

## 2012 Model Range At-A-Glance

### XF

- New contemporary exterior echoes flagship XJ
- Upgraded interior with cutting-edge technology
- Comprehensive powertrain updates improve performance and economy

### XK

- Revised sporting GT with dramatic design enhancements
- 186mph XKR-S tops the range
- New option packs emphasise luxury and sporting personality

### XJ

- All-aluminium flagship offers unrivalled performance and luxury
- Lightweight construction delivers superior agility and economy
- New Rear Seat Comfort package offers sumptuous limousine experience

## Introduction

NEW YORK, USA, April 20, 2011

*“The new 2012 Jaguar range is our finest yet. Every one of our models fully embodies the brand ideals – innovation, bold design, and effortless high performance. Our designers and engineers strive continuously to keep Jaguar ahead of the competition – creating cars that stand apart from mainstream premium offerings, while remaining accessible to an ever wider spectrum of customers.”*

### **Adrian Hallmark, Global Brand Director, Jaguar Cars.**

The new Jaguar XF saloon, XK sports coupé and flagship Jaguar XJ all make their debut at the New York Auto Show 2011. Substantial changes and improvements across the range bring performance, refinement and economy to new levels, while fresh design enhancements strengthen the contemporary appeal of Jaguar’s latest line-up.

The 2012 model year XK builds on the car’s award-winning reputation as a high-performance sporting GT. A new range-topping variant, the XKR-S, creates a new performance flagship for Jaguar by becoming its most powerful production car ever, capable of 186mph and 0-60mph in 4.2 seconds.

Purposeful cosmetic alterations to the front and rear are made to the entire XK range, bringing its visual appeal right up to date, while further personalisation options are available to both the car’s performance and styling through a series of special order upgrade packages. New interior options will allow the discerning driver to emphasise either the luxury or performance aspects of the XK’s nature.

The XF, which has won more than 80 awards around the world for both its performance and styling, now receives bold new front and rear revisions to its appearance that bring it in line with the flagship XJ. The supercharged XFR features further uniquely dramatic design enhancements that signal the performance available in this potent range-topper.

Major technical advances include an all-new, state-of-the-art 2.2-litre four-cylinder turbodiesel engine in the XF, which comes with a fuel and emissions-saving Intelligent Stop/Start system for the first time in a Jaguar. This market specific version of the XF will be the most fuel-efficient vehicle in the Jaguar line-up – achieving 52.3mpg\* combined and 149g/km CO<sub>2</sub> – while retaining the performance and refinement that make it stand out as a true Jaguar sports saloon.

For the flagship Jaguar XJ luxury saloon, a suite of enhancements to the interior and options list includes a new Rear Seat Comfort package, which incorporates electric recline, lumbar adjustment and massage functions to reinforce the ultimate executive limousine experience.

These three cars are the result of a design and technology revolution at Jaguar, led by award-winning Design Director Ian Callum, the architect of the company's future success:

*“The world has been introduced to an entirely new generation of Jaguars in the past few years. With the new product range, today's Jaguar is at full-strength for the first time. The 2012 XK, XF and XJ are design-led products that break new boundaries. We believe our cars resonate with customers on an emotional level and that's reflected both in the way they drive and the way they look.”*

## **The 2012 Jaguar XF**

### **At-A-Glance**

- Dramatic design changes bring the XF's exterior into line with the XJ flagship.
- Range-topping XFR receives unique, assertive styling treatment.
- Bi-function HID xenon headlamps incorporate LED daytime running lights with a distinctive 'J-Blade' signature.
- Three discrete front bumper and lower rear valance treatments differentiate between variants.
- Tail lamps are now LED for stop, tail and direction indicator functions.
- Refreshed exterior complemented by new alloy wheel choices and paint colours.
- New AJ-i4D diesel model (market specific) is the most economical Jaguar ever, with a range of more than 500 miles.
- 190PS and 450Nm AJ-i4D introduces Intelligent Stop/Start technology, improving fuel consumption and CO<sub>2</sub> emissions to 52.3mpg and 149g/km.
- New 8-speed ZF automatic gearbox with optimised response rates, shift quality and efficiency.
- Upgraded interior with new seats, instrument panel and optional 1200W Bowers & Wilkins premium sound system.

### **XF Design**

A saloon with the soul of a Jaguar sports car, the XF has won accolades and enthusiastic fans across the globe for its dynamic abilities and dramatic looks. Advances in lighting technology have allowed the new 2012 XF model range to adopt the bold Jaguar design language introduced on the flagship XJ saloon.

Sheetmetal revisions to the grille, bonnet and front wings incorporating new triangular side vents give the car a more muscular, purposeful appearance. The range-topping XFR receives its own unique, overtly assertive design to underline its performance potential while an alternative 'Aerodynamic' option is available on all other derivatives for a total of three dramatically different styling options.

The headlamps now incorporate bi-function HID xenon technology that allows them to be much slimmer and more compact while still providing outstanding beam resolution. They also incorporate LED daytime running lights arranged in a distinctive Jaguar 'J-Blade' signature pattern for instant recognition.

The tail lamps have been entirely renewed and now extend onto the central portion of the boot lid. These new units are now full-LED for stop, light and indicator functions and give the XF a distinctive night-time rear signature. Separating them is a revised boot lid finisher with a gloss black lower edge for a cleaner appearance. The boot also features power closure on all models.

Three new paint colours and an expanded alloy wheel selection ranging from 17 to 20-inch provide the finishing touches to the revised styling.

*"The XF has rightly been recognised as a quintessential Jaguar saloon. It is purposeful yet elegant, with inherent sporting intent in its design. For the latest version we have been able to evolve and enhance that performance character to make the XF the most visually dynamic car in its class."*

**Ian Callum, Design Director, Jaguar Cars**

### **XF Powertrain and Dynamics**

It also continues the Jaguar tradition of innovation by offering a combination of technologies that anticipates automotive trends.

#### **New four-cylinder diesel**

Key among the enhancements to XF is the introduction of the 2.2-litre AJ-i4D turbodiesel engine. The unit features low-friction pistons and a water-cooled turbocharger to increase efficiency plus active engine mounts and modifications to the sump and block to reduce NVH levels. The result is not only Jaguar's most fuel-efficient engine ever, but one which offers levels of refinement on a par with the previously-fitted 2.7-litre V6 diesel and all the performance expected of a Jaguar sports saloon. Further refinement is assured on all models by the use of additional acoustic shielding and the use of computational fluid dynamics to smooth exterior airflow.

Power output is 190PS with an impressive torque figure of 450Nm to provide the muscular performance expected of a Jaguar. Reaching 60mph in 8.0 seconds, the car will go on to achieve a top speed of 140mph. Nevertheless the unit still manages 52.3mpg on the EU combined cycle – making it the most economical Jaguar ever – and emits just 149g/km of CO<sub>2</sub> and is Euro Stage V compliant.

#### **New 8-speed automatic**

The engine is perfectly complemented by the all-new 8-speed ZF automatic gearbox. Specifically adapted by our engineers for its first-time application in a Jaguar, the transmission offers a host of benefits including both improved acceleration and economy. Gearchanges are completed in just 200 milliseconds – four times faster than the average human resting heartbeat – while driver control is enhanced by the ability to perform multiple downshifts using the paddleshift technology. The use of lightweight materials ensures the overall weight remains the same as the previous six-speed transmission, while improved pump design and gear control elements increase efficiency. Standard on all XF diesel models, it reduces the CO<sub>2</sub> emissions of the 3.0-litre V6 to 169g/km and improves fuel consumption to 44.8mpg.

#### **Intelligent Stop/Start**

Also making its debut with the 2.2-litre diesel engine is Jaguar's new Intelligent Stop/Start system, the first time this technology has been seen in a premium diesel saloon. This automatically shuts down the engine in just 300 milliseconds when the car comes to rest, in order to improve fuel economy and CO<sub>2</sub> emissions by between five and seven percent.

No driver intervention is necessary, with the engine management software analysing a host of complex factors in order to decide when the engine can safely be stopped. A Tandem Solenoid Starter with a dedicated secondary battery instantly restarts the engine as soon as the driver's foot leaves the brake pedal, ensuring it is running optimally by the time the accelerator is pressed. In order to facilitate this process, the gearbox features Hydraulic Impulse Storage, which supplies oil pressure to actuate the shift elements.

For the first time, all diesel variants are also available with Jaguar's Adaptive Dynamics system, allowing the enthusiastic driver to enjoy the car's outstanding chassis control and discover the XF's sporting soul.

### **XF Interior**

Whether experienced from the driver or passenger seat, the cabin of the XF is a uniquely welcoming and stylish place in which to spend time, using high-end materials in a truly contemporary manner.

Continuing to feature such dramatic 'surprise and delight' elements as the JaguarDrive Selector that rises from the centre console and air vents that rotate to their open position when the starter button is pressed, the XF interior has also received a comprehensive update.

#### **New seats and instruments**

Revised front and rear seats incorporate a 'hoop' feature on both squab and backrest that improves not only their appearance but also the support it offers by increasing the seat's profile. New hide colour combinations, veneers and headlining choices increase the personalisation options available to buyers. All models benefit from a revision to the colour scheme on the centre console, fascia and steering wheel where the 'Tungsten' finish is replaced by a more contemporary 'Aurora' theme.

The XF incorporates a formidable amount of technology but in true Jaguar fashion it is integrated seamlessly into the function of the car and controlled through a central seven-inch Touch-screen with a new polarising filter for better contrast viewing.

In order to reduce driver workload, additional switches have been added below the Touch-screen to instantly switch between different functions while new graphics are based on those in Jaguar's flagship XJ. The main driver instrument cluster is now a full-colour TFT unit for greater resolution and clarity.

#### **Cutting-edge technology**

Three new audio systems are offered on the XF, all of which represent a significant upgrade on those previously available. Heading this up is a 1200W, 17-speaker premium set-up, from British audio experts Bowers & Wilkins, which offers concert hall-like sound reproduction.

All audio systems can be specified with a hard-drive based satellite navigation system that incorporates a 'virtual' CD multichanger allowing the owner to 'rip' 10 CDs at a time into the car's memory storage and play them as if they were a physical music medium. The system also now offers a number of different options for connecting MP3 players; two USB ports, one of which is iPod specific and Bluetooth connectivity that allows music to be streamed from a smartphone.

The majority of the car's functions can also be controlled from the driver's seat by Jaguar's Interactive Voice functionality, which provides an intuitive interface for safe, hands-free operation.

### **The 2012 Jaguar XK**

#### **At-A-Glance**

- Dramatic front and rear styling gives the XK a dynamic new appearance.
- New intelligent LED technology incorporated into slimmer headlamps.

- New XKR-S model is the ultimate expression of Jaguar's GT duality: intelligent performance with everyday drivability.
- XKR-S achieves 186mph (300km/h), 0-60mph in 4.2 seconds and emits fewer than 300g/km of CO2.
- Strong, lightweight advanced aluminium body architecture to maximise performance, agility and economy.
- Revised interior enhances the contemporary luxury feel of the XK's cabin.
- Performance sports seat option offers 16-way adjustability, heating, cooling and memory functions.
- New XKR Dynamic Pack for enhanced driving characteristics.
- Expanded range of option packages allow a greater degree of personalisation.
- New paint colours pay homage to Jaguar's racing heritage.

## **XK Design**

The XK was the first car created entirely under the aegis of Design Director Ian Callum. Dramatic and purposeful, yet as sensuous as only a Jaguar can be, the XK now receives a number of revisions that reinforce its contemporary, assertive character.

The latest lighting technology has allowed the front headlamps to be made slimmer and at the same time incorporate LED signal functions and running lights. Combined with a larger grille and new bumper design, this gives the XK instant 'rear-view mirror' recognition. Unmistakably a Jaguar, each model in the range gains unique styling attributes that distinguish it from its siblings. Chrome mesh grilles on the XK are replaced with matt black detailing on the XKR while the flagship XKR-S receives a unique front bumper underlining its sense of purpose.

The power vent along the front wing has been altered from a vertical to horizontal design with a mesh insert. Emblazoned with the Jaguar name, it serves to emphasise the potential inherent in the XK's design. To the rear, the boot lid has been revised with a slimmer chrome finisher which allows the car to be graced by the famous Jaguar 'leaper', bringing it into line with the rest of the company's products.

Complementing the design changes are 17 paint colours, five of which are new and a range of alloy wheels that now total 11 different designs ranging in size from 18 to 20 inches. A further opportunity for owners to express their individuality is available through the 'Black Pack', now also available as an option on the naturally aspirated cars as well as the XKR. This replaces exterior chrome with a matt black finish, complemented by 20-inch gloss black alloy wheels. On the XKR, the package also includes body coloured aerodynamic enhancements and optional side graphics.

## **XK Powertrain and Dynamics**

Jaguar sports cars have a reputation for blending athletic high-performance with effortless cruising comfort. Nothing exemplifies this dual character more clearly than the XK's 5.0-litre AJ-V8 engine.

Now in its third generation this offers not only tremendous power but also great efficiency by incorporating the very latest technology including spray-guided direct injection (SGDI) and dual independent variable cam timing (DIVCT). Like the car itself, the engine is constructed from high-grade, lightweight aluminium, which in the cylinder heads is recycled to reduce the environmental impact of manufacture.

### **New 186mph XKR-S**

Available in both naturally aspirated and supercharged forms from the beginning, the engine is now offered in a third variant in the XKR-S. Based on the supercharged unit in the XKR, revised fuel mapping and an active exhaust have boosted power and torque to 550PS and 680Nm respectively, creating the most powerful Jaguar road car ever. This allows the car to reach 60mph

in just 4.2 seconds and join the exclusive '300km/h' club with a limited top speed of 186mph. Not only extremely powerful but also efficient, the XKR-S emits just 292g/km of CO<sub>2</sub>.

All variants of the XK use the six-speed ZF automatic gearbox with steering wheel-mounted paddles to control the Jaguar Sequential Shift function for greater driver control. In the XKR-S the transmission has been revised in line with the increased power and torque to optimise upshifts and allow for the increased top speed.

The XK's exhilarating driving dynamics are the result of the latest generation of Jaguar's Adaptive Dynamics technology that provides a continuous and seamlessly variable damping strategy to negate the traditional trade-off between ride comfort and handling.

### **Luxury and performance duality**

Adaptive Dynamics performs three main functions; controlling vertical body movement, roll and pitch rates. One hundred times every second, Adaptive Dynamics analyses the thousands of inputs and variables which determine ride and handling characteristics. By also monitoring wheel position 500 times every second, the system is able to achieve the famous Jaguar duality between comfort and sporting appeal. Should the driver wish to alter these characteristics, there is the option of Dynamic Mode, which increases body control, sharpens throttle response and reduces gearshift times.

The two supercharged variants of the XK also benefit from Jaguar's Active Differential Control technology. This uses a multiplate clutch to vector torque to the driven wheel with the most grip. Allied to the ABS and stability control, this allows for the ultimate in traction and precision both mid-corner and at its exit. Non-supercharged models use a mechanical differential, which delivers outstanding levels of grip and stability under power.

All models benefit from the Dynamic Stability Control system which offers four modes: normal, Winter, TracDSC and DSC Off, allowing the enthusiastic driver to choose the level of intervention dependent on road conditions.

The XKR-S model enhances both these electronic systems and the inherent stiffness of the lightweight aluminium architecture to create the most dynamic and exciting Jaguar yet.

### **Upgraded suspension**

The double wishbone front suspension has been comprehensively revised with a new fully-machined steering knuckle. This significantly increases camber and castor stiffness by 0.13 degrees per kilonewton to transform the accuracy and weighting of the steering for greater levels of connection, feedback and precision. Rear suspension geometry has been revised with rear wheel steer optimised for maximum agility while spring rates have been increased at both ends of the car by 28 percent.

The Active Differential has been programmed to reduce steering sensitivity at the very high speeds of which the car is capable, increasing stability and driver control. Bespoke software for Jaguar's Adaptive Damping has been written for the XKR-S, ensuring both total body control and maximum traction and grip. Changes to the TracDSC mode alters intervention levels to allow the experienced driver to explore the outer edges of the performance envelope, rewarded by the motorsport inspired soundtrack from the exhaust, which features an active pneumatic valve.

The suspension changes and Performance exhaust system are available as part of the Dynamic Pack option for the XKR model.

*"The XKR-S encompasses everything a performance Jaguar should be; as capable, precise and thrilling on your drive home as it is at the Nürburgring. Every response delay has been minimised in order to give the car a more connected feel in the manner in which it steers, handles, stops and goes."*

**Mike Cross, Chief Engineer, Vehicle Integrity**

## **XK Interior**

The dual nature of the XK is apparent from the moment the driver enters the cabin. Luxurious and cocooning, the sporting potential is apparent from the moment the Start button pulses red. Pressing it fires the engine into life with a deep, musical reverberation and the Jaguar DriveSelector rises from the centre console as a point of first contact to begin the process of bonding man with machine.

In the latest XK, the cabin has been refreshed with a host of new trim materials including ebony soft-feel paint for the switches, gloss black finish to the centre console and phosphor blue halo illumination and ambient lighting. New veneers, colour combinations and headlining options allow owners to create a cabin ambience precisely matching their requirements.

A new leather-wrapped, multi-function steering wheel has also been added, providing a tactile interface between car and driver, complemented on the XKR-S by 'Jaguar' embossed stainless steel pedals, which are optional on other models.

### **New performance interiors**

Standard on the XKR-S and optional on the XKR and XK Portfolio models are the new Performance front seats. Featuring integrated head restraints and increased lateral and squab support, the new seats hold driver and passenger securely and comfortably in place. The 16-way adjustment of squab, cushion, lumbar and bolster elements is supplemented by memory and heating functions. Unique to the XKR-S is a Carbon patterned and soft-grain leather interior with contrasting micro-piping and stitching. The Jet Poltrona Frau Italian leather headlining that is standard on the XKR-S is offered as an option on other models.

The central seven-inch Touch-screen provides an intuitive interface for the extensive technology that is seamlessly incorporated into the XK, including iPod and USB connectivity and satellite navigation with DVD mapping. The central screen also projects the image from the new reverse parking camera.

## **The 2012 Jaguar XJ**

### **At-A-Glance**

- Pioneering lightweight aluminium construction delivers superior agility and economy
- Bold, beautiful styling re-energises the Jaguar design language.
- The existing range of powerful, efficient powerplants is supplemented by Jaguar's 3.0-litre petrol V6 engine (market specific).
- Available in both standard and long-wheelbase versions, the latter providing even more luxurious accommodation for passengers.
- New Rear Seat Comfort package is available on both wheelbase variants and includes electric recline, lumbar adjustment and massage functions.
- Technology is seamlessly integrated throughout the car and managed via an innovative dual-view central Touch-screen.
- New Executive Package helps allow the long-wheelbase derivative to function more effectively as a mobile business centre.
- Optional Illumination Package offers the ambient lighting effects previously only available on the range-topping Supersport variant.
- New interior colour combinations have been added by customer request.

The original XJ was the last car designed by Jaguar founder Sir William Lyons and the latest car to wear the nameplate is as innovative, beautiful and desirable as its famous forebear.

Revolutionary, not evolutionary, the XJ is truly a product of the 21<sup>st</sup> century and is the clearest indication yet of the singular sense of purpose behind Design Director Ian Callum's vision for the future of Jaguar.

The unique full-length panoramic glass roof that floods the cabin with natural light allows the XJ to offer an unrivalled sense of spaciousness and occasion for driver and passengers and at the same time retain the sleek coupé-like profile and lithe stance for which Jaguars are famous.

### **Lightweight aluminium architecture**

The mould-breaking styling is matched by similarly impressive construction techniques pioneered by Jaguar. The lightweight aluminium structure – 50 percent of which is made from recycled materials – offers improved fuel consumption and reduced emissions. In conjunction with a lifecycle approach to design and manufacture this allows the XJ to minimise its carbon footprint.

The weight saved by the use of aluminium – an average of 150kg compared to its rivals – also has benefits for performance and agility and is complemented by the most advanced, powerful and efficient Jaguar powertrains ever. The choice of engines has been enlarged for the 2012 range with the fitment of a 3.0-litre V6 petrol engine (market specific). All engines are coupled to a shift-by-wire, six-speed automatic transmission controlled by the JaguarDrive Selector or steering wheel-mounted paddles.

### **Contemporary cabin**

The cabin of the XJ blends elegant, contemporary design with the comfort, luxury and unmistakable sporting style of a Jaguar. Chrome and piano black detailing provides an eye-catching contrast to the beautifully-crafted leather and wood veneer surfaces. Both standard and long-wheelbase models are available, for an even more sumptuous and refined experience for rear seat passengers.

Advanced new technology has allowed Jaguar's interior designers to create an environment more akin to a state-of-the-art living space than a car cabin. Stunning 12.3-inch high-definition virtual instruments complement an innovative Dual-view 8-inch Touch-screen that allows the passenger to view DVD movies or TV programmes while the driver is provided with vehicle functions or satellite-navigation directions.

Premium surround sound options include the top-of-the-range 1200W Bowers & Wilkins system that is comparable in audio quality to the best in-home entertainment. Advanced infotainment features also include hard-drive based audio and navigation systems and comprehensive connectivity for portable audio and video devices via the powerful Media Hub.

### **2012 enhancements**

Subtle enhancements to the cabin are now available for the 2012 XJ range to allow greater personalisation and flexibility of use. A new Rear Comfort Pack offers seats that now feature electric adjustment of the backrest recline angle, four-way lumbar support and a massage function. Increased comfort is also provided by new winged headrests, footrests and the ability for the front passenger seat to be stowed away forwards when unoccupied to increase legroom even further.

On the long-wheelbase Portfolio derivative a new 'Executive Pack' transforms the rear of the XJ into a high-speed mobile office space with the provision of fold-down laptop trays and an electric rear sunblind for increased privacy. The package also includes upgraded carpeting, combination wood and leather steering wheel, gloss wood veneer choices and chrome mirror housings.

Jaguar has always listened closely to customer feedback and in the case of the XJ, this has led to a new interior colour combination. Available with the Premium Luxury and Portfolio trim levels the Jet/Ivory option features ivory seating with contrast jet stitching, piping and upper surfaces while the headlining is available in either colour, according to customer preference.

All XJ variants are now available with an Illumination Package derived from that offered as standard on the Supersport model. This comprises illuminated treadplates, boot latch and front and rear air vents.

*“An XJ should be the ultimate in comfort, design and refinement. The bespoke interior changes we have incorporated for the 2012 model make it an even more special car to drive or be driven in.”*

**Ian Callum, Design Director, Jaguar Cars**