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DAuto Engineering Private Limited

2017
DAuto Newsletter

October Edition

Design engineers turn designs into reality. Without them, a great idea but nothing more than, ... well, a great idea.

Peugeot L750 R Hybrid Vision Gran Turismo

To mark the release of the new PS4 video game Gran Turismo Sport, Peugeot has unveiled the L750 R HYbrid Vision Gran Turismo, a radical racing car based on the 2016 Peugeot L500 R HYbrid Vision Gran Turismo.

The original L500 R HYbrid Vision Gran Turismo concept was unveiled in May 2016 to celebrate the centenary of the Indianapolis 500 victory by Dario Resta and his Peugeot L45.

The virtual sportscar shares with the previous model the extremely low stance, a carbon-fibre monocoque structure and many distinctive stylistic features of the Peugeot brand.

The L750 R HYbrid Vision Gran Turismo is virtually equipped with a 580 hp internal-combustion engine and a 170 hp electric motor, which is fed by a liquid-cooled lithium-ion battery.

The entire engine and transmission assembly, featuring a sequential 7-speed gearbox, is mounted on the rear axle.

Additional technical highlights include a dual-circuit hydraulic braking system and four ventilated carbon discs, independent front and rear suspensions varying the ride height according to the car's speed, and forged-magnesium wheels.

The estimated weight of the car is just 825 kg—175 kg lighter than the Peugeot L 500 R HYbrid— which enable it to sprint from 0 to 100 km/h in 2.4 seconds.

Suzuki previews e-Survivor and other concepts ahead of Tokyo debut

At the upcoming 45th Tokyo Motor Show 2017 Suzuki will present a group of concept cars including the e-Survivor compact SUV and a number of practical compact mini wagons and crossovers.

The most distinctive vehicle in the group is the e-Survivor, a compact SUV equipped with a four-wheel-drive system and independent wheel motors.

The futuristic look reinterprets the identities of the Vitara and the Jimny and manages to convey the idea of an essential, rugged off-road with an advanced technology. The good drivability is made possible by the ladder frame and lightweight compact body.

Another study to be unveiled in Tokyo is the Spacia Concept, a concept model of the Spacia, a user-friendly, tall miniwagon with low floor that offers a sense of excitement and fun.

Suzuki Spacia Concept

The Spacia Custom Concept variant aims at providing more distinctive styling and a powerful presence.

Suzuki previews e-Survivor and other concepts ahead of Tokyo debut

Suzuki Spacia Custom Concept

The XBEE (cross-bee) is a crossover wagon exploring a different genre. It will be presented in two variants: the XBee Outdoor Adventure, designed for grownups who love camping, and the XBee Street Adventure, expressing the fun of a crossover in the city.

Suzuki XBee Street Adventure

Lastly, the Carry Open-Air Market Concept is designed as a mobile shop truck at an open-air minitruck market with enhanced cabin space and user-friendliness.

Suzuki XBee

Suzuki XBee Outdoor Adventure Concept

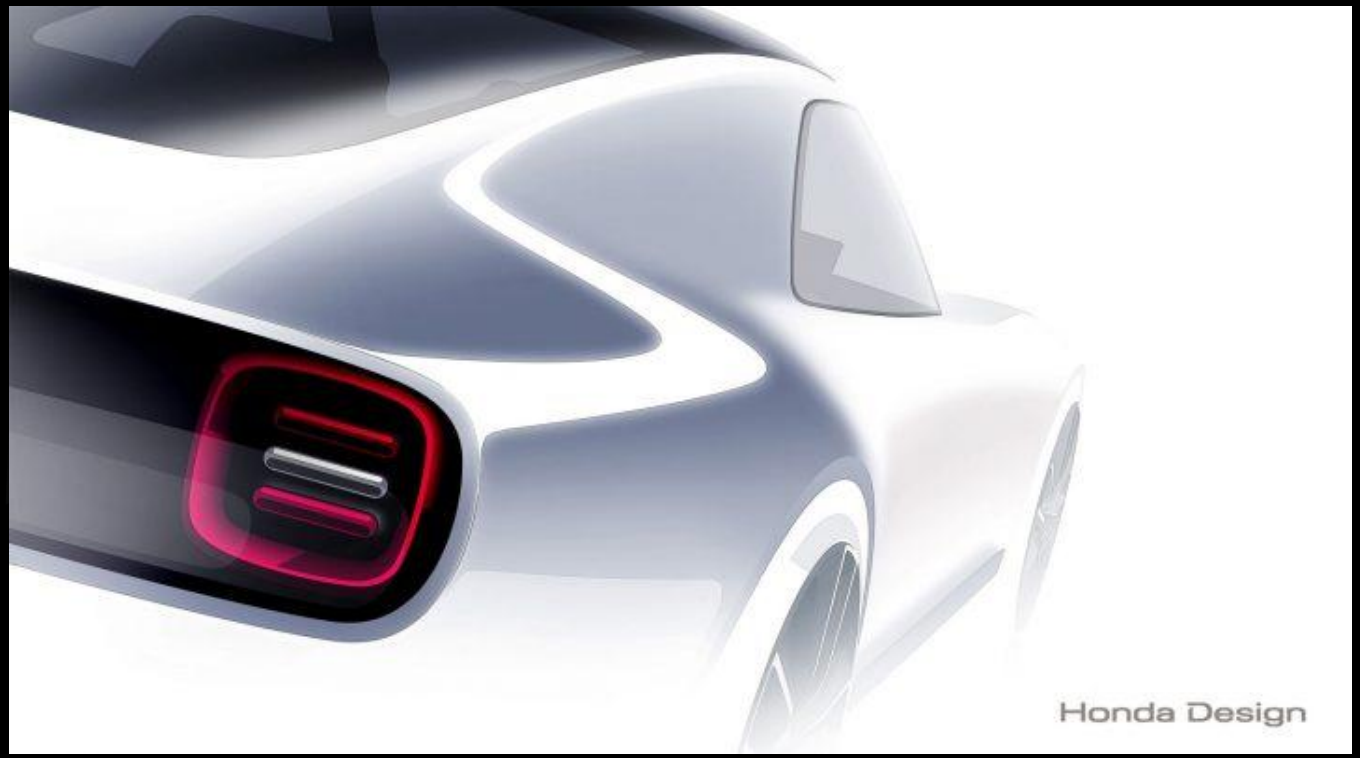
Suzuki Carry Open-Air Market Concept

Honda previews Sports EV Concept

At the upcoming Tokyo Motor Show Honda will unveil an all-new electric sports car that aims at expressing a feeling of joy and emotional unity.

The Sports EV Concept will showcase a dynamic silhouette, a friendly face and supple body surfaces.

The development team designed the sporty electric car to blend into any lifestyle and to "*deliver a feeling of joy and emotional unity to the drive, achieved by efficiently combining the EV power unit and AI technology in a compact body shape.*"



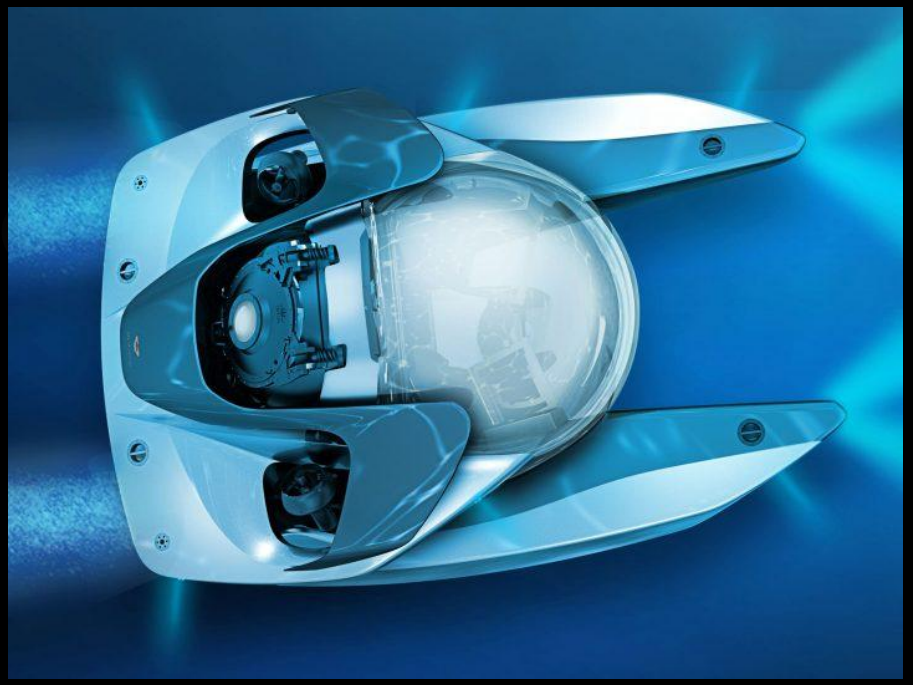
The concept will be presented at the 2017 Tokyo Motor Show on 25 October, along with a broad range of advanced two- and four-wheeled production and concept vehicles.

Aston Martin reveals futuristic submersible concept Project Neptune

Aston Martin has partnered with Triton Submarines to create an exclusive submersible combining technology, luxury and a futuristic design inspired by the Valkyrie hypercar.

The concept, which anticipates a limited edition submersible, is the first project by Aston Martin Consulting.

The design team led by **Marek Reichman** used Triton's Low Profile (LP) three-person platform as a basis for a sleek vehicle that adopts the brand's design DNA and in particular takes inspiration by the recent Valkyrie hypercar.



Above: the Triton 1650/3 LP, the world's lightest (4,000 kg) and most compact three passenger production submersible.

BMW takes slow road to high-speed autonomy

BMW's Vision Next 100 concept car, unveiled in 2016, explored a possible design for an autonomous vehicle. The automaker plans to roll out its self-driving system with the iNEXT crossover in 2021.

Klaus Buettner, BMW's vice president of autonomous driving projects, told reporters last week at an event at the automaker's Silicon Valley office that BMW is spending the next couple of years working with suppliers and testing prototypes to ensure the automaker can introduce a system that can operate at high speeds in most highway driving situations, with the added benefit of being a backup operator in fully automated vehicles.

Cadillac's Super Cruise, available now in high-end trims of the 2018 CT6, allows drivers to take their hands off the wheel on limited-access freeways with clear lane markings.

BMW's system won't be available until 2021, which puts it several years behind competitors.
Audi's new A8 has Traffic Jam Pilot, a Level 3 system — meaning drivers must supervise the system and be ready to take back control. Traffic Jam Pilot can operate in speeds below 60 kph (37 mph) in well-marked, physically separated highways, in places where it has been approved by local governments.

Buettner said BMW chose to wait until it could introduce a system capable of driving at speeds up to 80 mph and making driving decisions such as lane changes on its own. To get there, the automaker is relying on partners and the ability to quickly build the system up to higher levels of autonomy.

BMW takes slow road to high-speed autonomy

BMW plans to roll out its Level 3 system with the iNEXT electric crossover in 2021. In the meantime, it plans to deploy a fleet of 100 autonomous 7-series test vehicles. Forty of the vehicles will be operating worldwide by year end, and all 100 are to be on the road by 2019.

Buettner said the fleet has jointly driven nearly 20,000 miles. He said about 150,000 miles are needed for safety validation, though most validation can be done in virtual simulators.

"With Level 3 autonomy, there is a major impact for the whole architecture of the car," he said, saying the advances necessary to go from Level 2 driver assist systems to Level 3 were a "technological quantum leap."

BMW is building its system with chipmaker Intel and camera sensor supplier Mobileye, which this year became an Intel subsidiary. The group is also working with Delphi, Continental, Magna and Fiat Chrysler Automobiles to integrate the system into other automakers' vehicles.

In a consortium with German rivals Audi and Daimler, BMW jointly owns Here, a navigation supplier building high-definition maps for self-driving vehicles. Such maps will be critical for the operation of BMW's Level 3 and higher vehicles, Buettner said.

To commercialize this higher level of autonomy, BMW may need to add another partner. The automaker plans to deploy Level 4 and Level 5 vehicles in shared fleets, but has yet to announce a partnership with a ride-hailing service such as Uber or Lyft.

Mercedes-Benz recalls 400,000 cars in UK over airbag fault

Company says vehicles are safe to drive but customers should contact roadside assistance service if airbag warning light comes on.

Hundreds of thousands of Mercedes-Benz cars in the UK are being recalled over airbag concerns.

Some 400,000 UK cars are being recalled as well as vehicles in "other markets", the manufacturer said. The models affected include the A, B, C, and E-Class, and CLA, GLA, and GLC, built between November 2011 and July 2017.

Mercedes-Benz said its cars were safe to drive under normal operating conditions but urged customers to contact its roadside assistance service if the air bag warning light comes on.

No fatalities have been reported in connection with the recall.

A Mercedes-Benz spokeswomen said: "If the steering column module clock spring is broken, the driver airbag warning light will be displayed in the instrument cluster, as well as a red airbag warning lamp.

"In rare circumstances, if the clock spring is broken and the wiring components are not sufficiently earthed, this could lead to an electrostatic discharge which could inadvertently deploy the driver's airbag." Customers who own an affected car will be contacted by the manufacturer and offered a one-hour fix which will be free of charge.

Singapore: no more cars allowed on the road, government says

The number of buses and goods vehicles will be allowed to continue growing but the growth cap for private cars will be cut to zero in 2018

Singapore, one of the most expensive places in the world to buy a vehicle, has announced it will freeze the number of private cars on its roads from next year but vowed to expand public transport.

The growth cap for all passenger cars and motorcycles will be cut from 0.25% a year to zero with effect from February, the Land Transport Authority (LTA) said.

The affluent city-state of 5.6 million people already imposes a quota on the number of vehicles sold and the number on its roads, and has avoided the massive traffic jams that choke other Asian cities.

In a statement announcing the change Monday, the LTA said 12 percent of Singapore's total land area was already taken up by roads and there was limited room for expansion.

Singapore makes it costly for those wanting to buy a vehicle, who must first get a "certificate of entitlement", valid for 10 years – the average cost of a certificate is currently around Sg$50,000 (US$37,000).

A Toyota Corolla Altis, a five-door sedan, can cost up to around Sg$111,000 in Singapore, including the price of the certificate, or about four times what it costs in the US.

There were more than 600,000 private cars in Singapore at the end of 2016.

No timetable was given for the freeze but the number of buses and goods vehicles will be allowed to continue growing.

However it said the government would spend Sg$28bn over the next five years to expand and upgrade the transport system, including the metro, which has recently faced criticism for a series of breakdowns.

'This is the future': solar-powered family car hailed by experts

As the annual solar race across Australia wraps up, a Dutch entry averaged 69kmh from Darwin to Adelaide and resupplied the grid

A futuristic family car that not only uses the sun as power but supplies energy back to the grid has been hailed as "the future" as the annual World Solar Challenge wrapped up in Australia.

The innovative bi-annual contest, first run in 1987, began in Darwin a week ago with 41 vehicles setting off on a 3,000km (1,860-mile) trip through the heart of Australia to Adelaide.

A Dutch car, Nuna 9, won the race for the third-straight time, crossing the finish line on Thursday after travelling at an average speed of 81.2kmh (55.5 mph).

It was competing in the challenger class, which featured slick, single seat aerodynamic vehicles built for sustained endurance and total energy efficiency.

But there was also a cruiser class, introduced to bridge the gap between high-end technology and everyday driving practicality.

German team HS Bochum was the first to arrive Friday with its stylish four-seater classic coupe, featuring sustainable materials such as vegan pineapple leather seats.

'This is the future': solar-powered family car hailed by experts

But another Dutch team, Eindhoven, was set to be crowned overall champion based on a system taking into account design, practicality, energy efficiency, and innovation, organizers said.

Their family car, Stella Vie, carried five people at an average speed of 69kmh, with event director Chris Selwood saying it was a practical demonstration of what the future might look like.

"These incredible solar cars have been designed with the commercial market in mind and have all the features you'd expect in a family, luxury or sporting car," he said.

"Team Eindhoven are to be congratulated on their achievement to date – clearly the most energy efficient solar car in the field, capable of generating more power than they consume.

"This is the future of solar electric vehicles. When your car is parked at home it can be charging and supplying energy back to the grid."

Cars in the race were mostly developed by universities or corporations, with teams hailing from around the world.

"Through a smart charging and discharging system, she charges the battery when the demand of energy from the grid is high and vice versa. Any surplus energy generated can easily be supplied back to the grid."

STUDENT'S CORNER

By :
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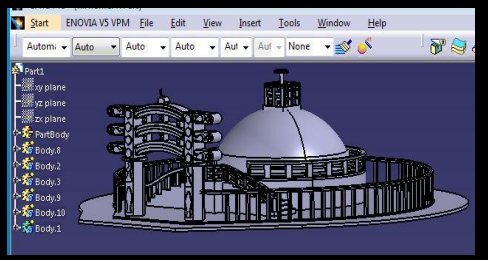
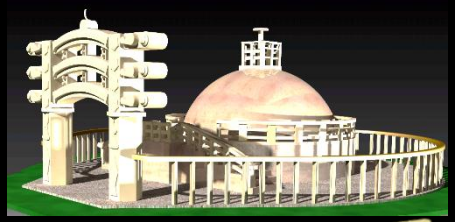
CATIA V5

DAuto Training Yield





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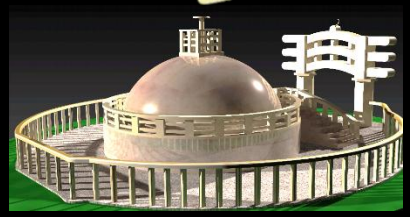

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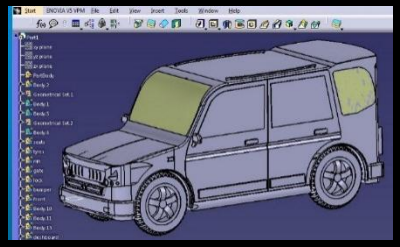
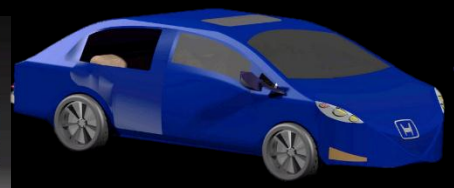
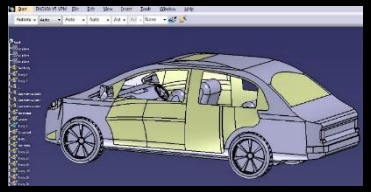
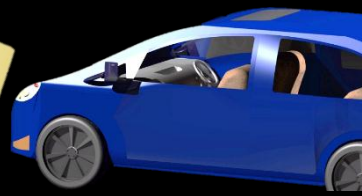
DAuto Training Yield











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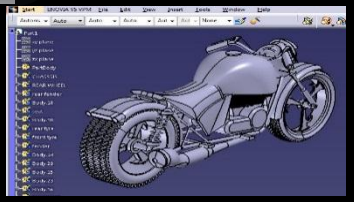



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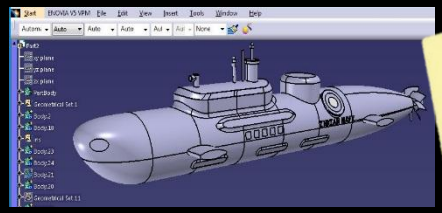
STUDENT'S CORNER

DAuto Training Yield



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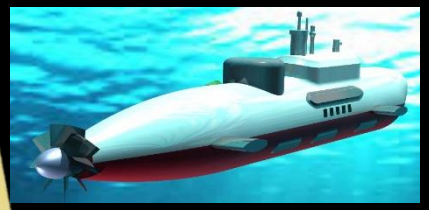

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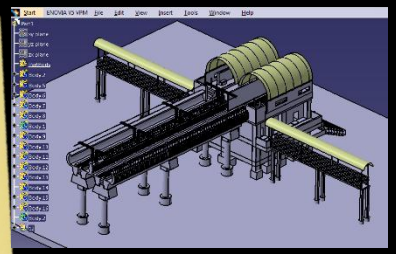

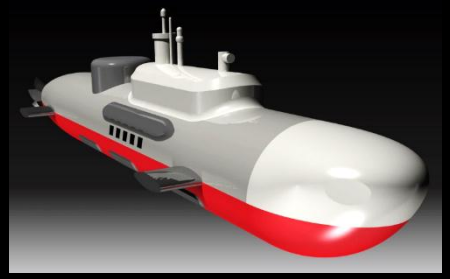

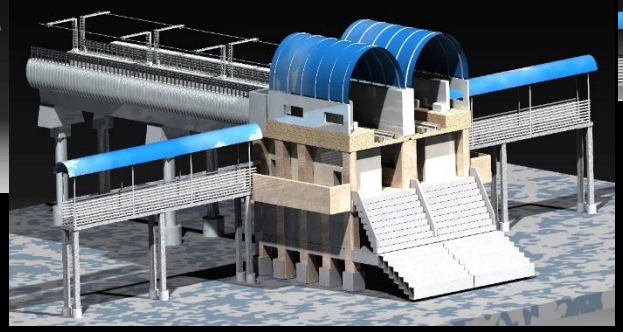

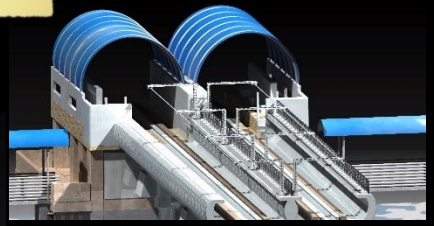

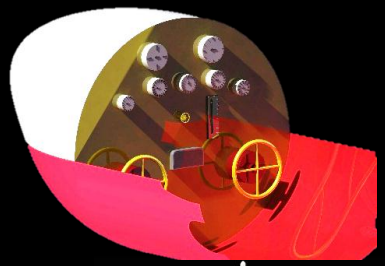

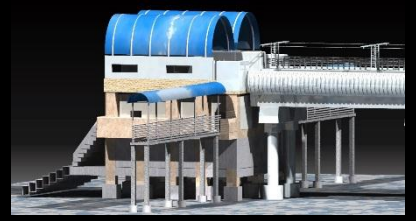

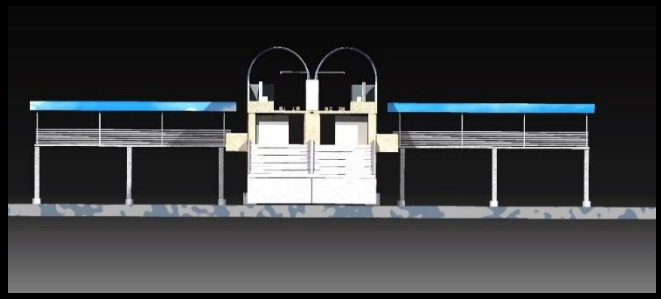

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