

Media Information

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BMW enhances its EfficientDynamics portfolio with the new generation four-cylinder featuring BMW TwinPower Turbo technology

Jakarta. BMW Group Indonesia today introduced the new generation TwinPower Turbo petrol engine in their locally-assembled BMW 520i and 528i. In sync with BMW's overall strategy in extending its EfficientDynamics portfolio, this will be the first time that the new generation four-cylinder engines are fitted with BMW TwinPower Turbo technology which significantly increases output while maintaining exceptional fuel efficiency.

This 2.0-litre four-cylinder engine is further derived from the multi-award winning straight six-cylinder petrol engine with BMW TwinPower Turbo technology used on the BMW 535i.

The expansion of the EfficientDynamics portfolio is a commitment to sustainability, which in turn is a long-term company strategy of the BMW Group. In 2011, for the seventh time in a row, the BMW Group is named the most sustainable automobile manufacturer in the world by the Dow Jones Sustainability Index.

The EfficientDynamics strategy has established itself worldwide as a trademark for exceptionally effective measures for reducing the fuel consumption and emission levels of new vehicles.

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“With BMW's EfficientDynamics strategy, we have at our disposal the most effective concept in the world for leading individual mobility, by reducing fuel consumption and emissions while enhancing performance concurrently,” said Mr Ramesh Divyanathan, President Director of BMW Group Indonesia.

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“In fact, Efficient Dynamics has been so successful that the BMW Group has managed to lower the CO₂ emissions of its new vehicle fleet in Europe by as much as 30 percent over

the past 15 years. By the beginning of 2011, the BMW Group's model range comprising of 52 vehicles only emits a maximum CO₂ emission level of 140 grams per kilometer, of which 19 of them further boasts an emission level of no more than just 120 grams per kilometer."

The constant reduction in fuel consumption and CO₂ emissions is always accompanied by a further enhancement of driving pleasure. This advancement, which is characteristic of BMW, is guaranteed in particular by a fundamental engine strategy. It ensures that innovations realized by BMW Group engineers are incorporated into all models at an early stage and to the full extent.

"Efficient Dynamics is the guiding principle in all areas of vehicle development, and one of the main pillars of this strategy includes the continuous increase in the efficiency of internal combustion engines," added Mr Divyanathan.

Today, the BMW Group employs significant efficiency-optimizing technologies on engines of different size and power output. In the case of the four and six-cylinder petrol power units using the BMW TwinPower Turbo technology, they come with various features including; optimized air supply by means of VALVETRONIC, efficient combustion through precise fuel-air mixture supply facilitated by High Precision Injection, as well as state-of-the-art turbo technology.

Powered by the BMW Turbocharged engine technology

The turbocharger is a Twin Scroll system. The exhaust streams leaving the two pairs of cylinders are kept completely separate as they flow through the exhaust manifold and the turbocharger, taking a spiral path to the turbine wheel. This configuration results in very low exhaust backpressure at low engine rpm, and allows the energy of the exhaust gas pulses to be optimally managed and translated into powerful rotation of the turbine blades, without a response delay. This leads to an immediate response to each movement of the accelerator pedal and the high-revving characteristics so typical of BMW engines.

In normally aspirated engines, responsiveness could only be enhanced to the same degree by significantly increasing capacity, and therefore weight and fuel consumption. The design

draws on the BMW engineers' long experience of building high-performance turbo engines. The BMW 2002 turbo, launched in 1973 with a four-cylinder, 170hp engine, was the first European production car to be fitted with an exhaust gas turbocharger, and is still regarded as the template for a compact, high-performance driver's car. In 1983, the first turbocharged engine to win a Formula 1 world championship was Brabham BMW driven by Nelson Piquet.

	BMW 520i	BMW 528i
Engine	In-line four cylinder petrol engine with TwinPower Turbo, VALVETRONIC, Double VANOS and HPI	In-line four cylinder petrol engine with TwinPower Turbo, VALVETRONIC, Double VANOS and HPI
Capacity	1,995	1,995
Output HP/RPM	184/5,000	245/5,000
Torque - Nm/RPM	270/1,250 - 4,500	350/1,250 - 4,800
Transmission	8-speed automatic transmission, Steptronic	8-speed automatic transmission, Steptronic
Acceleration 0 - 100 km/hr	8	6.3
Top Speed km/hr	226	250
Fuel consumption km/l	15.6	15.4
CO2 Emission gr/km	149	152

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The BMW Group

The BMW Group is one of the most successful manufacturers of automobiles and motorcycles in the world with its BMW, MINI, Husqvarna Motorcycles and Rolls-Royce brands. As a global company, the BMW Group operates 25 production and assembly facilities in 14 countries and has a global sales network in more than 140 countries.

In 2011, the BMW Group sold about 1.67 million cars and more than 113,000 motorcycles worldwide. The profit before tax for the financial year 2010 was euro 4.8 billion on revenues amounting to euro 60.5 billion. At 31 December 2010, the BMW Group had a workforce of approximately 95,500 employees.

The success of the BMW Group has always been built on long-term thinking and responsible action. The company has therefore established ecological and social sustainability throughout the value chain, comprehensive product responsibility and a clear commitment to conserving resources as an integral part of its strategy. As a result of its efforts, the BMW Group has been ranked industry leader in the Dow Jones Sustainability Indexes for the last seven years.

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BMW Group Indonesia

BMW Group Indonesia is a wholly-owned subsidiary of Munich-based Bayerische Motoren Werke (BMW) AG in Germany. The establishment of this subsidiary in April 2001 reflects the BMW Group's confidence in the long-term future of Indonesia. BMW Indonesia Group activities cover the wholesale of BMW and MINI cars, spare parts and accessories, as well as the overall planning of sales, marketing, after-sales, and related activities in Indonesia. Its dealership network covers 15 new car dealers spread out in various cities in Indonesia. Selected models of the 3 Series, 5 Series and X1 compact SAV are assembled in Indonesia by a local partner.

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