



SCANIA INDUSTRIAL POWER SOLUTIONS

# 16-LITRE ENGINE

## Scania's V8 Portfolio for Airport Rescue and Firefighting Vehicles

Meet Scania's iconic V8 engine; the DC16, built on over 50 years of experience delivering V8 power. For Power Solutions, outstanding performance and high uptime are at the core of our business, and still we never compromise on fuel consumption. Scania's engines are compact, easy to install and maintain. Thanks to integrated production with industry-leading quality standards, we can supply both engines and parts with short lead times. Each engine provides leading fuel economy and exceptional torque rating already at low revs. This makes it suitable for support and operational land vehicles, while delivering lean customer operational and sustainment life cycle costs. By utilising cutting-edge technology as well as proven technologies as a basis for development, our engineers continue to break new ground.

**SCANIA**



## KEY FEATURES, SUPPORT AND SERVICE

- Modular design and support solutions, resulting in maximised uptime and reliability.
- Global service network and support.
- High power-to-weight ratio.
- Outstanding fuel efficiency.
- Compact dimensions.
- Full service support of spare parts, documentation, training, repair and maintenance services.
- 100% designed and built in-house – uncompromising reliability.
- Developed and verified in our goods transport solutions.
- Support from installation team throughout the operational process.

Scania can support with engine adaptations, as well as fitted or loose accessories, to suit a variety of installations. With more than 1,800 service workshops all over the world, the availability of professional services, assistance and advice leaves nothing to be desired. A great share of our authorised workshops are ready and accessible 365 days a year, ensuring high uptime. Scania supports the engine during its full life cycle in all industry machinery perspectives.

### Standard equipment

- Scania Engine Management System, EMS.
- Fuel injection system unit injectors, XPI.
- Engine-mounted fuel filter.
- Oil filter, full flow.
- Oil cooler, integrated in cylinder block.
- CAN bus communication.

### Optional equipment

- Front-mounted PTO.
- Exhaust connections.
- Flywheels for different types of applications.
- Fuel cooler.
- Fuel heater.

## TECHNICAL SPECIFICATIONS – DC16, 405-566 kW (550-770 HP)

No of cylinders	90°, V8
Working principle	4-stroke
Firing order	1 - 5 - 4 - 2 - 6 - 3 - 7 - 8
Displacement	16.4 litres
Bore x stroke	130 x 154 mm
Charging method	Turbocharged
Starting method	Electric
Electrical system	2-pole, 24 V DC
Control method	CAN bus, Scania EMS
Intake system	Charge air cooling, dual circuit
Injection system	XPI
Max torque	3,342 Nm
Emission compliancy	Euro Stage IIIA, Euro Stage V, Tier 4 Final, China IV, Korean Tier 5

Rated power	Euro Stage IIIA	515/551 kW
	Euro Stage V	522/566 kW
	Tier 4 Final	405/493/566 kW
	China IV	522 kW
	Korean Tier 5	522 kW
Rated speed	1,400 rpm	
Contin. operational angles	Pitch ±45° at idle, roll ±30°	
Direction of rotation	Counter clockwise	
Cold start	-19°C without preheating system	
Lubrication oil system	Dry or wet oil sump	
Oil cooler	Integrated in engine cooling system	
Oil capacity	40–48 dm <sup>3</sup>	
Standard fuels	EN590	
Alternative fuels	F-34 (JP-8), F-44 (JP-5), F-54, F-63, F-75, F-35 with corresponding additives*	
Lubrication oil standards	Scania LDF3, ACEA E4/E5/E7*	

\*Other types of fuel or oil should be checked for compliance. Additional information is available on request.

**Test conditions.** Air temperature 25°C. Barometric pressure 100 kPa (750 mmHg). Humidity 50%. Diesel fuel according to EN590.

**Power test code** ISO 3046. Power and fuel values ±3%.

## DIMENSIONS

L: 1,315–1,325 mm

H: 1,207–1,289 mm

W: 549+650, 531+595, 546+651 mm

