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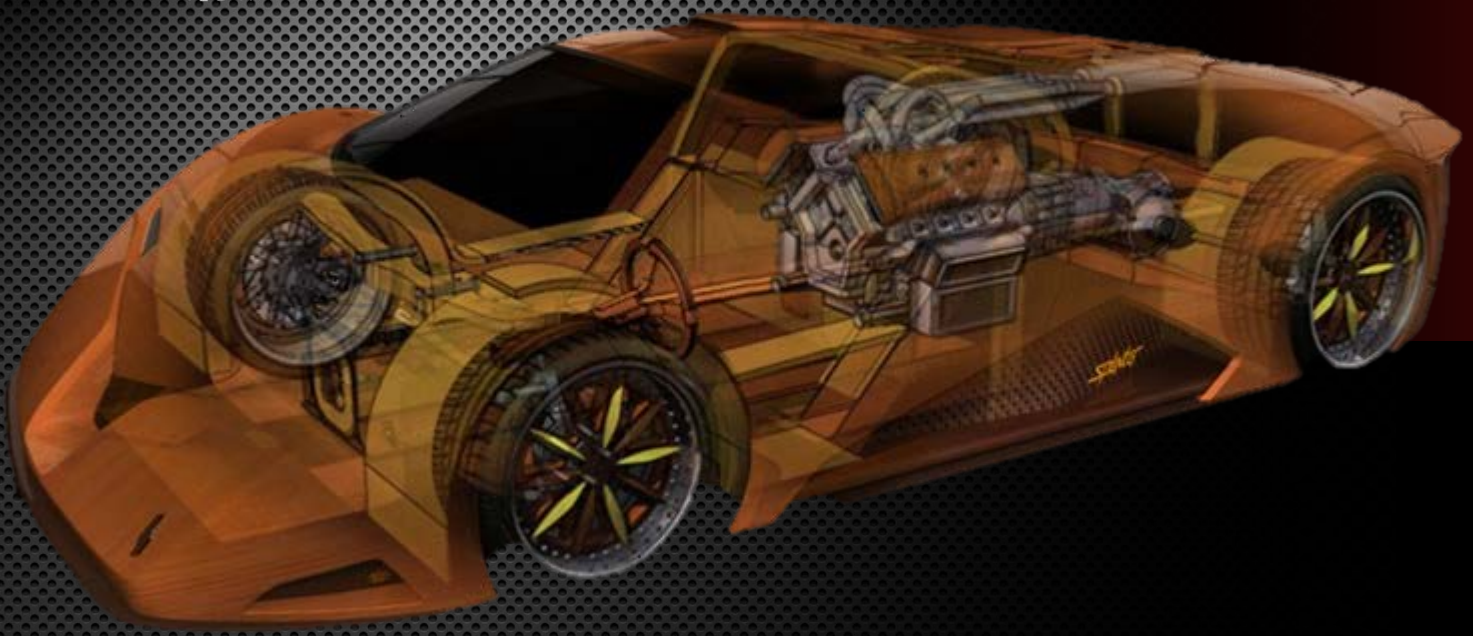
DAuto 41st edition Newsletter



2013

JANUARY EDITION

DAuto NEWS LETTER

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

The 2014 Chevrolet Corvette Stingray

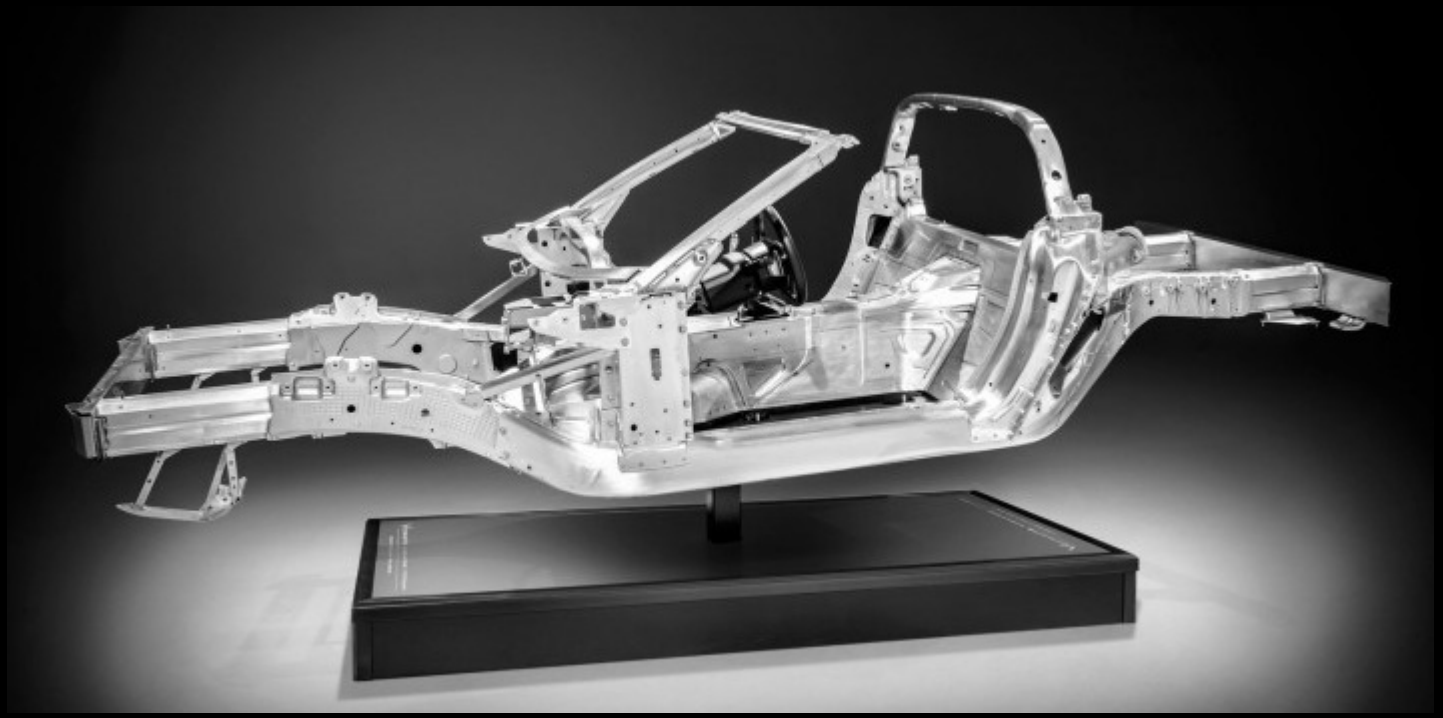
General Motors has finally revealed the all-new 2014 Corvette. Dubbed Stingray Coupe, the new model features an aggressive, bold and aerodynamic design, advanced materials and a 450 hp V-8 engine.

The 2014 Corvette is the most powerful standard model ever, with an all-new 6.2L LT1 V-8 engine delivering 450 horsepower (335 kW) and 450 lb.-ft. of torque (610 Nm).

It can accelerate from 0-60 in less than four seconds and achieves more than 1g in cornering grip. At the same time, it is expected to be the most fuel-efficient Corvette, exceeding the EPA-estimated 26 mpg of the current model.

The body panels make extensive use of lightweight materials: carbon fiber for the hood and removable roof panel; composite for the fenders, doors and rear quarter panels; carbon-nano composite for the underbody panels

The 2014 Chevrolet Corvette Stingray



The new Corvette is based on a new aluminum frame structure which includes two main rails -each divided into five segments – with extrusions at each end, a center main rail section and hollow-cast nodes at the suspension interface points.

The 2014 Chevrolet Corvette Stingray

The new Corvette Stingray interior blends quality materials and craftsmanship with advanced technologies and focuses on offering a more connected and more engaging driving exper

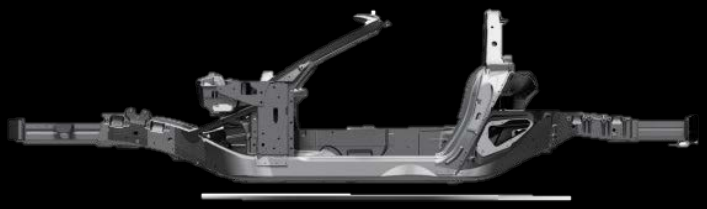
INTERIOR

The frame structure for both seats is made of magnesium for greater strength and less weight than comparable steel frames.

The smaller, 14.1-inch-diameter (360 mm) steering wheel fosters a more direct, immediate feel to directional inputs.

FRAME & CHASSIS

The all-new aluminum frame structure is 57 percent stiffer and 99 pounds (45 kg) lighter.



The greater torsional rigidity reduces unwanted noise and improves ride and handling.

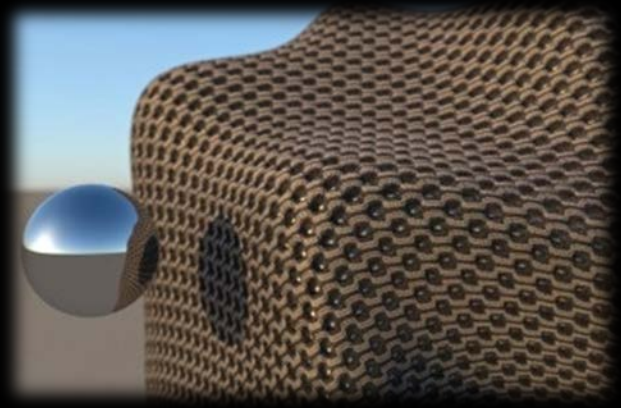
X-Rite develops new technology for digital materials

Color science and technology company X-Rite has developed a new capturing technology for creating digital materials that enable physically correct simulations.

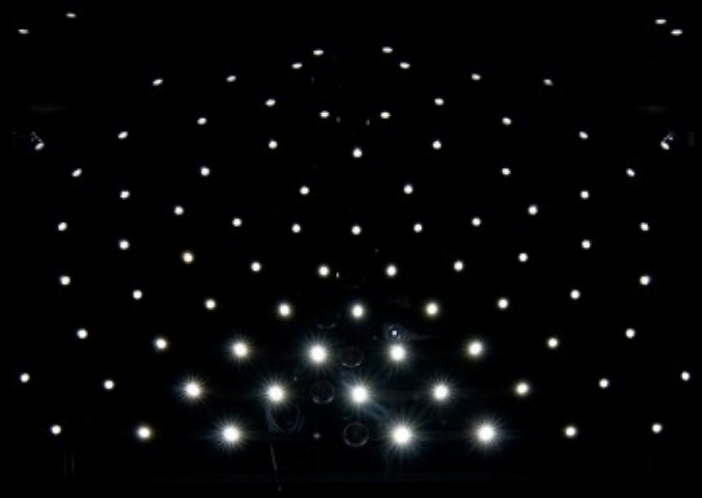
X-Rite has recently acquired Sensible Graphics GmbH, a company providing digital appearance solutions that developed an advanced high-quality surface rendering technology for creating photo-realistic virtual prototypes of products for the automotive, fashion, advertising and other industries.

This technology, called total appearance capture (TAC), allows a full, high-quality digital scanning and characterization of material surfaces for use in high-end computer-aided design.

By implementing this technology, X-Rite will be launching a whole new ecosystem for producing ad utilizing measurement-based digital data that enable physically correct simulations of real-world materials.



X-Rite develops new technology for digital materials



"All of this will lead to simplification of product design processes when dealing with complex materials."
The company will unveil new details during the first official presentations, expected to take place in the next months.

The system will include a scanning hardware capable of capturing all the appearance attributes of a given material and to store them into a new interchangeable digital format usable in CAD and other 3D applications to create photorealistic renderings.
As the official document reports, the new science and technology of modeling the physics of light-matter interaction enables the development of

- New types of instrumentation to holistically capture all appearance attributes,
- New technologies to formulate complex effect materials such as automotive paint, effect plastics or even contemporary complex (multi-layered and scattering) building materials and human skin,
- New accuracy and realism in rendering within the computing power (GPU) reach of mobile devices, and
- A categorization and classification system for materials based on their appearance attributes to enable search, retrieval and semantic referencing."

Lexus unveils the next-generation IS

Lexus has released the first images and information on the 2013 IS, that makes its debut at the 2013 Detroit Motor Show. Among the design features is the surfacing inspired by the LF-CC concept.

Among the distinctive elements is the bold spindle grille that characterizes the front end giving it a powerful road presence and a stronger brand identity.

Another element derived from the LF-CC is the articulated headlamp cluster design with the L- shaped Daytime Running Lights (DRL) located independently.

Lexus unveils the next-generation IS

The interior is characterized by a sporty atmosphere with elements inspired by the Lexus LFA – such as the steering wheel.

The cockpit is driver-focused while the increased width and wheelbase length provide significantly increased levels of rear seat comfort and luggage capacity.

The IS F-Sport also features an exclusive, highly supportive seat design using an 'integrated foaming construction method, ensuring that there are no gaps between seat upholstery and filling to combine excellent comfort with outstanding lateral holding performance.

Qoros GQ3: first images

Qoros has unveiled the GQ3, the C-segment sedan that previews the design language of its future family of models targeted to the Chinese and European markets. Making its world debut at the Geneva International Motor Show (7-17 March 2013), the Qoros GQ3 goes on sale in China in the second half of 2013, while the first European deliveries are expected later in the year.

The face of the GQ3 sets the template for the Qoros model family, with wide headlamp units extending into the flanks of the car, framing the central upper grille at the same height. Horizontal LED bars feature at the upper edge of the headlights and in the distinctive rear light clusters.

Qoros GQ3: first images

The first letter designates the body style: all sedans will carry the first letter 'G'.

All Qoros models will feature the second letter 'Q' – an unmistakable reference to the 'master' brand.

The GQ3 will offer generous interior space, and the horizontally arranged 'floating' dashboard will further enhance the impression of space in the cabin. In its ergonomics and quality, the Qoros GQ3 sets new standards for cars produced in China and will be comparable with the best-selling cars in Europe.

The third digit will always be a number and indicates the segment in which the model range sits.

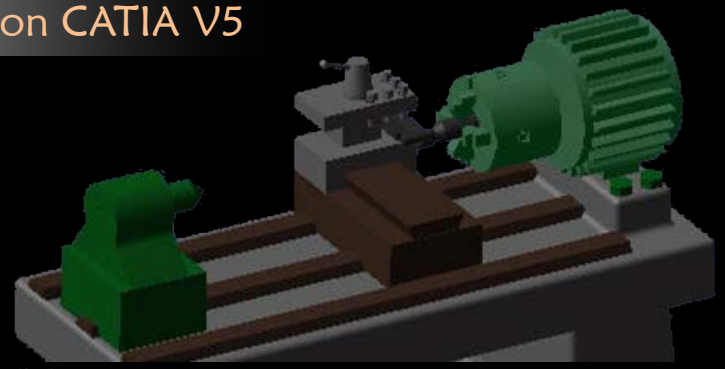
The number '3' denotes that the model is in the compact / C-segment.

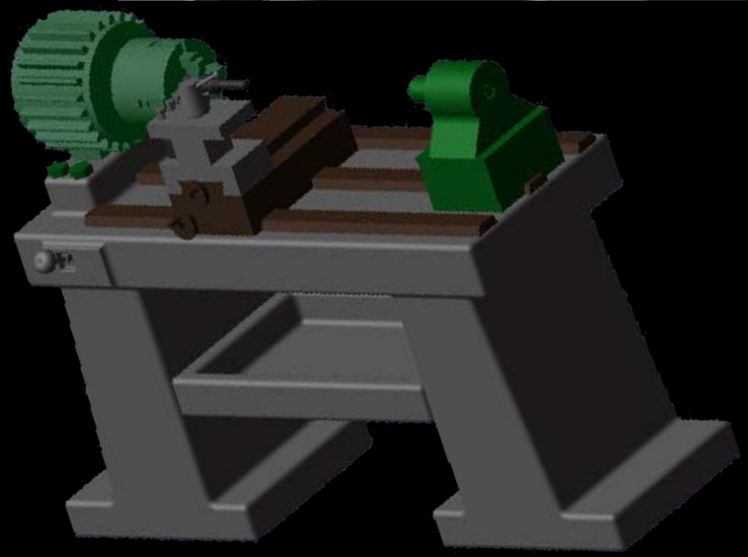
STUDENT'S CORNER

News from DAuto Family

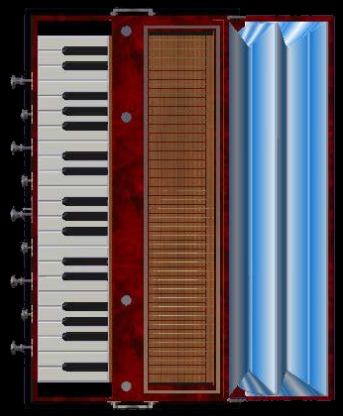
This Guitar & Lathe Machine have been prepared and envisioned by Niharika Pandey (TITech jbp) & Ritesh Singh Lodhi (RSIT jbp) respectively, students of DAuto CAD School during the training period.

Guitar & Lathe Machine Designed on CATIA V5



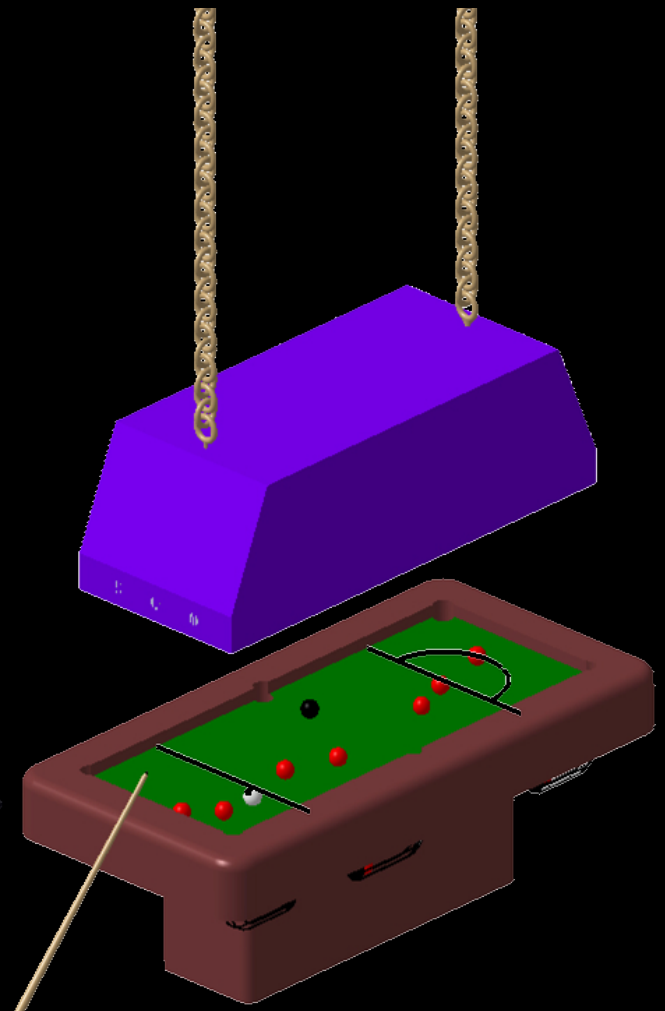


STUDENT'S CORNER



This Harmonium & Pool Table have been prepared and envisioned by Alok Gupta (HCET jbp) & Prabhat Agrawal (RIT indore) respectively, student of DAuto CAD School during the period of Software Training on CATIA V5.

News from DAuto Family



New Training Session:
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Warm Wishes From DAuto

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It is our nation, Our India

Happy Republic Day 2013.....

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Thank You ! !