

Actros Engines

Mercedes-Benz



Engines

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Mercedes-Benz engines are specifically designed for use in Mercedes-Benz diesel trucks. The block utilises a cast iron parent bore design which is

Design and construction duction-hardened at the top for extra strength around the Von Design and

chamber.
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diesel trucks. The block thailism burardirproparent bare daging thirdwir stroke diesel system induction-hardened at the top dearency higher posts around the hardened at the top dearency higher posts around the hardened at the top dearency higher posts around the hardened at the top dearency higher posts around the hardened at the top dearency higher posts around the hardened at the top dearency higher posts around the hardened at the top dearency higher posts around the hardened at the top dearency higher posts around the hardened at the top dearency higher posts around the hardened at the top dearency higher posts around the hardened at the top dearency higher posts around the hardened at the top dearency higher posts around the hardened at the higher posts are not higher posts are

Aluminium pistons are used to minimise weight. Forged conrods a The combustion process for kbn and give into five for the five for the first of the five for the first of the

Aluminium pistons are uned triminimised swoighte Proceed des Bedra and ine are cast iron and in crankshaft hold the pistoms indeplaced The integrated hibs coolea belogs indep. A constant throttle all of this lubricated and chook string coperationalso incorporated into the cylinder head.

The cylinder heads on the Meterdes de that graphives chastiron and syndarde for optimum power. two inlet and two exhaust valves on each cylinder. A constant throttle exhaust brake valve is also incorporated into the cylinder head.

Emission control

A single turbocharger drives the air intake system for optimum power.

Mercedes-Benz has opted to use SCR (Selective Catalytic Reduction) technology.

to satisfy Euro 4 and Euro 5 emission requirements. SCR technology uses a no

Emission control toxic re-agent which is injected into the exhaust system after the turbo. Through

a chemical reaction with the re-agent within the catalytic converter emission Mercedes-Benz has opted to use SCR (Selective Catalytic Reduction) technology levels are lowered significantly, to satisfy Euro 4 and Euro 5 emission requirements. SCR technology uses a non-

to satisfy Euro 4 and Euro 5 emission requirements. SCR technology uses a non-toxic re-agent which is injutish into instantial reaction with shall expensive is the injution of the constant o

levels are lowered significantly gases do not need to be re-circulated.

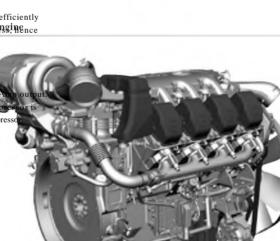
Utilising this SCR technology also helps the engine to run more efficiently

as all exhaust treatmen Aiu xidatoirned after the combustion process, hence exhaust gases do not need to be re-circulated.

All Mercedes-Benz engines include a 28V alternator with an

This can be increased to 100 Amp as an option. A single air compa-Auxillaries fitted as standard with the option of upgrading to a twin cylinder compres

All Mercedes-Benz engines include a 28V alternator with an 80 Amp output. This can be increased to 100 Amp as an option. A single air compressor is fitted as standard with the option of upgrading to a twin cylinder compressor.



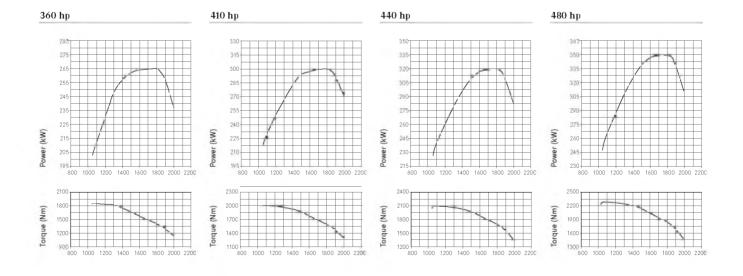


	360 hp	410 hp	
Туре	Mercedes-Benz OM 510 LA, 12 litre turbo-intercooled 4 valves per cylinder, V6 direct injection		
Maximum power @ 1,800 rpm	265 kW (360 hp)	300 kW (408 hp)	
Maximum torque @ 1,080 rpm	1,850 Nm (1,365 lb.ft)	2,000 Nm (1,475 lb.ft)	
Bore	130 mm	130 mm	
Stroke	150 mm	150 mm	
Capacity	11.95 litres	11.95 litres	
Weight	940 kg	940 kg	
Control	Telligent® electronic engine management	Telligent® electronic engine management	
Fuel injection	Direct injection via unit injectors	Direct injection via unit injectors	
Cooling	Water cooled with electromagnetic fan	Water cooled with electromagnetic fan	
Engine brake	Brake flap & decompression valve	Brake flap & decompression valve	
Exhaust	Stainless steel with SCR catalytic converter	Stainless steel with SCR catalytic converte	

Туре	Mercedes-Benz OM501LA, 12 litre turbo-intercooled 4 valves per cylinder, V6 direct injection		
Maximum power @ 1,800 rpm	320 kW (435 hp)	350 kW (476 hp)	
Maximum torque @ 1,080 rpm	2,100 Nm (1,550 lb.ft)	2,300 Nm (1,696 lb.ft)	
Bore	130 mm	130 mm	
Stroke	150 mm	150 mm	
Capacity	11.95 litres	11.95 litres	
Weight	940 kg	940 kg	
Control	Telligent® electronic engine management	Telligent® electronic engine management	
Fuel injection	Direct injection via unit injectors	Direct injection via unit injectors	
Cooling	Water cooled with electromagnetic fan	Water cooled with electromagnetic fan	
Engine brake	Brake flap & decompression valve	Brake flap & decompression valve	
Exhaust	Stainless steel with SCR catalytic converter	Stainless steel with SCR catalytic converter	

480 hp

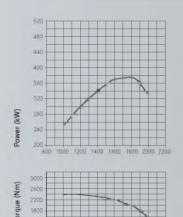
440 hp



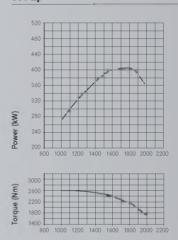
510 hp	550 hp	600 hp

Туре	Mercedes-Benz OM 502 LA, 16 litre turbo-intercooled 4 valves per cylinder, V8 direct injection				
Maximum power @ 1,800 rpm	375 kW (510 hp)	405 kW (551 hp)	440 kW (598 hp)		
Maximum torque @ 1,080 rpm	2,400 Nm (1,770 lb.ft)	2,600 Nm (1,917 lb.ft)	2,800 Nm (2,065 lb.ft)		
Bore	130 mm	130 mm	130 mm		
Stroke	150 mm	150 mm	150 mm		
Capacity	15.93 litres	15.93 litres	15.93 litres		
Weight	1258 kg	1258 kg	1258 kg		
Control	Telligent® electronic engine management	Telligent® electronic engine management	Telligent® electronic engine management		
Fuel injection	Direct injection via unit injectors	Direct injection via unit injectors	Direct injection via unit injectors		
Cooling	Water cooled with high capacity fan	Water cooled with high capacity fan	Water cooled with high capacity fan		
Engine brake	Brake flap & decompression valve	Brake flap & decompression valve	Brake flap & decompression valve		
Exhaust	Stainless steel with SCR catalytic converter	Stainless steel with SCR catalytic converter	Stainless steel with SCR catalytic converter		

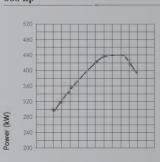


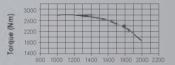


550 hp



600 hp





Authorised Dealer

To speak to your nearest authorised Mercedes-Benz dealer about the new Actros call 0800 628 782.

Specifications and information referred to herein were correct at the time of publication. Some of the equipment depicted either on vehicle illustrations or separately may be non-standard or optional at extra cost.

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Mercedes-Benz New Zealand Ltd.

7 Clemow Drive, Mt Wellington, Auckland. Telephone: (09) 573 0192. Facsimile: (09) 573 5990. www.mercedes-benz.co.nz
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