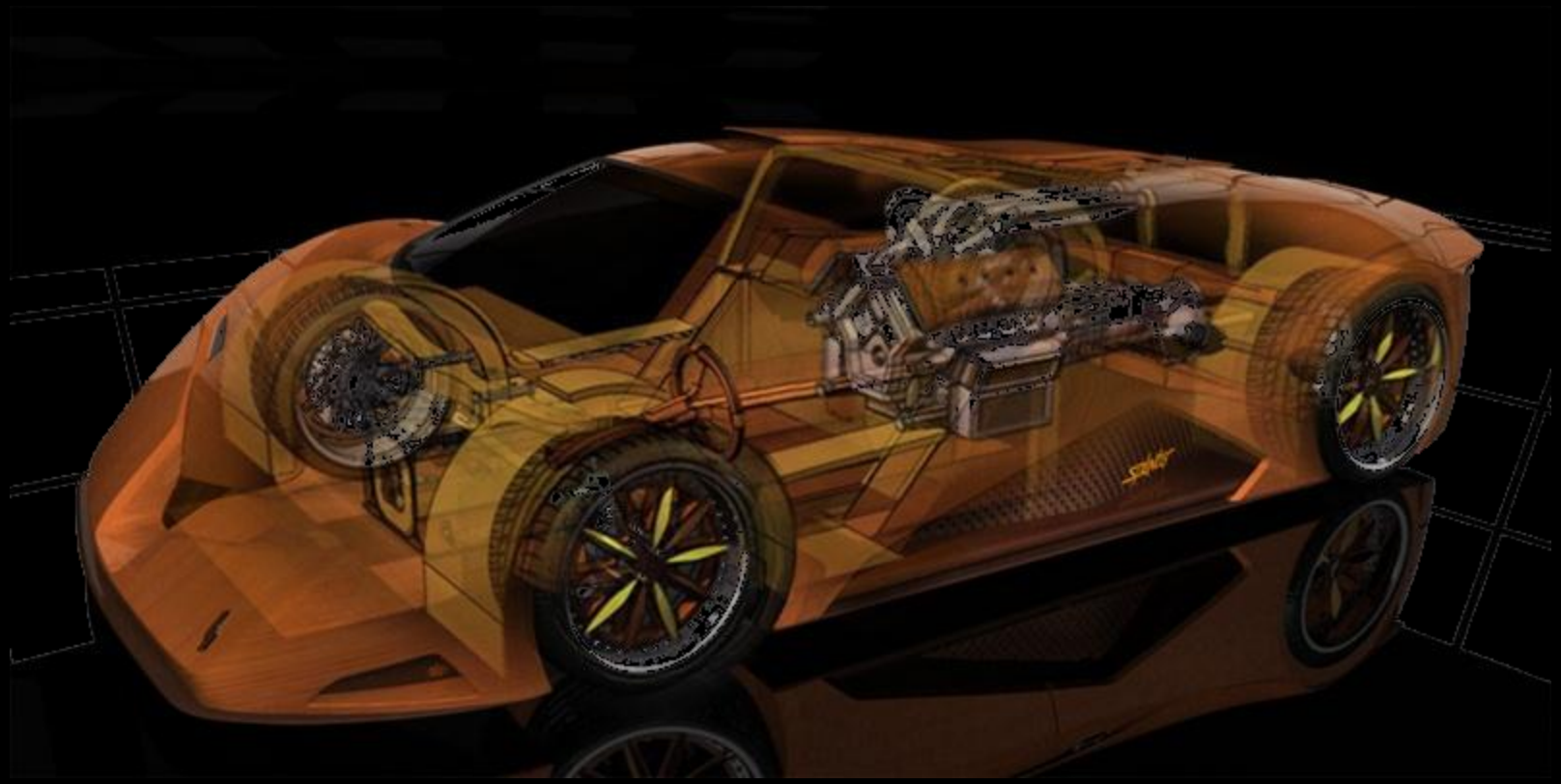
September 2011 Edition

DAuto News Letter



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

2011 Audi Urban Concept

Audi is now ready to launch their latest concept car electric cars with guaranteed comfort for driving and not too noisy on the environment.

Vehicles produced is well suited to metropolitan areas and urban areas.

In addition to a decent performance side, also supported some of the latest advanced technology features. Model of order this car does look very unique with a range of weight reached 480 pounds

2011 Audi Urban Concept

Production concept car incorporates some racing, roadster and is also a radical new concept. Trends can be called as a car that has the best potential. Now you can think of to have an electric-powered cars with a maximum capability.
The 2011 Audi urban concept uses pushrod technology borrowed from motorsports. As in a racecar, the struts mounted in the interior of the monocoque are nearly horizontal. Four disc brakes provide the stopping power. The turning circle measures less than nine meters (29.53 ft) – ideal for a city car. Thanks to the vehicle's low weight, the rack-and-pinion steering does not require any power assistance. Crumple zones in the front and rear plus two airbags provide for a high degree of passive safety. An innovative assistance system helps the driver to avoid collisions with pedestrians.

2012 Lotus Exige S

Creating a Lotus sports car for the party was highly anticipated by its customers. The company is creating their new cars with high-powered engine performance. Also supported are also agility, good performance, and unmatched in any aspect. Many people who come to expect the best performance of the Lotus and the company did not want to disappoint customers, and want to give the best

2012 Lotus Exige S Specifications

- Engine: Mid-mounted, transverse, 3456 cm3, 2GR-FE engine, V6, 24 valve
- Max Power: 350 PS / 257.5 kW / 345 hp @ 7000 rpm
- Max Torque: 400 Nm / 295 lb ft @ 4500 rpm
- Transmission: EA60 6 speed transverse Sports Ratios manual gearbox with open differential
  0-100 km/h: ~3.8 seconds
  0-160 km/h: 7.9 seconds
- Maximum speed: ~274 km/h / ~170 mph
- Fuel tank capacity: 40 litres (8.8 gal [UK])

- Dimensions
  Wheelbase: 2370 mm
  Track
  front: 1453 mm
  rear: 1499 mm
- Overall length: 4052 mm
- Overall width (door mirrors excluded): 1802 mm
- Overall height – midladen (as per unladen with 2x 75 kg occupants): 1153 mm

Types of Steering Boxes

The steering box is a method of steering cars at high speeds, where accuracy is of paramount importance. It is a method of preventing the turning of the steering wheel from having a direct effect on the direction of the wheels, allowing for a more forgiving driving experience than direct access. A gear system is placed between the shaft of the steering wheel and the wheel axle, refining the controls and making driving safer.

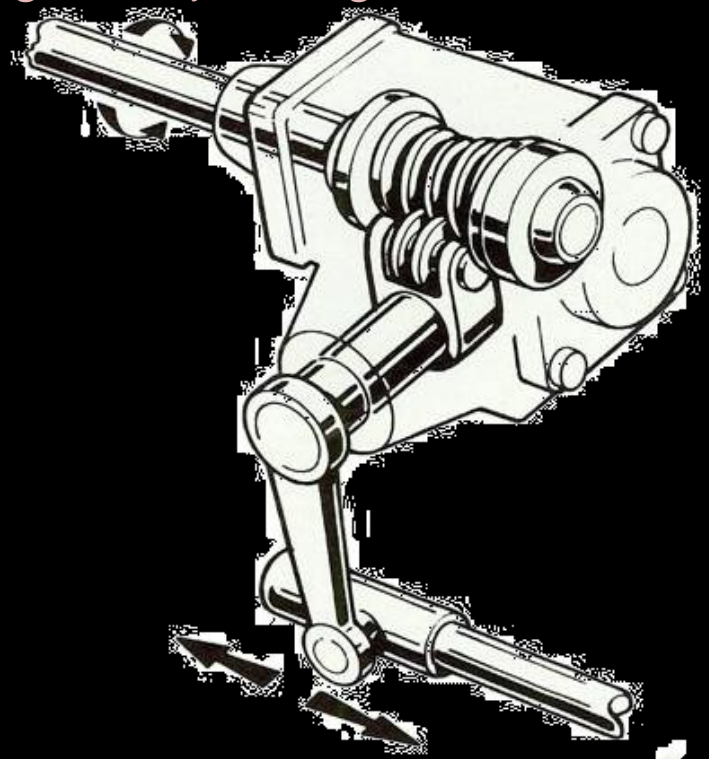
Worm and Sector

The worm and sector steering box was one of the first steering box designs. It comprises a steering wheel shaft with a "worm" screw on the end, and a section gear that is moved up and down as the steering wheel turns. The movement of the section gear causes a pitman arm (a rod of metal attached to the track rod) to lever up and down, turning the wheels.

Types of Steering Boxes

Worm and Roller

The worm and roller steering box was introduced in 1926 to combat friction and is still used today. It works on a similar principle to the worm and sector box, with section gear replaced by a roller attached to a cross shaft. As the steering wheel turns, the worm rotates and causes the roller to turn. This causes the cross shaft to twist, moving the pitman arm and forcing the wheels to change direction. According to carbibles.com, the worm gear is typically an hourglass shape, designed to be wider at the ends.

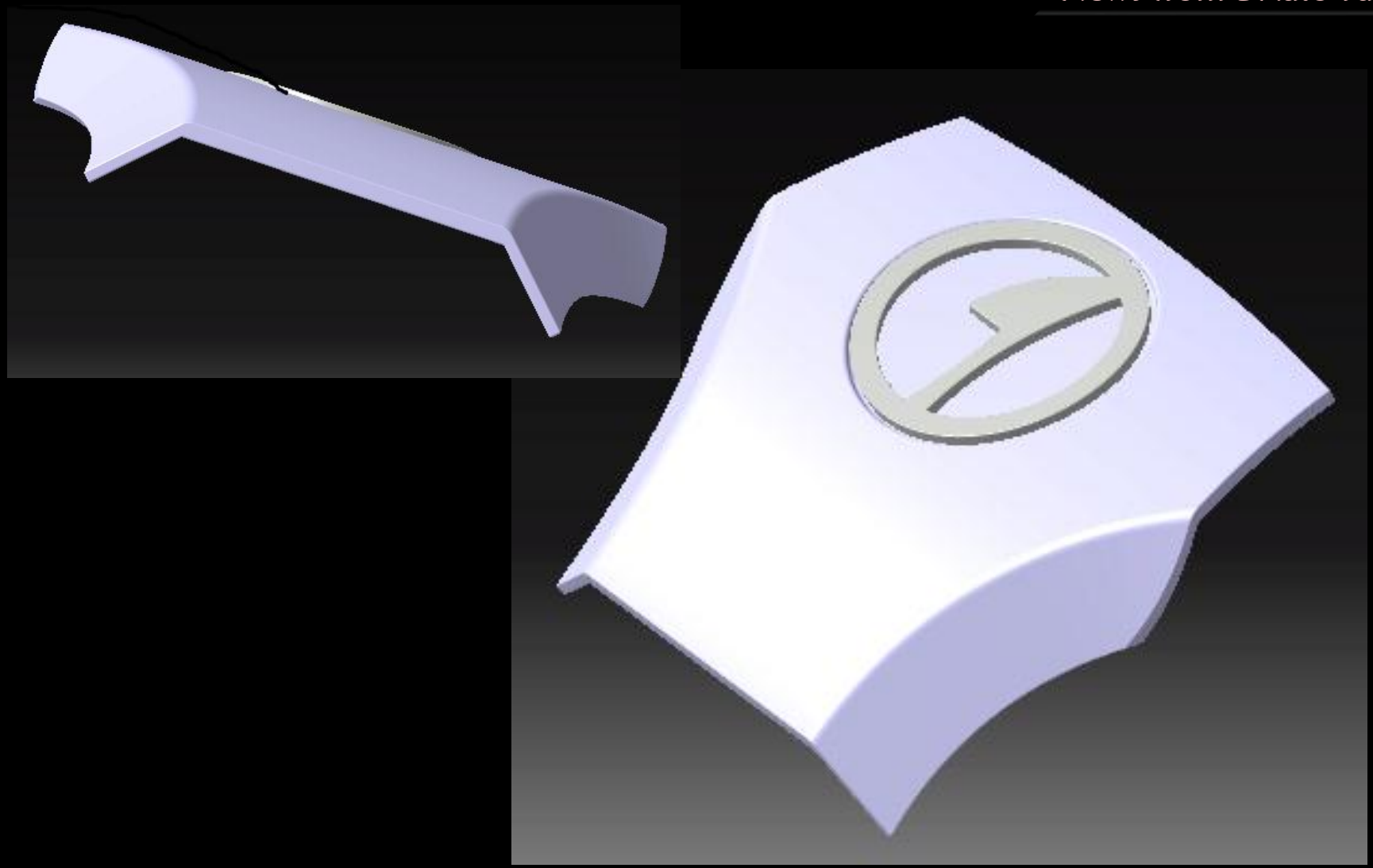


Types of Steering Boxes

Cam and Lever

Introduced in 1923 as a means of reducing wear and friction, the cam and lever design is very similar to the worm and roller. As the worm turns on the steering shaft, the cam moves up and down the worm, forcing the pitman arm to move up and down along with it, causing the wheels to change direction. In this design, according to carbibles.com, the cross shaft is turned 90 degrees to the normal, causing it to exit through the side of the steering box instead of the bottom.

News from DAuto Family



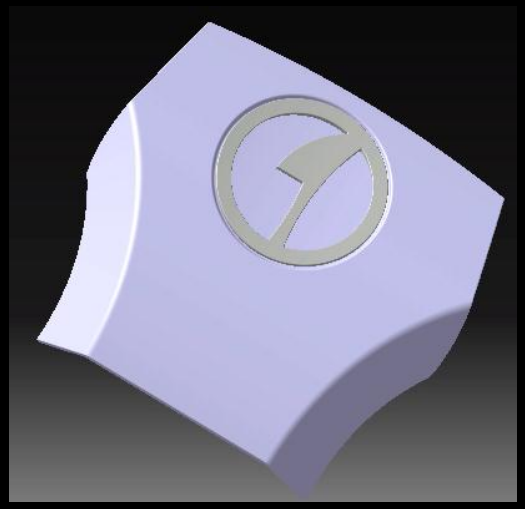
This contrive has been prepared and envisioned by one of the DAuto CAD School student during the period of Software Training on CATIA V5

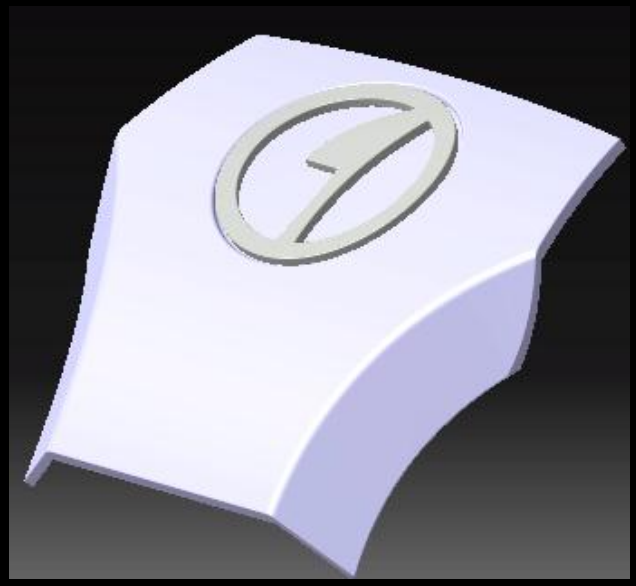
News from DAuto Family

Good News :
(OPENING AT DAuto)
DAuto Company has openings for the post of design Engineer, preference would be made for DAuto CAD School Students, Eligible candidates may send their Curriculum Vitae at :
careers@dauto.co.in

(LIVE PROJECTS WITH STIPEND)
DAuto initiated to provide live projects with stipend, it will helpful for students In their hand's on experience and future building as well.

Design Courses on maximum Discount for students:
Being student is good to grab the chance to get discount on CATIA V5 and Unigraphics NX to make career in design and development.
For More Info : 9752006008/ 9981500100
training@dauto.co.in





Designed on CATIA V5

Thank You ! !