill speed control. In addition, one of the Scania Retarder models is available in a version with automatic free-wheeling mode when not active. This results in reduced drag losses and additional fuel savings.

#### **Scania Active Prediction**

Scania Active Prediction is a unique advanced cruise control system that uses GPS to predict the topography of the road ahead. This enables any driver to achieve

a perfectly optimised cruising speed – even on roads never seen before, or in pitch black darkness. By adjusting speed before an ascent or descent, the system contributes to reduce fuel consumption. With Scania Opticruise and Economy mode, up to 5 per cent of fuel can be saved. Scania Active Prediction works seamlessly together with Scania Opticruise and Scania Adaptive Cruise control.

Using well-known eco-driving techniques, this smart cruise control prevents the vehicle from accelerating when climbing a hill until the crest levels out, and uses the momentum at the bottom of the slopes.

#### **Scania Eco-roll (CCAP)**

To minimise fuel consumption, this smart cruise control uses topographical data to select the optimal gear and speed in all conditions. The system combines GPS data to determine the vehicle position, and information of the topography ahead. In this way, the most fuel-efficient speed profile is calculated every second, allowing a fuel consumption reduction of up to 2 per cent.

#### **Scania Driver Support**

Scania Driver Support is a system that continuously gives the driver individual hints and feedback on the driving with safety and fuel economy as key parameters. It works in real time during driving and delivers a summary after a completed assignment. The system is designed to work in line with the Scania Driver Training programme in order to reduce wear and maintain a consistently fuel-efficient driving style.



#### **Rear axle gears**

With low complexity and high efficiency, Scania's single-driven gears for single reduction can master gross vehicle and train weights up to 78 tonnes with a wide range of gear ratios from 2.35 up to 5.57. The R753 is a robust single-gear with a ratio of 2.35 to keep the engine revs low at high cruising speed. All gears are offered with differential locks.

#### **EST – electronically steered tag axle**

As an innovative complement to the regular steering axle, the EST contributes to excellent manoeuvring, as well as low weight, fuel consumption, and tyre wear.

#### **Automatic climate control system**

Long hours of driving or well-deserved, peaceful resting; every hour spent in the cab should be relaxing and comfortable. Our automatic climate control system has been updated and improved, and is available in two different performance steps: ACC and Premium. Both feature improved control stability, air distribution, air evacuation, and defrost/demist functions. In addition, Premium offers a combined particle and carbon filter, as well as partial recirculation control and more sensors for maximum air quality and improved energy consumption.

#### **Auxiliary heating and cooling**

For maximum comfort, the cab can also be equipped with an auxiliary heating or cooling system connected via the regular air distribution channels and outlets.

#### **Spot lamps**

Besides the basic function of providing excellent visibility, our integrated spot lamps are positioned to meet various customer needs and improve both aerodynamics and fuel consumption. All spot lamps are LED, which means a direct effect on uptime and total operating cost.

#### **Safety systems**

- *Electronic Stability Programme (ESP)* reduces the risk of skidding and tipping over, as well as the effects of understeering and oversteering
- *Lane Departure Warning (LDW)* is a practical safety function that warns the driver if the vehicle is about to cross the road markings
- *Advanced Emergency Braking (AEB)* is a collision prevention system that, if detecting an obstacle ahead of the vehicle, is activated in three steps depending on the reaction of the driver: first, a warning signal; secondly, a light braking; and thirdly, full-force braking.
- *Air bags* – being the first in the industry, the side curtain airbag will protect the driver in case of a roll-over accident. Together with the steering wheel airbag, the overall driver safety is on point.

#### **Scania Driver Training and coaching**

Gives the driver the opportunity to perform at its best. A skilled driver contributes to increased road safety and better fuel economy and also lowers the environmental footprint. Our unique one-to-one driver coaching paves the way to excellent driving habits and to reduce wear and tear, stress, fuel consumption while increasing comfort and road safety.

## Exterior

### Improved crash performance

The sturdy cab structure provides improved protection and enhanced safety for cab occupants. The cab is also equipped with several airbags, for extra safety in case of accidents.

### Aerodynamics

Front, roof, side, underbody – all areas have been analysed, adjusted and optimised to streamline air flow and achieve the lowest possible air resistance.

### Windscreen

For increased safety and comfort in cold and snowy conditions, the windscreen is available with electrical heating. The heating function ensures visibility by preventing snow and ice sticking to the outside, as well as condensation forming inside the cab. This is especially suitable in operations where the driver frequently steps in and out of the cab, such as distribution or timber loading.

### External storage

A convenient storage compartment is placed behind the door on both driver's and passenger's side. It is equipped with lighting and has access from both the outside and inside of the cab.



# CARVED TO PERFECTION

The appearance is striking. Robust and straightforward, yet elegant. The new generation Scania sets new standards in terms of driver environment, safety, fuel efficiency and engine power.

#### **Air deflector system**

The roof and side air deflectors are designed to effectively reduce wind resistance from bodywork or semi-trailer. Air deflectors are especially useful for vehicles operating at 50 km/h or more, enabling fuel savings by up to 4%.

#### *Roof air deflector*

The slim roof air deflector is available in three different heights: 5, 25 and 65 cm. There is also an adjustable version, where the angle can be adapted either by manual or electrical operation.

#### *Side air deflector*

Fitted at the rear of the cab, the side air deflectors are available in 12, 45 or 53 cm.



#### **Leading brake performance**

Innovative features, such as improved brake actuation, stronger brake calipers, and better weight distribution contribute to best-in-class brake performance.

## Exterior

### Window rear

An extra window in the back wall of the cab adds extended visibility and sense of space.

### Working lamps

Efficient lighting lets you work safely around the truck. There are working lamps for the rear wall of the cab, the sides below the cab, and for the rear end, all controlled by a switch on the door panel.

### Windows side

Tough, laminated glass prevents the glass from shattering in the event of an accident. The tough glass also insulates the cab against heat, cold and noise. An extra, laminated glass window can be fitted on the left- or right-hand side wall of the cab, adding light and a sense of space. Both side and door windows are available in single glass or laminated versions.

### Door window air deflector

For extra comfort, the door window air deflector allows the driver to keep the window partially open without having water or dirt entering the cab.



**Beacon**

Mounted on a robust aluminium bar, the rotating beacon supplies efficient warning light. On cabs with a normal roof, the beacons can also be seen from behind.

**Roof rail**

The aluminium roof rail simplifies the fitting of an air deflector, roof rack and other extra equipment. The roof rails are fitted on either side of the cab roof and run from the front to the rear.

**External sun visor**

The sun visor prevents the driver from being exposed to direct sunlight, improving both visibility and comfort. Available with 2-5 integrated lamps.

**Cab tilting**

For convenient inspection and maintenance, the cab can be tilted with an electric pump located on the driver's side behind the front grille panel. The pump is activated by a switch on the instrument panel. Also available in a mechanical version.

**Scania XT range bumper**

With its 150-mm protrusion the XT range bumper provides effective protection of lower front components, head lamps and cab corners. The Scania XT vehicles are also compatible with front underrun protection in high or low position.



## Exterior

### Close proximity mirror

Class V mirror that gives the driver visibility immediately below the passenger door. Available with manual or electrical operation, with or without heating. Visible glass dimensions 294×169 mm.

### Front view mirror

Mounted on the passenger side above the windscreen, the front view mirror allows the driver to see the area directly in front of the vehicle. Available with manual or electrical operation, with or without heating. Can also be used together with external sun visor.

### Spotlamp front grille panel

The cab is equipped with efficient spotlamps integrated in the upper front grille.

### Headlamp

To see and be seen is naturally a matter of safety, but well-designed lighting also shows character. The LED headlamps include main beam, dipped beam, daytime running lights and direction indicators with LED technology. Or choose an H7 lamp for main and dipped beam with an H21 lamp for direction indicators. Fog lamps, adapted to match either LED or H7 headlamps, secure maximum visibility in harsh weather conditions.

### Roof hatch

A roof hatch increases cab comfort by providing extra light, extra ventilation, and a feeling of increased space. Available in various designs, both manual and electric operation. Can be equipped with mosquito net. Roof hatch dimensions: 380–390×660 mm.

### Bumper

Protect fog lamps, headlamps and cab corners with the efficient front bumper. Choose between high, normal, or low position, and 0 or 40 mm protrusion.

### Second step in front

The lower front grille of the cab opens up to provide a sturdy platform to stand on when cleaning windscreen and lamps.



**Rear view mirrors**

Featuring optimal aerodynamic properties, all rear view mirrors are electrically adjustable and can be equipped with electrical heating for quick defrosting and demisting. The wide angle mirror, located above the rear view mirror, widens the field of vision and provides excellent visibility along the side of the vehicle.

**Fifth wheel working lamp**

Located on the left-hand side of the rear cab wall, the fifth wheel working lamp provides efficient lighting when connecting a trailer. Available with white or yellow light and activated by a switch on the door inner panel.

**Tail lamp**

The tail lamps and the reflective surface create a unique Scania look also from the rear. The tail lighting also increases safety, as following vehicles are quickly and clearly alerted. Available with LED technology or incandescent bulbs.

# SPECIFICATION OPTIONS

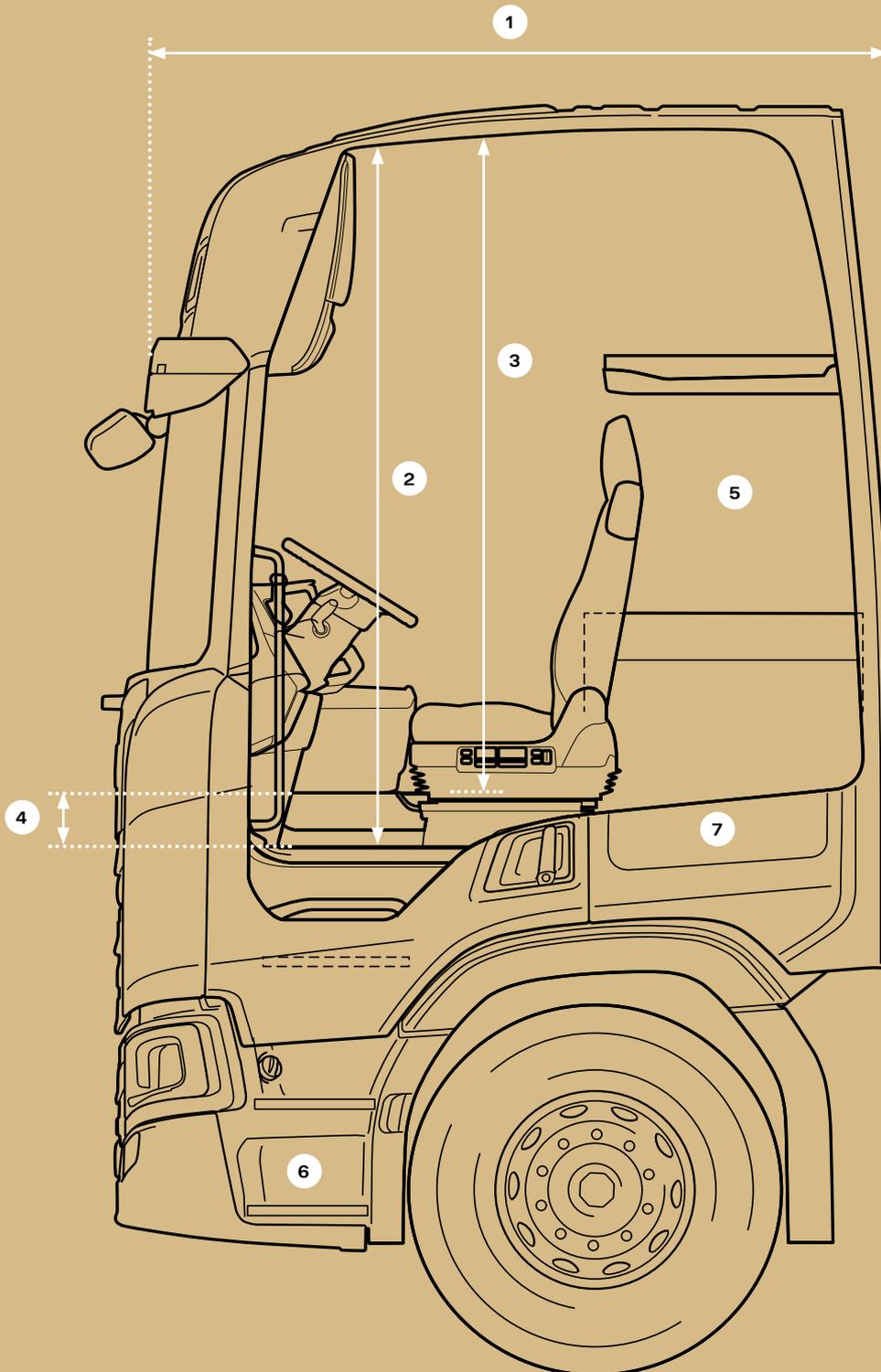
## CABS

	Sleeper cabs		Day cabs	
S	 High	 Normal		
R	 High	 Normal	 Low	
G	 High	 Normal	 Low	
P	 High	 Normal	 Low	

Short cabs

			<p><b>Scania S-series</b>                  Unique spaciousness, flat floor and extended storage. The obvious choice for the longest transports.</p> <p><b>Engines</b>                  370 to 730 hp</p>
 Normal	 Low		<p><b>Scania R-series</b>                  Pure premium in every detail. Comfort and prestige for demanding routes.</p> <p><b>Engines</b>                  280 to 730 hp</p>
 Normal	 Low	 Low	<p><b>Scania G-series</b>                  Robust and well-equipped. Mid-size cab suitable for a wide range of applications.</p> <p><b>Engines</b>                  370 to 500 hp</p>
 Normal	 Low	 Low	<p><b>Scania P-series</b>                  Lightweight, economic and comfortable. Compact dimensions paired with full size quality and performance.</p> <p><b>Engines</b>                  220 to 450 hp</p>

## CAB DIMENSIONS



- |                              |                     |
|------------------------------|---------------------|
| 1. Overall length            | 5. Bed option       |
| 2. Floor-to-roof, footwell   | 6. Steps            |
| 3. Floor-to-roof, cab center | 7. External storage |
| 4. Floor height, cab center  |                     |

### Sleeper cabs

- S high
- R high
- G high
- P high
- S normal
- R normal
- G normal
- P normal
- R low
- G low
- P low

### Day cabs

- R normal
- G normal
- P normal
- R low
- G low
- P low

### Short cabs

- G low
- P low

### Crew cabs

- Long CrewCab
- CrewCab

1	2	3	4	5	6	7
2,280 mm	2,070 mm	2,070 mm	Flat floor	2 <sup>1)</sup>	4	161 + 161 litre *
2,280 mm	2,070 mm	1,915 mm	155 mm	2 <sup>1)</sup>	3	187 + 187 litre
2,280 mm	2,030 mm	1,695 mm	335 mm	2 <sup>2)</sup>	3	123 + 123 litre
2,280 mm	2,030 mm	1,590 mm	440 mm	1	2	168 + 168 litre
2,280 mm	1,850 mm	1,850 mm	Flat floor	2 <sup>3)</sup>	4	161 + 161 litre *
2,280 mm	1,850 mm	1,695 mm	155 mm	2 <sup>3)</sup>	3	187 + 187 litre
2,280 mm	1,800 mm	1,465 mm	335 mm	2 <sup>3)</sup>	3	123 + 123 litre
2,280 mm	1,800 mm	1,360 mm	440 mm	1	2	168 + 168 litre
2,280 mm	1,500 mm	1,345 mm	155 mm	1	3	187 + 187 litre
2,280 mm	1,500 mm	1,165 mm	335 mm	1	3	123 + 123 litre
2,280 mm	1,500 mm	1,060 mm	440 mm	1	2	168 + 168 litre
2,010 mm	1,850 mm	1,695 mm	155 mm	–	3	101 + 101 litre
2,010 mm	1,800 mm	1,465 mm	335 mm	–	3	63 + 63 litre
2,010 mm	1,800 mm	1,360 mm	440 mm	–	2	89 + 89 litre
2,010 mm	1,500 mm	1,345 mm	155 mm	–	3	101 + 101 litre
2,010 mm	1,500 mm	1,165 mm	335 mm	–	3	63 + 63 litre
2,010 mm	1,500 mm	1,060 mm	440 mm	–	2	89 + 89 litre
1,730 mm	1,500 mm	1,165 mm	335 mm	–	2	–
1,730 mm	1,500 mm	1,060 mm	440 mm	–	2	–
3,545 mm	1,500 mm	1,060 mm	440 mm	–	2	–
3,265 mm	1,500 mm	1,060 mm	440 mm	–	2	–

#### 4 Floor height

\* Cross cab access in front of engine tunnel.

#### 5 Beds

Lower bed: width <1,000 mm, length 2,175 mm.

<sup>1)</sup> Upper bed (optional): width 800 mm, length 1,940 mm.

<sup>2)</sup> Upper bed (optional): width 700 mm, length 1,940 mm.

<sup>3)</sup> Upper bed (optional): width 600 mm, length 1,940 mm.

Choose between mattress options Bonell with interconnected springs, body-adjusting foam, or Pocket spring.

#### 7 External storage

Placed behind the door on both driver's and passenger's side, the external storage compartment is equipped with lighting and has access from both the outside and inside of the cab.

\* The S-cab also features an extra compartment for gloves, boots, etc. placed below the external storage mentioned above. The extra compartment is accessible from the outside and measures 661×108/180 mm.

# CHASSIS

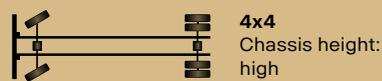
## Axle configuration

The new Scania tractors and rigids are available in a variety of axle configurations. Contact your Scania dealer to find the best solution for your needs.

### Tractors



### Rigids



# ENGINES AND TRANSMISSION

## Gearboxes

Gears	Type	Engines	Options
<b>Range-change gearboxes</b>			
8 gears		Up to 2,100 Nm	Opticruise, Retarder
8+1 gears	Gearbox with one crawler	Up to 2,400 Nm	Retarder
<b>Range-splitter gearboxes</b>			
12 gears	Gearbox with one crawler	Up to 2,350 Nm	Opticruise, Retarder
12+2 gears	Gearbox with two crawlers	Up to 2,700 Nm	Opticruise, Retarder
12+2 gears	Overdrive gearbox with two crawlers	Up to 3,500 Nm	Opticruise, Retarder

### Automatic gearboxes

Automatic gearboxes are available together with most of the 5- and 6-cylinder engines

## Euro 6 engines

Swept volume	Maximum power	Maximum torque	Emission control
<b>5 inline</b>			
9-litre	280 hp (206 kW) at 1,900 r/min	1,400 Nm (1,000–1,350 r/min)	SCR
9-litre	320 hp (235 kW) at 1,900 r/min	1,600 Nm (1,050–1,350 r/min)	SCR
9-litre	360 hp (265 kW) at 1,900 r/min	1,700 Nm (1,050–1,350 r/min)	SCR
<b>6 inline</b>			
7-litre	220 hp (164 kW) at 1,900 r/min	1,000 Nm (1,050–1,500 r/min)	SCR
7-litre	250 hp (184 kW) at 1,900 r/min	1,100 Nm (1,050–1,550 r/min)	SCR
7-litre	280 hp (206 kW) at 1,900 r/min	1,200 Nm (1,050–1,600 r/min)	SCR
13-litre	370 hp (272 kW) at 1,900 r/min	1,900 Nm (1,000–1,300 r/min)	SCR
13-litre	410 hp (302 kW) at 1,900 r/min	2,150 Nm (1,000–1,300 r/min)	SCR
13-litre	450 hp (331 kW) at 1,900 r/min	2,350 Nm (1,000–1,300 r/min)	SCR
13-litre	500 hp (368 kW) at 1,900 r/min	2,550 Nm (1,000–1,300 r/min)	SCR
<b>V8</b>			
16-litre	520 hp (382 kW) at 1,900 r/min	2,700 Nm (1,000–1,300 r/min)	SCR
16-litre	580 hp (427 kW) at 1,900 r/min	3,000 Nm (950–1,350 r/min)	SCR
16-litre	650 hp (479 kW) at 1,900 r/min	3,300 Nm (950–1,350 r/min)	SCR
16-litre	730 hp (537 kW) at 1,900 r/min	3,500 Nm (1,000–1,400 r/min)	SCR, EGR

## Euro 5 engines

Swept volume	Maximum power	Maximum torque	Emission control
<b>5 inline</b>			
9-litre	280 hp (206 kw) at 1,900 r/min	1,400 Nm (1,000–1,350 r/min)	SCR
9-litre	320 hp (235 kw) at 1,900 r/min	1,600 Nm (1,050–1,350 r/min)	SCR
9-litre	360 hp (265 kw) at 1,900 r/min	1,700 Nm (1,050–1,350 r/min)	SCR
<b>6 inline</b>			
13-litre	380 hp (279 kw) at 1,900 r/min	1,975 Nm (1,000–1,300 r/min)	SCR
13-litre	410 hp (302 kw) at 1,900 r/min	2,150 Nm (1,000–1,300 r/min)	SCR
13-litre	450 hp (331 kw) at 1,900 r/min	2,350 Nm (1,000–1,350 r/min)	SCR
13-litre	500 hp (368 kw) at 1,900 r/min	2,550 Nm (1,000–1,350 r/min)	SCR
<b>V8</b>			
16-litre	520 hp (382 kw) at 1,900 r/min	2,700 Nm (1,000–1,300 r/min)	SCR
16-litre	620 hp (456 kw) at 1,900 r/min	3,000 Nm (950–1,400 r/min)	SCR

## Power take-offs

There are many ways to tap into the power of your Scania. Our PTO options include gearbox-driven (clutch dependent), flywheel-driven (clutch independent) and engine-driven solutions.

For more information contact your  
Scania branch or local dealer.

#### **HEAD OFFICE**

212 – 216 Northbourne Rd  
Campbellfield, 3061  
Tel: (03) 9217 3300

#### **VICTORIA**

**Scania Campbellfield**  
212 – 216 Northbourne Rd  
Campbellfield, 3061  
Tel: (03) 9217 3300

#### **Scania Dandenong**

2/66 Greens Rd  
Dandenong South, 3175  
Tel: (03) 9217 3600

#### **Scania Laverton**

125 – 129 Boundary Rd  
Laverton, 3026  
Tel: (03) 9369 8666

#### **NEW SOUTH WALES**

#### **Scania Newcastle**

1 Enterprise Drive  
Beresfield, 2322  
Tel: (02) 9825 7940

#### **Scania Prestons**

16 – 18 Lyn Pde  
Prestons, 2170  
Tel: (02) 9825 7900

#### **K & J Trucks Pty Ltd**

Lot 1 Pacific Highway  
Boambee, 2450  
Tel: (02) 6652 7218

#### **QUEENSLAND**

#### **Scania Richlands**

149 Archerfield Rd  
Richlands, 4077  
Tel: (07) 3712 8500

#### **Scania Pinkenba**

213 Holt St  
Pinkenba, 4008  
Tel: (07) 3712 7900

#### **RSC Diesel**

29 – 31 Ponzo St  
Woree, 4868  
Tel: (07) 4054 5440

#### **SOUTH AUSTRALIA**

#### **Scania Wingfield**

218 – 234 Cormack Rd  
Wingfield, 5010  
Tel: (08) 8406 0200

#### **WESTERN AUSTRALIA**

#### **Scania Kewdale**

527 – 529 Abernethy Rd  
Kewdale, 6105  
Tel: (08) 9360 8500

Scania pursues an active policy of product development and improvement. For this reason the company reserves the right to change specifications without prior notice. Furthermore, due to national or EU legal requirements, some products and services may not be available in all local markets. For further information in these respects, please contact your local dealer or visit [www.scania.com.au](http://www.scania.com.au)



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