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

Ferrari 458 Speciale A

Ferrari has revealed the 458 Speciale A (Aperta), a limited edition special series and the most powerful spider in Prancing Horse history thanks to its 605 hp powerplant. Dedicated to just 499 Ferrari collectors, the 458 Speciale A (Aperta means “Open” in Italian) features an aluminium retractable hard top, which takes just 14 seconds to deploy or retract, and helps reduce the weight difference with the Speciale coupé to just 50 kg.

The 458 Speciale A sports the most powerful naturally-aspirated road-going V8 engine ever built by Ferrari. It has a total output of 605 cv (135 cv/l specific power output) and 540 Nm of torque at 6000 rpm, with only 275 g/km of CO2 emissions. The car sprints from 0-100 km/h in just 3.0 seconds and has a Fiorano lap time of 1’23”5, achieve also thanks to its front and rear active aerodynamics, the rigidity of a chassis that incorporates 10 aluminium alloys, and Side Slip Angle Control (SSC).

Ferrari 458 Speciale A

Engine
Type V8 – 90°

Total Displacement
4497 cc

Max. Power Output
605 cv at 9000 rpm

Maximum Torque
540 Nm at 6000 rpm

Weight Dry weight
1340 kg

Performance
0 – 100 km/h 3.0”
0 – 200 km/h 9.5”

Mercedes-Benz Future Truck 2025 Concept

Mercedes-Benz has revealed the Future Truck 2025, an advanced prototype with an autonomously driving system and other technologies that could be introduced in 10 years. The most distinctive feature of the futuristic-looking truck is the “Highway Pilot”, an autonomous driving system for speeds up to 80 km/h – which was tested in realistic traffic situations on a section of the A14 motorway in Magdeburg, Germany on last July.

The system features several radar sensors and camera technology that register all moving and stationary objects in the truck’s vicinity. The sensor and camera technology is active from standstill to the legally permitted maximum speed for trucks. By intervening in the steering, it automatically keeps the truck safely in the centre of its lane.

Mercedes-Benz Future Truck 2025 Concept

The system is coupled with a V2V and V2I technology – communication between vehicles and the outside world via WLAN technology. It also includes a three-dimensional digital map, as is already currently used for the assistance system Predictive Powertrain Control (PPC). This means that the truck is always aware of the road's course and topography, with a resulting positive effect on fuel consumption.

Volkswagen reveals the new Passat

Infiniti has revealed the first image of its upcoming Q80 Inspiration Concept, a 5+ meters long four-door luxury fastback with flowing, sculpted lines. The Q80 Inspiration Concept expresses Infiniti's vision for a future flagship, introducing a distinctive fastback body style coupled with a remarkable length of 5052 mm. The main proportions are defined by the long wheelbase of 3103 mm (122.2 in) framed by 22-inch five-dual-spoke lightweight alloys.

The low, well-planted stance is underlined by the width of 2027 mm (79.8 in) and relatively low height of 1350 mm (53.1 in). The exterior design features flowing, uninterrupted surfaces.

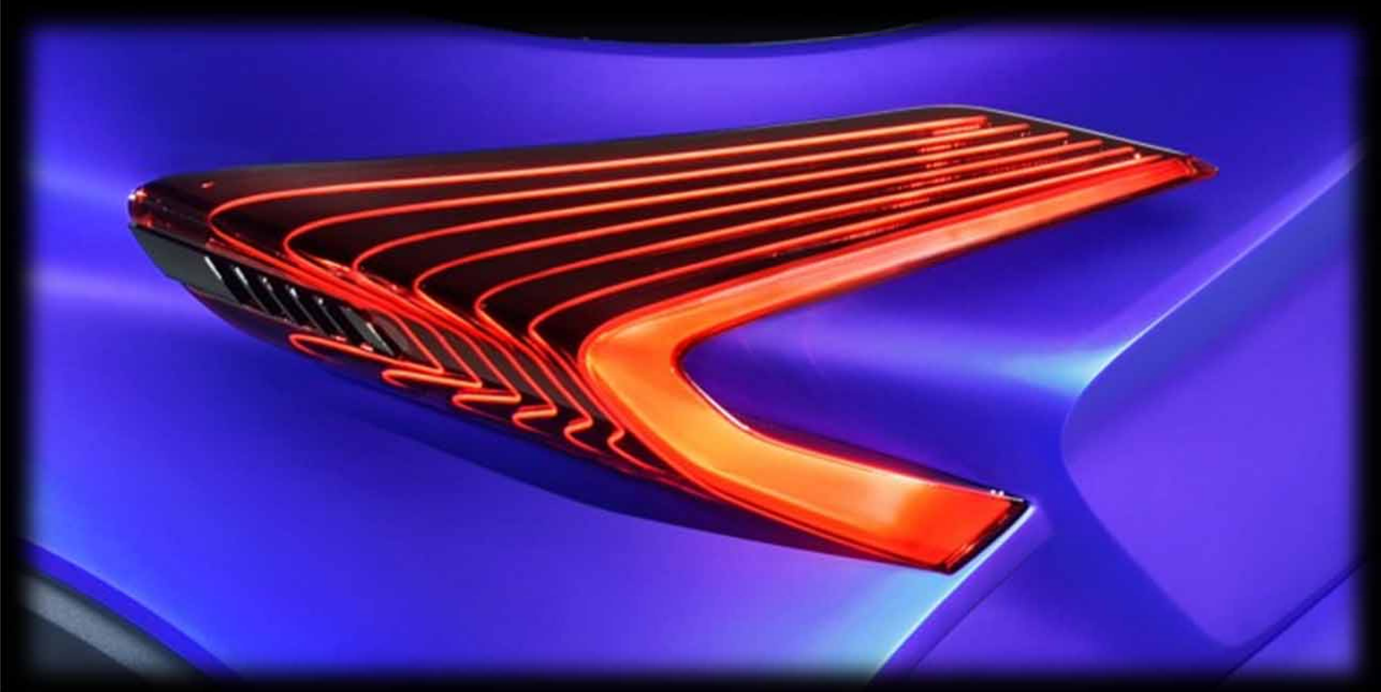
Toyota C-HR Concept

The first images of the Toyota C-HR Concept, a C-segment hybrid show car that introduces a new “diamond architecture” styling theme. Below the compact cabin profile, the lower bodywork has been sculpted to represent the facetted surfaces of a highly-durable, precision-cut gemstone.

Toyota’s
“Diamond architecture styling theme”.

Tovota C-HR Concept

The front end evolves the brand's "Under Priority and Keen Look" design identity, and also introduces new styling themes which hint at a future design direction for Toyota vehicles. From the side, the highly-facetted lower body, muscular wheel arches and aggressively angular rear shoulder are juxtaposed with a sleek cabin profile. The distinctive, aero-inspired, floating rear lamp clusters further enhance the broad shoulders of the Concept's bodywork.



Peugeot Quartz Concept

The Quartz Concept combines some elements borrowed from Peugeot's high-performance models with a distinctive use of unusual materials such as basalt and digitally woven textile, an idea derived from the Onyx Concept and – more recently – the Exalt. The full-hybrid plug-in drive train combines a combustion engine and two electric motors and delivers a total output of 500 hp.

The aggressive exterior combines the body of an SUV with the cabin of a sedan. The stance is rather extreme, with a width of 2.06 meters and the large 305 mm tires. "Peugeot's style strength lies in its prowess in tackling a sedan or hatchback just as effectively as a crossover to create the kind of stylish car that people would really love to own."

Peugeot Quartz Concept

The Quartz has a contrasting interior and exterior. The cabin is designed to convey a sense of warmth through its sophistication and refinement. Yet the overall feel is undeniably sporty, with an i-Cockpit dedicated to the driver's every need.

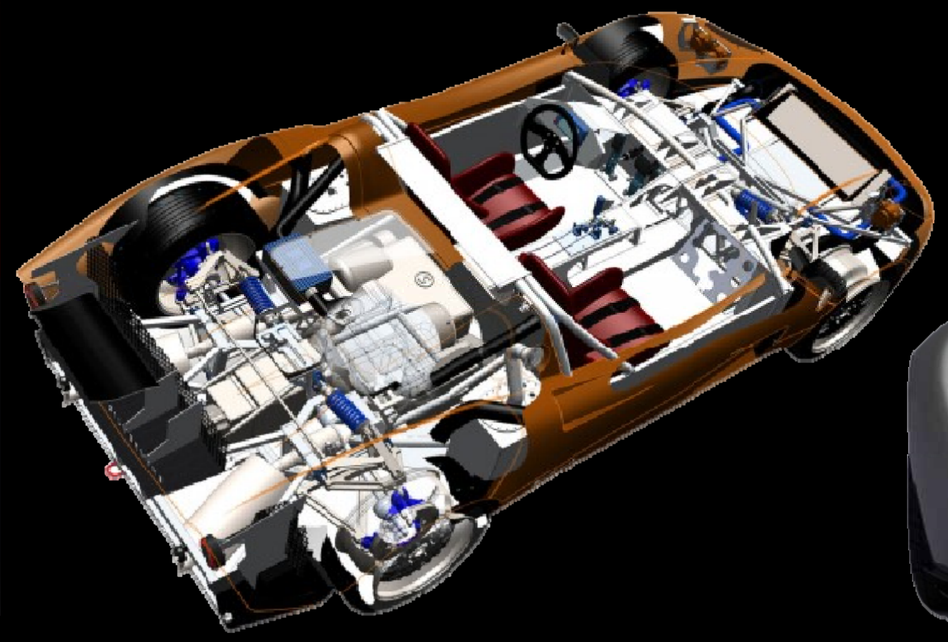
The Quartz is the first-ever vehicle to feature digitally woven textile. This innovative process can create large and complex parts that can be used as soon as they come off the machine. No cutting is required, meaning there is no waste.The textile is woven with polyester fibre obtained by recycling the kind of plastic used to make water bottles. The process can also produce parts of significant thickness, making them softer and reducing the need for the foam normally used. To create a sportier feel, the floor pan, sides and roof are trimmed in black leather, with contact points such as seat cushions and backs trimmed in tawny leather. This fawn- coloured trim is sourced from old furniture and clothing.

Gray Design Vapour GT

The Vapour GT is a concept car developed by Swedish studio Gray Design – founded by Eduard Gray – for the recently launched Zeus Twelve brand, that aims at producing luxury cars and yachts in limited series for private customers and collectors.

The design of the Vapour GT is bold and extreme, with razor-sharp lines and an intricate mix of surfaces and details. Among the distinctive elements are the strengthened glass aerofoils located at the front and rear of the car, that are also visible in the side intakes and cockpit. The sportscar is based on the lightweight carbon fiber structure of the Caterham SP 300 R racing chassis, which would result in a curb weight of under 900kg, and a projected 0-60 mph time of under 3.2 seconds. In keeping in line with current trends, the company will also release a racing game for the iOS and Android platforms.

Silvermine 11SR Dutch track car project



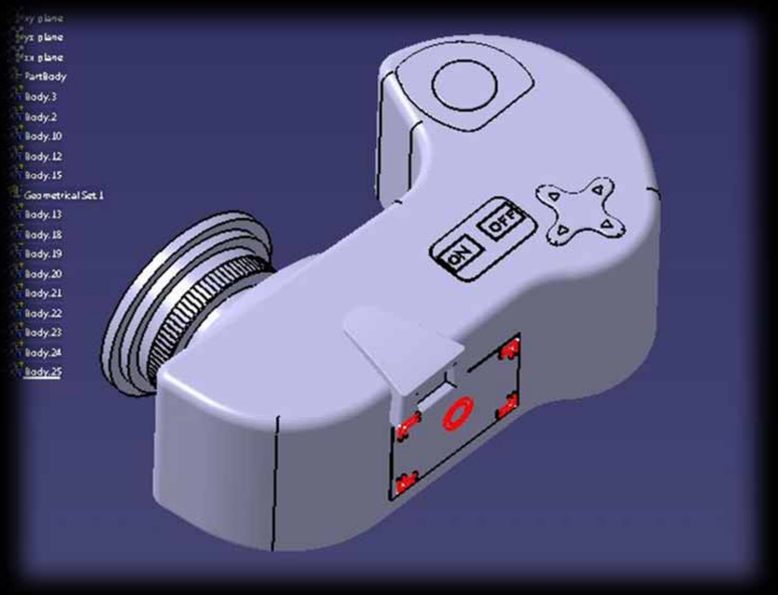
The Silvermine 11SR is a prototype of a racetrack car developed by an all Dutch collaboration between engineer Frank van Rouendal and designers Marco and Andries van Overbeeke. The car features an aluminum space frame chassis and is equipped with a 325hp 6-cylinder Subaru boxer engine, coupled with a six-speed sequential gearbox and a limited slip differential. The prototype development is now in its final stage – preparation for the production of the body – which is expected to be completed in early 2015. The design is clean with very few lines and contains a classic curved beltline, sensuous wheel arches and classic surface treatment. The air ducts are kept simple and purely functional, no excessive design is applied. The form language of some elements are inspired by elementary fabrication techniques, like the front nose grill (milling aluminium), side skirts and rear diffuser (pressing and bending sheet metal).

Peugeot ‘s Lion

Peugeot is a world-renowned French car brand owned and operated by PSA Peugeot Citroën, which is the second largest automaker in Europe. The family-oriented initially started in 1810 as a coffee mill firm and manufactured its first car in 1891. With an annual production output of nearly 1,800,000 vehicles, the company had a net income of €819 million in 2012.

The history of the iconic “lion” logo of Peugeot traces back to 1847, when the company used to manufacture saw blades and steel goods. According to branding experts, the lion portrays three major attributes of Peugeot saw blades; the strong teeth, the elastic blade, and the swift cut. The logo first appeared on the “Peugeot Bros” arrow in 1950, and was registered as a trademark in 1858.

STUDENT'S CORNER



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Students of DAuto CAD School during the period of Software Training on CATIA V5.

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