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MAGAZINE

## 2024 LOTUS ELETRE

THE WORLD'S FIRST  
ELECTRIC HYPER-SUV



May - June 2023 Issue

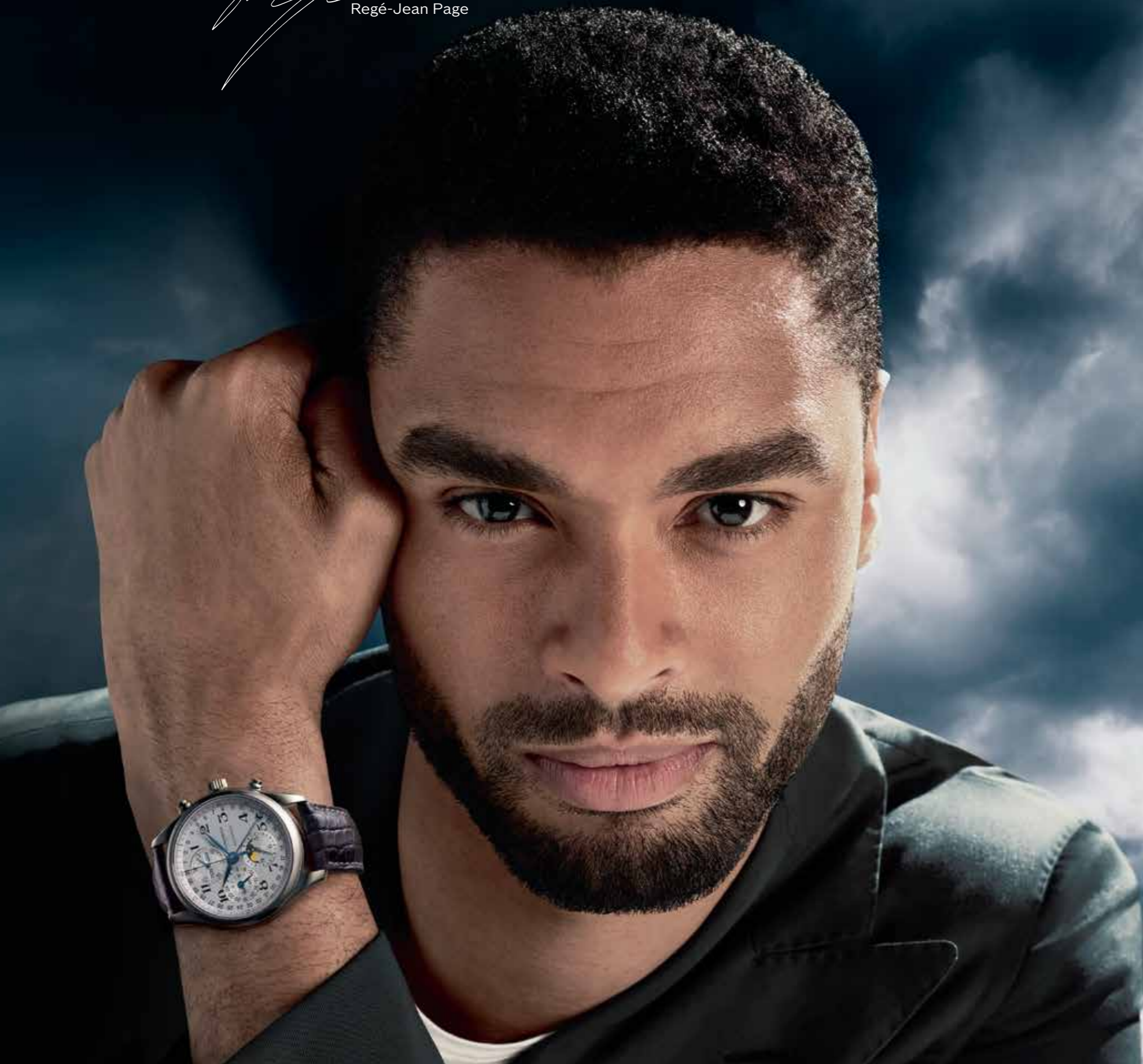


## 2024 Lamborghini Revuelto

The First Super Sports V12 Hybrid HPEV

Elegance is an attitude

  
Régé-Jean Page



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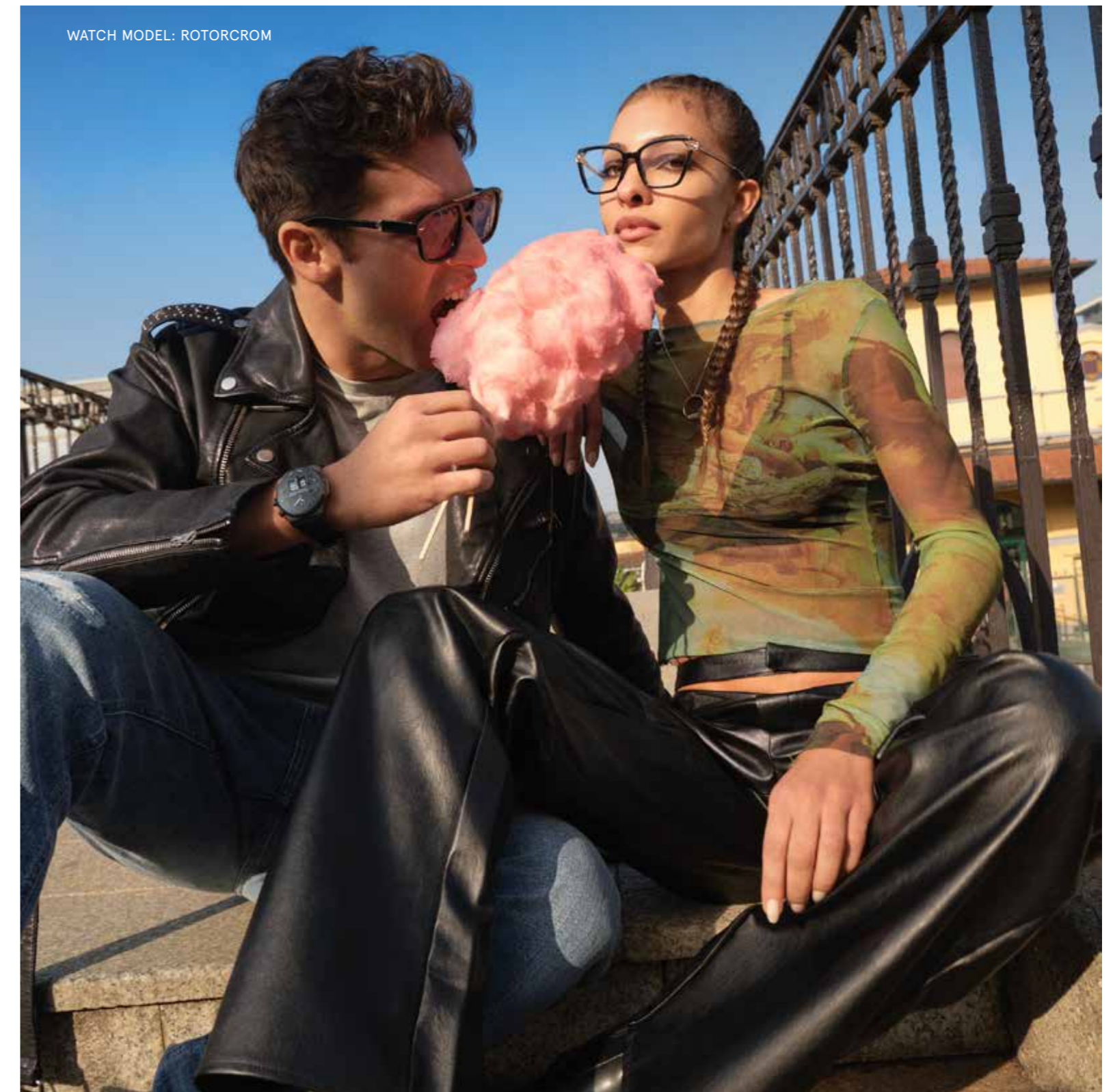
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# 2024 LOTUS ELETRE

The World's First Electric Hyper-SUV



The ongoing transformation of Lotus to a truly global performance car brand has reached its most significant milestone yet.

The all-new and all-electric Lotus Eletre is a striking and progressive Hyper-SUV – the first of a new breed of pure electric SUVs. It takes the core principles and Lotus DNA from almost 75 years of sports car design and engineering, evolving them into a desirable all-new lifestyle car for the next generation of Lotus customers. The company's famed expertise in the fields

of ride and handling, steering and optimised aerodynamics have been carefully and respectfully evolved. The Eletre takes the heart and soul of the latest Lotus sports car – the Emira – and the revolutionary aero performance of the all-electric Evija hypercar, and reinterprets them as a Hyper-SUV.

With a world premiere in London in March 2022, the Eletre is 'Born British, Raised Globally', a collaboration between highly experienced and dedicated Lotus teams in the UK, Germany

and China. They include the product definition and attributes teams at Hethel, the home of Lotus since 1966; the design teams at Lotus Tech Creative Centre (LTCC) in Coventry; the engineering teams at Lotus Tech Innovation Centre (LTIC) in Raunheim; and the Lotus Tech engineering and manufacturing teams in Wuhan. Already thousands of customers around the world have placed deposits to secure their Eletre. Three different versions of the car are available – Eletre, Eletre S and Eletre R – with the choice of two powertrains. Eletre and Eletre S feature

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the 450 kW / 603 hp single-speed version, with a maximum range of 600 km (373 miles). The Eletre R comes with the flagship 675 kW / 905 hp dual-speed system and a maximum range of 490 km (304 miles). Torque figures are 710 and 985 Nm respectively, delivering a 0-62 mph (0-100 km/h) performance of either 4.5 or 2.95 seconds. The 112 kWh battery for both versions has a charging time (10%-80%) of just 20 minutes using a rapid charger.

Lotus has announced more details of its advanced 'digital cockpit' cabin on the Eletre, including the name of the Operating System – Lotus Hyper OS. Lotus is using 'Unreal Engine' technology from the gaming industry, allowing the Lotus User Experience / User Interface (UX/UI) team

to create next-generation real-time 3D content and experiences. The Eletre boasts state-of-the-art processing power which includes two Qualcomm 8155 System-On-Chips.

Lotus Hyper OS provides a seamless interactive experience that offers best-in-class performance in terms of visual effects and interactive feedback, putting the user – driver or passenger – in complete control.

A next-generation Digital Head Unit from global mobility tech company ECARX will debut on the Eletre. It reconfigures the user's in-car experience by providing fully customisable displays, hosted on an advanced Driver Information Module (DIM), and ultra-slim floating one-billion-

colour OLED touchscreen for more realistic graphics and a more futuristic visual effect.

The platform includes ECARX's first dual-chip system to enable server-level computing power for rapid processing and smooth rendering. The resulting immersive multi-screen user experience can be continuously improved during the lifetime of the car via future Over-The-Air (OTA) updates.

Lotus has also revealed it is partnering with HERE Technologies to deliver integrated navigation services for the Eletre. The service includes EV Routing, EV Range Assistant and Predictive Routing, and can be updated via OTA updates.





Lotus also announced a new collaboration with Dolby, creator of the renowned immersive audio experience Dolby Atmos. Dolby Atmos is a new way to enjoy music that takes listening to new heights through unparalleled depth, precision and clarity. Together, Dolby Atmos and the Eletre's KEF speaker system combine to elevate music listening to new levels. Driver and passengers

will feel like they're sitting in the middle of the recording studio alongside the artist. The Eletre is the world's first car to combine Dolby Atmos and KEF Audio.

Matt Windle, Group Vice-President and Managing Director, Lotus Cars, commented: "Confirmation of the pricing and specs of

the Lotus Eletre is a key moment in the transformation of Lotus through our Vision80 strategy. The launch of the Eletre is the natural next step for Lotus. Two-seater sports cars are not for everyone, and we want to offer a Lotus for every stage of your life. The Eletre is the start of that."

In the UK the Eletre is priced from £89,500 (from €95,990 in Europe). The standard spec includes five drive modes, active air suspension, torque vectoring, matrix LED headlights, active front grille and 22-inch 10-spoke forged wheels. The premium cabin takes Lotus interiors to an all-new level of desirability. As standard the Eletre comes with wireless smartphone charging,

12-way electrically adjustable front seats, four-zone automatic climate control and many other features. The 'intelligent cockpit' infotainment system, which includes Apple CarPlay / Android Auto and a 1,380-watt, 15-speaker KEF Premium Audio, is operated via a centrally mounted 15.1-inch full High-Definition OLED centre screen. All versions of the Eletre feature five seats as

standard, with a four-seat version available as part of the Executive Seat Pack.

Also standard is the deployable LIDAR technology, a world-first in a production car which supports end-to-end autonomous driving (AD) technology. Integrated OTA software update capability ensures the system will be fully



ready when individual market regulations allow for the more advanced levels of AD.

In the UK the Eletre rides on 22-inch wheels as standard, though 20-inch and 23-inch are available. There are five different wheel designs and six colours of brake caliper. At launch there are six exterior colours to choose from – Natron Red, Galloway Green, Stellar Black, Kaimu Grey, Blossom Grey and Solar Yellow. More will follow later.

Six unique interiors are available, all offering premium high-grade materials and detail choices. Sustainability has been at the heart of the development. For example, the Eletre is available with a state-of-the-art alternative to leather that is environmentally friendly, odour-free, and lasts longer than genuine leather. In addition, a new man-made fibre has been used in the carpets and boot liner. It is 100% recycled and 100% recyclable, and there is no waste in the production process.

The Eletre S costs £104,500 (from €120,990 in Europe). The enhanced specification includes numerous additional features such as privacy glass, active rear spoiler, configurable ambient lighting, illuminated side sills, soft door close, auto-dimming side mirrors and an air quality system. It also includes a 2,160-watt, 23-speaker KEF Reference Audio.

The flagship version is the Eletre R and is the world's fastest dual-motor pure electric SUV. It has a top speed of 165 mph (265 km/h) and can accelerate from 0-62 mph (0-100 km/h) in just 2.95 seconds. Exclusive to the Eletre R is Track Mode. Compared with other versions, it provides a lowered ride height, and more performance-oriented settings for the dampers and anti-roll control. It delivers a higher level of dynamic performance at longitudinal and lateral limits for the most ambitious drivers. Track mode also includes a fully open active grille and a launch control with instant access to the car's full power. The standard specification of the Eletre R also

includes Lotus Dynamic Handling Pack, Carbon Fibre Pack, gloss black wheels, stainless steel sports pedals, black badging and high-performance tyres. The Eletre R is priced £120,000 (from €150,990 in Europe).

All Eletre customers have further opportunities to customise and personalise their car to their requirements using option packs. Those available at launch include the Lotus Dynamic Handling Pack, Ceramic Brake Pack, Executive Seat Pack, Comfort Seat Pack, Carbon Fibre Pack, Extended Carbon Fibre Pack and Interior Carbon Fibre Pack. Many options from the packs are also available individually. Two Advanced Driver Assistance Systems (ADAS) Packs are also available – the Parking Pack and a Highway Assist Pack.

In the UK the Lotus Eletre will come with a five-year / 100,000-mile vehicle warranty, plus five years of pan-European roadside assistance



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# 2024 LAMBORGHINI REVUELTO

The First Super Sports V12 Hybrid HPEV



In the marque's 60th anniversary year, Automobili Lamborghini presents Revuelto, the first super sports V12 hybrid plug-in HPEV (High Performance Electrified Vehicle). Revuelto defines a new paradigm in terms of performance, sportiness and driving pleasure from its unprecedented new architecture; innovative design; maximum-efficiency aerodynamics; and a new carbon frame concept. An output of 1015 CV is delivered

from the combined power of an entirely new combustion engine together with three electric motors, alongside a double-clutch gearbox that makes its debut on a 12-cylinder Lamborghini for the first time.

The powertrain combines high specific power elements: the new 127 CV/liter combustion engine works synergically with two front axial flux motors

that deliver an outstanding weight-to-power ratio, with a radial flux electric motor positioned above the first eight-speed double-clutch gearbox debuting on a 12-cylinder Lamborghini. The three electric motors are powered by a lithium-ion high specific power (4500 W/kg) battery pack that also supports a fully-electric drive mode.

"The new Revuelto is a milestone in the history



of Lamborghini, and an important pillar in our Direzione Cor Tauri electrification strategy," said Stephan Winkelmann, Lamborghini Chairman and CEO. It is a unique and innovative car but at the same time faithful to our DNA: the V12 is an iconic symbol of our super sports heritage and history. Revuelto was born to break the mold, combining a new 12-cylinder engine with hybrid technology, creating the perfect balance between

delivering the emotion that our clients want with the necessity to reduce emissions."

Carbon fiber, produced via artisan craftsmanship in the Sant'Agata Bolognese factory, is the principal structural element within the new car, used not only in the monofuselage and frame but also for many elements of the bodywork. The extensive use of carbon fiber and lightweight materials,

combined with the potent engine power, contributes to achieving the best weight-to-power ratio in the history of Lamborghini: 1.75 kg/CV. The new Revuelto combines these attributes to deliver performance figures at the peak of its segment: acceleration from 0-100 km/h in only 2.5 seconds and a top speed of more than 350 km/h. These numbers combine with its exceptional dynamism thanks to the introduction of electric



torque vectoring, and four-wheel drive available also in fully-electric drive mode, ensuring the Revuelto super sports car expresses its amplified qualities both on track and in daily driving.

“With Revuelto we take the experience of driving

a Lamborghini to a superior level,” said Rouven Mohr, Lamborghini Chief Technical Officer. “Revuelto takes a significant step forward in terms of reactivity and responsiveness to ensure the most emotive and natural driving in every environment. Revuelto is a car delivering the

highest performance but our objective right from the start was to confirm it at the very summit of driving emotions.”

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# 2024 MASERATI GRECALE FOLGORE

## The Everyday Exceptional



Maserati presents the Grecale, the new SUV and the embodiment of the concept of “The Everyday Exceptional”.

Once again, the new model bears the name of a wind. The Gregale (Grecale in Italian) is a north-easterly Mediterranean wind, and now also an SUV expected to play a major role in the Maserati range.

Naming its cars after the most famous winds of the world is a tradition for the brand.

It all began in 1963 with the legendary Mistral. Ghibli, Bora, Merak and Khamsin would follow in turn. In 2016, the Levante, the first SUV in the Trident brand's history.

Passion, innovation, versatility and style are the

ingredients of the Grecale, soon to be launched with a wide range of powertrains: conventional internal combustion engine, Mild Hybrid and, in the future, Full-Electric.

The new Maserati is the everyday exceptional: the thrill of luxury and pure innovation, in perfect balance. A car with great performance, unique, stylish lines and character, and the highest quality in its interiors, courtesy of the refinement of the materials selected for its finishes. Not to mention the high technical specifications and the 360° sound experience, taking as a starting point the typical Maserati roar of the engine, to the immersive acoustic experience provided by Sonus faber Premium (standard) and High Premium (optional) sound system. Grecale is also an everyday car, an SUV in which to take your

children to school or to commute to work and face up to the everyday without compromise.

The new SUV embodies Maserati's all-Italian audacity in making luxury and exceptional performance part of the daily routine.

The Grecale is an SUV that stands out in terms of spaciousness and comfort, boasting an impressive set of best-in-class features. It is best-in-class in terms of interior space, driveability, handling, acceleration (0-100 km/h in 3.8 seconds / 0-60 mph in 3.6 seconds— on the Trofeo), top speed (285 km/h 177 mph – again on the Trofeo), sound quality, extensive use of materials such as wood, carbon fiber and leather, and excellent standard specifications.

These pillars form the basis for the brand's





research into style, making each and every model clearly recognisable. The inspiration for the Grecale therefore emerges organically from the brand's roots and its iconic character.

**Visual Longevity.** The Maserati approach to design is timeless, characterized by iconic elements with draws of full volume, directly inspired by architecture and art. The cars are sculptural forms devoted to performance, with a unique construction and exclusive proportions that transcend time and fashion.

**Unique by Design.** Maserati is immediately recognizable for the lines of its cars and its style. The approach to design cues evokes the brand's identity. It all begins with the iconic badge: the Maserati Trident. The distinctive design elements

form an integral part of the overall stylistic vernacular, such as in the trapezoidal C pillar and the Trident-inspired design of the new rims.

**A Balance of Opposites.** The design elements are inspired by the brand's homeland and acts as an innovative reinterpretation of Italian architecture and craftsmanship. Not just design, but also know-how, transformed through curiosity and an openness to the stimuli from contemporary beauty, filtered through the characteristic style of Maserati. The uniqueness of the materials used in the car, speak of the artisan tradition that becomes an endeavour of handmade engineering, enriching the interior.

**Colors.** The same colors used in the interior recall natural environments. Color research constantly

emphasises the link with craftsmanship, the desire to create unique transparencies and interferences between light and matter. The colors are somewhat unexpected, once again inspired by manufacturing, while picking up on contemporary environments.

**Innovative by Nature.** The dynamism and interaction of light become the key elements of the design research, oriented towards new and innovative interpretations. The concepts of pure performance and dynamism are combined with a metamorphosis of colors and materials. This theme is taken up especially in the Full-Electric version, for which specific color palettes have been created, based on the Northern Lights and the constant interaction embodied by light. The entire car is transformed and evolves into a process



that is not an end in itself, but is functional and sensitive to environmental issues.

Functionality and emotions come together in the Grecale

The Grecale embodies the intrinsic values of being made in Italy, the values of Maserati and its new era. Ingenuity and the ability to reinvent itself and develop, always keeping an eye on the future without forgetting its DNA.

Starting from the flagship MC20, the brand has been reinvented, embarking on a new stage in its history, and with its new design elements are to be featured on all new models.

The MC20 super sports car provides the Trident brand with a new identity, opening the doors to an entire range of cars whose earliest components can be seen in the Grecale.

It is inspired by architecture not only in terms of its forms, drafting and innovation, but also with regard to the quest for and identification of new materials and textures. The end result is the creation of a unique product in terms of its lines, as well as the sensation we can get from physical contact with it.

Like the MC20, the Grecale now takes on a vertical rather than a horizontal aspect, adapted here for the requirements of an SUV. The front is the new model's most distinctive side,

featuring a low and imposing grille without being excessive, a sign that emphasizes the fact the car is a Maserati. In the Trofeo, the grille is shifted slightly forward, to make it bolder and accentuate its sporty character.

Looking at the profile, the continuous contrast between purity of design and technology jumps out at you, much attention having been paid to the movement from the hood to the rear to bring out its sporty character. The contrast is clear between its highly fluid soft body with meandering, visual forms and its technical components emphasised by the use of carbon fiber. The distinction is highlighted between bodywork, finding purity in its most evident aspect and technical specifications.

# 2024 ASTON MARTIN VALHALLA

## A New Era in Hybrid Supercars



When it comes to luxury cars, few brands are as iconic as Aston Martin. For over a century, this British manufacturer has been synonymous with power, beauty, and soul, producing some of the most sought-after sports cars in the world. And now, with the upcoming release of the 2024 Aston Martin Valhalla, the company is set to take the hypercar market by storm. The Valhalla, named after the legendary Norse hall of the slain, is a true marvel of engineering. It is a hybrid hypercar, powered by a turbocharged V6 engine and electric motors that deliver over 1,000 horsepower. This powertrain is paired with advanced

aerodynamics and lightweight construction, resulting in a car that can go from 0 to 60 mph in less than 2.5 seconds, with a top speed of over 220 mph.

But the Valhalla is more than just a powerhouse of performance. It is also a work of art, with a sleek and aerodynamic profile that is both stunning and functional. The low-slung body and distinctive front grille make a bold statement, while the minimalist yet luxurious cabin is designed to provide a comfortable and immersive driving experience.

One of the most impressive features of the Valhalla is its hybrid powertrain. While some hypercars prioritize raw power over fuel efficiency, the Valhalla strikes a perfect balance between the two. The V6 engine is paired with a pair of electric motors, which provide additional power and torque when needed. This not only improves the car's performance but also reduces emissions and fuel consumption. "The Valhalla is the embodiment of everything that Aston Martin stands for: power, beauty, and soul," said Tobias Moers, CEO of Aston Martin. "This car is the result of years of hard work and dedication from our engineering and





design teams, and we are incredibly proud of what we have achieved. The Valhalla represents the future of Aston Martin, and we can't wait for our customers to experience it for themselves."

Another key aspect of the Valhalla is its advanced aerodynamics. The car features a range of innovative design elements that work together to maximize downforce and minimize drag. These include a front splitter, rear diffuser, and active aero elements that adjust in real-time based on driving conditions. The result is a car that feels stable and planted, even at high speeds.

Inside the cabin, the Valhalla is just as impressive. The minimalist design is both functional and stylish, with a focus on providing a comfortable and immersive driving experience. The seats are crafted from lightweight materials and offer plenty of support, while the advanced infotainment system keeps you connected on the road. The cabin is also surprisingly spacious, with plenty of legroom and headroom for both driver and passenger.

One of the most exciting aspects of the Valhalla

is the way it represents a new era of hypercars. While previous hypercars focused primarily on raw power and performance, the Valhalla takes a more holistic approach. It combines cutting-edge technology with stunning design, resulting in a car that is both thrilling to drive and beautiful to look at.

Of course, with a car like the Valhalla, pricing is always a concern. While Aston Martin has not yet released official pricing details, it is expected to be in line with other high-end hypercars on the market. This means that the Valhalla will likely be out of reach for all but the most affluent buyers. But for those who can afford it, the Valhalla promises to be one of the most thrilling and rewarding hypercars on the market.

The Valhalla's design is equally impressive. The car features a sleek and aerodynamic profile, with a low-slung body and a distinctive front grille. The interior is equally striking, with a minimalist yet luxurious cabin that is designed to provide a comfortable and immersive driving experience. The car also features state-of-the-art technology, including advanced driver assistance systems and a high-tech infotainment system.

"We wanted to create a car that would push the boundaries of what is possible in terms of performance and design," said Marek Reichman, Executive Vice President and Chief Creative Officer at Aston Martin. "The Valhalla is the ultimate expression of our brand, and we believe it will set a new standard for hypercars."

The Valhalla is expected to be unveiled to the public at the 2024 Geneva Motor Show, with deliveries beginning later that year. Pricing has not yet been announced, but it is expected to be in line with other high-end hypercars on the market.

In conclusion, the 2024 Aston Martin Valhalla is a true marvel of engineering, design, and performance. It represents a new era of hypercars, one where power and efficiency are balanced with beauty and style. With its hybrid powertrain, advanced aerodynamics, and luxurious cabin, the Valhalla promises to be one of the most exciting and rewarding hypercars on the market. While it may be out of reach for most of us, it is sure to inspire awe and admiration in anyone lucky enough to see it in action.



# 2024 BMW XM LABEL RED

More Powerful, More Exclusive, More Extravagant



More powerful, more exclusive, more extravagant: Just a few months after production got underway of the new BMW XM, BMW M GmbH presents the flagship version of its first-ever high-performance car with an electrified drive system. The BMW XM Label Red brings together an M HYBRID system with extra power and bespoke design accents that showcase its standout performance attributes to unmistakable effect. With a system output of 748 hp (generated by the combination of a V8 combustion engine with up to 585 hp and an electric motor integrated into the eight-speed M Steptronic transmission producing up to 197 hp), the BMW XM Label Red is the

most powerful BMW M model ever made. It also tops the power rankings in the Sports Activity Vehicle and Sports Activity Coupé segments.

The BMW XM Label Red will celebrate its world premiere at the Auto Shanghai international motor show in April 2023. China is one of the most important sales regions for the BMW XM Label Red, alongside the USA and the Middle East. It can be ordered from dealers from 28 April 2023.

**M HYBRID system with top-level and precisely judged performance.**

The M HYBRID system in the BMW XM Label

Red demonstrates the intoxicating effect of drive system electrification in high-performance models from BMW M GmbH in impressive style. The precisely honed interplay of the electric motor and V8 engine ensures an instantaneous delivery of power that then builds emphatically and continues unabated into the highest reaches of the rev range.

**V8 engine with cutting-edge M TwinPower Turbo technology and classical high-revving character.**

In the BMW XM Label Red, the V8 makes an even greater contribution to the system output generated in tandem with the electric motor.





It produces its maximum output of 585 hp at 5,600 rpm. Peak torque is 750 Nm and is on tap across an extremely wide rev band from 1,800 to 5,400 rpm. The latest generation of the V8 stands out with its extremely rapid power delivery, increased efficiency and minimised emissions. With two electronically controlled and continuously adjustable flaps, the sports exhaust system of the BMW XM Label Red provides an emotionally rich accompaniment to the engine's power delivery with a vibrancy and energy not normally associated with an eight-cylinder unit. Instantaneous power delivery: electric motor with innovative pre-gearing stage.

**Powerful high-voltage battery and Combined Charging Unit.**

The motor draws its energy from a high-voltage lithium-ion battery integrated into the underbody area, which is a product of fifth-generation BMW eDrive technology. It has a usable energy content of 25.7 kWh. Together with the electric motor's excellent efficiency and the system of intelligent energy management, this enables an electric range of 75 – 83 kilometres in the WLTP cycle. The BMW XM Label Red can therefore complete not only journeys around town but also cross-country routes locally emission-free and almost silently. The top speed achievable in pure electric mode is 140 km/h. The Combined Charging Unit of the M HYBRID system enables AC charging at up to 7.4 kW. This means the high-voltage battery can be replenished from zero to 100 per cent charge in 4.25 hours.

**Extroverted design with exclusive details.**

The limited-edition variant of the BMW XM Label Red – only 500 examples of which will be released globally – maximises the exclusivity factor with even more expressive styling.

The distinguishing features of the BMW XM Label Red include an accent band in Toronto Red metallic. The use of red also extends to the model badges and the wheel inserts. Toronto Red metallic for the BMW M kidney grille surround and rear diffuser insert create additional design cues that combine with a body paint finish in BMW Individual Frozen Carbon Black metallic.



# mavi



# 2024 CADILLAC XT4

## Elevates the Drive with Luxury and Tech Additions



Cadillac introduces the 2024 XT4 — a bold, modern take on the compact luxury SUV brimming with curated design updates and an extensive suite of technology and safety features.

“The XT4 continues to be a top-selling vehicle in its class, year over year,” said Rory Harvey, Global Cadillac Vice President. “Its balance of dynamic style, drivability and luxury has made it a favorite for many new Cadillac customers. Now with enhancements including our 33-inch-diagonal LED Color Touchscreen Display and new safety features, it will further demand a second look.”

Luxury and design take precedence from the inside and out.

A more distinguished, contemporary pose is struck

with the 2024 Cadillac XT4 with a new exterior appearance as well as a revamped interior.

“The 2024 XT4’s exterior styling — with signature vertical lighting cues and enhancements — advances Cadillac’s design standard,” said Bryan Nesbitt, executive director, Global Cadillac. “Complemented with a redesign of the interior instrument panel, fashionable embroidery patterns on the seating and a feeling of front row spaciousness — the new XT4 is distinctive and audacious.”

On the exterior, the XT4’s all new front fascia features the unmistakable Cadillac vertical signature lighting which now integrates sleek

refreshed headlamps and daytime running lights. The XT4’s new grille is a fresh reinterpretation of the classic Cadillac chevron embedded in a highly dynamic parametric pattern and crafted with ultra-precision.

Each cell of the grille is unique in shape, size and curvature and dipped in deep black gloss. The Premium Luxury trim has an exclusive grille, wheels, fascia, roof rails and side body accents, where the Sport has its own exclusive fascia, wheels, body-side dark accents and dark finish roof rails. There’s also a new lineup of 18- and 20-inch alloy wheel designs across the portfolio, as well as three new exterior colors<sup>3</sup>: Emerald Lake Metallic, Midnight Sky Metallic and Deep Sea Metallic.





Inside, the XT4 has a more tech-forward ambience with a redesign of the instrument panel that incorporates a bold, 33-inch-diagonal LED display inspired by the Cadillac LYRIQ. It is the interface for a new, advanced Virtual Cockpit System that is the foundation for the vehicle's infotainment system and connectivity features. The XT4's cabin also features authentic brushed aluminum décor across the full width of the newly styled instrument

panel accented with contemporary embroidery patterns on the seats.

Advanced user interface and next-gen connectivity The XT4's new, expansive 33-inch-diagonal LED color touchscreen display is the focal point of the refreshed interior and the command center for its infotainment system<sup>4</sup> and suite of advanced safety features.

This artfully integrated advanced display is capable of a stunning 9K resolution and curves toward the driver in a single continuous screen, spanning the driver's viewing area. It also incorporates a customizable user interface designed to offer a technology-forward and personalized experience, with selectable display themes that can be tailored for the user's mood or personality.

#### Proven performance and driving experience

What hasn't changed with XT4 is the proven performance and responsive driving experience on offer from Cadillac's 2.0L turbocharged engine (235 HP) with Active Fuel Management and an advanced nine-speed automatic transmission with electronic shift control. The Active Fuel Management system helps reduce fuel consumption<sup>11</sup> by temporarily deactivating

some of the engine's cylinders in certain driving conditions.

A Driver Mode Selector is also standard, allowing the driver to tailor the XT4's responses to different driving conditions. Tour, Sport and Snow/Ice modes are available on all trims. Active Sport Suspension also elevates ride and handling dynamics and is exclusively available on XT4

Sport.

Additionally, the XT4's available twin-clutch all-wheel-drive system helps traction and vehicle control, whether the road is dry, wet, snowy, or icy. It is available on all trims and enhances performance by delivering torque to the wheels that need it the most.

# 2024 ROLLS-ROYCE SPECTRE

The Marque's First Fully-Electric Motor Car



In 1900, Rolls-Royce co-founder, Charles Rolls, prophesied an electric future for the motor car. Having acquired an electric vehicle named The Columbia Electric Carriage, he foresaw its suitability as a clean, noiseless alternative to the internal combustion engine – providing there was sufficient infrastructure to support it. Today, more than 120 years later, the time has come for Rolls-Royce Motor Cars to fulfil the prophecy of its founding father.

This prophecy could not have been fulfilled without a more recent promise, when Rolls-Royce CEO, Torsten Müller-Ötvös, made a public commitment to electrification by announcing that he would bring a fully-electric Rolls-Royce to market within the current decade. Charles Rolls' prophecy and Torsten Müller-Ötvös' promise led to an historic moment. In September 2021, the marque confirmed that it had commenced testing

of Spectre, the first Rolls-Royce to be conceived and engineered from the very beginning as an electric car.

To ensure that this transformative motor car was sufficiently prepared for the most demanding consumer in the world – the Rolls-Royce client – the marque devised the most exhaustive testing programme it had ever conceived. Spectre is being subjected to a journey of more than 2.5 million kilometres, simulating more than 400 years of use for a Rolls-Royce. On its completion in 2023, Spectre will represent a prophecy fulfilled, a promise kept and an undertaking completed.

Spectre is not only an historic moment for Rolls-Royce, but also an historic moment for electrification – with Spectre, the marque confirms that the technology has reached a standard that can contain the Rolls-Royce experience. To that

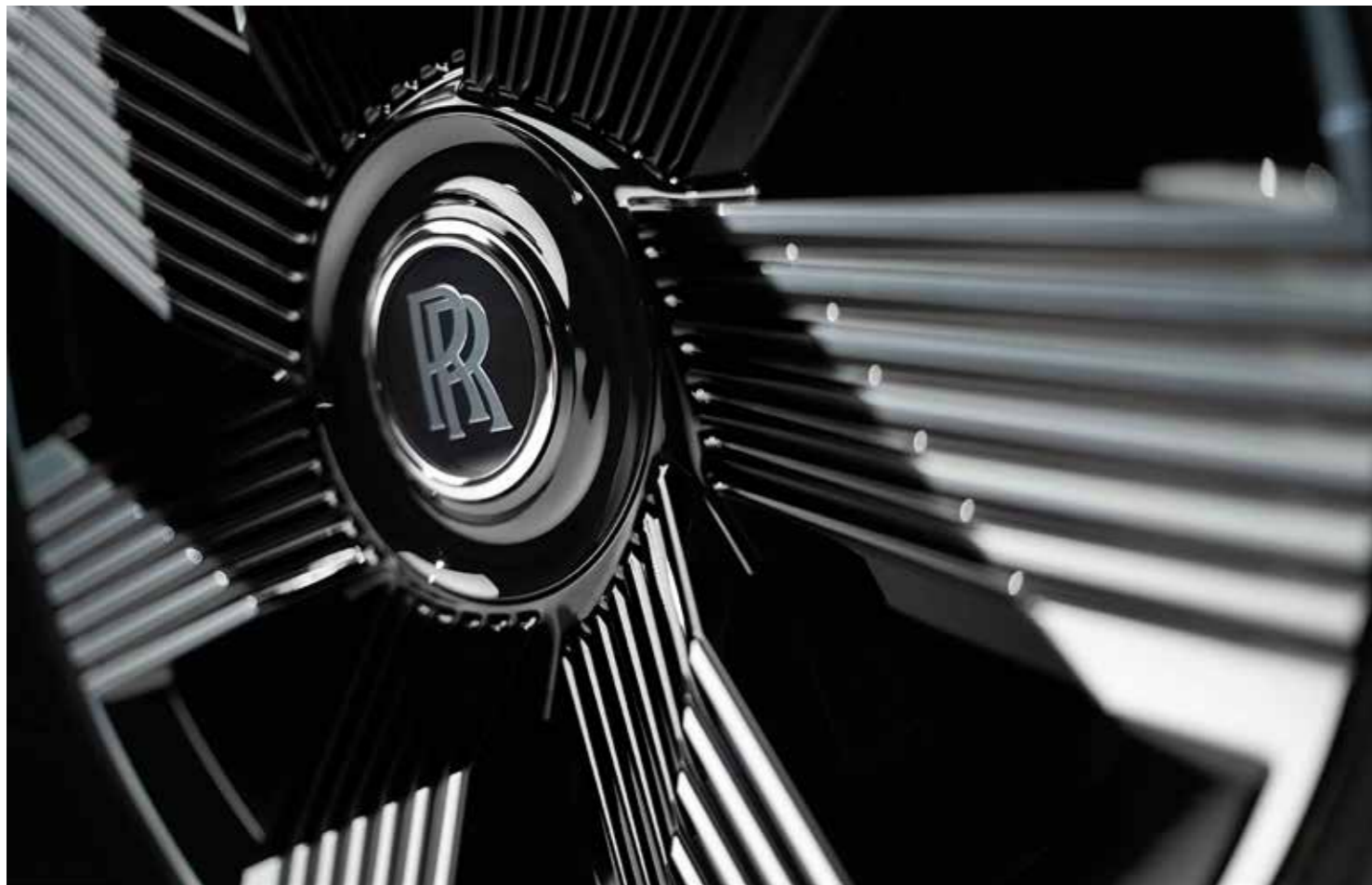
end, Rolls-Royce has confirmed that by the end of 2030 its entire product portfolio will be fully-electric.

## THE FUTURE BEGINS

Spectre is more than a motor car. It is a statement of intent and a symbol of a bright, bold future as Rolls-Royce progresses into an all-electric era. This commitment to an all-electric powertrain will only enhance the Rolls-Royce experience – instant torque, silent running and the sense of one imperceptible gear have defined the characteristics of an extraordinary canon of products dating back to the very first Rolls-Royce, the 1904 10 H.P.

With Spectre, Rolls-Royce has harnessed a revolutionary 'Decentralised Intelligence' system that allows for the free and direct exchange of information between more than 1,000 vehicle functions, further elevating the marque's





celebrated quality of ride. Its designers have captured a contemporary yet timeless aesthetic that significantly progresses the brand's iconography as it embarks on its electric age. Its craftspeople have created a suite of contemporary prêt-à-porter personalisation possibilities, including Starlight Doors and Illuminated Fascia, inspiring clients to realise their own Bespoke visions.

#### DESIGN

In unveiling Spectre, Rolls-Royce sets a new precedent in the creation of an entirely original class of motor car: the Ultra-Luxury Electric Super Coupé. This designation refers to Spectre's indulgent proportions, specified in response to a commitment that there is no greater luxury than that of space.

The marque's designers are deeply rooted in the context occupied by their motor cars. Therefore, their inspiration is drawn from worlds far beyond automotive, including haute couture, modernist sculpture, nautical design, tailoring and contemporary art. In conceiving the principal

sketches for Spectre, the marque's creatives were drawn to modern yacht concepts, specifically the clarity and precision of line, intelligent use of reflection and application of taper to emotionalise silhouettes.

From the front, Spectre's split headlight treatment is intersected by the widest grille ever bestowed on a Rolls-Royce. The vanes of the Pantheon grille are now smoother in section and a flusher fit, designed to help guide the air around the motor car's front.

The relaxed angle and polished stainless steel finish of the grille does much to enhance Spectre's presence using environmental reflection. Along with an aero-tuned Spirit of Ecstasy figurine – itself the product of 830 combined hours of design modelling and wind tunnel testing – the grille enhances the motor car's unprecedented drag coefficient, which at just 0.25cd makes Spectre Rolls-Royce's most aerodynamic motor car, ever.

This intelligent treatment has been married to the iconography of Spectre's spiritual predecessor, the Phantom Coupé. Spectre clearly acknowledges its

forebear with its generous proportions and split headlight treatment – a contemporary Rolls-Royce design tenet. Spectre's sharp daylight running lights emphasise the motor car's imperious two-metre width and are offset with lower lamp clusters that appear darkened, at first glance, but hide jewellery box-like darkened chromium housings for the headlights. To affirm Spectre's expression after dark, the grille is softly illuminated, with 22 LEDs lighting up the sandblasted rear side of each of the vanes, their gentle glow reflected in the polished front surfaces for a subtle and three-dimensional night signature.

In profile, the sharp, vertical bow line at the front of Spectre draws the eye rearward to its monolithic flanks. The lower line – known as the 'waft line' – borrows directly from yacht design. Instead of exaggerating movement with busy detailing or appliques, Spectre's coachwork gently tucks into the sill, lightening the surfacing and creating an uncomplicated sense of motion by reflecting the road passing beneath it, much as the hull of a racing yacht reflects the ocean as it cuts through water. This 'waft line' is the visual representation



of the 'magic carpet ride' and its upwards sweep toward the front is inspired by the gently lifting bow of an accelerating power boat.

The silhouette's most dramatic feature is Spectre's fastback, which recalls the most evocative motor cars and watercraft in history. The seamlessness of the greenhouse surfacing significantly contributes

to achieving the lowest drag coefficient ever for a Rolls-Royce. Following the roofline back, the tail lamps are set into the largest single body panel ever produced for a Rolls-Royce, which extends from the A-pillar to the luggage compartment. The jewel-like vertical tail lamps themselves are colourless for neutrality, in anticipation of the myriad of colourways selected by clients during

the commissioning process. Their precision and reduced dimension complement the generous flow of the bodywork from the muscular shoulders backwards into the tail section with its characteristic tapering plan view.

# PACCO GARA LAUNCH | FERRARI TESTA ROSSA J

A reimagined version of the racing heritage



The Little Car Company, in partnership with Ferrari, has launched a special edition of the Ferrari Testa Rossa J to further celebrate the racing history of the marque. The Ferrari Testa Rossa J is a fully electric 75% scale reproduction of the legendary 250 Testa Rossa, which powered Ferrari to Le Mans glory three times.

Like the original Ferrari Testa Rossa J, The Little Car Company and Ferrari have worked in close collaboration to curate and handcraft this unique special edition. Ensuring that the Pacco Gara meets the supreme standards of the Ferrari moniker, The Little Car Company has continued its close relationship with the engineers at Maranello, with

the Ferrari team even selecting the Pacco Gara name.

The Pacco Gara special edition will bring a range of upgrades to accentuate the racing DNA of the Testa Rossa J. The addition of a racing roll cage offers extra protection for those drivers wishing to enjoy their Testa Rossa J in racing environments. A bolt-on modification, the roll cage will be removable, offering clients the freedom to alternate the appearance of their Testa Rossa J.

Ferrari enthusiasts and collectors will appreciate the finer details as they step into the cockpit. The Pacco Gara offers a Sabelt racing harness for

a true racing feel and is bolted to the chassis and rollhoop. Another nod to Ferrari's monumental racing pedigree, Sabelt harnesses are also used on the Scuderia's F1 cars – a further invitation to drive the Testa Rossa J like the original was intended to be driven. And true to the original 250 Testa Rossa, an additional exterior mirror has been fitted to the driver's side, along with period-correct spotlights. Bringing drivers closer to the feel of the original, the addition of adjustable dampers and brake bias enables them to tune the balance of their Testa Rossa J. Offering a more flexible and personal driving experience, the addition of the adjustable features will only increase the immersive and invigorating nature of the Ferrari Testa Rossa J.

# AUDACITY WANTED.

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Ensuring accuracy with the original vehicle, a tonneau cover over the passenger side has also been incorporated, in the same Ferrari leather as the interior of the car, which is offered in either red or black.

Underneath the glorious aesthetic upgrades are a variety of performance enhancements that offer more power and give the driver of the Testa Rossa

J an enriched racing experience. These discrete changes include drilled brake discs, and a quicker ratio steering rack, all creating a more responsive and track-focused car.

The biggest performance enhancement in the Pacco Gara edition of the Ferrari Testa Rossa J is its increased power to 14kw. Purely a software upgrade, this will take the Testa Rossa J from

16bhp to 19bhp. With the original 250 Testa Rossa a racing icon, a boost in power edges the Testa Rossa J closer to that inimitable performance. Ben Hedley, CEO of The Little Car Company, said: "The Ferrari Testa Rossa J is a modern reimagining of not only one of motorsport's most iconic racers, but also one of the most important cars of the 20th century. As we launch the new special Pacco Gara edition of the Testa Rossa J, a

fine example of our close collaboration with the team at Ferrari, we have given it a racing boost, with exciting advancements to both the aesthetic of the car, and the overall performance.

"Our team has worked meticulously to ensure that each new feature of the Pacco Gara enhances the driving experience of the Testa Rossa J. Every element of the Pacco Gara has been developed

with, and signed off by, the team at Maranello and is focused on paying homage to one of history's great racers, while also offering drivers a substantial, tangible taste of what it feels like to be behind its wheel.

"And for a car as uniquely thrilling as the Pacco Gara Testa Rossa J, it is only right that its public unveiling is in a location equally as stimulating: the

International Concours of Elegance at St Moritz. Between 24-25 February, the Pacco Gara Testa Rossa J will be on display (and available to test drive) in the stunning snow."

# 2024 FERRARI PUROSANGUE

## First Ever Ferrari SUV



Ferrari Unveils the Purosangue: A Revolutionary SUV That Blends Performance and Utility.

Ferrari, the iconic Italian automaker, has officially unveiled its highly anticipated first SUV: the 2024 Ferrari Purosangue. The Purosangue is set to break new ground in the luxury SUV segment by offering a thrilling driving experience, exceptional performance, and unparalleled style.

As the first Ferrari SUV, the Purosangue is a groundbreaking addition to the brand's lineup. The name "Purosangue" is Italian for "thoroughbred," reflecting the vehicle's pedigree and performance capabilities. This new SUV combines the best of Ferrari's renowned driving dynamics with the

practicality and versatility of an SUV.

The Purosangue, which means "thoroughbred" in Italian, combines the performance and luxury that Ferrari is known for with the practicality and versatility of an SUV. This new addition to the Ferrari family is designed to appeal to both traditional Ferrari enthusiasts and new customers who are looking for a high-performance SUV that can handle any terrain.

Under the hood, the Purosangue will feature a range of high-performance engines, including both hybrid and traditional powertrains. The vehicle's powertrain options will deliver a range of performance levels, from a spirited drive to outright

exhilaration. The hybrid model will boast a total output of over 700 horsepower, making it one of the most powerful SUVs on the market.

The Purosangue's exterior design is unmistakably Ferrari, with sweeping lines, aggressive curves, and an athletic stance. The interior features a luxurious, driver-focused cockpit that prioritizes the needs of the driver, with all controls easily accessible and intuitive to use. The cabin also offers plenty of room for passengers and cargo, making it a practical choice for families and those who need extra space. Ferrari's CEO, John Elkann, said, "The Purosangue represents a new chapter in Ferrari's history, and we are thrilled to introduce it to the world. This SUV is a true Ferrari, combining outstanding performance







with exceptional versatility and practicality. We are confident that our customers will love the Purosangue just as much as we do.”

The Purosangue is set to debut in early 2024 and will be available for purchase soon after. With its combination of performance, versatility, and style, the Purosangue is poised to be a game-changer in the luxury SUV market.

The Purosangue will be powered by a V12 engine

that is expected to produce over 700 horsepower, making it one of the most powerful SUVs on the market. It will feature an all-wheel-drive system and advanced suspension technology that will allow it to handle even the toughest terrain. The car will also have a spacious interior, with seating for up to five passengers, and state-of-the-art technology and safety features.

“The Purosangue is not just an SUV, it is a Ferrari through and through,” said Louis Camilleri, CEO

of Ferrari. “It represents a new era for our company, and we are confident that it will be a huge success. We can’t wait for our customers to experience the thrill of driving a Ferrari SUV.”

The Purosangue is expected to be unveiled to the public at the 2024 Geneva Motor Show, with deliveries beginning later that year. Pricing has not yet been announced, but it is expected to be in line with other high-end SUVs on the market.



# SPORTY COMPACT SUV WITH NUMEROUS INNOVATIONS

## The New Mercedes-Benz GLA



- New front and rear design
- LED High Performance headlights, comfort seats in ARTICO/fabric, leather steering wheel and 10.25-inch media display as standard
- New MBUX generation and upgraded Driving Assistance package
- Electrified drivetrains and further developed hybrid powertrain

Mercedes-Benz is significantly upgrading the compact GLA SUV with numerous innovations and more extensive standard equipment. The new radiator grille with vertical louvres and horizontal fin enhances the powerful character. In addition, the bonnet with discreetly suggested power domes underlines the self-confident appearance. The redesigned front bumper with visual underderride protection points to the GLA's off road genes.

Added to this is the modernised light signature in the standard LED High Performance front headlights and the LED rear lights. Mercedes-Benz is expanding the range of options with the new Spectral Blue paint colour and four additional wheel designs. In the basic trim, the new GLA stands on 17-inch five-twin-spoke alloy wheels in high-gloss black with high-gloss turned surfaces. Optional 18- to 20-inch wheels are also available.

The free-standing double screen is one of the highlights of the significantly upgraded interior. It now includes a 7-inch and a 10.25-inch display as standard for the instrument cluster and multimedia screen respectively. Two 10.25-inch wide-screen displays are optionally available. They offer a holistic high-tech experience and enhance the open-plan architecture. The steering wheel of the current generation is upholstered in leather as standard; ARTICO imitation leather is available as an



alternative. For the first time, a heated steering wheel rim is also available for the AMG Line.

### Simplified offer logic with extensive standard equipment

The new GLA is equipped with comfort seats as standard. They are upholstered in ARTICO man-made leather and three-dimensionally embossed fabric in black. They are also optionally available in the trendy sagegrey colour. The Progressive equipment variant offers three interior colours: black, macchiato beige and sagegrey. In the AMG Line, the standard seat cover in ARTICO man-made leather/microfibre MICROCUT is now also available in bahia brown. A total of four upholstery colours are available in the AMG Line: black, bahia brown, sagegrey and the new shade red pepper combined with black. The fabric covering of the comfort seat is made of 100% recycled materials. In the case of the ARTICO/MICROCUT seat cover, this proportion is 65%

in the seat mirror and 85% in the bottom fabric.

Mercedes-Benz has significantly upgraded the standard equipment of the GLA and tailored the offer logic even more precisely to specific customer wishes. For example, in addition to the leather steering wheel and LED front headlights, the basic equipment already includes Highbeam Assist, a backup camera and the USB package. From the Progressive equipment variant onwards, customers also receive the Parking Package and the Mirror Package. Further functional equipment is bundled into packages based on real customer behaviour. In terms of design features such as colours, upholstery, trim and wheels, those interested can configure the vehicles individually.

### Latest MBUX generation with intuitive operation and adaptive software

The GLA now also features the latest generation of MBUX – with newly designed display styles:

while “Classic” provides all relevant driver information, “Sporty” impresses with the dynamic rev counter. “Discreet” reduces the displays to the essential content. In combination with the three Navigation, Assistance and Services modes plus the 10 colour worlds of Ambient Light, there are numerous individualisation options. All previous functions such as Media, Phone, Vehicle etc. are still available. They can be conveniently operated via the touchscreen or the finger pads on the steering wheel.

The revision of the telematics system focused on a new design and improved performance. A new feature is the ability to connect wirelessly with smartphones via Apple CarPlay or Android Auto Wireless. For further connectivity, the GLA now has an additional USB-C port and increased USB charging power. All USB ports are now illuminated.

By activating online services in the Mercedes



me app, the intelligent voice assistant becomes even more capable of dialogue and learning. The system gets to know the driver and remembers their typical settings or routes. At the appropriate moment, it suggests personalised infotainment, comfort and vehicle functions – precisely tailored to the respective driving situation. The driver can, of course, reject this suggestion with the “Do not suggest now” function, or permanently delete it with “Do not suggest again”. The vehicle will remember these wishes. Certain actions can be triggered even without saying “Hey Mercedes”. In addition, the voice assistant can explain vehicle functions. The audio “Tourguide” adds an exciting feature to the travel information as part of the “MBUX Voice Assistant” from Mercedes me – initially exclusively in Germany. When the “Hey Mercedes, start Tourguide” voice command is given, MBUX reads out interesting facts about

places of interest along the route. The system responds to the approximately 3,400 brown signs along German motorways.

The optional Burmester® surround sound system, in conjunction with the latest MBUX generation, now features the immersive Dolby Atmos audio experience, which gives music more space, clarity and depth. In addition, Dolby Atmos adapts to any playback environment, meaning fans can listen to music with unparalleled clarity that matches the artist’s original vision from the studio.

#### Digital extra: new mini-games

With the optional individualisation package for Mercedes me connect services, a new digital extra is also making its way into the GLA. A selection of mini-games specially developed for

the touchscreens and the touch control buttons on the steering wheel turn the compact SUV into a mobile games console: those who have a charging stop or want to pass time waiting can play alone or compete with fellow passengers. Currently, classic games such as Sudoku, Shuffle Puck, Pairs, Match 3 and a quiz are available.

The new GLA models also step up in terms of safety assistance. An upgrade of the Driving Assistance package enables more comfortable control of the Lane Keeping Assist through the Active Steering Control. The next generation of the Parking package also supports longitudinal parking. And it offers 360-degree visualisation for camera-assisted parking. The Trailer Manoeuvring Assist is also available for the GLA for the first time. It facilitates reverse manoeuvring with camera support. The



prerequisite is the trailer hitch with ESP® trailer stabilisation in conjunction with the Parking Package with 360-degree camera.

Expanded range of electrified drive options  
To further reduce consumption and emissions, the petrol engines in the new GLA are electrified throughout. The range includes four-cylinder

units with seven- or eight-speed DCT dual-clutch transmissions as standard equipment. The mild hybrids are equipped with an additional 48-volt on-board power supply for the belt-driven starter-generator. Its briefly available additional power of 10 kW supports agility when starting or is used for quick boosting. The starter-generator also increases comfort:

in addition to low-vibration and low-noise engine starting, it also enables coasting with the combustion engine switched off. In addition, it recuperates during braking and acceleration processes – and thus supplies the 12-volt on-board network as well as the 48-volt battery with electrical energy.

# SUSTAINABILITY INITIATIVES AT AUDI

## Carbon-Neutral Production and the use of Sustainable Fuels



Many new vehicles that leave the Audi plants are delivered with environmentally-friendly R33 fuel. After the plants' filling stations transitioned to R33 Blue Diesel last year, its complement R33 Blue Gasoline was introduced – Audi's way of contributing to defossilization and helping to reach climate targets.

Environmentally friendly R33 Blue Diesel has been available at Audi filling stations in Ingolstadt and Neckarsulm since March 2021. As its complement, R33 Blue Gasoline now replaces conventional E10 gasoline.

### To what percentage is the fuel made from renewable components?

R33 Blue Gasoline and R33 Blue Diesel consist of one third renewable components, based exclusively on residual and waste materials, hence being called second-generation biofuels. The renewable portion of the gasoline consists of 10 percent fuel oxygenates, e.g., ethanol, and 23 percent bionaphtha, which is obtained from

residual materials, such as tall oil, a by-product of pulp production. R33 Blue Diesel consists of 26 percent renewable paraffinic fuel, i.e., HVO (hydrotreated vegetable oil), and 7 percent biodiesel. The remaining 67 percent is made up of fossil fuel.

### How much CO2 emissions can R33 Blue Diesel and R33 Blue Gasoline reduce?

R33 Blue fuels reduce CO2 emissions by at least 20 percent compared with fossil diesel and gasoline in the well-to-wheel analysis, and the figure is rising. By financing certified environmental projects, fuel producers do more to improve the environmental impact of the remaining fossil components in R33 fuels. The aim is to further reduce the global greenhouse gas effect and the use of such fuels is an important step towards Audi's goal of carbon neutrality at its production sites by 2025.

### Which vehicles can use renewable fuels?

R33 Blue Gasoline fully complies with the applicable standard for gasoline, DIN EN 228,

which means that any vehicle approved to run on Super 95 E10 gasoline can use it. R33 Blue Diesel fulfills the most prevalent standard today, EN 590, and is therefore certified for all diesel vehicles – even older ones. R33 fuels are premium fuels that have a positive effect on wear and service life through special additives. Both fuels have achieved consistently positive results in extensive engine and vehicle tests – they even exceed the EN 228/E10 standard in key parameters, such as storage stability and boiling behavior. The high-quality additives also ensure these renewable fuels are very clean and prevent engine corrosion.

### Who developed R33 fuels?

In cooperation with mineral oil manufacturers and energy suppliers, Audi and the Volkswagen Group are contributing their technical expertise to ensure the compatibility of existing engines with renewable fuels (known as reFuels). The R33 fuels were developed in cooperation with Shell and Bosch.

Which filling stations offer R33 Blue Diesel and



### R33 Blue Gasoline?

In addition to plant filling stations from Audi, Volkswagen, and Bosch, R33 Blue Diesel is available at existing public filling stations today. However, Super E10 and diesel fuel with up to 7 percent biodiesel content (indicated by the symbol B7 at filling stations) are still the norm in Germany. Mineral oil manufacturers also plan to use R33 Blue Gasoline in the existing filling station network. The use of reFuels does not require any hardware adjustments to filling stations.

### Why is Audi committed to the use of renewable fuels?

With its "Vorsprung 2030" strategy, Audi is going all in on battery-electric mobility. Renewable fuels supplement this strategy by making internal combustion engines more climate-friendly and are an effective means of defossilization – both in the short term and after 2033, when the last Audi with a combustion engine will roll off the production line in Europe. In the future, Audi, and the Volkswagen Group plan to use more renewable fuels for their vehicles to help reduce

the existing fleet's carbon footprint.

Audi is using R33 fuels at its two German plants to further reduce CO2 emissions at its sites, helping to advance the company's goal of making Audi production sites net carbon neutral by 2025. After all, emissions from company vehicles also count towards a site's emissions. Additionally, fueling company cars with these renewable sources helps reduce emissions at the two German sites in Ingolstadt and Neckarsulm.



# AUDI SAFETY & QUALITY ASSURANCE



Safety has a long tradition at Audi: 75 years ago, DKW engineers rolled a subcompact F7 down a hill in the interest of safety and caused a controlled rollover. Since this first crash test at DKW, one of the four brands from which Audi was created, Audi has regularly claimed the spotlight with new safety features.

To make the results of a crash more reproducible, Audi inaugurated the first crash testing hall at Ingolstadt in 1970. Modified numerous times, it is still in use today. Measurements became more and more precise over time, and this together with the use of camera technology in crash research enabled even better analysis of a car's weaknesses. One patented Audi innovation from this period was the "Procon-ten" system (programmed contraction and tension). In a frontal collision, the steering wheel was pulled back and the front seatbelts tensioned by means of the displacement of the engine toward the passenger compartment

via a system of steel cables and deflection pulleys. Introduced in 1986, the system significantly reduced the driver's risk of head injury and was only discontinued after the introduction of airbags in all models.

In addition to crashes under laboratory conditions, an increasing amount of data from real-world accidents were incorporated into development efforts beginning in the mid-1990s. Audi established a separate department for accident research, the AARU (Audi Accident Research Unit), in 1998, which has grown steadily ever since. In collaboration with doctors at the University of Regensburg, the AARU analyzes accident data and identifies optimization potential for new models. The number of Audi models is growing steadily. Body structures have also become increasingly complex over the years. Crash simulations are therefore now an indispensable part of model development. Whether pedestrian accidents,

frontal or side-impact collisions: Virtually all types of accidents can be simulated today. More than 200 specialists at Audi are working solely on these topics. Each month, they perform some 20,000 crash simulations, often as much as two years before the first prototypes are even built.

Audi models are among the world's safest cars. The brand with the four rings offers a comprehensive package of active and passive safety features in the compact class, too. The Audi A3, for instance, is available with active lane assist, multicollision brake assist and pre sense front. The latter system uses active braking to reduce the impact speed in the event of an accident, thus substantially reducing accident severity or, at lower speeds, preventing accidents altogether. The Audi A3 received the honor "Euro NCAP advanced" four times in 2012, in part for these active safety systems.

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# BMW INNOVATION AND MOBILITY

## The Age of Limitless Driving Experiences



Inventions that set standards. Innovations that are fun and that bring forth a rush of emotions. For more than a century, the BMW Group has stood for groundbreaking innovation. It is part and parcel of our past, present and future. Our employees are designing the vision for an individual mobility of the future that is safe, convenient and automated.

The new driving experience combines powerful software as well as digital products and services with the one-of-a-kind user experience of the BMW iDrive. With our over-the-air Remote Software Upgrade feature, we offer constant access to the latest digital services and functions. The My BMW App and MINI

App connect the smartphone and vehicle. The integration of third-party apps completes the digital customer experience. So what sets our vehicles apart is their extensive connectivity; they stand for connected mobility in all its dimensions, integrate seamlessly into the customers' everyday life and add value with a magic of its own.

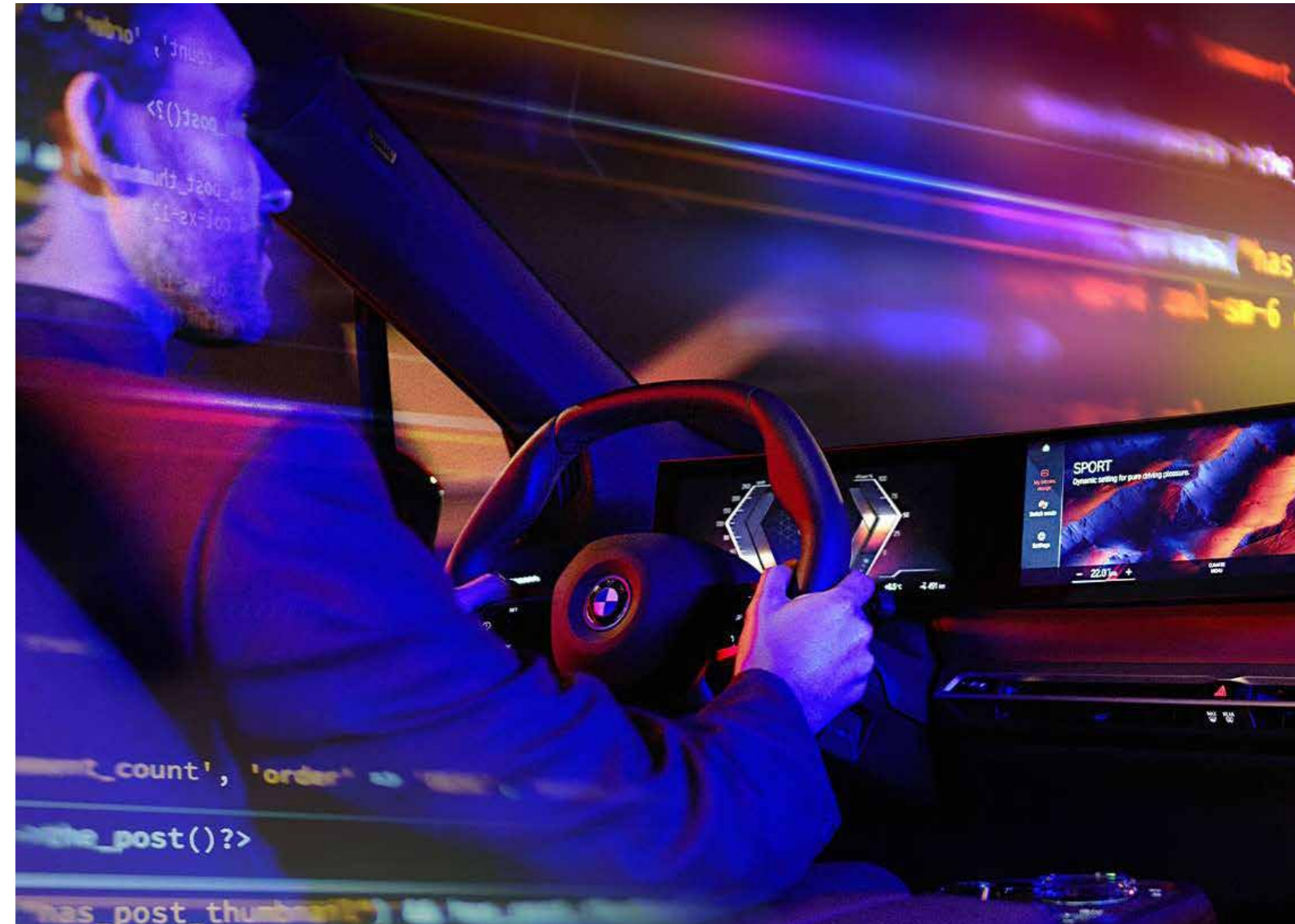
### The Car Becomes a Chauffeur

Already today, driver assistance systems support safe and comfortable driving with more than 40 functions. They can drive simple sections themselves, when the driver can intervene at any time. In future this will no longer be necessary. Automated driving becomes autonomous

driving, the car is transformed from a co-driver into a chauffeur. And the driving experience of the future gains in freedom and leisure time. Already today, our vehicles are capable of Level 2 automated driving.

### Digital Experience

The new driving experience combines powerful software as well as digital products and services with the one-of-a-kind user experience of the BMW iDrive. With our over-the-air Remote Software Upgrade feature, we offer constant access to the latest digital services and functions. The My BMW App and MINI App connect the smartphone and vehicle. The integration of third-party apps completes the



digital customer experience. So what sets our vehicles apart is their extensive connectivity; they stand for connected mobility in all its dimensions, integrate seamlessly into the customers' everyday life and add value with a magic of its own.

### Enjoy Relaxed Parking

The end of drive does not signal the end of the experience. The BMW Parking Assistant uses the state-of-the-art sensor and laser technology to sense the area around the vehicle. It can steer drive and brake autonomously on request.



# 2024 KIA EV9

## Reshapes SUV User Experience with Superior Design and Technology



Kia has today revealed full details of the Kia EV9, its first three-row seat electric flagship SUV that brings fresh thinking, design, and technology to the sector and spearheads the brand's rapid transformation to a sustainable mobility solutions provider in the era of electrification.

Based on the game-changing Electric Global Modular Platform (E-GMP), the EV9 ensures athletic performance, complemented by a targeted all-electric range over 541 km, according to the World harmonized Light vehicle Testing Procedure (WLTP). Ultra-fast 800-volt charging capability enables the EV9 battery pack to be replenished with sufficient charge to power the vehicle for 239 km in approximately 15 minutes.

Numerous technological breakthroughs include the Highway Driving Pilot (HDP) system, available in the Kia EV9 GT-line in the future, enabling conditional Level 3 autonomous driving in selected markets. It also introduces the Kia Connect Store,

which enables customers to purchase digital features and services on demand, giving them the flexibility to choose the features they want and continuously upgrade the capability of the EV9 with Over the Air (OTA) updates at any time.

Ho Sung Song, President and CEO, said: "The Kia EV9 transcends all aspects of traditional SUV thinking and represents the pinnacle of Kia's design and engineering capabilities. Created to meet the needs of all family members, the EV9 also spearheads Kia's rapid transition to a sustainable mobility solutions provider, not just by its advanced EV architecture, but also through the numerous recycled and sustainable materials used in its creation."

Kia will begin offering pre-order of the EV9 for the Korean market in the second quarter of 2023. The Kia EV9 will go on sale in selected global markets from the second half of the year.

Design: reshaping the SUV user experience for millennial families

Guided by the brand's 'Opposites United' design philosophy, the EV9 re-envisions the all-electric SUV with a unique balance of natural and modern elements. The 'Bold for Nature' design pillar, which inspires the combination of elements from the natural and material worlds, has played a pivotal role in forming the design of the EV9.

The Kia EV9's exterior provides a sense of serene contemporary calmness befitting of a sophisticated EV for a new age of sustainable mobility. The vehicle features a 3,100-mm wheelbase, supported by a choice of 21-inch, 20-inch or 19-inch wheels. With an overall length of 5,010 mm, it stands at 1,980-mm wide and 1,755-mm tall, displaying a bold and contemporary appearance while still maintaining its unique character.

The EV9's front exudes confidence, clarity, and



calmness with its clear-cut lines and surfaces. The SUV's signature 'Digital Tiger Face' showcases its unique identity, which is accentuated by the 'Digital Pattern Lighting Grille' and vertical headlamps, giving the EV9 a visionary and futuristic look. The Digital Tiger Face also features two clusters of small cube lamps adjacent to each headlamp. The EV9's 'Star Map' LED daytime running lights (DRL) create a sophisticated animated lighting pattern that will signify Kia's Digital Tiger Face for future EV models, while providing a new illumination experience.

In addition to the standard model, Kia has unveiled the GT-line model design, which features a unique aesthetic that distinguishes it from the standard model. The front and rear bumpers, wheels, and roof rack have undergone a transformation, and the GT-line features a distinctive black color palette exuding a strong and assertive presence, setting it apart from its standard counterpart. Notably, the GT-line includes an exclusive 'Digital Pattern Lighting Grille' that adds an element of dynamism and sophistication to its already impressive design.

Beyond its stunning exterior, the EV9 also delivers on performance with an impressive aerodynamic coefficient of 0.28. This has been achieved through the implementation of several advanced features. These include Kia's first-ever 3D-sculpted underbody cover, which features a convex shape at



the front and a concave shape at the rear, along with aerodynamic wheels, and innovative air curtains integrated into the front bumper. These elements combine seamlessly to provide superior airflow control and optimized performance and efficiency, delivering an exhilarating driving experience.

The Kia EV9 offers a range of seating options that cater to diverse needs. It offers seven-seater and six-seater configurations and a variety of second-row seat options, totaling to four, suitable for different situations such as moving, charging, and resting. The first-row features relaxation seats that ensure a comfortable resting posture. The second row,

for the first time among global EV models, offers four seating options, including 3-seater bench seats, basic-type, relaxation-type, and swivel-type two-seater independent seats, providing customers with a variety of usage methods to choose from.

When equipped with the second-row relaxation seats, the EV9 allows first and second-row occupants to recline together while the SUV is charging. With the swivel seat option, the second-row seats swivel 180 degrees to enable conversations with those seated in the third row. Occupants in the third row are provided with charging points and cup holders.

# NISSAN FUTURES SHOWCASES INNOVATIONS IN SUSTAINABLE MOBILITY

Max-Out all-electric convertible makes physical debut at month-long event



Nissan Motor Co., Ltd. will hold Nissan Futures, an event showcasing how Nissan is shaping the future of sustainable mobility and innovative design, at its Global Headquarters Gallery from Feb. 4 to Mar. 1. As part of the event launch, Nissan today unveiled a physical concept model of its Max-Out EV convertible. The model was previously shown in virtual form as part of the Nissan Ambition 2030 vision announced in November 2021 under the Nissan Futures banner. The Max-Out—which will be on display for the duration of the event—embodies Nissan's ambition to support greater

access to both sustainable and innovative mobility. Nissan Futures will feature interactive customer events, panel discussions with experts, and various displays, all aimed to exhibit its innovations in electrification, vehicle intelligence, power management, vehicle battery reuse, and more. The events and panel discussions will also be available to attend virtually.

Event display and content information is available on the Nissan global corporate website and will be showcased on its YouTube and LinkedIn channels.

Entry to the Nissan Global Headquarters Gallery and participation in the planned events (physically or virtually) will be free of charge.

#### Max-Out concept

Created on the fundamental concept of being one with the car, the Nissan Max-Out two-seater convertible is designed to provide a liberating sense of openness while offering an enhanced, dynamic driving experience. The Max-Out displays Nissan's innovation to develop a diverse range of advanced and striking vehicles, with a clear vision of how they



can benefit both individuals and society.

Expert panel discussions on V2X and battery reuse  
Guests can gain an understanding of the company's decade-long initiatives in Vehicle-to-Everything (V2X) and battery reuse through two panel discussions on Feb. 21 with experts from Nissan and its partners. These panels will explore how Nissan has been leading the industry through its work with partners to prepare for the various challenges and opportunities the coming large-scale transition to electric mobility will bring.

#### Talk 4 Futures weekly panel discussions

Nissan works to engage stakeholders who can provide diverse new perspectives on themes such as sustainability, economy, innovation, and culture. Through Talk 4 Futures, Nissan aims to engage in open dialogue with people of influence—including experts and Gen Z consumers—weekly on Saturdays from 13:30 (JST) at its Global Headquarters Gallery.

Through public events such as Nissan Futures, Nissan continues to create opportunities for two-way dialogue that will enable the company to better understand individual and societal needs and drive towards a cleaner, safer and more inclusive world.





# MB&F

## Horological Machine N10° 'Bulldog'



The relationship between man and watch is as nuanced as the one between man and dog. The best examples of such connections last for years, even decades, shaping lives and stories. In some cases, the watch chooses its owner as much as the other way around. After all, whether it's your first or hundredth time, there's something special about the moment you set eyes on The One. So it is, as they say, with Man's Best Friend. Presenting Horological Machine N°10 'Bulldog'.

A rounded, compact body of titanium, red gold or microblasted stainless steel with black PVD coating coupled with a generous ration of sapphire crystal. Two prominent aluminium time-display "eyes", rolling at anyone who dares look its way. A collar studded with projections that allow you to wind the mainspring or set the time. Stout but flexible "legs" that wrap firmly around your wrist. A massive jaw. And above all, a big heart beating steadily at 2.5Hz (18,000bph).

Just like the creature for which it is named, there's more to HM10 Bulldog than meets the eye. It

hinged jaws open and shut according to the amount of wind left in its mainspring — a fully closed mouth tells you that "Bulldog" is wound down and ready for a nap. If you can clearly see the rows of shining teeth lining the jaws, get ready, because that means "Bulldog" is full of fight, charged up with a 45 hours of mainspring energy. This massive power-reserve indication has been carefully designed and calibrated to consume the least energy possible, allowing HM10 Bulldog to direct its considerable mainspring torque solely towards its suspended balance and its revolving hour and minute domes.

The manual-winding engine of HM10 Bulldog was designed and developed in-house, leveraging the best of MB&F's technical expertise built up over the years; longtime members of the MB&F Tribe will recognise elements that hew closely to the horological lab's best-loved creations. The large suspended balance that hovers just beneath the central dome of sapphire crystal was made possible by the various iterations of this mechanism in the Legacy Machine collection. The massive jaws that indicate the level of mainspring wind are a much-

expanded demonstration of the power-reserve management that was first deployed in the 2014 LM1 Xia Hang. The paper-thin aluminium domes have their roots in the HM3 Frog and were refined in 2014's HM6. Even the grillework design motif in the "ribs" set beneath the balance and in the tail-end of the body echoes the automotive-inspired HM8, HMX and HM5. Taken altogether, the message is clear: HM10 Bulldog is a highly bred machine.

Despite its outsize personality — measuring 45mm across, 54mm from nose to tail and with a maximum height of 24mm — HM10 Bulldog is surprisingly wearable. Its sprung strap attachment "legs" allow the body to fit closely around the wrist, with the calf-leather strap as robust as any well-made leash — fastened with either a folding buckle or Velcro system. HM10 Bulldog is assembled with highly distilled expertise in micro-mechanical engineering. Fitting the requisite elements of timekeeping and time display within such a limited three-dimensional volume, while maintaining top levels of artistry and finish, requires careful balance between technical and aesthetic factors.

# ZENITH BOLDER IN BLACK

## The Defy Skyline & Defy Skyline Skeleton Now In Black Ceramic



**Clad entirely in black ceramic, the DEFY Skyline and DEFY Skyline Skeleton take on a distinct aura of their own. At once brilliant, bold and sleek, the collection's modernistic form takes on a decidedly dark look that's as visually outstanding as it is resilient.**

Introduced in 2022 as the modern successor to the ZENITH DEFY line of rugged and boldly designed wristwatches from 1969, the DEFY Skyline collection builds on its legacy with the same singular edginess and a new level of performance from the Manufacture's latest generation of the seminal El Primero high-frequency calibre. The collection's two main pillars – the DEFY Skyline and DEFY Skyline Skeleton – now take on alluring blacked-out look with two new references crafted entirely in black ceramic – including the bracelet.

Much harder than traditional metals and alloys like stainless steel, ceramic boasts many properties that make it a compelling choice for all-situations watches like the DEFY Skyline and DEFY Skyline Skeleton. Its extreme hardness, which requires diamond-tipped tools to cut the sharp lines of the DEFY Skyline and decorate it with a mix of satin-brushed and polished surfaces, makes ceramic

highly resistant to scratches and visible wear. Unlike blackened metal elements which are simply plated, the ceramic itself is black and will never wear off. Even the integrated bracelet that follows the contours of the case is crafted in black ceramic. A black patterned rubber strap with a blackened steel folding clasp is also included, and swapping between it and the ceramic bracelet is effortless using the quick strap-change mechanism integrated directly in the case back.

The DEFY Skyline Ceramic features a black galvanic dial with a sunray finish, shimmering as the light hits its surface. The entire dial features a geometric pattern, consisting of the ZENITH four-pointed stars that historically featured prominently on the case backs of vintage DEFY references as a "double Z". Evoking the starry night sky, the blackened star-shaped sunken into the dial feature sharp inward facets, with different angles catching light.

For the DEFY Skyline Skeleton Ceramic, the open dial features a blackened large central four-pointed star element, revealing the skeleton movement with black bridges and main plate. An exceptional feat, the Manufacture's engineers successfully incorporated the shape of the open dial into the skeletonisation of the movement's bridges and main plate, forming an integral whole. With its subtle contrast of dark tones, the visual depth further enhanced in this unique skeleton watch with a 1/10th of a second indicator. Both the DEFY Skyline Ceramic and DEFY Skyline Skeleton Ceramic feature faceted polished hands and applied indices filled with white Super-LumiNova for effortless readability - day and night.

Both references are powered by the El Primero 3620 automatic high-frequency manufacture movement, beating at the rate of 5Hz (36'000VpH), providing a 1/10th of a second indicator directly driven by the escapement. Its efficient automatic bi-directional winding mechanism with a blackened star-shaped rotor delivers a power reserve of approximately 60



hours.

With these two new references, the DEFY Skyline welcomes a cutting-edge material that offers the singular silhouette an intriguingly dark facet to be discovered.

The DEFY Skyline and DEFY Skyline Skeleton are available from ZENITH physical and online boutiques, as well as authorized ZENITH retailers around the world.

### ZENITH: TIME TO REACH YOUR STAR.

ZENITH exists to inspire individuals to pursue their dreams and make them come true – against all odds. Since its establishment in 1865, ZENITH became the first vertically integrated Swiss watch manufacture, and its watches have accompanied extraordinary figures that dreamt big and strived to achieve the impossible – from Louis Blériot's history-making flight across the English Channel to Felix Baumgartner's record-setting stratospheric free-fall jump. Zenith is also highlighting visionary and trailblazing women by celebrating their accomplishments and creating the DREAMHERS platform where women share their experiences and inspire others to fulfil their dreams.

# LONGINES SPIRIT FLYBACK



The LONGINES SPIRIT collection continues the tradition of precision instruments created by the brand to accompany the greatest explorers in their conquest of the air, sea and land. It has now been extended to include a chronograph watch with flyback function, testimony to Longines' pioneering role in developing this technology. The new LONGINES SPIRIT FLYBACK exemplifies the pioneering spirit that has driven the watchmaking brand since its earliest days, and is a fitting celebration of adventurers both past and present. The Longines Spirit collection has been expanded with a piece featuring a flyback function, a complication intrinsically linked to the brand's rich heritage. Longines actually equipped its first models with a flyback function in 1925 and filed a patent for this on 12 June 1935. The patent went on to be registered on 16 June 1936: a world first. The particular advantage of flyback is that it gives pilots a practical and fast way of successively timing different flight stages, thus facilitating navigation. In addition, many legendary pioneers have put their faith in Longines to make the impossible a reality. Richard Byrd tops the list of those who have benefited from the brand's expertise. Equipped with Longines instruments, he was the first man to fly over the South Pole, a unique feat echoing the pioneering spirit that has guided the

hourglass brand since its inception. Buoyed by this exceptional heritage, the Longines Spirit Flyback is equipped with cutting-edge technology. A new exclusive Longines calibre, resistant to magnetism and equipped with a silicon balance spring, drives this timepiece. Extremely precise, with a power reserve of 68 hours, this movement is certified as a chronometer by COSC (Contrôle Officiel Suisse des Chronomètres). A transparent case back reveals all the details of the calibre, including a personalised weight engraved with the globe representing the Longines Spirit collection and the name Longines Flyback. A first for this emblematic line.

This new timepiece is also distinguished by its refined aesthetics and particularly meticulous

finishes, which range between satin, matt, polished and engraved details. It features a bi-directional bezel enhanced by a coloured ceramic insert with luminescent markers. The Longines Spirit Flyback is available in a black or blue sunray dial.

Its bronze-shaded hands and numerals, coated with Super-LumiNova®, enable the time to be read in every circumstances. The 42mm steel case has an interchangeable stainless steel bracelet, a brown leather or blue fabric strap. The straps have a folding clasp fitted with a new micro-adjustment system for maximum comfort and a perfect fit. A beige NATO strap is also available.



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