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New AMG V8 engine with 510 hp



The new 6.3-litre V8 engine is the first in the world to combine the high-revving concept with a large displacement. Developed entirely by AMG, this high-performance engine has a displacement of 6.3 litres and generates an output of 375 kW/510 hp at 6800 rpm, plus a maximum torque of 630 Newton metres, which makes the new power pack by AMG the world's most powerful naturally aspirated eight-cylinder production engine. Thanks to its large displacement, the V8 by AMG develops around 20 percent more torque than comparable naturally aspirated engines in this performance class.

This eight-cylinder unit was developed to series production maturity entirely by the efforts of the engineers and technicians in Affalterbach. The new AMG 6.3-litre V8 engine will shortly be presented in a new high-performance AMG car, and is destined to provide both emotional and physical driving pleasure in other AMG cars in the future.

The high expectations of AMG customers and the impressive history of AMG eight-cylinder engines were both an incentive and an obligation for the engineers and product planners at Mercedes-AMG GmbH to come up with a superlative new V8 power unit. This has been achieved: from a displacement of 6208 cubic centimetres, the AMG V8 aluminium engine develops a peak output 375 kW/510 hp at 6800 rpm and a maximum torque of 630 Newton metres which is available from 5200 rpm. The maximum engine speed is 7200 rpm.

In design terms the new eight-cylinder engine by Mercedes-AMG is the first completely autonomous development to have no features or shared parts whatsoever in common with other eight-cylinder units by Mercedes-Benz. The new 6.3-litre unit differs from the other AMG V8 engines based on Mercedes designs in the distance between cylinders, the crankcase concept, the sophisticated intake and exhaust manifolds and the valve train; the bore/ stroke ratio is also a completely new departure for Mercedes-AMG.

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Original Mercedes-Benz 300 SEL 6.3 - later made into a 6.8 litre racing car by AMG

Words/Photos - DaimlerChrysler

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