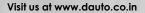
DAuto



2017 DAuto Newsletter



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



FERRARI 812 SUPERFAST

Presented at the 2017 Geneva Motor Show, the 812 Superfast is Ferrari's new mid-frontengined 12-cylinder sportscar, and features an aggressive, aerodynamic-drive design.

The 812 Superfast succeeds the F12 Berlinetta and incorporates many technical improvements: from a more powerful and efficient 12-cylinder engine, which delivers 800 CV and a torque of 718 Nm at 7,000 rpm, to the introduction of the sport EPS (Electric Power Steering) and Virtual Short Wheelbase 2.0 system (PCV), to a extreme aerodynamic body.

Designed by Ferrari's in-house Design Team, the 812 Superfast redefines the formal language of front-engined V12 Ferraris' proportions while maintaining the exterior dimensions and interior space and comfort.

The design is in line with the company's latest model, and favors aggressiveness and sportiness rather than elegance and pure beauty.



The surface treatment is highly sculptural, with a bold interplay of convex and concave shapes, and many air intakes, outtakes, diffusers and spoilers.

The silhouette has a fastback-like style, with a two-box design with a high tail reminiscent of the 365 GTB4 (Daytona) of 1969, visually lowering an aggressive rear spoiler designed to guarantee downforce.





Ferrari 812 Superfast

The sculptural, three-dimensional flanks feature a distinctive vent behind the front wheels designed to suck high-pressure air from the wheel arches and then channel it along the doors. The draped design of the flanks visually shortens the tail and is characterized by the sharply slanted crease lines and the muscular wheel arches.

The cabin has been radically redesigned to imbue it with an even sportier character. Light, compact volumes hug the contours of the interior structures to the extent that the latter are visible in certain areas.

These ultra-taut surfaces are deliberately layered and broken up to create voids with the result that the main elements seem to float. The overall effect is both thoroughbred racing eagerness and lean elegance that never feels overstated. At the front, the full-LED headlights are integrated into the design of the sculpted air intakes on the hood.

At the rear, four round tail-lights inspired by Ferrari tradition emphasize a design centered around horizontal lines and give the 812 Superfast a broad, imposing stance, visually lowering both spoiler and the very compact cabin without, however, sacrificing its space or that of the boot.

The horizontal dash loops stylishly around the central air vents for a sophisticated, sculptural, yet supremely stylish look that is also a nod to the LaFerrari's cockpit.





FERRARI 812 SUPERFAST

An additional air vent also allowed the designers to lighten the look of the dash still further by creating a "cleft" in the central section that further emphasizes the fact that metallic elements stretch out into the upholstered volumes.

The steering wheel and its commands, the satellite pods on either side of it and the interplay of volumes and contrasting materials, combine to create an extreme cockpit in which all of the various elements are angled towards the all-important driver, around whom the volumes curve to highlight his role.





The driver zone and central recesses featuring contrasting trim to further underscore their dynamic forms.

Horizontal character lines create very distinct driver-oriented volumes that also pull off the delicate feat of not excluding the passenger from the action.

The beautifully crafted trimming both at the centre of the dash and around the glove compartment create the just right sense of Ferrari's signature combination of the artisanal and the high tech.

The seats follow a diapason design language and exploit that expansiveness to create an interplay of solids and voids that lend character to the seat and backrest.





ITALDESIGN AND AIRBUS ENVISION POP.UP GROUND-AIR HYBRID CONCEPT VEHICLE

Italdesign in partnership with Airbus have developed a concept for a modular air and ground transportation system aimed at reducing traffic jams in the megacities of 2030.

The vehicle concept combines the flexibility of a small two seater ground vehicle with the freedom and speed of a vertical takeoff and landing (VTOL) air vehicle.

The monocoque carbon-fiber cell measures 2.6 meters in length, 1.4 meters in heights, and 1.5 meters in width. The capsule transforms itself into a city car by simply coupling to a ground module, which features a carbon-fibre chassis and is battery powered. The modular platform consists of a capsule that connects to either a ground or air module, and can be integrated into other means of transportation.

For megacity journeys with high congested traffic, the capsule disconnects from the ground module and is carried by a 5 by 4.4 meter air module propelled by eight counter-rotating rotors. In this configuration, Pop.Up becomes a urban self-piloted air vehicle, taking advantage of the third dimension for avoiding traffic congestion on the ground.







ITALDESIGN AND AIRBUS ENVISION POP.UP GROUND-AIR HYBRID

CONCEPT VEHICLE

Once passengers reach their destination, the air and ground modules with the capsule autonomously return to dedicated recharge stations to wait for their next customers.

Thanks to the possibility of combining the capsule with other means of public transportation, the Pop.Up aims at offering c seamless travel experience: the user can stay for the entire journey in the same capsule without worrying about switching between different travel modes and enjoy the entire commute time, with real time interaction between the capsule and the surrounding urban environment and

communities.



The Pop.Up System also includes an Artificial Intelligence platform that, based on its user knowledge, manages the travel complexity offering alternative usage scenarios, as well as an interface module that dialogues with users in a fully virtual environment.



"Italdesign is a service company, created to provide services and mobility solutions to interested parties worldwide. It is deeply rooted in our DNA to search for future state-of-the-art solutions," said Italdesign CEO Mr. Astalosch.

"Today, automobiles are part of a much wider ecosystem: if you want to design the urban vehicle of the future, the traditional car cannot alone be the solution for megacities, you also have to think about sustainable and intelligent infrastructure, apps, integration, power systems, urban planning, social aspects, and so on. In the next years ground transportation will move to the next level and from being shared, connected and autonomous it will also go multimodal and moving into the third dimension"



PININFARINA H600 CONCEPT

At the 2017 Geneva Motor Show Pininfarina has unveiled the H600, a luxury electric sedan concept developed for Hong Kong-based Hybrid Kinetic Group.

The concept is the result of a \$68 millionworth collaboration between the Italian studio and the Hybrid Kinetic Group, aimed at making the H600 electric sedan a production reality.

The front end features a bold fascia with thin LED headlights and a grille with arrowshaped elements.

The flanks give the H600 a dynamic, almost muscular stance. The effect is achieved through the sculpted yet clean surfaces rather than by incorporating creases or edges. In Pininfarina's tradition, the 5.2 meters long H600 concept is characterized by harmonious proportions, clean, flowing surfaces that lend the vehicle a classic, elegant look.



This design is in line with the current aggressive/bold styling trends and, overall, appears less convincing than the other views, and is likely to be the result of a "brand identity" necessity.



The sense of elegance is also underlined by small details such as the minimal door handles and the chrome stripes that runs from the headlight to the base of the D-pillar.



PININFARINA H600 CONCEPT

At the rear, the slim, horizontal tail lamps, framed in a chromed fascia, contribute to the car classic, almost Italian look, while creating a distinctive light signature.

The high-tech feeling is created through the large touch screen displays on the dashboard and center console and by the blue LED stripes that run along the entire interior.

The marks on the warm grey metallic body emphasize the variegated reflections of the light and call attention to a number of details, like jeweled insets, such as the polished aluminum inserts arranged in a line that starts at the bonnet, runs along the waistline and embraces the rear section, reflecting the degree of finish typically associated with premium segment cars. The interior is inspired by a luxurious lounge and feature exclusive materials, from the dark brown natural leather to the veneered wood used on the seat shells and the floor.

The formal language that defines the H600 is pure, fluid, sensual and gentle, in short, definitely Pininfarina.



Characterizing elements include soft, evolutive surfaces and a few dynamic, expressive lines that underscore the assertive, valiant personality of the





car.



HONDA NEUV CONCEPT

Making its European show debut in Geneva, the Honda NeuV is an automated electric vehicle with an artificial intelligence system that proposes a new ownership model.

First revealed at the recent CES 2017 as part of the "Cooperative Mobility Ecosystem" concepts ahead of CES 2017, the NeuV (New Electric Urban Vehicle) commuter concept introduces a unique ownership proposition, conceived to take advantage of the fact that privatelyowned vehicles sit idle for 96% of the time.

From a technical standpoint, one of the concept's highlights is an AI assistant that uses an 'emotion engine' called HANA (Honda Automated Network Assistant), which learns from the driver by detecting emotions behind their judgments.

Entry and exit from the vehicle is made as easy as possible, even in tight parking spaces, with a complete side panel that opens out and backwards to create a large opening. The vehicle serves as an automated ride sharing vehicle when the owner is not using the car. It would pick up and drop off customers at local destinations, and could also sell energy back to the electric grid during times of high demand when it's sitting idle, further monetizing the down time.

It can then apply what it has learnt from the driver's past decisions to make new choices and recommendations.

The exterior design is clean and inspired by the cimnple surfaces of modern electronic devices: it features a sweeping panoramic windscreen and a dramatically sloping belt line that make maneuvering easy.





SSANGYONG TEASES FLAGSHIP SUV

At the Seoul Motor Show SsangYong is unveiling a full-size SUV with a design that evolves the lines first introduced with the LIV-2 concept.

The new car – codenamed Y400 – embodies the qualities of dynamics and robustness already seen in the LIV-2 concept shown at the 2016 Paris motor show.

The SUV will be equipped with a rear- and all-drive transmission, and offer good allterrain and towing capabilities. It will go on sale in Korea during the first half of this year, and internationally before the end of 2017.





The Y400 is 4,850mm long, 1,920mm wide, 1,800mm high, and has a 2,865mm wheelbase. It is based on the Quad-Frame body structure, which makes use of 1.5Gpa giga-steel – and industry first. The SUV also features 63% advanced high strength steel (AHSS).



MERCEDES-AMG GT CONCEPT

At the Geneva Motor Show Mercedes-AMG has presented a new four-door coupe study named GT Concept, which anticipates the future expansion of the AMG GT line-up and the design direction.

The new GT Concept is the third model series after the SLS AMG and AMG GT, and has been autonomously developed at the company's headquarters in Affalterbach.

The exterior look retains some of the distinctive styling cues of the AMG GT, including the long hood with power domes and the raked windscreen and features high-tech details such as the side rearview cameras and the Nano active fibre technology used for the running day lights and tail lights.

The four-door coupe feature a sleek, muscular yet clean design, with sensuous surfaces and very dynamic proportions, and appears to be in line with Gorden Wagoner's The concept is equipped with a hybrid powertrain combining a V8 gasoline engine and a high-performance electric motor, with a total output of up to 600 kW, which allow the AMG GT to sprint from 0-100 in less than three seconds.





MERCEDES-AMG GT CONCEPT

"The GT Concept embodies the most extreme expression of our design idiom and underlines anew the autonomous profile of AMG as a performance brand", said Gorden Wagener, Chief Design Officer Daimler AG.



"Through perfect proportions it creates a puristic design with the emphasis on its surfaces, featuring sensuous shapes and is hot and cool at the same time."

> The Panamericana grille with vertical ribs painted red on the sides, the new configuration of the extremely slim main headlamps and the side air gills with their dominant design in the front apron are hallmark AMG GT design characteristics which have been advanced to a new level here and express pure power.

The moving radiator shutters in the centre and side air intakes, which improve the aerodynamic and thermal efficiency and are inspired by the active air control system AIRPANEL in the AMG GT R.

The hood reaching right to the wheel arches, along with the two powerdomes, underscores the sporty character. This is also expressed in the hot red paintwork in hot red with a finish that shimmers in the light like liquid metal



The headlamps introduce the new "Nano active fibre technology" for the daytime running lamps and tail lamps. The bright light system features a freely styled light cord which gives a three-dimensional illumination effect.



MERCEDES-AMG GT CONCEPT

Two tubular rod lights illuminate the road surface in front of the car and constitute the driving light together with the large LED main headlamp and its lens system. The turn signal light function is integrated at the top edge. The serial turn signal pulse features an extremely rapid sequence.

The tail light also has the new light technology, which is located beneath the three-dimensional lens of the rear lamps. A ribbed cooling module is integrated into the lens to guide the waste heat to the exterior.

The tapered side drop and the broad rear shoulder in the area of the flared wheel arches reinforce the muscular expression.



The width-biased rear assembly also cites the AMG GT look with the extremely slim horizontal tail lamps and the shape of the tailgate. Other elements include the wide carbon-fibre diffuser curved downwards at the sides and the centrally arranged tailpipe trim reminiscent of the Mercedes-AMG GT R.

The roof, the A-wing of the front spoilers, the rear diffuser and the side sill panels are made of carbon fibre The crouched, dynamic greenhouse with its steeply sloping roof line and the slim layout of the frameless side windows emphasize the dynamic forwards thrust of the AMG GT Concept when seen from

the side.





PEUGEOT PREVIEWS INSTINCT CONCEPT

The Peugeot Instinct Concept demonstrates the brand's advances in autonomous driving technology and the future design direction.

First revealed at the Mobile World Congress in Barcelona, the Peugeot Instinct is now ready to be on display at the Geneva Show.

Despite the presence of four full-size doors, the body style is defined as a Shooting Brake, in line with the dynamic silhouette and very low stance of the vehicle.

The futuristic interior evolves the company's the i-Cockpit architecture and features sleek lines, a mix of technical fabric/textures and a recurring linear pattern that echoes the front grille. The surface treatment adopts a mix of clean surfaces and a few bold, sharp lines, and follows with the aesthetic philosophy shown on recent models and studies.

Among the defining elements are the pronounced rear shoulders, the rear-hinged rear doors with no B pillars, the large horizontal grille at the front and the rectangular LED headlamps and tail lights.



Onboard technology includes an autonomous driving system with two operating modes, and advanced connectivity via the 'Internet of Things' (IoT) platform and the Samsung Artik Cloud, which syncs with the user's devices, enabling the car to learn its user's lifestyle and preconfigure its settings – for example, driving mode, seat and interface settings, ambient lighting and audio can all be adapted seamlessly to the user's routines. The concept is equipped with a 300 bhp PHEV powertrain.



PEUGEOT PREVIEWS INSTINCT CONCEPT

When in 'Autonomous' mode, the compact steering wheel and toggle switch panel fold into the dashboard and the accelerator pedal folds back into the pedal unit to maximize space.

The level of seating adjustment is inspired from aeronautic design. The seat base, seat back and headrest are all treated individually, allowing the occupant to select the position most suited to them – horizontal if they want to rest, upright to drive, or inbetween to watch a film or work.

Matthias Hossann, Head of Peugeot Concept cars said: "With the Peugeot Instinct Concept and its Responsive i-Cockpit, we are building on the factors that have made the brand's latest models so successful. We are creating new forms of driving pleasure. These may come from the interfaces, the architecture or the styling. There is no reason why a self-driving car should be dull to look at or to experience." In both 'Drive' and 'Autonomous' modes, the driver retains control over the vehicle via the i-Device, which sits next to the 9.7" screen in the centre console. The i-Device enables the driver to switch between modes so they can take action, like overtaking the car in front.

Passengers can also all communicate with the vehicle via a chat bot, a speech-driven personal assistant offering a vast array of services, including booking cinema tickets or buying online.

Materials in the cabin have been selected for high levels of tactility; a unique floor gives it a luxurious, smooth feel to the touch but also outstanding durability and a contemporary feel.







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