



ASTON MARTIN



AM-RB 003 COUPE

5 MARCH 2019



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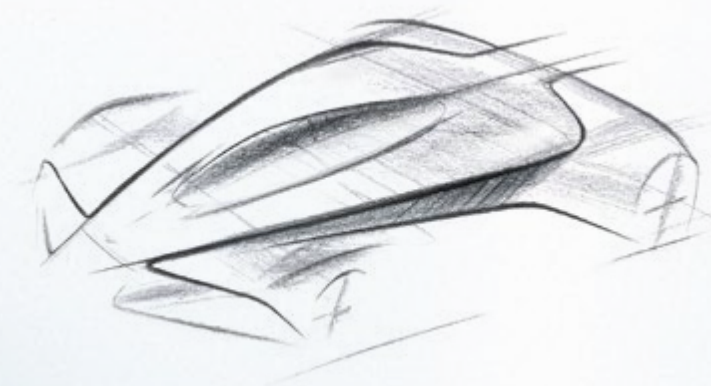
# AM-RB 003 COUPE

**All-new performance-bred predator is the third hypercar in Aston Martin's mid-engine story.**

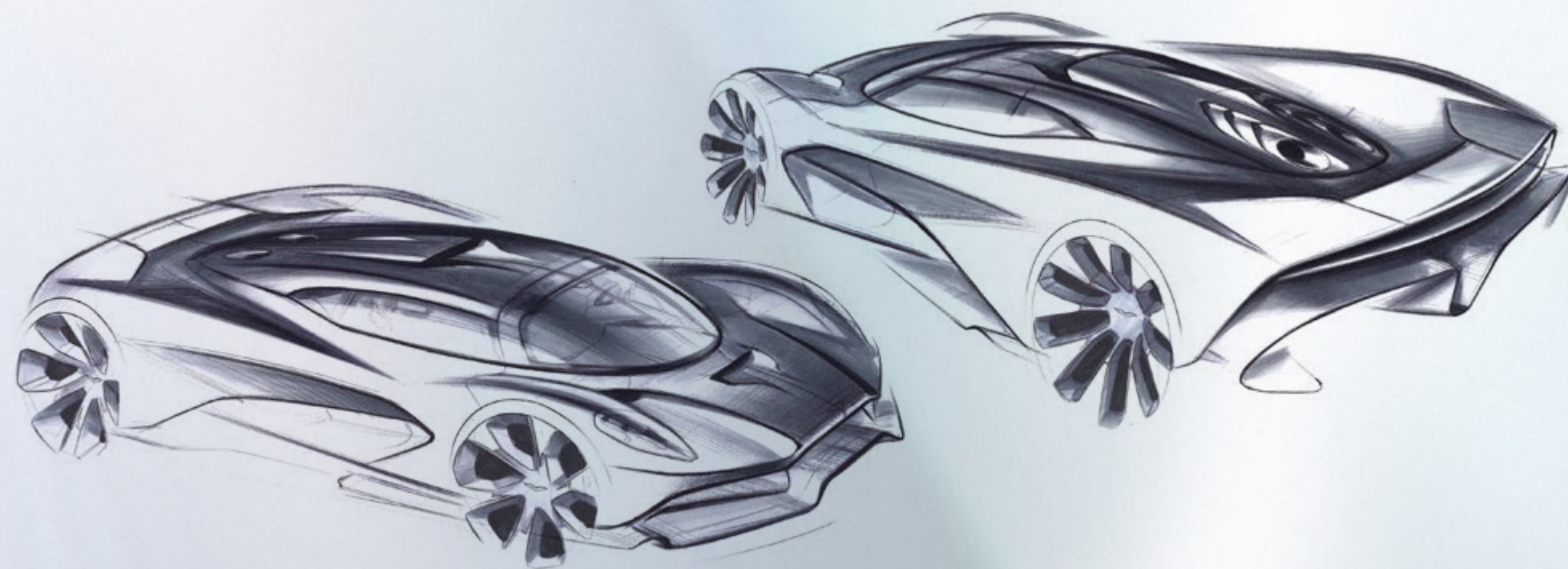
Though making greater concessions to practicality and road use, AM-RB 003 will remain true to that uncompromising engineering ethos, extending the trickle down of genuine state-of-the-art F1™ technology into a car built in larger numbers - but still strictly limited to 500 coupes worldwide – and making a design statement that's second to none.

According to Miles Nurnberger, Aston Martin Director of Design, while AM-RB 003 is heavily influenced by Aston Martin Valkyrie, it is very much its own car: *"We were quite deliberate in AM-RB 003 to not disguise its lineage, but we were equally emphatic that it would be a distillation of Aston Martin Valkyrie and not a dilution."*

*The design isn't as extreme in some areas, but it pushes just as hard in others, and is even taking certain ideas and concepts a step further. That's a natural function of design evolution, but also testament to just how great an influence working with Red Bull Advanced Technologies on Aston Martin Valkyrie has had on our approach to everything that's come since."*



Supersonic Design Sketch





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# AM-RB 003 COUPE

As a direct descendent of Aston Martin Valkyrie, there was never any question over the AM-RB 003 being built around a lightweight carbon fibre structure and clad in carbon fibre bodywork sculpted for maximum aerodynamic effect.

Honed by RBAT and featuring active aerodynamics and morphing aero surfaces, the AM-RB 003 will deliver outstanding levels of downforce in a road-legal car package.

JUST 500 COUPE EXAMPLES OF AM-RB 003 WILL BE AVAILABLE GLOBALLY, WITH THE FIRST CARS ARRIVING IN THE HANDS OF CUSTOMERS IN LATE 2021.



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# AM-RB 003 COUPE

AM-RB 003 will be more suited to road driving than Valkyrie and will be an exceptional fusion of form and function. While class leading performance is clearly of paramount importance, so too is excellent efficiency and packaging.

Therefore, one of the biggest differences between Aston Martin Valkyrie and AM-RB 003 is the size of the cockpit, for it was part of the latter's design brief that it should make greater concessions to usability and comfort. To this end, the AM-RB 003 will have LMP1-style doors, which open forwards taking a section of roof with them to facilitate easier ingress and egress.



AM-RB 003 COUPE



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# POWERTRAIN

## & TRANSMISSION

Powered by an all-new innovative Aston Martin hybrid turbo V6 engine with a combined power output target of c.1000bhp, power will be transferred to the road through an F1-inspired 8-speed dual clutch transmission.

Complementing this exciting new power unit will be the revolutionary Nexcel sealed oil system,

facilitating oil changes in under 90-seconds and the refinement and reuse of the car's engine oil. This innovative system was first utilised on the track-only Aston Martin Vulcan and subjected to numerous Nürburgring 24 Hours campaigns to prove out its performance and durability credentials. Its use on AM-RB 003 will be the first for a road-going car worldwide.





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# CUTTING EDGE TECHNOLOGY

AM-RB 003 will also benefit from next-generation aircraft morphing technology, to create a variable airfoil across the entirety of the rear wing. The technology named FlexFoil™ has been validated by NASA through extensive performance and acoustic flight testing, with Aston Martin the first to implement this cutting-edge aerospace technology in the automotive industry.

The system allows for AM-RB 003's downforce to be changed without changing the physical angle of the entire element, resulting in a seamless design with high performance, improved efficiency and reduced wind noise. Turbulence and the associated drag increase found in current "state of the art" active wing designs is virtually eliminated too.



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# AM-RB 003 COUPE



Across the top surfaces, other aerodynamic demands create a similar shape to Aston Martin Valkyrie, but new lamp shapes at the front and rear ensure it has its own identity. The lamp graphics are unique, but the internals are taken directly from Aston Martin Valkyrie due to their lightness, with the combined weight of all four units totalling less than the weight of one DB11 headlamp.



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# APEX ERGONOMICS

The cockpit itself showcases a bold new design and material philosophy aimed at achieving a reduction in visual clutter and the creation of a uniquely stimulating, dynamic and focused driving environment. Called 'Apex Ergonomics', it relies on the perfect alignment between the centreline of the driver's back, steering wheel and pedals and the careful positioning of other elements throughout the cabin to support this driver focused experience.

A display screen mounted on the steering column allows for the best possible view through the steering wheel without any rim block, while the Infotainment systems utilise 'bring-your-own' technology - delivered via a Smartphone - for maximum efficiency, functionality, simplicity and flexibility.







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# “SON OF VALKYRIE”

Aston Martin is proud to introduce an all-new performance-bred predator that follows the Valkyrie and Valkyrie AMR Pro as the third hypercar in Aston Martin’s mid-engine story.



VALKYRIE

Ultra-Car Road

VALKYRIE AMR PRO

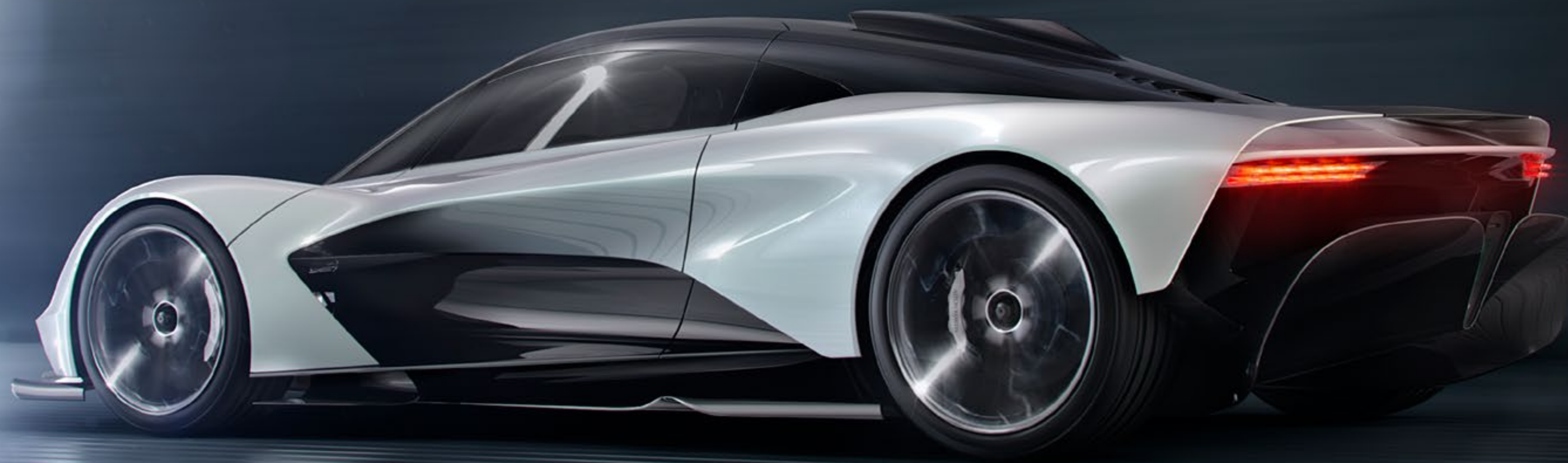
Hard-core Track

AM-RB 003

Hyper-Car Road



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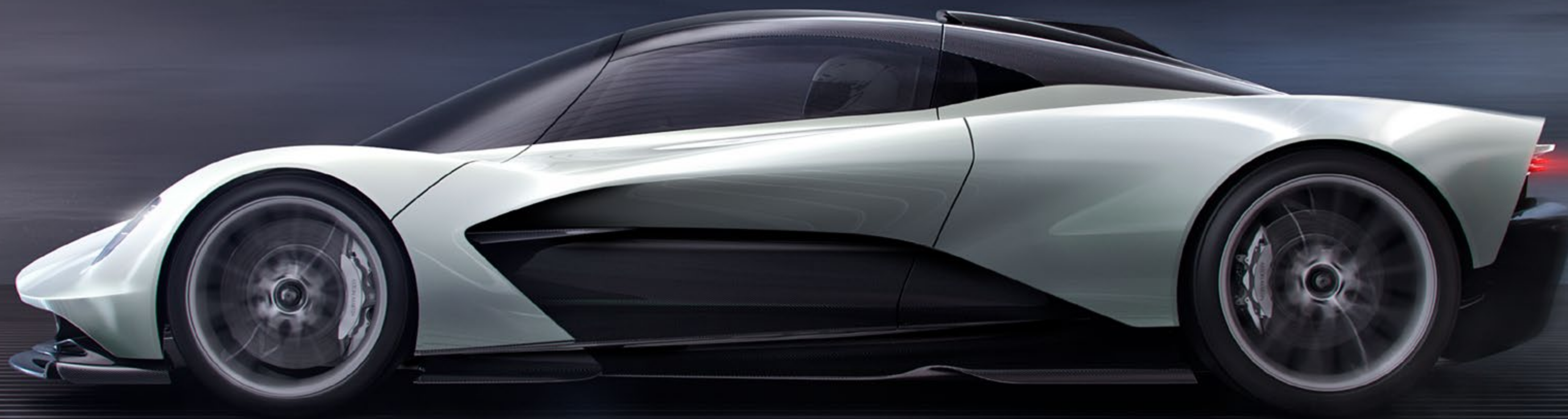


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AM-RB 003 COUPE



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AM-RB 003 COUPE



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FOR FURTHER INFORMATION ON AM-RB 003