

## Press Release

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### Volvo XC70 - model year 2012

The third generation Volvo XC70 is more refined than ever. A comfortable and luxurious appearance has been combined with top-class flexibility and an expressive design. The XC70 is a sophisticated and elegant car for an active urban life. Come the weekend and it transforms into a rugged partner for all kinds of exciting adventures.

The XC70 has been upgraded with a number of features including the latest user-friendly Volvo Sensus infotainment system, enhanced technology that makes driving even safer and more comfortable, and refined drivelines that offer higher performance and lower fuel consumption.

#### EXTERIOR

##### Rugged look

The model has a unique soft nose. This is characterised by a larger grille and headlamps. The dark-coloured body panels provide an exclusive, rugged impression, clearly signalling the car's dynamic capabilities. Moving to the side, the contrasting protective sections are supplemented with a chrome moulding at the bottom of the doors.

The pronounced wheel housings are another design feature, contributing to the capable appearance. A number of design elements, like the framed side windows and the distinct shoulders, create a genuine estate car profile.

The tailgate's upper section has a sportier forward-leaning stance. The tailgate overlaps the tail lamps, providing an even wider opening. The glass goes further down at the sides, enhancing rear view. The rails are integrated into the A-pillar mouldings.

A new exterior features in Model Year 2012 is the redesigned headlamps.

##### Exterior colours

The following exterior colours are available for the Volvo XC70:

Flamenco Red metallic 702

Black Stone solid 019

Ice White solid 614

Silver metallic 426

Black Sapphire metallic 452

Caspian Blue metallic 498

Caper Green metallic 493

Electric Silver metallic 477

Ember Black metallic 487

Savile Grey metallic 492

Seashell metallic 484

#### INTERIOR

##### Volvo Sensus - refined infotainment

Volvo Sensus is an excellent example of how Volvo Cars refines the driver environment. All information is presented on a five-inch or seven-inch colour screen in the upper part of the centre stack. The screen is positioned high up to make it easy for the driver to keep his or hers eyes on the road. All the functions can be controlled via buttons built into the steering wheel or via touch buttons located just below the colour screen.

If the customer chooses a multimedia audio system, Volvo Sensus comes upgraded with the

larger seven-inch screen that also displays information and images from the navigation system, phone, reversing camera, panorama camera, DVD player, digital TV and so on.

The Bluetooth connection has been upgraded to allow not only hands-free phone conversations but also music streaming from a preferred Bluetooth enabled portable music player. Volvo is actually the only brand to offer Bluetooth music streaming throughout the entire vehicle range.

#### **Keep in touch via mobile application**

New is also a mobile application that makes sure that the driver can stay in touch with the parked car via an iPhone or Android smart phone. The mobile application is an extension of Volvo On Call, which is presently available in 12 European countries plus Russia and Brazil.

Now, the system has been reinvented. Owners of all new Volvos from Model Year 2012 with Volvo On Call can download the new application that opens up a range of connectivity possibilities. The mobile app is free and downloaded via the iPhone and Android application stores. The app is designed to offer the owner an intuitive, easy-to-use relationship with the car from a distance.

#### **Scandinavian design at its best**

The interior of the XC70 is an example of Scandinavian design at its best. Every little detail has been designed with a one hundred percent focus on both clean form and intelligent functionality. Comfort in the front seat features superb seats and ergonomically designed instruments - including an elegant, super-slim centre stack and an audio system of absolute world class.

In addition to Sandstone Beige and Anthracite Black there is an Espresso Brown option where the warm dark colour of the seats, door panels and instrument panel contrasts with the sand-coloured detailing of the rest of the interior trim.

There is also a new Blond highlight colours for the upholstery as well as a new three-spoke steering wheel, enhanced décor inlays and redesigned interior lighting.

The integrated dual child booster cushions can be adjusted in two steps and the 40/20/40-split rear seat has integrated seat belts. The lightweight design of the rear backrest and the simple folding mechanism are other examples of improved functionality for passengers. Electrically folding rear seat headrests are also available in the XC70.

#### **Loading space under the floor**

Everything and everyone rides in first class. Even the luggage compartment and all its options and accessories have been designed to meet the very highest demands on luxury and intelligent functionality. Among the smart details in the luggage compartment is a storage space under the floor that is locked when the tailgate is shut. A power tailgate is an option.

### **CHASSIS**

#### **Controlled ride**

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Thanks to the design of the body structure and the optimised use of different grades of high-strength steel, torsional rigidity was increased by no less than 15 percent compared to the previous XC70 model. The chassis technology has been further developed to provide even more stable and more controlled road manners. A lot of effort has also gone into features such as the suspension system and engine installation to ensure high-class comfort.

#### **DSTC is standard**

DSTC (Dynamic Stability and Traction Control) is standard. This is a stability-enhancing system that when necessary reduces engine torque and applies carefully calculated braking power to reduce the risk of a skid.

#### **Active chassis with Four-C - and three choices**

The car can be optionally specified with an active chassis based on Volvo's Four-C technology. It is an advanced self-regulating chassis system that uses a number of sensors to continuously monitor the car's behaviour. The dampers are adjusted to suit the current driving conditions in mere fractions of a second.

#### **All Wheel Drive with Instant Traction**

Several variants of the Volvo XC70 come All Wheel Drive. Using an electronically controlled hydraulic clutch, the AWD system distributes drive between the front and rear wheels to ensure the best possible road grip in all situations. The system features Instant Traction, which shifts drive at lightning speed from the front to the rear wheels when starting on a slippery or loose surface.

#### **Hill Descent Control regulates speed on steep downhill gradients**

Hill Descent Control (HDC) makes it easier to crawl in bottom gear on steep downhill slopes. Using the car's brakes and engine torque, HDC controls the car's speed and keeps it steady at about 10 km/h. This function is activated via a button in the instrument panel.

#### **Power Parking Brake is standard**

In order to assist the driver when starting on an uphill gradient, the XC70 has a smart, electrically operated Power Parking Brake.

### **DRIVELINE**

#### **Upgraded D5 with 215 hp**

The upgraded versions of the Volvo V70 features sharpened versions of the five-cylinder D5 and D3 turbodiesels.

In the D5 engine Volvo Cars' engine experts have boosted performance and torque from 205 hp/420 Nm to 215 hp and 440 Nm while at the same time reducing fuel consumption by eight percent. The quest for better driveability combined with lower fuel consumption and less environmental impact has led to increased focus on internal friction inside the engine.

#### **D3 with better drivability**

The D3 remains at 163 hp and 400 Nm. However, the two-litre diesel engine's driveability is now far improved thanks to fine-tuning of the turbocharger. This is an excellent example of the fact that efficiency enhancement in modern combustion engines is now taking place at microscopic levels. There is also a DRIVe version of the D3, with 163 hp and 420 Nm, a manual and automatic version (engine D5244T17).

#### **More fuel-efficient**

The improved driving properties of the turbodiesels are accompanied by lower fuel consumption figures for both engines.

Fuel consumption in the XC70 D5 is 50.4 mpg (149 g/km) in the AWD version with manual gearbox and 41.5 mpg (179 g/km) with the automatic. The corresponding figures for the D3 engine with FWD and manual gearbox is 51.4 (144 g/km) in the XC70 (DRIVe version).

#### **T6 with 304 hp**

Volvo V70 also comes with a range of petrol engines. The six-cylinder, turbocharged T6 has a displacement of 3.0 litres sharper performance, thanks mainly to a reduction in internal friction. It offers 304 hp and no less than 440 Nm of torque. Maximum torque is achieved between 2100 and 4200 revs. This results in rapid acceleration and smooth driving properties. All-Wheel Drive is fitted as standard.

### **SAFETY AND SUPPORT**

#### **Crumple zones made using different grades of steel**

The patented front body structure is divided into zones, each of which has a different task during the deformation sequence. The outer zones are responsible for most of the deformation. The closer the collision forces get to the passenger compartment, the less the material deforms.

In order to give each zone the right properties, different grades of steel are used in different structures, a total of four different grades. Apart from regular body steel, three different grades of high-tensile steel are used: High Strength Steel, Extra High Strength Steel and Ultra High Strength Steel.

#### **Strong side structure**

To optimise side-impact protection, the body's entire side structure features a well-balanced combination of high-tensile steel of different grades (High Strength Steel, Extra High Strength Steel and the extremely strong Ultra High Strength Steel). The various components and grades of steel interact to minimise penetration into the passenger compartment. The aim is instead to get the entire car to move sideways - away from the colliding vehicle.

### **Two-step booster cushion**

The booster cushion, which is integrated in the rear seat, can be set at two heights, allowing children of different sizes to sit sufficiently high to see out through the windows yet at the same time get the most effective protection possible. The lower setting is intended for children between 115 and 140 cm in height and weighing between 22 and 36 kg, while the upper setting is designed for children measuring 95-120 cm and weighing between 15 and 25 kg. The Volvo XC70 can be equipped with integrated child booster cushions in both outer rear seats.

### **Second-generation WHIPS system**

Volvo's support for avoiding neck injuries - WHIPS (Whiplash Protection System) - is one of the most effective on the market. In the event of a rear-end collision the front seat backrest accompanies the passenger's initial body movement and dampens the incoming force rather like one's hand does when catching a ball. The XC70 features further developed generation of WHIPS to ensure that the damping motion is gentle and to provide good contact between the head and head restraint throughout the impact sequence.

### **Now also with Pedestrian Detection**

Pedestrian Detection with Full Auto Brake is now also available in the Volvo V70. It is a support function designed to help the driver detect dangerous situations and it can actively help avoid the nightmare scenario of hitting a pedestrian.

The technology uses radar and a camera to monitor pedestrians in front of the car. The system initially provides a warning to alert the driver so he or she can brake or steer clear of the pedestrian. If the driver does not respond, the car automatically brakes with full force moments before the collision becomes unavoidable. With automatic braking, collisions can in certain circumstances be avoided at speeds below 35 km/h.

### **Collision Warning with Full Auto Brake**

Rear impacts represent a third of all reported accidents - and in more than 50 percent of these accidents, the driver doesn't brake at all. Collision Warning with Full Auto Brake is a refined warning system that initially warns the driver and pre-charges the brakes. The brakes are automatically activated if the driver doesn't act when a rear-end collision with a moving or stationary vehicle is imminent.

### **City Safety as standard**

One other new feature is that City Safety is standard. This system can lessen the severity of or entirely avoid low-speed rear-end collisions at speeds of up to 30km/h. City Safety keeps a watch on vehicles in front with the help of a laser sensor built into the windscreen at the height of the rear-view mirror.

The car automatically brakes if the driver does not respond in time when the car in front slows down or stops - or if the driver is driving too fast towards a stationary object. If the relative speed difference between the two vehicles is less than 15 km/h, the collision can be entirely avoided. If the speed difference is between 15-30 km/h, the speed of impact is reduced to minimise the effects of the collision.

### **Driver Alert Control (DAC)**

Driver Alert Control alerts the driver when his or her concentration level is affected, for instance during long journeys. Driver Alert Control monitors the car's movements and assesses whether the vehicle is being driven in a controlled or uncontrolled way.

### **Lane Departure Warning (LDW)**

Lane Departure Warning is activated via a button in the centre stack and it alerts the driver with a gentle warning sound if the car crosses one of the road markings without an obvious reason such as use of the turn indicator.

### **BLIS and IDIS for better control**

The Volvo V70 is also equipped with BLIS (Blind Spot Information System) and IDIS (Intelligent

Driver Information System), two innovations that help the driver maintain better control over the traffic situation. BLIS registers if another vehicle is in the offset rear blind spot alongside the car and alerts the driver via a visual signal. IDIS helps stop the driver being distracted by non-essential information in pressing situations, for instance by delaying incoming phone calls or text messages.

#### **Adaptive cruise control**

Adaptive Cruise Control (ACC) continuously monitors the gap to the vehicles in front and automatically adjusts the car's speed to ensure that this gap does not shrink too much. The latest version operates all the way down to standstill. The car accelerates automatically once the traffic starts moving again.

#### **Dual Xenon and Active Bending Lights**

In order to contribute to the best possible visibility during night-time driving on curving and twisting roads, the car can be equipped with Active Bending Lights - swivelling headlamps that follow the sweeps and bends of the road. By using the Dual Xenon light technology it give a 90 per cent boost to the driver's vision round bends at night. The Dual Xenon gas discharge lamps expand the vision range at nights by about 230 per cent. This means the driver can gain a further 45 metres for braking.

#### **Keywords:**

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