

Jaguar XE saloon



The XE is an aluminium-intensive mid-sized saloon, with ADAS, a laser head-up display and the new, modular, Ingenium engines.

The body is based on Jaguar's new modular platform architecture, with a mix of aluminium and Ultra-High Strength Steels (UHSS). High Strength and Dual Phase steels are used for the rear underbody, and for hang-on panels such as the doors and the boot lid.



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The A-post, roof side rails, and front and rear chassis structures are of AC300 and AC600 aluminium which has enabled jaguar to reduce material thickness from 1.5mm to 1.1mm. The body also makes use of High-Strength AC5754 which is largely produced from recycled material.

The bonnet is of aluminium too. The B-post assembly is of high-strength aluminium, with UHSS reinforcement, with a high-density foam insert between them. Joining is by way of 2772 self-piercing rivets and 115 metres of adhesive bonding, with mixed material joints protected by 5 layers of adhesive, e-coat, zinc, seam sealer and paint to prevent galvanic corrosion.

Steel is used for the door impact beams and rear floor area, and the rear heel panel is of HSS to provide a stiff base for the rear axle. The radiator support carrier and the crossbeam are of lightweight magnesium.

The XE also makes use of 40kg of recyclable plastics and uses a spray on NVH sound attenuation material which reduces weight by a further 3kg.

Dimensions: length 4672mm, width 2075mm, height 1416mm, wheelbase 2835mm



Technology

The XE features a Laser Head-Up Display. This projects a virtual focal point image ahead of the driver, giving speed, navigation and other key pieces of information. Using laser projection creates a brighter image, one that is still visible if the driver is wearing polarised glasses. This option must be in conjunction with the solar attenuating windscreen.

A forward-facing stereo camera is mounted ahead of the interior mirror, which scans the road ahead for a distance of up to 100 metres, producing a 3D view of the road to provide information for the Autonomous Emergency Braking (AEB) system to function at speeds up to 50 mph. The stereo camera is used by the Traffic Sign Recognition system, Adaptive Lighting and the Lane Departure Warning system.

Adaptive Cruise Control uses 77GHz radar to maintain a set distance from the vehicle ahead, initiating the AEB if required.

The Blind Spot Monitoring system uses 24GHz radar sensors to detect vehicle approaching from the rear; alerting the driver by icons in the mirrors.

The XE features the first use by Jaguar of electric power steering which they claim reduces CO2 emissions by 2% – 3%.

Torque Vectoring technology individually and discreetly applies braking to inner wheels to maintain cornering stability and to mitigate understeer.

Internet connectivity is via smartphone tethering or by an inbuilt SIM card, with the Jaguar InControl Applications. This is compatible with iOS and Android apps, and can enable the car to function as a wireless hotspot.



Trim levels - Pure, Prestige, R-Sport, Portfolio, S

Pure: features chrome side vents, cloth seat fabric, dual zone air-conditioning, Torque Vectoring, keyless starting, 8" touchscreen, 17" Lightweight or Turbine 10-spoke alloy wheels, and Gloss Black window surrounds.

Prestige: features chrome side vents, 17" Lightweight or Turbine 10-spoke alloy wheels, heated front seats, leather upholstery, and brushed aluminium door window surrounds.

R-Sport: features a boot lid spoiler, Gloss Black window surrounds (chrome are optional), 18" alloy wheels, and a Sports suspension package. Headlamps are Bi-Xenon.

Portfolio: features chrome side vents, a range of colour options for the leather interior, 18" alloy wheels for 180PS models, 17" alloy wheels for 163PS models, Bi-Xenon headlamps and electric front seats.

S: features Noble chrome side vents, specific S body styling kit including sill extensions and a rear spoiler, rain sensing wipers and automatic headlamps, sill tread finished with 'S' emblem, 19" alloy wheels and a power operated boot lid.

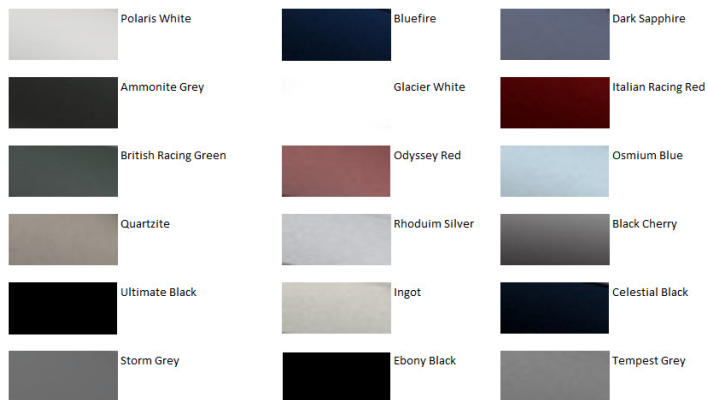
There are two parking assistance system available, using ultrasonic sensors, for the car to steer itself into parallel or perpendicular parking bays.

AEB, Adaptive Cruise Control and Lane Departure Warning are optional (AEB and LDW as part of Safety Pack for some models).



Paint Colours

There are 10 body colours available, and 3 interior trim choices: Habana Highlight, Purple Highlight, Stone Grey Ambience.



Powertrains

Engine	Capacity	Configuration + boosting	Max output	Peak torque	Transmission available
2.0 Diesel 163	1999 cc	4 cylinder DOHC VG-Turbo	161 bhp	380 Nm	8 speed auto/6 speed manual
2.0 Diesel 180	1999 cc	4 cylinder DOHC VG-Turbo	177 bhp	430 Nm	8 speed auto/6 speed manual
2.0 Petrol 200	1999 cc	4 cylinder DOHC Turbo	197 bhp	340 Nm	8 speed automatic
2.0 Petrol 240	1999 cc	4 cylinder DOHC Turbo	236 bhp	340 Nm	8 speed automatic
3.0 petrol 340	2995 cc	V-6 cylinder DOHC Supercharged	335 bhp	450 Nm	8 speed automatic

The XE features the new Ingenium range of modular engines. These have aluminium blocks with cast press-fit iron liners. Efficiency features include a split cooling system with a variable water pump to enable a faster warm up, and an electronically controlled oil pump.

Fuel tank capacity: 2.0 diesel 163 = 47 litres
 2.0 diesel 180 = 56 litres
 2.0 petrol 200/240 = 63 litres
 3.0 petrol 340 = 63 litres

