# VANQUISH 5 V12





## VANQUISH S V12 THE ULTIMATE ASTON MARTIN

'The fastest road car in the history of Aston Martin. A car that fuses hand-crafted tradition with the highest calibre of automotive technology. Appropriately it is our flagship car... the Vanquish S V12... the ultimate Aston Martin.'

Dr Ulrich Bez, CEO, Aston Martin



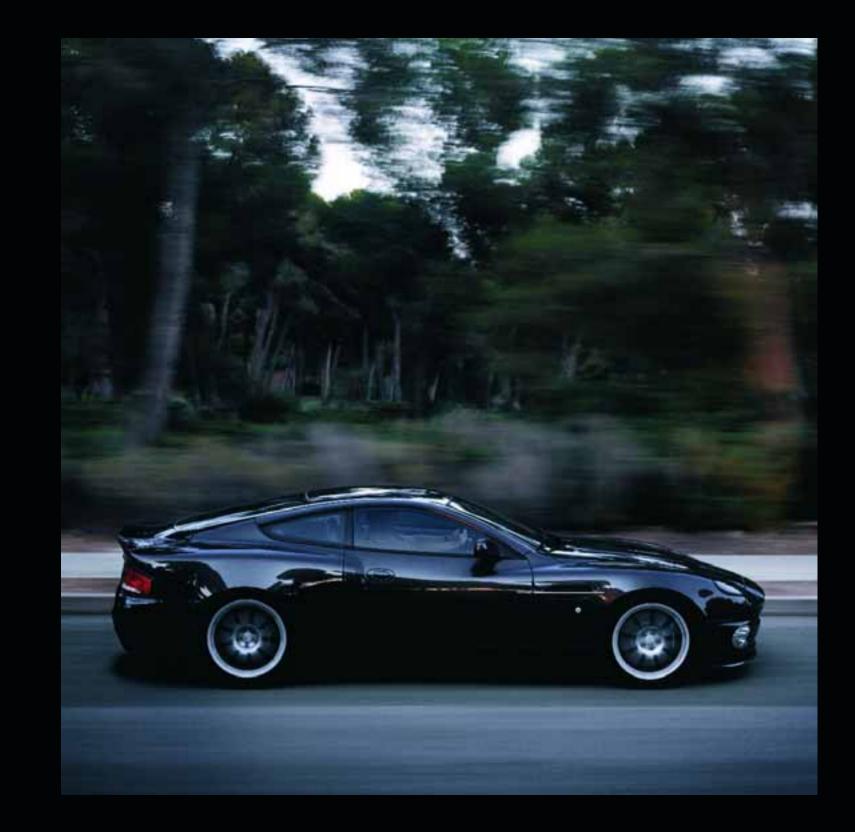


ALL ASTON MARTINS ARE RARE VANQUISH S V12 IS VERY SPECIAL





# VANQUISH S V12 IS THE FLAGSHIP OF THE WORLD'S MOST EXCLUSIVE SPORTS CAR MAKER







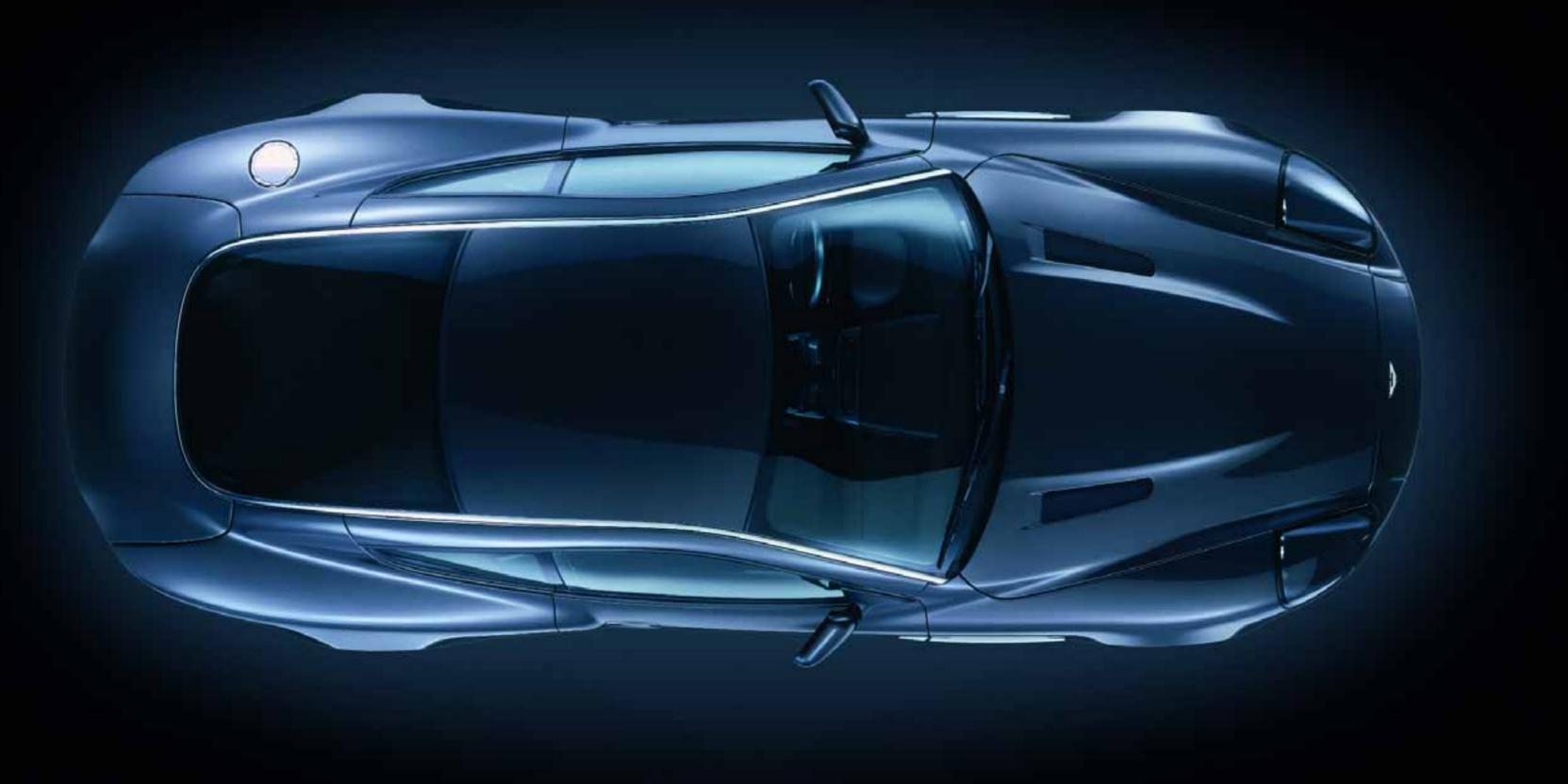
POWER, BEAUTY & SOUL A DISTINGUISHED HERITAGE In 1914, the founders of Aston Martin, Lionel Martin and Robert Bamford, began building handcrafted, high-performance sports cars. They believed sports cars should have a distinctive and individual character, be built to the highest standards and be exhilarating to drive and own. More than 90 years later these values remain true today.

Aston Martin has earned a reputation for another speciality: building lifelong one-to-one relationships with each of its cars and with every owner. This is due to meticulous records and archives, plus personal attention from experts at the factory.

The Vanquish S effortlessly combines 21st Century technology and 200mph (321 km/h) performance, with understated elegance and craftsmanship.

To build such an extraordinary car, the company has used British expertise in aerospace and race-car engineering. Conventional automotive industry materials and manufacturing techniques were not good enough for the fastest road car in Aston Martin's history.





## DRAMATIC STYLING ADVANCED TECHNOLOGY

carbon fibre structure of Vanguish S is unique to Aston construction techniques, gives the Vanquish S such

This technology has become the Aston Martin signature of The six-speed manual panels are still hand finished. column. It can change gear It is the best way to achieve a in approximately 250 superb finish.)

Formula One-style handling, safety and durability. version ever of Aston Martin's rear flanks and their almost

> on the steering wheel milliseconds – or the blink

The Vanguish S is Martin. It is elegant, powerful style and a real depth of also a hint of menace in this craftsmanship. But these

The Vanguish S offers result is the Vanquish S









### V12 POWER & PERFORMANCE DESIGNED TO STIR THE SOUL

6.0-litre V12 is renowned as one of the finest engines in the multiplex communications world: enormously powerful, smooth and beautiful. It can also lay claim to being the world's best-sounding high performance car engine.

is 520 bhp (388 kW) at torque of 425 lb ft (577 Nm) at 5800rpm.

Such power delivers sterling performance. Indeed, this is the fastest-ever road going Aston Martin. Top speed is more than 200 mph (321 km/h), the 0-62mph (100km/h) airflow. A remapped engine (160 km/h) takes just 9.8

sensational; 50-70mph Overtaking is effortless.

A key factor in the engine's efficiency is its high-speed system, called PTEC (Power Train Electronic Control), four one-thousandths of a second. There are two In the Vanguish S, it reaches PTECs, one for each bank high-speed system that controls the fuel injection and spark timing.

> cylinder head castings with revised inlet ports and combustion chambers with revised profiles to improve injectors and spark plugs takes advantage of this improved airflow. Finally, new hot forged connecting rods have been designed to handle the increased cylinder

As you would expect, the California's strict LEV (low There is no mechanical link between the Vanguish S throttle pedal and engine. Instead the movement of the throttle is electronically measured to gauge how fast the driver wishes to go. This

constantly to the six-speed manual transmission, which is operated by an electrohydraulic gearshift. Unlike some systems, the Vanguish S allows the driver to 'skip' to fourth or fifth to second with a pull on the paddle for each gear change. A failsafe system ensures the engine will experience. not over-rev and will automatically opt for the

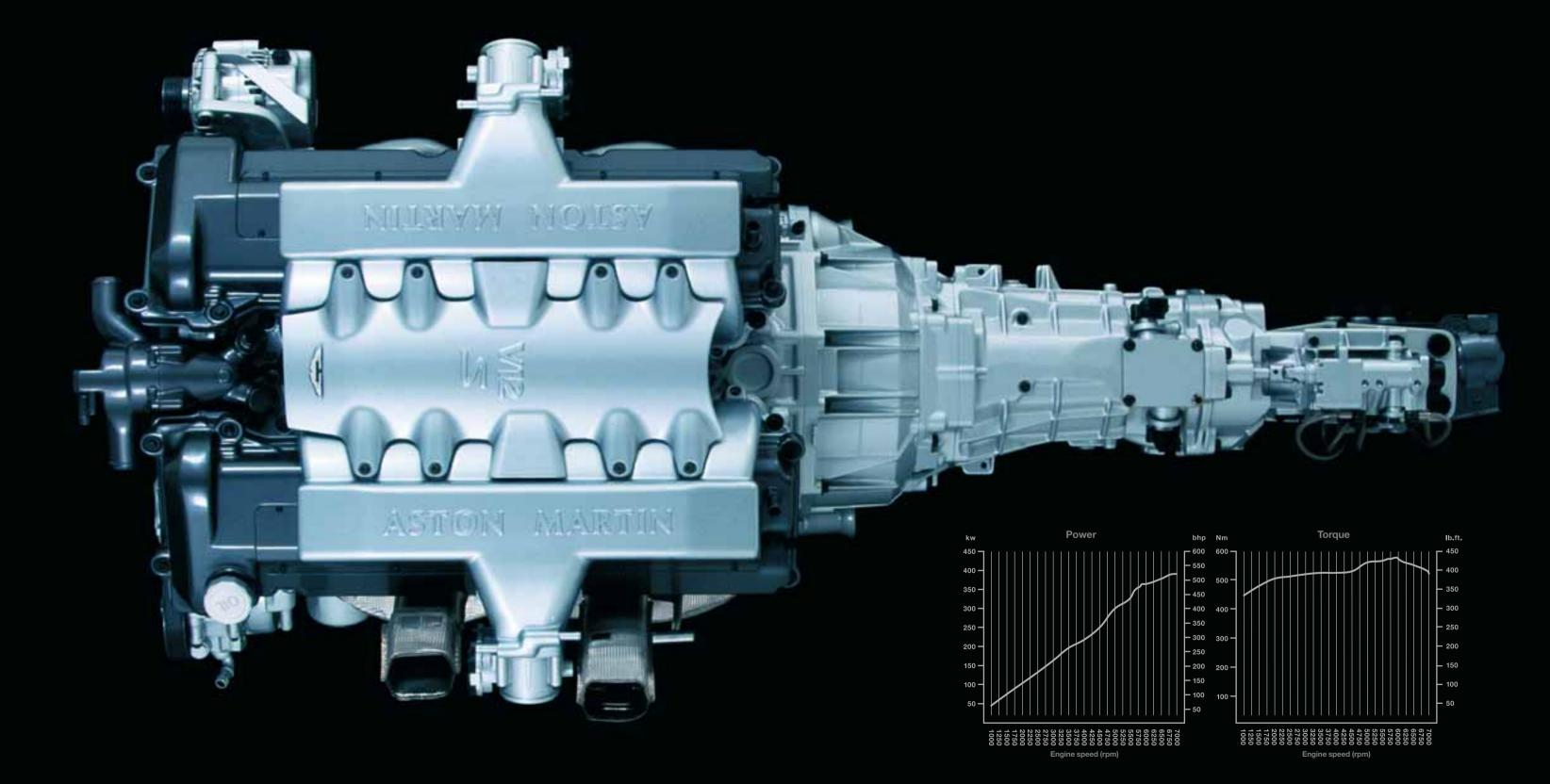
The driver has a number of gear change modes to choose from. In Select Shift Manual (SSM) mode, the driver shifts gears up and down using the steering column-mounted shift paddles (right to upshift, left to downshift). The only time the system intervenes for the illuminate. the computer automatically upshifts. Additionally, there is Auto Shift Manual (ASM) mode, in which the computer takes care of all gear selections according to engine and road speed without driver intervention. subtle use of the throttle can induce gear changes

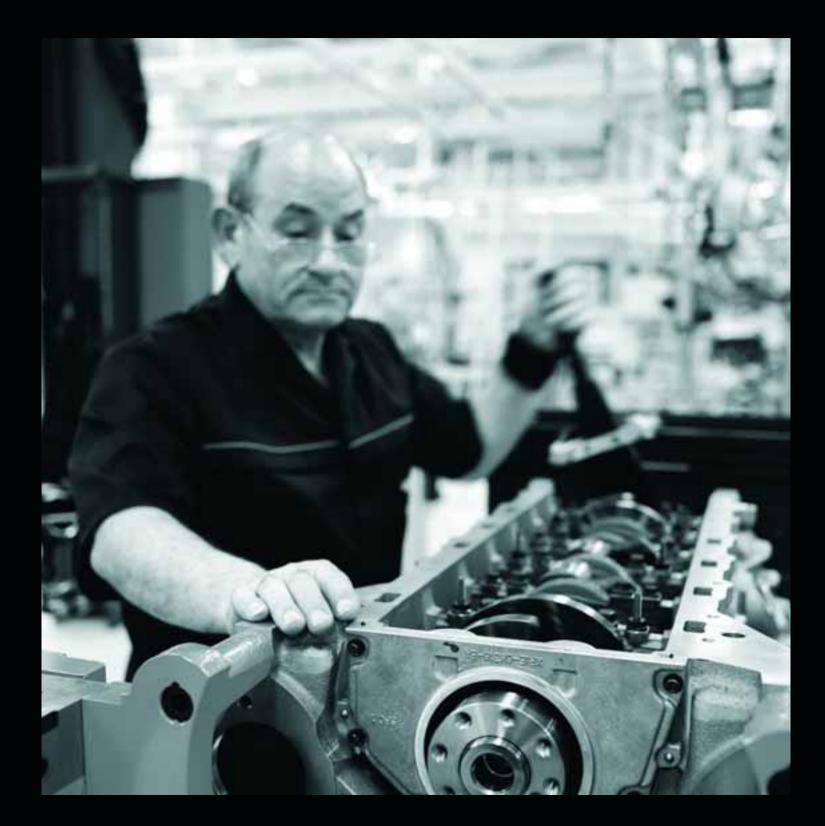
There is an optional 'Sport' SSM Sport, the system allows the driver to 'bounce' against the rev limiter without shifting automatically. ASM Sport allows the gearbox to rev higher to use more of the more quickly.

As a matter of convenience and safety, the Vanguish S is equipped with a sophisticated system. If the air pressure in a tyre drops below a level optimal for maximum driving warning light will instantly

If the sensor light flashes, it of the tyres has become dangerously low. A bootmounted LCD readout enables the driver to identify the faulty tyre. Additionally, rain-sensing wipers and







## INDIVIDUALLY HAND-BUILT WITH CARE & CRAFTSMANSHIP

specifications, the Vanguish S distort the structure in any is built in the same manner as way, leads to a more other Aston Martins before it, one at a time, by hand. An individual craftsman takes responsibility for the creation

of the Vanquish, the factory at Newport Pagnell received refurbishment that included an all-new assembly line. environmental paint shop, rolling road and water test facility, which simulates technicians who used to hold old-fashioned welding guns now wield dual-feed adhesive fibre 'A' posts are first bonded engine, is assembled, as is guns to bond together

dimensionally accurate welded steel.

ensured that these 21st form a car that raises the quality, safety, durability and

The assembly process begins in a special bonding environment. The specially to the aluminium core, followed by the carbon fibre 'backbone' tunnel.

Next, the rear structure, bonded to the aluminium monocoque using a special polyurethane adhesive. From there, the body shell moves to the front-end simulator jig, where boot lid, doors, bonnet front wings and bumpers are

In the paint shop, each body receives five coats of surface primer, two coats of colour The painted bodies, which are hand-buffed after each application, take two days

In the final assembly area, the twin-pump fuel tank is cell in a cavity above the rear axle. Next, engine and lines, underbody heatshielding, air conditioning, fitted. Meanwhile the frontend structure, which will carry Vanguish S, or around six the front suspension and the rear suspension. These 'marriage jig' where the place and the front crash

Once the car is on its wheels, produce the cabin. This hours of labour and eight hides of leather.

are checked using laser alignment tools. The glass 'start' button on the for the first time. Testing on roads, in the water booth, complete the build process. man hours to create each weeks from raw materials to the finished article.



# SUPERB HANDLING HIGH TORSIONAL RIGIDITY WITH OPTIMUM STEERING & SUSPENSION

no other car. It needs fast, predictable handling, and

The Vanquish S is one of It communicates to the driver

The key to its nimbleness, and predictability, is its light yet massively stiff body structure. Nothing dulls performance like weight. Nor is a truly great sports car. improves nimbleness and

structure also imparts superb Specially developed highgreater than a conventional steel body. So the car stays

This lack of body flex means implicit in a body structure that is more pliable. The result is greater sharpness,

The suspension is light, and race-car like in design. Forged aluminium double front and rear, combined with

tyres mounted on lightweight

### STRUCTURAL STRENGTH FOR PERFORMANCE & SAFETY

of the most advanced any road car, using composite heat in the passenger cabin. materials and processes familiar to the aerospace business but rarely seen in

Each car starts as a heatcured aluminium bonded monocoque, known as the combination of extruded and are bonded and then riveted together. The tub is bonded to a nine-layer carbon fibre yet lightweight backbone. tunnel over aluminium is its aluminium tunnel would be

superior insulation from It is this unique combination of tub and tunnel that gives the Vanguish S its structural rigidity and allowed engineers composite rails. ride quality.

The aluminium body panels are shaped using a patented degrees to the first layer to for the aerospace industry. The aluminium forms are submitted to 480-degrees C A third corrugated glass fibre Vanquish S an extremely rigid temperatures and 150 psi air composite element is used as pressure to create the deepextremely difficult to mould from traditional aluminium detailing of each body panel approximately twice as heavy. are done as they always have hand, to ensure flawless the best way to finish

exceeds them, thanks in part mounted technically innovative

glass fibres in a crash.

the carrier structure to hold Similar composite parts are protect the car from rear



### INTELLIGENT ENGINEERING REASSURANCE IN AN UNPREDICTABLE WORLD

The Vanguish S is full of technological innovation. designed to improve strength aluminium and carbon fibre body is replete with world firsts. One example is the specially developed braided carbon-fibre used for the 'A' posts and the engine bay

invented a novel braiding polyurethane foam core with triaxial carbon fibre. The result calipers. The rear discs are is an immensely strong yet withstanding the force of a crash or rollover.

Passive safety is only part of any car, and especially one with the performance of this safety. The Vanguish S epitomises this with superbly responsive handling, giving the driver every chance to avoid any dangerous obstacle in an emergency. or situation.

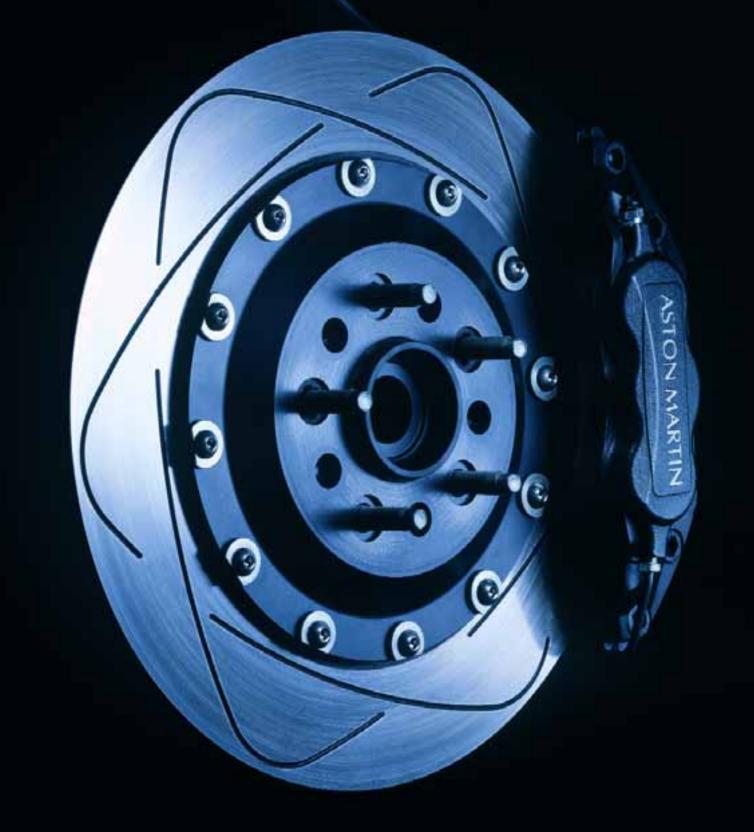
are gripped by new six piston thicker to help heat fade resistance. Both front and rear discs are mounted mechanism designed to maintain consistent pedal feel safer. The design team spent under sustained heavy braking. The brake pads use tuned to the disc and caliper to provide enhanced performance and stability.

(ABS) incorporates electronic brakeforce distribution (EBD) which re-balances front and rear braking forces under optimise the braking cutting stopping distances

engaged, the Wheel Slip Protection (WSP) mode operates the clutch and gearbox, auto-shifting at 3200 speed stability. rpm in low-grip conditions to

But it isn't just the mechanicals that make a car many hours in the wind tunnel honing the car's profile to ensure stability throughout its speed range and adequate airflow for power and cooling.

A Formula One-style venturi and flat underbody increase aerodynamic efficiency while balance and stability at high speed, essential in a 200mph supercar. At the rear, an aerodynamically profiled boot lid reduces lift. Even the classic grille plays its part on the Vanguish S. its rounder, more open than enhance cooling. It is complemented by an



# PERSONALITY & STYLE HAND TRIMMED IN NATURAL MATERIALS

Great design is an Aston Martin hallmark. The company has made some of the world's most beautiful sports cars. While other road users enjoy the external beauty of the Vanquish S, both driver and passenger will be equally impressed by the interior, a stunning blend of future and tradition.

Dominating the cabin is a customers are free to select whichever colour they choose console that arches from the top of the facia down to the transmission tunnel. customers are free to select whichever colour they choose either from Aston Martin's extensive palette, or their own imagination and taste.

Grab handles and gear shift paddles are finished in matching cast aluminium, while other interior styling materials, such as full grain leather, Alcantara and Wilton carpet, are used to echo Aston Martin heritage.

Great design is an Aston
Martin hallmark. The company
has made some of the world's
most beautiful sports cars.
So does the black-on-cream
instrumentation, with numerals
changing to a soothing blue
at night.

Owners have the choice of two interior configurations: a 2+2 with rear seats or a pure two-seater with a rear shelf to accommodate a golf bag or personal items of luggage. As with all Aston Martins, customers are free to select whichever colour they choose either from Aston Martin's extensive palette, or their own imagination and taste.





# VANQUISH S V12 THE LEADER IN SOUND

The exhaust note of the V12 Vanquish is generally acclaimed to be the most glorious of all sports cars. The sound unleashed by the car's audio system is equally stirring.

Linn, a Scottish company founded in Glasgow in 1972, has become internationally renowned for creating exceptionally high quality entertainment systems for home and commercial use, as well as supplying systems for luxury yachts and containing the sound inside cruise liners.

The Linn Audio System engineered for the Vanquish has been created as the ultimate in-car entertainment package.

All of the loudspeaker drive units have been developed uniquely for the Vanquish S. There are two door-mounted speaker units each containing a mid-range speaker, tweeter and super tweeter. The door speaker units are fully encased to maintain high levels of sound control while the car.

The two rear shelf-mounted speakers each contain a mid-range speaker, tweeter and super tweeter and each of these 12 loudspeakers is driven by a separate 75-watt amplifier channel.

The bass drive unit, centrally mounted in the rear shelf, incorporates a precision accelerometer providing instantaneous feedback of the unit's movement to a dedicated 300-watt bass servo system. This arrangement results in totally controlled bass without resonance and with minimal distortion.

The bespoke case housing the boot-mounted amplifier also includes the switch mode power supply and two cooling fans. The cover is machined from solid aluminium and hard anodised for a natural, durable finish. A blue light emitting diode indicates normal operation.

The high power capacity and use of individual amplifiers for each frequency range and speaker delivers the exceptionally high quality sound for which Linn audio systems are renowned.







# PERSONALISATION

#### Satellite Navigation system<sup>\*</sup>

With the optional satellite navigation system, guidance is provided by means of audible instructions (voice guidance), complemented by or black may be specified. diagrammatic information, which is displayed on the LCD Front wheel stone guards panel of the radio.

The system uses GPS and advanced map matching algorithms for pinpoint accuracy.

#### Integral GSM telephone\*

The optional Motorola fixed an 8 watt output for clarity and excellent overall call quality. Installed into a cradle in the central cubby-box, the integral telephone interfaces with a microphone in the roof console and may be controlled either through a key mirror for synchronised pad and buttons on the radio, automatic 'dipping' at night. or by using the handset itself. Telephone-related messages are shown on the audio system display when the telephone is active. The system's roof console also features spatial lighting, which illuminates the centre console with a low light for ease of operation.

#### Coloured brake calipers

Adding a flash of colour to the brakes, and as an alternative to the standard graphite grey colour, optional brake calipers in red, silver

When driving over loose or gravel surfaces these optional stone guards are designed to provide additional protection to the leading edge of the car's sills.

#### **Powerfold exterior mirrors** all leather steering wheel.

For ease of manoeuvrability integral telephone system has in tight spaces and for peace of mind when parked, these optional electronic folding door mirrors retract at the touch of a button, and include optional personalised sill an electrochromatic function which links to the car's interior with your name, title or electrochromatic rear view

#### Reversing sensors

Optional body coloured reversing sensors are discreetly mounted within the surface of the rear bumper.

#### Colour keyed leather trim steering wheel

Designed to coordinate with vour interior leather colour. sections of this optional wheel warm up quickly to provide may be specified in the colour of your choice.

#### Aluminium trim steering wheel

Designed to coordinate perfectly with the platinum interior details, the optional aluminium trim steering wheel provides a contemporary alternative to the standard

#### Personalised sill plaques

Manufactured from high quality stainless steel, these plagues may be engraved special message or wording.

#### Heated front screen

For the ultimate in convenience on those frosty winter mornings, the optional heated front screen defrosts in seconds at the touch of a button.

#### Heated front seats

For those cool evenings and even colder mornings. optional heated front seats extra comfort.

#### Smokers' pack

For smokers, the standard central oddments tray may be replaced with an optional cigar lighter and ashtray.

#### **Exterior chrome** door handles

Available at no extra cost to replace standard body colour door handles.

#### Cup holder

A single cup holder, trimmed with a leather outer and fitted with a removable rubber inner sleeve, can be specified in place of the console storage box at no extra cost.

#### Performance Driving Course (PDC)

The Performance Driving Course (PDC) is about two things - helping you understand the capability of your car in a safe and controlled environment and making you a safer, better driver. Tailored to the driving dynamics of the car, all our courses are designed to be one to one in nature and are conducted by our team of highly experienced instructors. Combining theory with hands on practice, the course is all about having fun! The course comes as a no cost option with Vanguish S and can be taken at a number of driving centres around the world. Please contact your supplying Dealer for more details.

\* Not available in all markets. Please consult your Dealer for details.



# VANQUISH S V12 SPECIFICATION

#### BODY

Two door coupe with 2+0 or 2+2 seating Extruded aluminium and carbon fibre bonded body structure Composite front and rear crash structures Aluminium and composite body panels Extruded aluminium door side impact beams

#### **ENGINE**

All alloy, guad overhead camshaft, 48-valve, 5935cc 60° V12 Front engine, rear-wheel drive Twin PTEC engine management system controlling fuel-injection, ignition and diagnostics Fully catalysed stainless steel exhaust system with active by-pass valves

#### Compression ratio 10.8:1

Maximum power 388 kW (520bhp) at 7000 rpm

#### Maximum torque 577 Nm (425 lb.ft)

at 5800 rpm Acceleration

0-100km/h (62mph) in 4.8 seconds 0-160km/h (100mph) in 9.8 seconds

#### Maximum speed

Over 321 km/h (200mph)

#### TRANSMISSION

Six speed manual transmission with Auto Shift Manual/Select Shift Manual (ASM/SSM) electro-hydraulic intervention traction control system SCP/CAN interface to engine management control system Limited slip differential Final drive ratio 4.30:1

#### STEERING

Rack and pinion, variable power assistance, 2.1 turns lock to lock Column tilt and reach adjustment

#### SUSPENSION

Front Independent double aluminium wishbones Coil springs, monotube dampers and anti-roll bar Rear Independent double aluminium wishbones Coil springs, monotube dampers and anti-roll bar

#### BRAKES

Teves vacuum assisted anti-lock braking system Electronic brake and engine control system

Front Ventilated and grooved steel discs 378 mm diameter with six piston calipers

Rear Ventilated and grooved steel discs 330 mm diameter with four piston calipers and separate handbrake caliper

#### WHEELS & TYRES

Lightweight aluminium alloy wheels

Front 9J x19

**Rear** 10J x 19 Yokohama tyres Front 255/40 ZR19 **Rear** 285/40 ZR19

#### INTERIOR

Full grain leather and Alcantara interior Driver and front passenger airbags Electrically controlled front seats incorporating optional seat heaters Air conditioning Heated rear screen and optional heated front screen Alarm and immobiliser system with remote central locking and boot release Tyre pressure sensing system Automatic rain sensing wiper operation Blade mounted washer jets Automatic headlamp operation

Auto dimming rear view mirrors 0.24 cu.m. (8.48 cu.ft.) Trip computer Instrument pack message centre display Battery disconnect switch Battery conditioner Boot-mounted umbrella First aid kit

#### IN-CAR <u>ENT</u>ERTAINMENT

Linn Audio 1200W. 13 speaker, 13-channel system Extra Urban 21.0 (13.4) with stereo radio cassette and Combined 18.9 (14.9) six CD autochanger

#### DIMENSIONS Length

4665 mm (183.7 inches)

1923 mm (75.7 inches)

Heiaht 1318 mm (51.9 inches)

Kerb Weight

1875 kgs (4133lbs) Wheelbase

2690 mm (105.9 inches)

Boot space

Fuel tank capacity

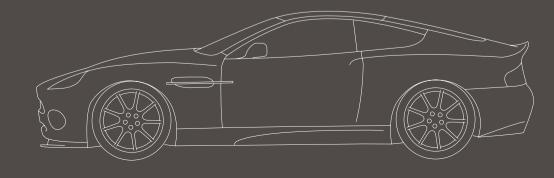
80 litres (17.6 lmp. galls., 22.0 US galls.) 95RON unleaded fuel only

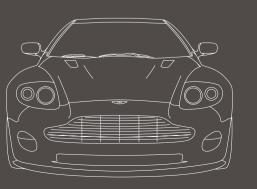
Cd

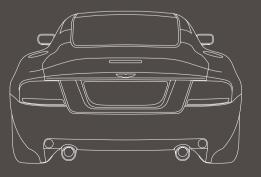
#### **FUEL CONSUMPTION\*** Litres/100 km (mpg) Urban 28.2 (10.0)

#### CO2 EMISSIONS\* 448 g/km

\* Not applicable to North America











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