Toyota CS&S concept car



CS&S combines sportiness and eco-friendliness in an unique intelligent package

The Frankfurt Motor Show is the venue for the world launch of the striking CS&S (Compact Sports & Specialty) sports concept car. This brand new Toyota concept focuses on three specific areas:

- Perfect combination between the most recent hybrid technology and a fresh sports concept
- Innovative package, bringing new solutions to the world of open top cars
- Introduction of revolutionary IT technologies

In essence the CS&S is positioned somewhere between the current Celica and MR2 models. It's a mid-engined 2+2 open sports car powered by a 1.5-litre petrol unit that drives the rear wheels, while the front wheels are powered by an electric motor. It thus offers both economy because of the relatively small conventional engine, together with **four-wheel drive** and strong acceleration thanks to the electric motor's high torque.

What CS&S proves is that hybrid technology is not just eco-friendly. It can also provide a dynamic and highly enjoyable driving experience, thanks to a unique combination of **low kerb weight**, four-wheel drive and a powerful **2nd generation hybrid powertrain**.



How CS&S stands out from the crowd

- Innovative design and futuristic styling by ED²
- Intelligent 2+2 package
- Clear contrasts between strong component architecture and smooth integration

At first glance CS&S looks like a radical, high-tech and futuristic open twoseater sports car. But in fact, removable rear canopies hide a further two seats, making this a true 2+2 sports car.

In a further innovative move that boosts security, the front seat has been designed in such a way that it can be rotated to cover the cockpit area.

The seats themselves are shaped to reflect the lines of the exterior of the car, and the arched shapes are to be found again in the cockpit area of the car. These have the effect not only of providing an individual space for the driver and passenger, but also emphasising the car's sporty image.

On the show car, the white exterior is graphically contrasted for maximum effect by the red interior trim colour.

The CS&S body has a distinct proportion: **short**, **wide and low**. The extremely low centre of gravity and a wide base benefit driving dynamics. Body height is 1120 mm, 12 centimetres lower than a Toyota MR2. With an exterior width of 1,800 mm, this car is also 6.5 centimetres wider than a Toyota Celica. A long wheelbase (2550 mm for a length of 3940 mm) creates a bold stance and provides a smarter package.

Overall, the design is one of clear contrasts, between sharp, angular lines and fluid curves and arches. The result is geometrical simplicity, where the pronounced wheel arches emphasise the vehicle's sportiness.



Hybrid Synergy Drive – energetic performance with environmental care

- Hybrid Synergy Drive is the new concept for all Toyota hybrid vehicles to come
- More powerful electric power source boosts hybrid powertrain to an unprecedented level of efficiency
- Increased overall power achieves class-topping performance for newgeneration hybrid vehicles

The hybrid system fitted to the CS&S will go in production in the secondgeneration Prius. Other 'conventional' hybrid systems rely on a petrol engine to produce peak performance, and utilise an electric motor as an ancillary. The concept of Hybrid Synergy Drive gives the electric motor a more important role when powering the vehicle both for fuel efficiency or peak performance.

Therefore the electric motor is much more powerful than before, which means the petrol engine actually is used less. As the electric motor is much more efficient than the petrol unit, this will also be translated into better fuel economy, in spite of the improved performance.

Toyota's intention in developing the Hybrid Synergy Drive philosophy is to introduce more powerful petrol and electric power sources in order to achieve higher levels of performance. The second generation Prius – and the CS&S concept – prove that hybrid vehicles, far from being dull and boring, can deliver driving dynamics that allow them to compete head-to-head even with conventional sports cars.

Ice-cool technology

As well as its innovative Hybrid Synergy Drive system, the CS&S unveils another radical new IT concept – **Toyota Space Touch**. At its heart is an integrated multimedia system that is operated via a series of holographic projections that the user 'touches' to make a selection.



Spheres of information appear to float in space, but when touched they allow the user to control functions such as the air conditioning, audio, satellite navigation and others.

Even users wholly unfamiliar with the equipment will find it simple and intuitive to use. Toyota Space Touch also manages to break new ground in terms of human-machine interface.

For instance, several audio adjustments can be changed in a very simple operation. The built-in navigation system can be operated in an intuitive way, which is a major improvement compared with some systems available on the market. Finally, Toyota Space Touch allows the user to browse through the internet, as well as sending and receiving e-mails, always in an intuitive and straightforward manner.



Technical specifications

Engine

Туре	L4, normally aspirated, high expansion cycle
Valve mechanism	DOHC 16 valve VVT-i
Displacement (litre)	1.5
Placement	Midship (behind passenger compartment)

Electric motor

Туре	Synchronous, permanent magnet
Placement	Front

Transmission

Drive type	Electric 4WD

Exterior dimensions

Overall length (mm)	3,940
Overall width (mm)	1,800
Overall height (mm)	1,120
Wheelbase (mm)	2,550

Overall performance (target figures)

Max. speed (km/h)	205
0-100km/h (sec.)	8.6
Combined CO ₂ emissions (g/km)	98

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