





THE FUTURE IS HERE

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F or over 80 years, Jaguar has been globally renowned as a maker of beautiful sports cars. Cars that have always been relevant, at the cutting-edge of technology and exciting to the senses.

The I-PACE Concept is the smartest five-seater sports car and the start of a new era for Jaguar. It's as daringly designed and innovative as the cars that put Jaguar on the map, with technology that enhances our customers' lives. It sets a template for others to follow, just as we have always done.

and more efficient. The Jaguar I-PACE Concept is the first

Transportation will change more in the next decade than it has in the past 50 years and we're prepared for that change. Just as Jaguar always has, we're ready to give our customers the technology they want and need, when they want it. More than that, we're making it smarter, cleaner

step towards our future. The future is now.



TEARING UP THE RULE BOOK

he Jaguar I-PACE Concept previews a production car that will hit roads in 2018. It will be the smartest five-seater sports

car; a performance car, a family car and an SUV all in one. Its groundbreaking design, true Jaguar performance and competitive range and charging times will make it the first real electric alternative to a traditional premium SUV.

Jaguar's design and engineering teams have taken full advantage of the opportunities presented by electrification: a cab-forward, sporting driving position, exceptional interior space and, of course, zero tailpipe emissions and instant acceleration.

The battery pack and motors have been designed and engineered by Jaguar Land Rover

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to deliver outstanding efficiency. With over 500km range on the NEDC cycle, the average user could charge just once a week. Charging is easy and quick, with 80 per cent charge achieved in 90 minutes and 100 per cent in just over two hours using 50kW DC charging.

The interior features premium materials and beautiful, tactile details that highlight British craftsmanship at its best. There is digital craftsmanship too, with two, super-intuitive touchscreens that serve up information where and when the driver needs it. Packed with proven Jaguar sports car technology, the I-PACE Concept features exceptional ride quality, authentic handling and a 0-60mph time of around four seconds.

TOMORROW'S WORLD, TODAY /

The investment in the Formula E racing programme provides a real-world performance testbed for EV technology in a high performance environment.

The series takes place on street circuits in the world's biggest cities - including Hong Kong, Paris and New York. Both the chassis and battery system are standardised, allowing the teams to compete with their own bespoke motor, inverter and gearbox. This programme will accelerate the development of Jaguar's electric powertrains in several areas,

including thermal management, battery efficiency and transmissions.

Technology transfer in Formula E is significantly guicker than in other racing series. For instance, both the I-PACE Concept and the I-TYPE Formula E car use permanent magnet electric motors and pouch battery cell technology. By providing greater insight into electric technologies, the development work on both cars will be directly helping Jaguar Land Rover engineers make better electric vehicles.

REVOLUTIONARY RESEARCH

incorporates all of the learning gained from intensive electrification

From 2012's Jaguar XJ_e plug-in hybrid prototypes to the 2015 Evoque_e project - which is looking at future technologies that could have production potential from 2020 - Jaguar Land Rover's engineers have already amassed a wealth of knowledge into Lithium-ion cell design and chemistries, electric motor design and state-of-the-art battery and thermal management systems.

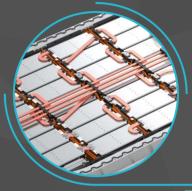
This learning - which will be accelerated by Jaguar's entry into the FIA Formula E Championship - will see a zero-emission, battery electric powertrain join Jaguar Land Rover's world-class family of ultra-clean Ingenium petrol and diesel engines when the production version of the I-PACE Concept hits the road in 2018.



07

WHAT LIES BENEATH

Under the skin, the I-PACE Concept is radically different to a a state-of-the-art electric propulsion system, designed and developed



> BATTERY PACK

The liquid-cooled 90kWh Lithium-ion battery uses the latest pouch cells, chosen because of their high energy density and excellent thermal management. It is positioned as low down as possible and right between the axles, dropping the centre of gravity and improving vehicle agility.



> BATTERY

under all conditions.

> ELECTRIC MOTORS

The I-PACE Concept features two, extremely efficient, synchronous permanent magnet motors arranged concentrically with the transmission to make them as compact as possible. Integrated into the front and rear axles, the two electric motors deliver a total output of 400PS and 700Nm - and high performance all-wheel drive.

This highly sophisticated control unit is fundamental to the I-PACE Concept's performance and range by ensuring that the battery operates at optimum efficiency

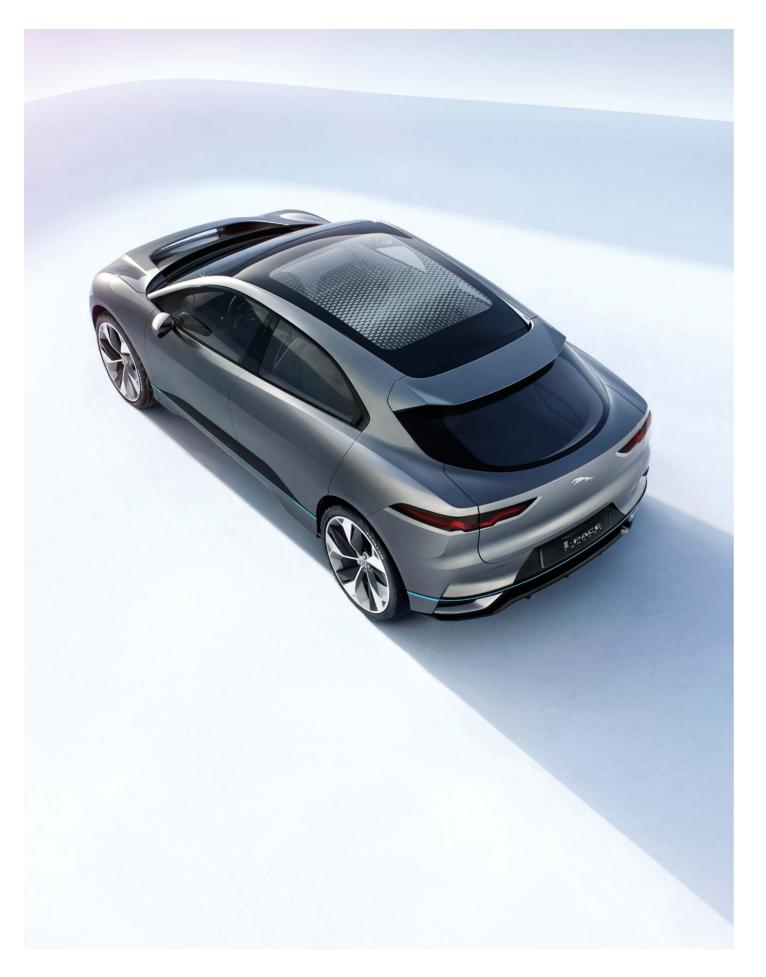


DR WOLFGANG ZIEBART TECHNICAL DESIGN DIRECTOR, JAGUAR LAND ROVER

Bold, brave and undeniably beautiful, the Jaguar I-PACE Concept takes electric vehicle design into a new dimension. Its creator, Jaguar Director of Design Ian Callum, explains why it's been a career-defining project



FUTURE PERFECT



"No other project I've worked on has given me the sheer thrill that this one did"

IAN CALLUM DIRECTOR OF DESIGN, JAGUAR

> ind back to early October, T-minus six weeks before the launch of the I-PACE Concept and Ian Callum is in his office, with his red F-TYPE R parked in full view right outside. "It was a beautiful evening last night," he says. "So I primed the iPhone with music and just went driving. Three hours around Warwickshire, Oxford and the Cotswolds. It was the most fantastic three hours and I did think to myself: 'Why don't people get this pleasure out of driving anymore?"

With Ian Callum it always comes back to the cars. Indefatigable enthusiasm for cars in general and Jaguars specifically is all part of Callum's brand. It's sustained him through a long and illustrious career defined by the creation of timeless, beautiful sports cars; deceptively simple silhouettes he's gone on to translate into a range of timeless, beautiful sports saloons for Jaguar.

The I-PACE Concept is, however, something altogether new: not a traditional sports car, saloon or SUV and absolutely not a traditional Jaguar. Yet his approach to its design is absolutely traditional Callum; it's informed by a sense of history, his scholarly understanding of form language and, inevitably, that overwhelming sense of enthusiasm.

I-PACE CONCEPT / EXTERIOR DESIGN



"People tell me they think the car is going to change," he starts. "Well, as long as we've got eyes in our heads and sit the way we do in cars they're not. What changes with a battery electric vehicle is the absence of mechanical machinery sitting in particular places. That's the opportunity.

"Now, if you give a designer a natural proportion of a sports car, they will tend towards a mid-cabin. We like the idea that people are sitting between the wheels. The old-fashioned notion was of people sitting behind the wheels, as it was with a horse and carriage. Suddenly, cars took on a completely new proportion in designers' eyes. Mid-cabin is now the default silhouette designers want."

Callum is of course best known for front-engined cars, but he's nothing if not unsentimental. Not to mention adamant.

"My favourite is still C-X75; you work around what you have. It liberates you to be able to put the people - who set the visual volume of the car more than anything – where you want them to be, which naturally is further forward. It's practical to do so also; you get more space between the wheels when you're not constrained by the engine package. But also we don't like to see a lot of mass over

the back of the car. You want to push that mass forward, otherwise the car looks like it's falling back. That's just an instinct and so it was incredibly gratifying to have had the opportunity to do just that with the I-PACE Concept."

t's no secret that this is more than just a concept, hence the very public departure from the C-X concept prefix. Consequently, it's more than just an easy-onthe-eye shape. Callum long ago mastered the art of harnessing aerodynamics without becoming a slave to their unrelenting physics. Efficiency in battery electric vehicles manifests itself equally brutally: the more efficient the car, the further the range between charges and largely misplaced anxiety around range has in the past limited the appeal of battery electric vehicles. The I-PACE Concept puts up remarkably little fight against the wind.

"Aerodynamics is a huge challenge,"he says. "You can't deny physics and it's always a sign of a good designer to ensure that the aero is as efficient as it can be within all the constraints, remembering, of course, that one of the constraints is the aesthetic.

"It helped that the car was a whole new type of vehicle and there are no previous references. The profile helps the aero tremendously. If it was a very square, linear car — with vertical lines — the aero becomes naturally much more difficult. The back of the car relative to the front is very high and that is purely driven by the physics.

What air does when it leaves the car is actually the most difficult part to control. The back of the car especially was determined by aero requirements."

There's little doubt that Callum has been inspired by the I-PACE Concept. It wasn't so long ago he was celebrating the launch of the second-generation XF, a landmark



"I think what's really great about this car is that we didn't set ourselves any rules"

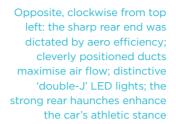
> IAN CALLUM DIRECTOR OF DESIGN, JAGUAR

redesign as the enormously successful first generation car signalled the beginning of Callum's refashioning of Jaguar. And it's very clear - it always is with Ian Callum - that the I-PACE Concept is only the beginning. As he stands up to head to yet another meeting, it's evident it is not just three-hour blasts in that red F-TYPE putting a twinkle in his eye. "I think what's really great about this car is that we didn't set ourselves any rules. Don't try and make it look like an F-TYPE or give it an E-Type boat tail because that's nice to have. Just accept the fact

that this is a whole new vehicle and takes Jaguar's rules to a whole new level."

> "What surprised us was how readily this type of vehicle took to being a Jaguar"

JULIAN THOMSON ADVANCED DESIGN DIRECTOR, JAGUAR



he potential offered by electrification is greeted with great enthusiasm by Jaguar's Advanced Design Director, Julian Thomson, who says that this is probably the most exciting era of car design he's seen in his career. "It's great to see the market opening up suddenly with alternative propulsion systems, but also totally different customers with totally different attitudes about how they use their vehicles."

The future models taking shape in the Advanced Design studio will have to meet those demands. It's a challenge that Thomson clearly enjoys, but it's also one compounded by the fact that, however the design freedom inherent in electric vehicles is exploited, the result must still very obviously be a Jaguar and communicate performance, beauty and agility. The I-PACE Concept makes a very clear statement of intent.

"What surprised us was how readily this type of vehicle took to being a Jaguar," Thomson says. "And how natural it is for Jaguar to do this type of car. It shows how we can translate our values. Proportion, balance and stance are all there – all very important Jaguar characteristics that have to be absolutely perfect – but in a totally different form."







0-60mph takes around 4 SECONDS

Zinch

high-resolution Interactive Driver Display replaces conventional dials

400ps Total power output

from the front and rear electric motors

500+ kilometre range achieved

on a single charge (EU NEDC cycle)







of loadspace in the luggage compartment plus additional space in the front stowage area

530L



Nighthawk wheels in Technical Grey with Gloss Black inserts and a beautiful diamond-turned finish

90kwh

Lithium-ion battery pack, designed and developed by Jaguar Land Rover

4,680mm

Electrification and the cabforward design delivers exceptional interior space within this compact length

90 MINUTES

Time taken to achieve 80% charge using 50kW DC charging

0.29_{Cd}

drag coefficient thanks to a streamlined profile, aerodynamically-optimised rear-end design and details such as the flush door handles



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START STOP

With an unrivalled blend of cutting-edge technology and tactile controls, the I-PACE Concept showcases Jaguar's vision for electric luxury JAGUAR

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19:10 LOS ANGELES CALIFORNIA

2

SCATTERED SHADOW

B

86°

OS ANGELES





"The cab-forward design and electric powertrain were fundamental to the way that we created the interior"

ALISTER WHELAN CREATIVE DIRECTOR, JAGUAR INTERIORS he I-PACE Concept's striking and sophisticated interior redefines elegance and craftsmanship for the digital age, seamlessly blending technology, practicality and beautiful design.

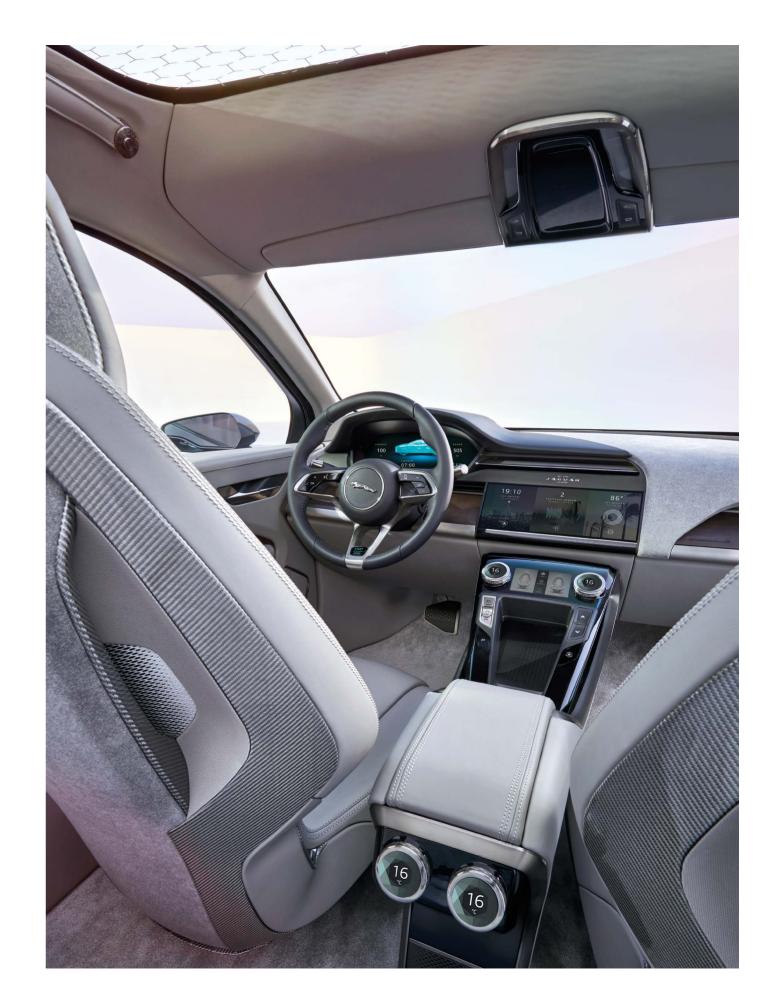
"The cab-forward design and electric powertrain were fundamental to the way that we created the interior," says Alister Whelan, Creative Director, Jaguar Interiors. "They have allowed us to create a spacious and comfortable cabin environment with numerous opportunities for innovative storage and passenger space."

Inspired by the F-TYPE sports car, the interior is driver-focused, mixing Jaguar's legendary sportiness with the I-PACE Concept's purposeful stance. The driving position is much lower than a traditional SUV and this is accentuated by the dramatic, cantilevered centre console and slimline perforated seats.

Clean and uncluttered, the design combines handcrafted, high quality materials with a light colour palette. The Jaguar design team have also chosen to layer authentic materials for a unique look: dark, unvarnished walnut veneers sit flush with metal inserts to create seamless, textural contrasts.

Tactile features and finishes are as beautiful as they are intuitive. A perfect example of this is a new 'flightdeck' approach to the cockpit, featuring three screens – two touchscreens in the centre console and a virtual instrument cluster behind the steering wheel. Combine these with the gearshift buttons integrated into the floating metal legs, and it's easy to see how the I-PACE Concept takes digital technology and usability to a whole new level.

To complete the interior, there's a fulllength panoramic glass roof, which floods the interior with natural light. In the daytime, the lozenge-patterned ceramic print matches the interior surface finishes, all to create a stunning visual effect that gives the I-PACE Concept its own distinct character.



BEAUTIFUL DETAILS

The I-PACE Concept is the first Jaguar to usher in a new interior design language focusing on features that blend digital craftsmanship with mechanical precision



01 BESPOKE-FINISHED ROTARY CONTROLLERS

"There's a wonderfully tactile, haptic feel to the dials - just like a chronograph watch"

02 LASER-ETCHED VENEER

"Beautifully crafted GPS coordinates locate Jaguar's design studio – birthplace of the I-PACE Concept"





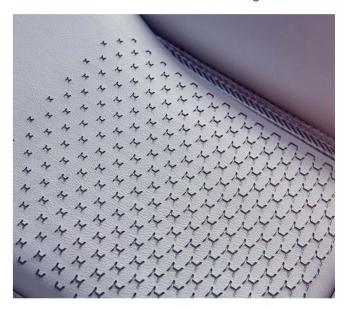


"Showcasing Jaguar's surprise-and-delight design ethos, these details symbolise the warmth and wit unique to this British brand"

I-PACE CONCEPT / INTERIOR DESIGN

03 SIGNATURE LOZENGE PATTERN

"Our new heritage-inspired monogram design on the seats has a contemporary twist. It's a work of art in its own right"





05 MERIDIAN SPEAKER TRIM

"At first, the precision-crafted Meridian lettering catches the eye; look again, and the detailed speaker pattern becomes clear"

PERFECT PACKAGE

electrification, the I-PACE Concept tears up the rule book and offers more space inside than it

> BOOT SPACE

The compact design of the permanent magnet electric motors and the concentric transmission layout saves space compared to a conventional offset configuration. This enables the combination of a spacious cabin with a 530-litre luggage compartment.

> MORE SPACE

The electric vehicle concept delivers exceptional occupant space together with a longer wheelbase within a shorter overall length, and all withina dramatic, cab-forward design.

> REAR SEAT SPACE

The rear seats provide more kneeroom than vehicles from the segment above - and enough to match luxury saloons.

> FLAT FLOOR

Features such as the integrated cooling ducts in the sills and the lack of a transmission tunnel help to deliver a flat floor, while step-through in row-two is also greatly increased.

> FRONT LUGGAGE

Because there's no combustion engine under the bonnet, the I-PACE Concept features a front luggage compartment instead, further increasing stowage space.



With no transmission tunnel or traditional controller to package, the floating centre console features an 8-litre storage compartment plus additional space for items such as phones. Further stowage spaces are located under the rear seats.

ELECTRIC PERFORMANCE

With 400PS and 700Nm of instant, electrifying torque, the I-PACE Concept is a pure Jaguar and a true driver's car





hroughout the process of creating Jaguar's first purpose-built electric vehicle, the engineering team worked to a simple, single-minded mantra: the I-PACE Concept had to be a true driver's car.

To reach this goal, the I-PACE Concept features two incredibly compact electric motors designed by Jaguar Land Rover. Integrated into the front and rear axles, they offer a combined power output of 400PS and 700Nm of torque, which is exactly the same torque rating as the F-TYPE SVR. Together they also enable all-wheel drive, improving dynamics and traction on all surfaces and in all weathers. "Electric motors provide immediate response with no lag, no gearshifts and no interruptions," says Ian Hoban, Vehicle Line Director at Jaguar Land Rover. "Their superior torque delivery compared to internal combustion engines transforms the driving experience.

"With 700Nm and the traction benefits of all-wheel drive, the I-PACE Concept accelerates from 0-60mph in around four seconds."

The I-PACE Concept delivers searing performance, unrivalled ride and handling characteristics. To achieve this, it uses the

"Electric motors provide immediate response with no lag, no gearshifts and no interruptions"

IAN HOBAN VEHICLE LINE DIRECTOR, JAGUAR LAND ROVER





"The I-PACE Concept accelerates from 0-60mph in around 4 seconds"

IAN HOBAN VEHICLE LINE DIRECTOR, JAGUAR LAND ROVER

sophisticated double wishbone and Integral Link suspension setup proven in the XE, XF and the F-PACE.

It will stop just as efficiently, too: an electric brake booster replaces the normal vacuum servo, ensuring maximum flexibility in the brake system control and maintaining excellent pedal feel.

The I-PACE Concept's electric motors and Lithium-Ion battery are designed to deliver the best possible performance and range. The I-PACE Concept delivers a range of more than 500 kilometres on the NEDC cycle and, using 50kW DC charging, achieves zero-to-full charging capability in just over two hours; 80 per cent charge capacity is reached in just 90 minutes.

With this kind of range and efficiency, there's no doubt the I-PACE Concept is an electric vehicle that will perform in the real world and compete with vehicles powered by the best internal combustion engines.

CONNECTED FEEL

The I-PACE Concept's sophisticated suspension design incorporates all of the lessons learnt developing the F-TYPE and F-PACE, setting it apart from all other electric vehicles

sing the proven double wishbone suspension at the front and Integral Link suspension at the rear, the I-PACE Concept sets the class benchmark for ride, handling and refinement.

"When you get behind the wheel, the driving experience reflects the I-PACE Concept's dynamic design," says Mike Cross, Chief Engineer of Vehicle Integrity, Jaguar Land Rover. It's a true Jaguar and we will prove that a zero emission vehicle can be a true driver's car."

> DOUBLE WISHBONE

The high camber stiffness afforded by the lightweight aluminium double wishbone design is fundamental to agility and responsiveness - lateral forces at the tyres' contact patch build very quickly, and the steering responds immediately and precisely to the driver's every input. Because of the superior roll camber gain characteristic inherent in the double wishbone system, the tyres' contact patch is better maintained throughout the suspension's full range of movement, helping to optimise traction in all conditions.

> INTEGRAL LINK

This sophisticated, package-efficient design offers an unrivalled balance of ride, handling and refinement. The Integral Link system enables chassis engineers to tune longitudinal and lateral stiffnesses independently. This means freedom to fully optimise comfort and dynamic attributes without one compromising the other. As a result, the bushes that manage longitudinal forces can be softened for better energy absorption, and therefore a smoother, quieter ride.

POWER TO PERFORM

Designed and developed by Jaguar Land Rover, the battery pack and electric motors enable optimum performance, efficiency and range

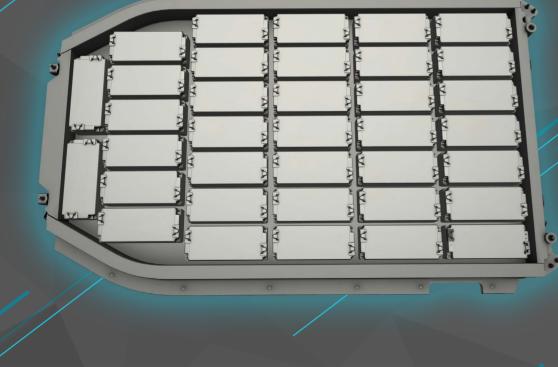
> BATTERY PACK

The I-PACE Concept features a liquid-cooled, 90kWh battery comprising 36 modules enclosed within a structural aluminium housing.

Each module contains the latest Lithium-ion pouch cells, which use Nickel-Cobalt-Manganese chemistry. These cells were selected for their combination of high energy density and because they can maintain a higher current for longer, which means that the battery can deliver both range and sustained performance. Compared to some other cell types, they also offer considerable future development potential. The state-of-the-art thermal management system ensures that the battery remains within its optimum operating temperature window for maximum efficiency and durability.

A heat pump is an integral part of this system: by scavenging heat from the outside air to help warm the vehicle's interior, the heat pump can deliver a double-digit increase in range – even in freezing winter conditions, when needed most.

> "The electric motors are hollow permanent magnet machines which, together with the concentric transmission, offer the best power density and efficiency and the lowest weight: they give the I-PACE Concept sports car performance" Dr Wolfgang Ziebart Technical Design Director, Jaguar Land Rover



> ELECTRIC MOTORS

The I-PACE Concept is powered by two synchronous, permanent magnet electric motors integrated into the front and rear axles. Each generates 200PS and 350Nm of torque and is paired with a concentric, single-ratio transmission.

The driveshafts pass through the centre of the motors because this is the most spaceefficient layout possible: the motors have an outer diameter of just 234mm and measure 500mm long. These compact dimensions deliver packaging benefits within the vehicle, contributing to the I-PACE Concept's impressive luggage compartment volume.

The motors are also light and extremely efficient, making them ideal for this

high-performance electric vehicle. Response is immediate, and this instant torque delivery combined with all-wheel-drive traction enable the I-PACE Concept to accelerate from 0-60mph in around four seconds.

As soon as the driver lifts off the accelerator pedal, the motors provide regenerative braking, comfortably slowing the vehicle down and recharging the battery in the process. Using the Drive button within the transmission controls integrated into the centre console, the driver can increase the level of regenerative braking, if desired. The corresponding increase in deceleration means that, in stop and go traffic, for example, the driver can drive with just a single pedal, with no need to apply the brakes to halt the car.

DIGITAL DETAIL

The I-PACE Concept introduces a new intuitive 'flightdeck' approach where multiple digital inputs combine seamlessly into one holistic driving experience

MAIN TOUCHSCREEN

The primary infotainment interface features high-definition pixel quality. The elegant digital interface was inspired by editorial and graphic design creating an intuitive 'home from home' user experience.

LOWER TOUCHSCREEN

Falling perfectly to hand, this secondary touch point allows occupants to configure infotainment and climate settings, while keeping full-screen information on the main display.

CAPACITIVE SWITCHES

These hidden-until-lit controls enable a simple and engaging drive. To enhance the tactility, the flush switches also feature a 'micro-click' haptic when pressed.

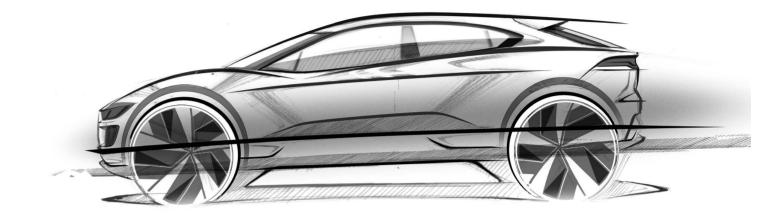
DIGITAL ROTARIES

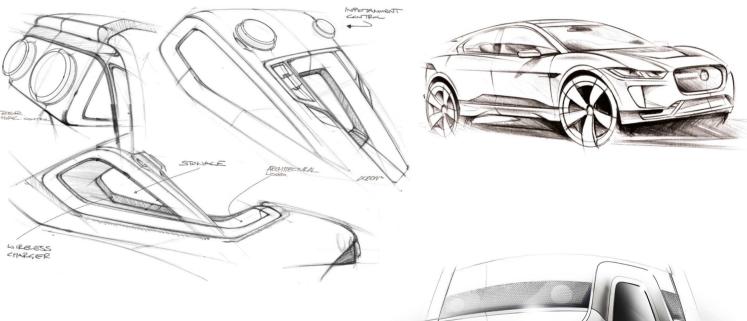
A delightful blend of digital with analogue. Precision-milled aluminium encases unique, HD circular displays and the variable haptics help the driver differentiate between modes.

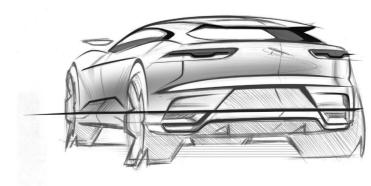
TRANSMISSION CONTROLS

Ergonomically placed and space-efficient buttons replace the traditional shift lever, resulting in an entirely new centre console philosophy focusing on sportiness, exceptional stowage and usability.









JOIN THE REVOLUTION

Be the first to register your interest in the I-PACE. Go to JAGUAR.CO.UK

I WANT ONE >

Images shown are of the I-PACE Concept vehicle. Production vehicle may vary in final styling, finish details and fitment of driver controls.

All performance figures for acceleration, power, speed, range and charging are manufacturer's estimates on best information available at publication. Production vehicles will be tested and certified prior to release, with official figures available prior to any customer order.

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