

DB9 – A STRIKING BALANCE



ASTON MARTIN

THE NEW ASTON MARTIN DB9 A STRIKING BALANCE

DB9 is a thoroughbred sports car with GT levels of comfort and refinement. Its design philosophy is uncompromising and brings together everything that makes a sports car great with that unique Aston Martin character, borne out of craftsmanship and use of the finest quality materials.

DB9















SO WHAT IS IT THAT MAKES A GREAT SPORTS CAR?

Most cars are a series of compromises. The result is usually rational – even impressive on paper – but often bland and soulless in reality. Sports cars should be all about character and driver involvement. They need to look great, sound great and have power and performance to stir the soul.

But what is beauty without aerodynamic efficiency? Power encumbered by weight? Straight-line performance without agility? Great sports cars balance these apparent opposites, creating an experience that is both unique and unforgettable. What the driver sees, hears and feels is in harmony. The reward is total involvement: a level of engagement that truly stimulates the senses, that re-ignites the passion for driving.

DB9 meets all of these challenges. Undeniably beautiful yet efficient. Power in proportion to weight. Harmony of sound and performance and dynamic ability inherent through good design.

But an Aston Martin is also luxurious. On those occasions when top speed and maximum acceleration are not really necessary, indulge yourself.

Be uplifted by the magnificent styling; revel in a sumptuous, fully equipped cabin trimmed in the finest quality materials; enjoy the superb Linn audio system; select Drive and let DB9's 6.0-litre V12 and shift-by-wire fully automatic transmission do the rest.

Sunday, after all, is only a few days away.





STYLING UNDERSTATED ELEGANCE

Sports cars are meant to be beautiful, and no maker of sporting cars has a better reputation for understated elegance and graceful styling than Aston Martin. Their beauty comes from harmonious proportions, a ground-hugging stance, taut surfacing, and thorough attention to detail.

They are subtle, not attention-seeking. DB9 appears as if milled from a solid piece of aluminium. Its side profile is typically Aston Martin: very clean, with a single sweep roofline. The uncluttered lines flow through to a distinctive tail, and the haunches on the rear wings are wide and curvaceous.

Key Aston Martin design characteristics include the distinctive grille, metal side strakes and signature rear window shape.

'Aston Martins are not edgy. They don't have sharp surfaces or pronounced power domes. The bodywork is gently curved, like an athlete with great muscle tone,' explains Chief Executive Officer Dr Ulrich Bez.

Great design, however, is not just about form; it is also about function. An Aston Martin is by definition very fast, so it needs to be aerodynamically efficient.

It must be superbly stable at high speed – even the exhaust muffler is aerodynamically shaped to help achieve this.

The result is that DB9 can drive arrow-straight at high speed yet, like all great Aston Martins, it does so with supreme elegance and grace.





100% ASTON MARTIN ENGINEERED TO BE THE WORLD'S FINEST SPORTS GT

DB9 is new from the ground up. Every feature has been tailored to make the world's finest sports GT.

The starting point was to define the ideal dimensions, proportions and materials for the chassis. Aston Martin did not use an adapted platform from an existing family or luxury saloon – the most common starting point for GT cars. This approach can lead to compromise in styling and weight and loss of character.

Aston Martin developed its own incredibly light and strong aerospace-specification bonded aluminium structure. This 'VH' structure, which is unique to Aston Martin, has given DB9 one of the most structurally efficient body frames in the car industry. Its enormous rigidity aids handling, driver feedback and safety. More than any other single component, the advanced aluminium structure is the reason for DB9's extraordinary nimbleness, responsiveness and overall character.

However, it is not just the body structure that is light and rigid. Other components have been developed with light weight in mind.

All major body and mechanical components are either aluminium, magnesium alloy, or advanced lightweight composite materials. These include the aluminium V12 engine and transmission, forged aluminium suspension, and aluminium-bodied dampers. Even the windscreen surround is cast aluminium, while the door frames and inner panels, steering column and gearchange paddles are magnesium.

The result is that the new DB9 is up to 600 kg leaner than some other GTs. That's the equivalent of six men, plus luggage.

This light weight, allied to class-leading rigidity, contributes to improved acceleration, agility, steering response, braking and fuel economy. In short the result is a significantly heightened driving experience.

In every case with DB9, the ideal solution – not the easy solution – has been sought. That is why DB9 is a charismatic sports car. Superb to drive; lovely to behold: 100% Aston Martin.

PERFECT BALANCE
IN HARMONY WITH ITS DRIVER
AND IN HARMONY WITH THE ROAD

Great sports cars must handle superbly. They should respond quickly and predictably to driver commands; they should be nimble and agile.

The front-to-rear weight distribution of DB9 is a perfect 50:50 with 85 percent of the car's mass sited between the front and rear axles.

The aluminium V12 engine is mounted as far back as possible in a 'front mid-engined' layout. The compact aluminium transaxle housing the gearbox and final drive is positioned at the rear, forward of the rear axle.

A lightweight and rigid carbon fibre propellor shaft, housed in a cast aluminium torque tube, transfers torque from the front-mid engine to the rear-mid transmission. This gives DB9 its superb balance.

The result is a car that can be driven with great delicacy, a car that communicates richly through its steering, that is stable and predictable. DB9 excels not because it has myriad electronic controls added in an attempt to overcome compromise, but because it has an inherently light and stiff structure, perfect weight distribution and finely tuned suspension.

This lightness and balance make the whole driving experience more pleasurable – from the deft touch needed to open and close the elegant 'swan-wing' doors, to the touch and feel of even the most minor controls.

DB9, more than almost any other sports car, is in harmony with its driver, and in harmony with the road.





V12 POWER & PERFORMANCE DESIGNED TO STIR THE SOUL

A great sports car needs a great engine – it is the heart of any high-performance machine.

In DB9's case, that great engine is a powerful yet refined all aluminium 6.0-litre V12. It produces 331 kW (450 bhp) and 570 Nm (420 lb ft) of torque. That results in a power to weight ratio of 194 kW/tonne (263 bhp/tonne) – one of the highest figures in its class.

Performance is enormous, yet usable. Top speed is 300 km/h (186 mph) and acceleration sees 0-100 km/h (62 mph) in 4.9 seconds (add two tenths of a second for the automatic).

These figures are impressive and DB9 will respond with real passion.

But it can also relax, with 80 percent of the V12 engine's torque, or pulling power, available from as little as 1500 rpm. Mid-range performance is astonishing, giving instant overtaking power almost regardless of engine speed, or even which gear the car is in. DB9 offers a choice of two transmissions, both allowing the driver terrific interaction with the car.

The six-speed 'Touchtronic 2' fully automatic transmission uses shift-by-wire technology, and replaces the conventional gear lever with dashboard-mounted buttons to select Park, Reverse, Neutral and Drive modes. The result is sophisticated yet intuitive: quick and easy to use and providing instant response to driver input.

If preferred, or where driving conditions tempt, magnesium alloy paddles, sited behind the steering wheel, enable instant, F1-style gear changes, providing the choice of rapid and involving fingertip gear changing, or simply driving in full automatic mode.

Unlike many other sports GTs, DB9 also offers a six-speed manual gearbox, featuring a conventional gear change and new high-capacity, twin-plate clutch.

DRIVER INTERFACE TWO-WAY COMMUNICATION

More than any other quality, DB9 seeks to serve up the richest driving experience in the sports GT class. It serenades the driver with its balance of engine and exhaust notes; it scintillates with its performance and agility; it charms with its delicious blend of fluent steering and linear controls. And if you wish to relax, and just enjoy a leisurely drive, you can indulge yourself with the superb, industry-leading Linn audio system and select the car's full automatic transmission mode.

This match of performance and luxury is the reason why DB9 can be both out-and-out sports car and refined GT.

The cabin of DB9 is built around the driver. You sit as low and as close as possible to the car's centre of gravity. Combined with the rigid body structure and all-aluminium, double-wishbone suspension, the result is unfiltered feedback of the car's dynamic behaviour.

This rich two-way communication – car to driver, driver to car – is at the very core of DB9's design philosophy.

Aston Martins have always made great music. The V12 engine has been described as the finest-sounding engine in production. The exhaust is tuned not only to be efficient and 'clean' but to provide the appropriate musical accompaniment to the engine.

Under hard acceleration, the engine growls in triumph. Yet, when cruising, the growl becomes muted and melodic.

The steering, power-assisted for lightness, is linear and responsive, helped by the car's low weight and superb balance. The vast disc brakes – 355 mm diameter discs at the front, and 330 mm at the rear – are ventilated and grooved, to aid cooling and boost braking performance. Radially mounted, four-piston, monobloc calipers provide great stopping power with a firm yet progressive pedal feel.





THE INSIDE STORY AN ELEGANT & LUXURIOUS CABIN HAND-TRIMMED IN NATURAL MATERIALS

DB9 is a luxurious sports car. It is supremely comfortable, with a cabin hand-trimmed in beautiful, natural materials – primarily wood, leather and aluminium. There is the latest in modern technology, yet there are no superfluous controls or displays. There is a minimum of distraction. Even the satellite navigation screen motors seamlessly away when not in use. Yet the car has very high equipment levels, as you would expect in a thoroughbred sports car with GT levels of comfort and refinement.

The cabin interior is hand-made, from the cutting of the leather to the crafting of the wood. This is not done merely for 'traditional' reasons. It is done because a skilled craftsman can finish wood or leather better than any machine. The leather is particularly soft and supple, as you would expect of Aston Martin, and is used throughout the cabin.

Wood veneers are inspired by quality, hand-finished furniture. There is a choice of three woods: walnut, mahogany and, possibly for the first time in the automotive industry, bamboo.

In every case, 'single piece' cuts are used, rather than tiny strips or thin appliqué. Crafting such large pieces of wood is only possible when done by hand.

The use of aluminium on the dashboard, in the instrument panel and for the door handles, reflects the widespread use of that beautiful and lightweight metal throughout the rest of the car. It is a stylish and contemporary metal, yet one steeped in automotive tradition.

Even the starter button, the driver's first interaction with the V12 engine, is beautiful, made from clear crystal glass.

A great sound system is a pre-requisite in a luxury car, and so Aston Martin turned to Linn, the world leader in exclusive hi-fi. The audio system is specially designed by Linn for DB9, with high-quality, fibre optic electronics passing audio signals with marvellous precision and near-perfect clarity.



PERSONALISATION
AN EXCLUSIVE SPORTS CAR
TAILORED FOR INDIVIDUALS



Aston Martins are hand-built cars, made to order. This exclusive, bespoke tailoring philosophy means any colour is possible, and just about any specification. That is the essence of hand craftsmanship; it's what makes Gaydon the Savile Row of sports car production.

There is, of course, an extensive palette of body colours and interior finishes. These have been specially chosen by Aston Martin's team of designers, who have scoured the world to gain inspiration for colours, materials, surfaces and finishes.

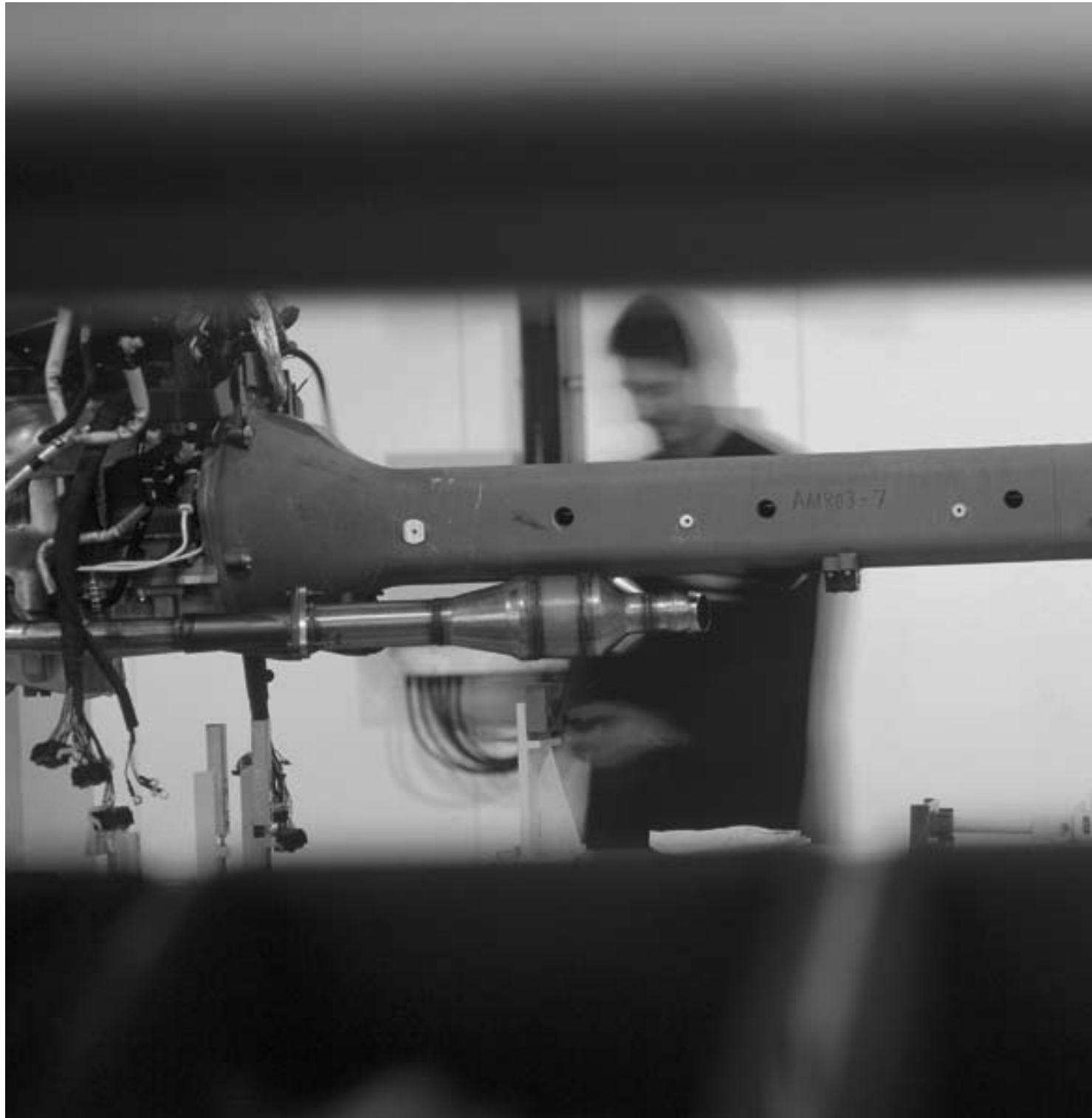
Twenty one paint colours, categorised as 'contemporary classics' and 'sporting', vary from subtle metallics to the brightest hues.

Twenty shades of the finest, softest leather, eight colours of carpet and three choices of wood – walnut, mahogany and bamboo – complete the 'standard' choice.

DB9 is equipped with an industry-leading Linn 128W audio system – the finest standard in-car entertainment available – including a six CD autochanger.

Optional upgrades for the true audiophile are available, to either the magnificent Linn 260W system with Limbik 5.1 or the supreme Linn 950W system with Dolby Pro Logic II.

Other options include satellite navigation, bluetooth telephone, parking sensors, cruise control and, as befits a specification policy that is about hand-crafted tailoring and not limited choice, just about anything else that the customer desires.



ENGINEERED QUALITY TECHNICAL INNOVATION TESTED METICULOUSLY

DB9 is the most thoroughly tested and engineered car in Aston Martin's history. It is also one of the most technically sophisticated cars in the world.

The long list of design and engineering innovations includes the organic electroluminescent displays (OEL) in the instrument pack and centre console.

These are designed to provide higher resolution, and improve clarity, when compared with conventional electronic displays.

Other innovations include LED (light-emitting diode) rear lamps that project through a reflector, dispensing rays more evenly than other LED systems. These react more quickly, giving earlier warning to following drivers when braking.

A 'work load monitor' temporarily cancels low-importance warning information during spirited driving so as not to distract the driver.

The propellor shaft is particularly innovative in that it is manufactured from carbon fibre for light weight and improved transmission refinement.

A stunning DB9 design feature is the 'swan-wing' doors, which open out and up, improving access and reducing the danger of door scuff on high kerbs.

DB9 also pioneers the use of 'ultrasonic' welding, which has greater strength than spot welds, uses less energy and results in a better finish.

DB9 prototypes were tested in locations as diverse as Nardo in Italy, Death Valley in the USA, and inside the Arctic Circle in Sweden. In all, more than one million testing miles were covered.

SAFETY & SECURITY REASSURANCE IN AN UNPREDICTABLE WORLD

DB9 offers class-leading safety. Its structure is designed to provide a supremely robust passenger cell that cocoons its occupants and is further protected by extruded aluminium crumple zones front and rear.

Dual-stage driver and passenger airbags, seat-mounted side airbags and seat-belt pretensioners offer further protection.

DB9's active safety – the ability to help avoid an accident occurring in the first place – begins with its inherent agility and responsiveness.

The light weight, rigid body structure and superbly tuned suspension and steering are further aided by a host of advanced electronics. These include Dynamic Stability Control (DSC) and the latest-generation ABS brakes which, should the system detect loss of grip, combine to help keep the car stable and balanced.

Electronic Brakeforce Distribution (EBD) and Emergency Brake Assist (EBA) are also employed. EBD balances the front-to-rear braking bias, to give optimal braking performance. In an emergency, EBA sensors detect when maximum braking is required and automatically apply the appropriate force.

Although engineering development is carried out exclusively at Aston Martin, whenever appropriate solutions and expertise existed outside the company, that's where Aston Martin's engineers turned.

For instance, Volvo in Sweden is recognised as the world leader in automotive safety engineering. All the safety systems used in DB9 have been designed and tested using Volvo's latest safety technologies, best-practice design guidelines and advanced computer-aided engineering.

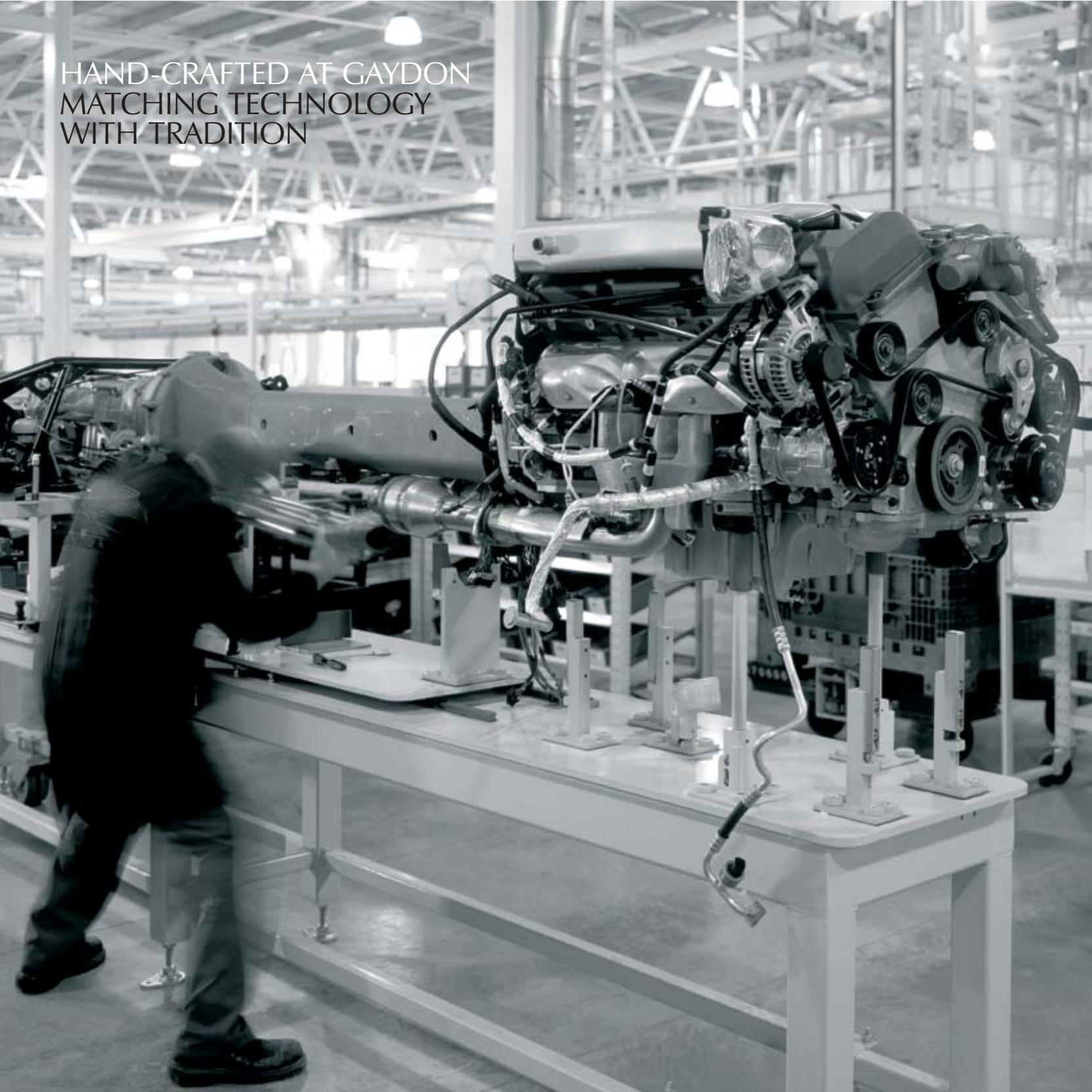
All crash and safety testing was conducted at Volvo's world-renowned safety centre in Sweden, which has probably the best facilities in the world for all aspects of safety engineering and crash-test analysis.

Again, the enormously strong aluminium bonded body structure provided a superb basis for class-leading safety.

DB9 is equipped with an Integrated Passive Anti Theft System (PATS). This system uses a rolling code electronic ignition key, preventing unauthorised engine start-up. The system also includes the very latest design in vehicle alarm systems, featuring interior sensors and double locking for doors.



HAND-CRAFTED AT GAYDON
MATCHING TECHNOLOGY
WITH TRADITION



DB9 is the first Aston Martin to be produced at the company's new world headquarters in Gaydon, in historic Warwickshire. Gaydon is a dedicated, high-technology facility where DB9 is hand-built at a series of work stations by technicians and craftsmen.

This hand-craftsmanship has nothing to do with nostalgia.

Hand-craftsmanship can deliver superior finishes and unique design details. It can also deliver engineering and design solutions, for an exclusive sports car, that mass production would find impossible. Manufacture of the technically sophisticated bonded aluminium structure is only possible with hand craftsmanship.

The 'single cut' headlamp apertures in the front wings remove the need for unsightly cut or join lines and can only be achieved using Aston Martin's hand-build processes.

Hand-painting and hand-finishing deliver a better paint finish than any mechanised process, and each DB9 benefits from 25 man-hours of painting, to ensure a perfect finish.

Customer visits are welcome and form an important part of the unique Aston Martin buying experience.

Customers may visit Gaydon as often as they like and for as long as they like. They are welcome to come to specify their car, to watch it being hand-built, or to take delivery.



A DISTINGUISHED HERITAGE

ALMOST 90 YEARS OF HAND-CRAFTING BEAUTIFUL & EXCLUSIVE SPORTS CARS

Aston Martin is one of the world's most distinguished sports car manufacturers. It has produced exclusive, hand-crafted sports cars for almost 90 years. In that time, only 25,000 Aston Martins have been built and more than 80 percent are still in use, cherished, driven and raced by enthusiastic owners around the world.

The founders of the company, Lionel Martin and Robert Bamford, had a clear vision: to create sports cars with a distinctive character; cars built to a high standard that were exhilarating to drive and own; cars with power, beauty and soul. Those values remain.

In 1947, Aston Martin was acquired by industrialist David (later, Sir David) Brown, and soon after launched the first in a series of new DB badged coupés. These iconic vehicles were among the most beautiful and desirable of all sports cars of the 1950s and 1960s, and helped define the long-term future of the company.

David Brown's period of ownership saw Aston Martin win Le Mans in 1959, with the DBR1, and secure victory in that year's World Sportscar Championship. It also saw Aston Martin first appear on the big screen, a DB5 supporting Sean Connery (aka James Bond).

Sports car racing remains firmly in the company's DNA and many classic Aston Martins still regularly compete in events around the world. James Bond is also back in an Aston Martin, Pierce Brosnan driving a V12 Vanquish in the latest thriller.

The DB continues, of course. DB7, launched in 1993, went on to be acclaimed as 'the most beautiful car in the world' and to become the most popular Aston Martin ever.

However, it now makes way for the most important car in Aston Martin history – DB9.



DB9 SPECIFICATIONS

ENGINE

All-alloy, quad-overhead-camshaft, 48-valve, 5935 cc V12.

Compression Ratio 10.3:1
Engine management system with Neural Net misfire detection system.

Stainless steel exhaust system with active by-pass valves

Power 331 kW (450 bhp) @ 6000 rpm

Torque 570 Nm (420 lb ft) @ 5000 rpm

TRANSMISSION

'Touchtronic 2' six-speed automatic gearbox with electronic shift-by-wire control system.

Six-speed manual gearbox. Limited-slip differential

Final Drive Ratio
3.07:1 (auto)
3.54:1 (manual)

STEERING

Rack and pinion, Servotronic speed-sensitive power-assisted steering. 3.0 turns lock to lock. Column tilt and reach adjustment

BRAKING SYSTEM

Ventilated and grooved steel discs (355 mm diameter front, 330 mm diameter rear). Radial-mounted four-piston monobloc calipers.

Anti Lock Braking System (ABS), Electronic Brakeforce Distribution (EBD), Electronic Brake Assist (EBA), Dynamic Stability Control (DSC) and Traction Control

SUSPENSION

Front Aluminium independent double-wishbone incorporating anti-dive geometry. Coil over aluminium monotube dampers and anti-roll bar
Rear Aluminium independent double-wishbone incorporating longitudinal control arms, coil over aluminium monotube dampers and anti-roll bar

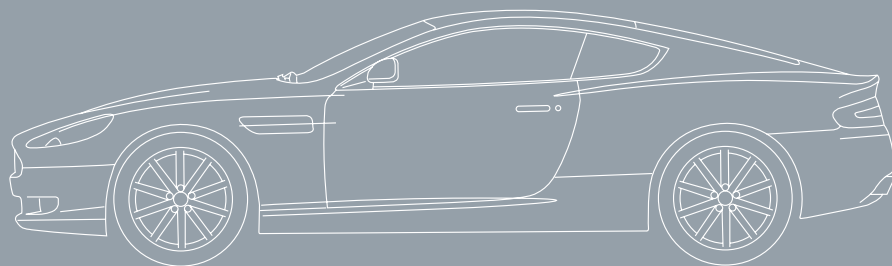
BODY

Two-door coupé body style with 2+2 seating. Extruded aluminium bonded body structure. Aluminium and composite body panels.

Extruded aluminium door side impact beams. Xenon gas discharge projector headlamps (dipped beam), halogen projector headlamps (main beam) with power wash. LED rear lamps. Powerfold mirrors (optional)

WHEELS & TYRES

19-inch aluminium wheels
Front Tyres 235/40 ZR 19
Rear Tyres 275/35 ZR 19



INTERIOR

Full leather interior
Walnut fascia veneer
Mahogany fascia veneer (optional)
Bamboo fascia veneer (optional)
Matching wood door cappings (optional)
Personalised sill plaques (optional)

Driver and front passenger dual-stage air-bags
Front occupant side air-bags
Six-direction electrically adjusted seats (including height adjustment)
Heated front seats (optional)
Automatic temperature control
Heated rear screen
Heated front screen (optional)
Organic electroluminescent (OEL) displays
Trip computer

Alarm and immobiliser
Remote-control central door locking and boot release
Full colour satellite navigation system (optional)
Integrated bluetooth telephone (optional)
Cruise control (optional)
Tyre pressure sensing (optional)
Rear parking sensors (optional)
Battery disconnect switch
Battery conditioner
Tracker Horizon (UK only)

IN-CAR

ENTERTAINMENT
Linn 128W system with radio and 6 CD autochanger
Optional
Linn 260W system with Limbik 5.1
Linn 950W system with Dolby Pro Logic II

DIMENSIONS

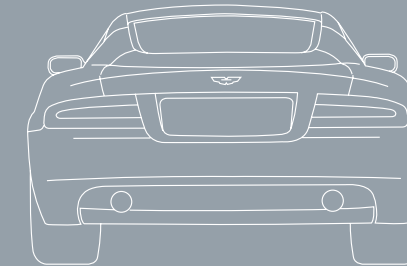
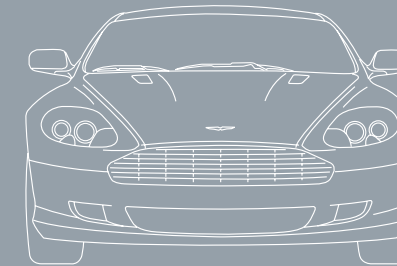
Length 4697 mm
Width 1875 mm
Height 1318 mm
Kerb Weight
1710 kg (manual)
1760 kg (auto)
Front Track 1568 mm
Rear Track 1562 mm
Turning Circle 11.5 m
Fuel Tank Capacity 85 litres
Cd 0.35

PERFORMANCE

(MANUAL)
0-60 mph 4.7 seconds
0-100 km/h 4.9 seconds
Maximum speed
300 km/h (186 mph)

PERFORMANCE

(AUTOMATIC)
0-60 mph 4.9 seconds
0-100 km/h 5.1 seconds
Maximum speed
300 km/h (186 mph)



'THE DB9 IS MORE THAN JUST A CAR
IT IS THE BEGINNING OF A NEW
ERA FOR ASTON MARTIN'

Dr Ulrich Bez
Chief Executive Officer, Aston Martin



ASTON MARTIN

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