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ASTON MARTIN

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ASTON MARTIN

Brough
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THE AMB 001 BY ASTON MARTIN AND BROUGH SUPERIOR

Aston Martin design meets Brough Superior engineering; two iconic and historic British performance brands unite

The track-only, strictly limited edition motorcycle, is the first product of this new partnership





“This is what we believe a cutting-edge motorcycle should be and we are very proud to see the Aston Martin wings on a motorcycle for the first time.

In addition to applying the skills we have developed for cars such as the ground breaking Aston Martin Valkyrie, we have also been able to bring our special expertise in the traditional craft techniques to this project.

The finished product is a truly beautiful motorcycle; a design and engineering work of art.”

Marek Reichman

Aston Martin Executive Vice President
and Chief Creative Officer

With the AMB 001, Aston Martin and Brough Superior are presenting a unique, modern, lightweight and powerful sports bike concept, boasting exclusive technical features, including a chassis configuration with a double wishbone front fork and carbon fibre body work.

Taking their inspiration from the new series of mid-engined Aston Martin cars, the Aston Martin Design team worked on clear principles of form and function, where design and engineering had to work together, resulting in a motorcycle that is a high performance work of art.

Presented in the traditional Aston Martin Racing colours of Stirling Green and Lime Essence with Matte Black wheels, forks and brake assemblies, the AMB 001 features a sublime combination of paint and bare carbon fibre that accentuates the lines of this collectors’ item. As befits the Aston Martin and Brough Superior brands, all of the components have been specially designed using the best processes and materials, including carbon fibre, titanium and billet aluminium.

The bike boasts a strong sculptural body form, beautifully accented by a carbon fibre spoiler - the design of which is derived from the side strake on Aston Martin cars - that runs along the full length of the Stirling Green tank, passing under the saddle and out onto the rear, creating a flowing form along the top of the bike. As the fin passes under the saddle it can be seen through breaks in the Oxford Tan leather pads of the hand-stitched saddle, which combines old techniques and modern technology in one swooping area that is a perfect fit for the human form.

AMB 001 has been designed to display a level of elegance that isn't normally found on racing bikes. Beauty and power is the order of the day for this track-only racer. Aerodynamic wings attached to the cowl on the front of the bike take their direction from the S-Curve on the front of an Aston Martin, providing Aerodynamic downforce.

The AMB 001 boasts a turbo-charged output of 134 kW (180 hp) at just 180 kilos dry weight. This turbo configuration brings an incredible engine response with huge torque in a wide range of engine rpm. This is also the first time that a Brough Superior model is presented with a V-twin turbo-charged engine.

In keeping with its track-inspired pedigree, the AMB 001 is presented with ultra-lightweight Aston Martin wings, which sit under the lacquer of the bodywork on the nose and the tank. These are the same 40 micron stainless steel wings that adorn the Aston Martin Valkyrie.

"Aston Martin may be 107 years-old but the forward momentum of this company is inspiring, for every area of the business but for Design in particular," continued Reichman. "The same people who work on the design of our cars have worked on the AMB 001. These people are absolute experts and have delivered many of the special project cars that we have designed. Unlike at other car companies, our designers have the full breadth of experience and I think this is showcased in this aspirational bike."

The AMB 001 is being built and hand-assembled in the Brough Superior factory in Toulouse, France. Just 100 examples will be made, with an MRSP of 108,000.00 EUR including 20% VAT. First deliveries are set to begin from Q4 2020. For further information please visit:

<https://www.astonmartin.com/en-gb/our-world/partnerships/brough-superior>





TECHNICAL SPECIFICATIONS

ENGINE

DOHC 997cc 8-Valve 88-degree V-twin, Water and Oil cooled, short stroke measuring 94mm x 71.8mm.

It features a semi-dry crankcase lubrication improving efficiency by reducing the mechanical losses.

Transmission includes an extractible 6 speed gearbox an APTC Clutch, and final drive by chain.

Timing is driven by a short Morse chain and a gear train, a compact conception for precision and reliability.

The engine covers are Aluminium CNC, machined from billet.

TURBO

Turbo supercharging is an exclusive feature on a serial production motorcycle.

The variable geometry Turbo is blowing through an intercooler for more efficiency, its modern turbine with low inertia is avoiding the turbo lag that was damageable on the Turbo motorcycles attempts from the 80's.

The powerful engine behavior is plain, with quick response and high torque in a wide range of RPM for riding enjoyment.

The exhaust manifold is made from Inconel, a superalloy chosen for its thermal and mechanical properties.

AKG

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M2

AME

CHASSIS

The innovative chassis aggregates the best techniques such as a CNC machined from solid backbone bolted on the V-twin engine which is a fully load-bearing chassis component, combining stiffness with lightness. Then structural carbon fibre rear sub frame and Titanium interfaces are completing this high-tech chassis.

Wheels are machined from aluminum forgings with their exclusive AMB 001 design

Specific brake system developed by a racing brake specialist, all the component machined from solid, ball bearing action on the radial master cylinder piston, less effort for strong braking power with a perfect feeling.

FRONT FORK

The double wishbone Fior fork machined from billet aluminum dissociates steering and braking functions, resulting in a precise steering and stability that gives a securing feeling. The motorcycle is not diving when braking and remains really stable while cornering with brakes.

The rear swing arm CNC machined as well includes a progressive damping system with rocker.

BODY

The body parts are fully made from carbon fibre, even when non-visible on the painted parts. Some of the body parts are structural and are allowing weight reduction.

The leather seat is handcrafted equally as luxury car interior, with high quality leather and stitching, matching with the handcrafted handlebars grips.

Derived from the AMR mid-engine hypercars, the Aston Martin Wings logos are made from a thin laser cut metal sheet and included in the lacquer layers for a perfect finish.





STANDARD SPECIFICATIONS

- Cosmic Orange Main Body
- Gloss Carbon Belly Pan
- Cosmic Orange Lower ‘V’ and Front Spoiler Underside
- Raw Machined Spine
- Satin Black Forks and Swingarm
- Black Air Filter and Turbo Cover
- Black Coated Exhaust
- Polished Touchpoint Details
- Satin Black Wheels
- Satin Black Engine with Raw Machined Components
- Black Saddle Leather Seat with Alcantara Pads
- Black Alcantara Grips



- Intense Blue Main Body
- Gloss Carbon Belly Pan
- Intense Blue Lower ‘V’ and Front Spoiler Underside
- Raw Machined Spine
- Satin Black Forks and Swingarm
- Black Air Filter and Turbo Cover
- Black Coated Exhaust
- Polished Touchpoint Details
- Satin Black Wheels
- Satin Black Engine with Raw Machined Components
- Black Saddle Leather Seat with Alcantara Pads
- Black Alcantara Grips



Morning Frost Main Body
Gloss Carbon Belly Pan
Morning Frost Lower 'V' and Front Spoiler Underside
Raw Machined Spine
Satin Black Forks and Swingarm
Black Air Filter and Turbo Cover
Polished Touchpoint Details
Satin Black Wheels
Satin Black Engine with Raw Machined Components
Conker Saddle Leather Seat with Oxford Tan Leather Pads
Conker Saddle Leather Grips



Xenon Main Body
Gloss Carbon Belly Pan
Xenon Lower 'V' and Front Spoiler Underside
Raw Machined Spine
Satin Black Forks and Swingarm
Polished Air Filter and Turbo Cover
Polished Touchpoint Details
Satin Black Wheels
Satin Black Engine with Raw Machined Components
Black Saddle Leather Seat with Grey Alcantara Pads
Grey Alcantara Grips



Xenon Satin Main Body
Gloss Carbon Belly Pan
Xenon Satin Lower 'V' and Front Spoiler Underside
Raw Machined Spine
Satin Black Forks and Swingarm
Black Air Filter and Turbo Cover
Polished Touchpoint Details
Polished Wheels
Satin Black Engine with Raw Machined Components
Black Saddle Leather Seat with Grey Alcantara Pads
Grey Alcantara Grips



China Grey Main Body
Gloss Carbon Belly Pan
China Grey Lower 'V' and Front Spoiler Underside
Raw Machined Spine
Lime Essence Springs
Satin Black Forks and Swingarm
Polished Air Filter and Turbo Cover
Polished Touchpoint Details
Polished Wheels
Satin Black Engine with Raw Machined Components
Black Saddle Leather Seat with Grey Alcantara Pads
Grey Alcantara Grips



Ultramarine Black Main Body
Gloss Carbon Belly Pan
Hyper Red Lower 'V' and Front Spoiler Underside
Raw Machined Spine
Hyper Red Springs
Satin Black Forks and Swingarm
Black Air Filter and Turbo Cover
Polished Touchpoint Details
Polished Wheels
Satin Black Engine with Raw Machined Components
Black Saddle Leather Seat with Grey Alcantara Pads
Grey Alcantara Grips



Skyfall Silver Main Body
Gloss Carbon Belly Pan
Skyfall Silver Lower 'V' and Front Spoiler Underside
Raw Machined Spine
Satin Black Forks and Swingarm
Polished Air Filter and Turbo Cover
Polished Touchpoint Details
Satin Black Wheels
Satin Black Engine with Raw Machined Components
Black Saddle Leather Seat with Grey Alcantara Pads
Grey Alcantara Grips



Hyper Red Main Body
Gloss Carbon Belly Pan
Hyper Red Lower 'V' and Front Spoiler Underside
Raw Machined Spine
Satin Black Forks and Swingarm
Black Air Filter and Turbo Cover
Polished Touchpoint Details
Satin Black Wheels
Satin Black Engine with Raw Machined Components
Black Saddle Leather Seat with Alcantara Pads
Black Alcantara Grips



DESIGNER SPECIFICATIONS

Sterling Green Main Body
Gloss Carbon Belly Pan
Lime Essence Lower ‘V’ and front Spoiler Underside
Raw Machined Spine
Satin Black Forks and Swingarm
Polished Air Filter and Turbo Cover
Black Touchpoint Details
Satin Black Wheels
Satin Black Engine with Raw Machined Components
Conker Saddle Leather Seat with Oxford Tan Pads
Conker Saddle Leather Grips



DESIGNER SPECIFICATIONS

Carbon Main Body with Red Lacquer Gradient

Gloss Carbon Belly Pan

Gloss Carbon Lower ‘V’

Black Anodized Spine

Gloss Black Forks and Swingarm

Polished Air Filter and Turbo Cover

Black Touchpoint Details

Gloss Black Wheels

Gloss Black Engine

Black Saddle Leather Seat with Black Alcantara Pads

Black Alcantara Leather Grips

Red Anodized Front Brake Hub



DESIGNER SPECIFICATIONS

Gloss Carbon Main Body

Gloss Carbon Belly Pan

Gold Foiled Lower ‘V’

Gloss Black Fuel Tank and Front Spoiler

Raw Machined Spine

Satin Black Forks and Swingarm

Gold Air Filter and Turbo Cover

Black Touchpoint Details

Gold Wheels

Satin Black Engine with Raw Machined Components

Black Saddle Leather Seat with Black Alcantara Pads

Black Alcantara Grips



DESIGNER SPECIFICATIONS

Jet Black Main Body
Gloss Black Tinted Carbon Belly Pan
Gold Foiled Lower ‘V’ and front Spoiler Underside
Gold Foiled Spine
Satin Black Forks and Swingarm
Gold Air Filter and Turbo Cover
Gold Touchpoint Details
Satin Black Wheels
Satin Black Engine
Black Saddle Leather Seat with Woven Black Leather Pads
Black Saddle Leather Grips



DESIGNER SPECIFICATIONS

Maximum Orange Main Body
Gloss Carbon Belly Pan
Gloss Carbon Lower ‘V’
Gold Foiled Spine
Satin Black Forks and Swingarm
Gold Air Filter and Turbo Cover
Gold Touchpoint Details
Satin Black Wheels
Satin Black Engine
Black Saddle Leather Seat with Mocha Tan Nubuck Pads
Mocha Tan Nubuck Grips
Gold Anodized Front Brake Hub

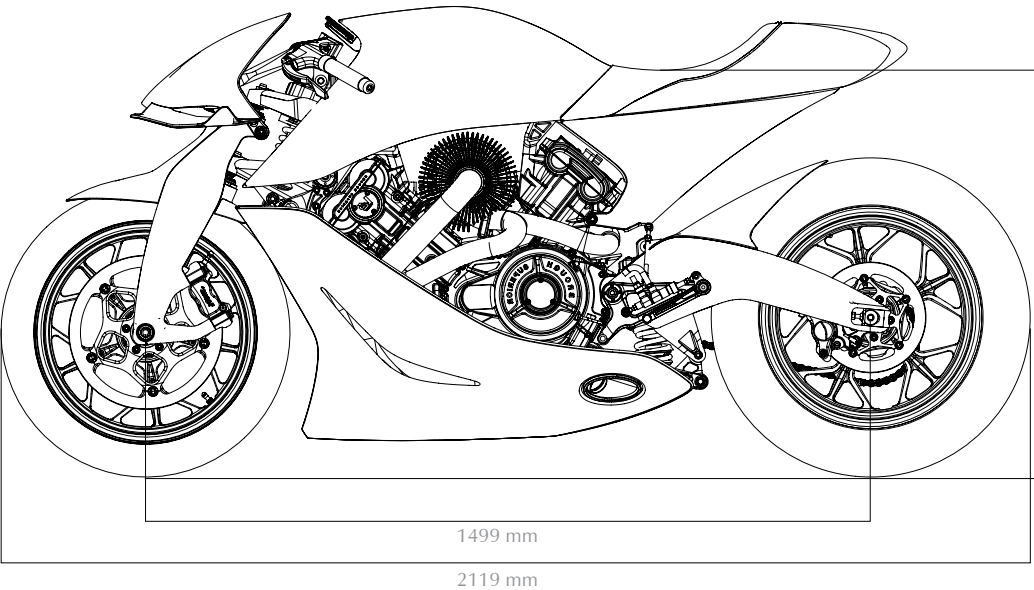
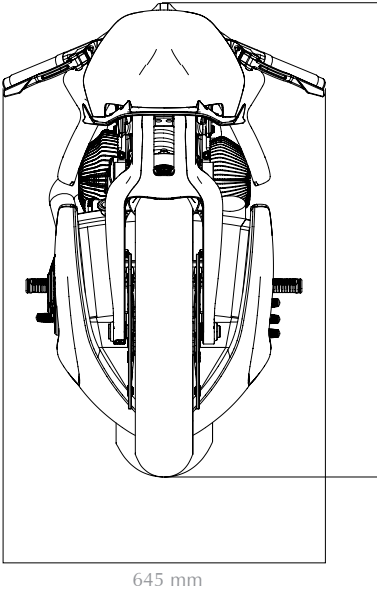


DESIGNER SPECIFICATIONS

Mako Blue Main Body
Gloss Carbon Belly Pan
Mako Blue Lower ‘V’
Copper Spine
Gloss Black Forks and Swingarm
Copper Air Filter and Turbo Cover
Copper Touchpoint Details
Gloss Black Wheels
Satin Black Engine
Black Saddle Leather Seat with Bronze Metallic Leather Pads
Bronze Metallic Leather Grips
Bronze Anodized Front Brake Hub



TECHNICAL SPECIFICATIONS



ENGINE

ENGINE	997cc watercooled dohc 88° V-twin four-stroke with four valves per cylinder and composite chain / gear cam drive
DIMENSIONS	94mm x 71.8mm
POWER	180 Hp
GEARBOX	6-speed
CLUTCH	Multiplate oil-bath clutch with hydraulic operation, APTC slipper clutch
FRAME TYPE	CNC Aluminium frame with structural engine and carbon fibre body

CHASSIS

FRONT SUSPENSION	Fior-type CNC Machined Aluminium fork with twin articulated triangular links and Preload and rebound adjustable monoshock with 112mm travel
REAR SUSPENSION	CNC Machined Aluminium Swing Arm pivoting in engine crankcases, with monoshock adjustable for preload and rebound damping and progressive rate link with 124mm travel
HEAD ANGLE /TRAIL	23.9° with 102.6mm trail
FRONT BRAKE	2 x 320mm Stainless Steel discs with 2 x four-piston radial calipers
REAR BRAKE	1 x 230mm Stainless Steel disc with 1 x two-piston caliper
WHEELS	Machined aluminium wheels from forged (5 spokes)
FRONT TYRE	120/70 ZR17 58W on 3.50 inches
REAR TYRE	200/55 ZR17 78W on 6.25 inches
WEIGHT	180kg dry



ASTON MARTIN

Aston Martin Lagonda is a luxury automotive group focused on the creation of exclusive sports cars and SUVs.

The iconic brand fuses the latest technology, exceptional hand craftsmanship and timeless design to produce models including Vantage, DB11, DBS Superleggera and DBX, our first SUV.

Based in Gaydon, England, Aston Martin designs, creates and exports cars which are sold in 54 countries around the world.

The company manufactures in two facilities, Gaydon, England and St Athan, Wales.



Brough Superior Motorcycles was established in Nottingham, England, in 1919, by George Brough, Brough Superior was the fastest, best-looking, most expensive brand to be ridden by thrill-seeking record-breakers and gentleman riders from the roaring twenties. Brough Superior's most famous fan was T.E Lawrence "of Arabia" who owned seven of the brand.

Relaunched in 2013 by Thierry Henriette, a highly respected motorcycle designer who has worked for major manufacturers throughout the world. He started by relaunching the most famous of George Brough's motorcycles, the one favoured by Lawrence of Arabia, the SS100.

The new era Brough Superior bikes have kept the DNA of the classics such as the art deco design and improved it beyond the modern standards with exclusive technologies and the finest materials. Today Brough Superior produces a range of three luxury modern classic motorcycles, recognised for their superior quality, high performance and precise handling that provide a joy riding experience.

These distinctive motorcycles are handcrafted in limited numbers in a fully integrated process including the specific engine built in Toulouse, France, capital of the Aerospace industry, and shipped worldwide.

