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4C




4C



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Dealer's stamp

Alfa Romeo



4C



Genesis of a dream

Images of glorious, race-winning cars. The noise of engines, acceleration and braking, and the spirit of competition. The roar of the crowd, arms raised to the sky, excitement and passion. The name of Alfa Romeo and the faces of drivers, bend after bend.

The blank sheet start to fill with pencilled sketches, the best the Style Centre can produce. Swift strokes express images and ideas, then begin to form lines. The design is changed, improved, perfected.

Then a clay model. In 3/8 scale. Followed by a full scale mock-up, compact, agile, powerful, dynamic and essential, to finalise dimensions and form.

From concept car to production model, the changes are minimal, and made only for homologation purposes.

The objective is to give enthusiasts the supercar of their dreams, a car with unique styling and with design choices at home on both road and track. Once, this was a dream. Now it is the Alfa Romeo 4C.



Essential beauty

The year is 1967. Alfa Romeo produces 18 examples of the 33 Stradale, the homologated version of the racing Type 33. The car is considered by many to be one of the most beautiful of all time. It enters the history books for its totally performance-oriented design philosophy and dramatically low weight.

It is packed with innovative technology, including a brand new chassis with a mixed structure derived from aeronautical technology, made from magnesium alloy and steel tube.

This is the car from which the Alfa Romeo 4C draws its inspiration, form and content.

As can be seen at first glance, the two cars share the same lines, in which every single element has an essential function, and nothing is superfluous.

This perfect balance is the result of coherent design choices and perfect harmony between mechanical and stylistic requirements.



1967

2013

6.7



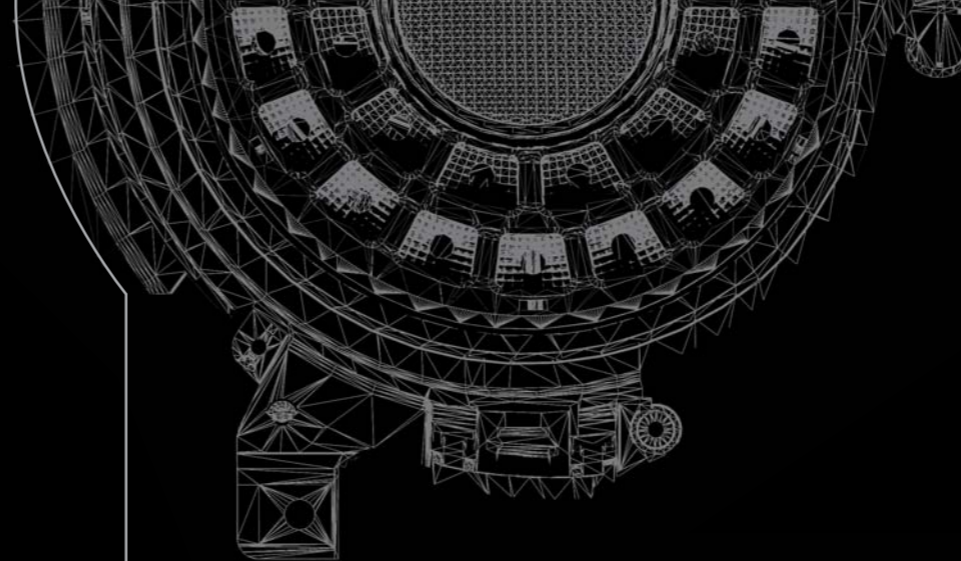
AR 0004C

Aerodynamic elegance

No concessions to style for its own sake, for convenience or for any desire to surprise. The inspiration behind the Alfa Romeo 4C is simple: pure performance. Every single design decision was taken with this in mind.

The heart of the beast, a centrally mounted engine, is clearly visible through the back window. Every other element of the car starts from here. The round rear light clusters blend into muscular rear wings that house the air intakes for the intercooler. The energy-packed and dynamic sides taper into a perfect front profile for the headlights, inside which two V-shaped lines dive down to the shield-shaped grille and Alfa Romeo symbol.

The result is a car that conveys the pure spirit of motorsport. Every structural element has been conceived to fulfil a specific aerodynamic function, and to help create the downforce needed to ensure maximum grip under fast cornering.





To start with, the unique body cell is made from bare carbon fibre. Inside, competition seats guarantee a comfortable but correct racing posture.

The seats incorporate a reinforced composite structure and special lightweight padding. The upholstery is in either technical fabric or leather.

On the 4C, absolutely everything expresses the racing spirit of Alfa Romeo. The steering wheel is moulded at the bottom. The dashboard is made from a thermoformed shell like those found on limited edition supercars. And the controls are all oriented towards the driver to give complete control of the car. The cockpit graphics have a high visual impact and are clearly inspired by those of sports motorcycles and competition cars. Aluminium pedals and heel guards form the last details of a true sporting character.

Entering an Alfa Romeo 4C means entering the world of motorsport. As with the exterior, everything on the inside has a precise function too. The 4C dispenses with the superfluous and provides only the essentials for superior driving performance.

Performance design



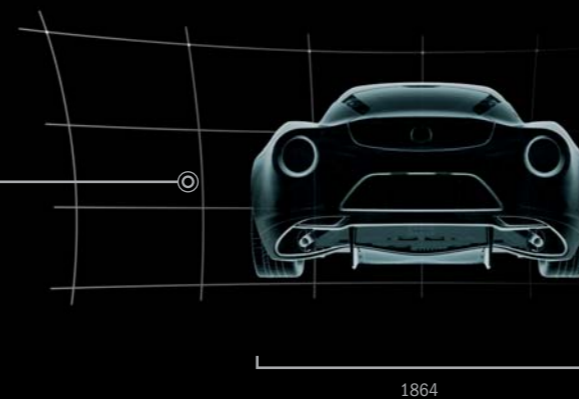




A concentration of efficiency

Just under 4 metres in length, 2 metres in width and only 118 cm in height. The design choices of the Alfa Romeo 4C are just as bold as its dimensions. Rather than use extreme power, the decision was taken to minimise weight instead. This challenge underlies the design of every component of the car.

The result is amazing: an unladen weight of under 900 kg propelled by 240 bhp, giving a weight to power ratio of under 4 kg/HP. A figure that promises genuine supercar agility and performance. This impressively low weight has been achieved by using ultra-light materials like carbon fibre, aluminium and composites, all chosen for maximum dynamic efficiency. Fast, powerful and evolved. On the 4C, advanced materials combined with Alfa Romeo's innovative processes and values have created a true concentration of efficiency.



Lightweight strength

First and foremost, carbon fibre was chosen to create the central passenger cell.

Carbon fibre offers major advantages over conventional materials, which are "isotropic", i.e. have the same strength characteristics in all directions.

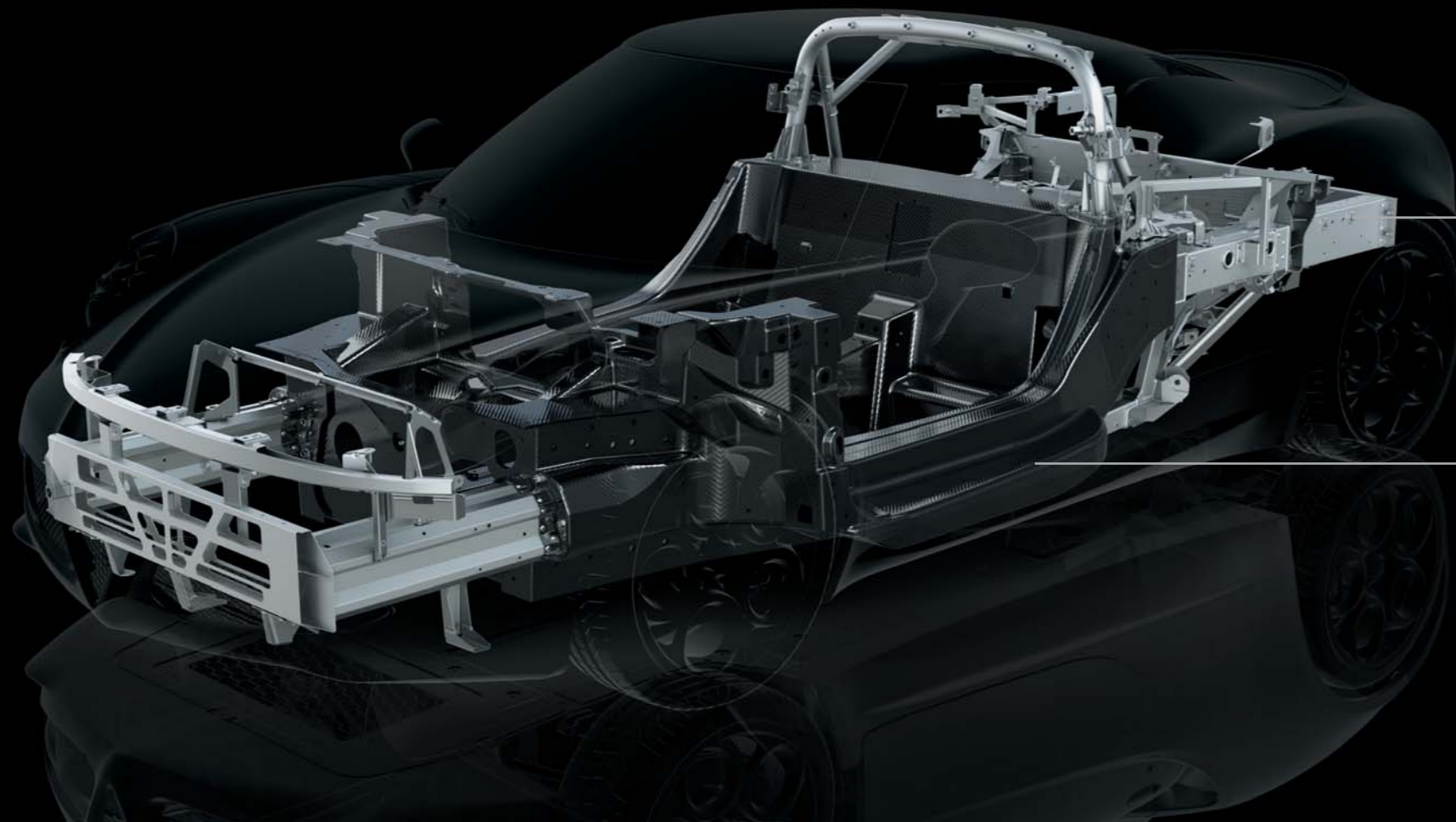
In unidirectional carbon fibre, because all the fibres run in the same direction, parts made from it can be up to 5 times stronger.

Aluminium, a strong but incredibly lightweight material, was used to make the engine mounting frame, the engine itself and the front and rear cells that protect the passenger compartment against impacts. Behind the occupants, a high strength steel roll-bar prevents deformation in the event of roll-over.

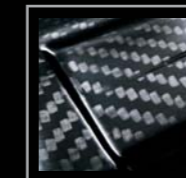
Advanced composite materials, previously thought too difficult to apply to production models, complete the car's innovative structure. On the Alfa Romeo 4C, **low density composites are used for the outer body** as they guarantee better stability than aluminium and 20% less weight than sheet steel.



Composite body shell



Aluminium engine frame



Carbon fibre passenger cell



Race architecture

Driving pleasure is the result of carefully balanced design. Rear wheel drive and a centrally mounted engine: the architecture of the Alfa Romeo 4C is typical of competition cars in which perfect weight distribution is the primary objective.

The Alfa Romeo 4C has rear wheel drive to make full use of the dynamic advantages afforded by this configuration. Rear wheel drive gives better grip under acceleration, when engine power throws weight towards the rear of the car.

Rear wheel drive also lets you enter curves at higher speeds, delivering a far more intense driving experience.

The aluminium engine is centrally mounted.

This significantly reduces weight as it eliminates the need for a propeller shaft and optimises weight distribution by concentrating mass near the centre for crisper handling.



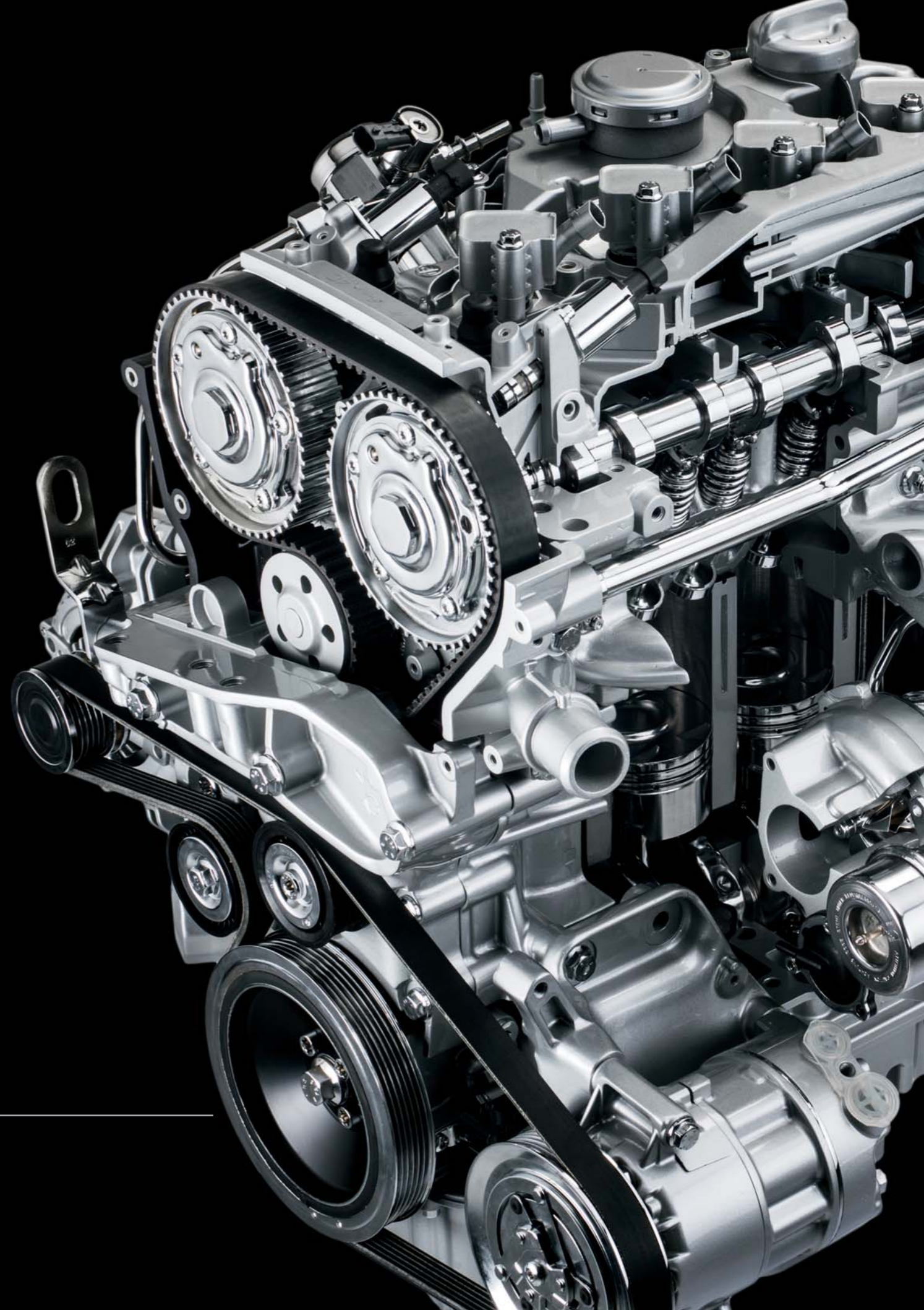
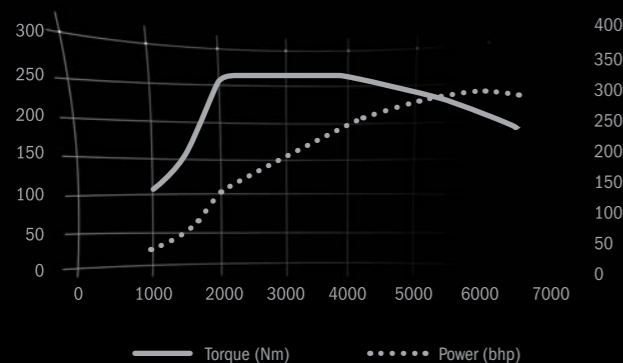
Hi-tech power

The 4C's 1750 cc turbocharged power plant is based on state-of-the-art engine technology. And Alfa Romeo's engineers have made this technology even more aggressive and efficient.

Four cylinders, an aluminium block and structure, a new generation turbocharger, ultra-high pressure direct fuel injection, two continuously variable valve timing units, scavenging technology and a dual clutch enable this 1750 cc unit to deliver unprecedented sporting performance.

Torque and specific power set new records for this size of engine. Maximum power of 240 bhp is reached at 6,000 rpm, confirming the unit's extraordinary elasticity and dynamism. Acceleration on the move and from a standing start is exceptional: the Alfa Romeo 4C accelerates to 0-62 mph in only 4.5 seconds and boasts a top speed of over 155 mph.

And that is not all. This impressive level of performance has been achieved with minimum impact on the environment. Thanks to multiple injection control and advanced anti-friction and energy loss reduction systems, the emissions of the Alfa Romeo 4C fall well within the strict limits of Euro 6.





Scavenging technology

The Alfa Romeo 4C's advanced scavenging technology maximises torque at low engine speeds and delivers more power in response to driver input. The control unit determines valve overlap times and angles with great precision to create a through-flow of air from the inlet manifold to the exhaust manifold. By improving the scavenging of the combustion chamber, this direct flow increases combustion efficiency and turbine speed and reduces turbo-lag.

Turbocharger

To complement the scavenging technology, the engine is also equipped with a new generation turbocharger and a pulse converter exhaust manifold that exploits pressure waves to boost torque at low engine speeds. The manifold and the turbine are made from microcast steel and designed to operate at very high temperatures (over 1000°) - a pre-requisite to low fuel consumption on medium-high speed motorway journeys. The wastegate valve is another essential device for engine efficiency. This adjusts turbo pressure control logic to suit driving conditions, minimising pumping losses.

After-Run Pump

Like all top competition cars, the 4C uses an automatic cool-down system to protect its turbocharger. Switching off the engine would normally cause the immediate stoppage of oil circulation, leaving the oil in the turbocharger to stagnate at very high temperatures. The thermal stress suffered by the oil in this way causes a loss of lubricating capacity and also leads to the formation of residues that can damage the engine. To prevent this, Alfa Romeo has introduced an after-run pump. This electric pump is automatically controlled by the ECU and keeps oil circulating through the turbocharger until it has cooled sufficiently.





Power alone could never deliver the superb performance of the Alfa Romeo 4C. An advanced transmission system is needed to control it. The 4C is equipped with an ALFA TCT 6-speed semi-automatic gearbox with dual dry clutch, a solution that combines the instant power of a sequential shift with all the convenience of an automatic. This system works like two gearboxes in parallel, each with its own clutch. The next gear is selected while the previous gear is still engaged, eliminating all discontinuity in power transmission.

The ALFA TCT clutch has been specially modified for use on the Alfa Romeo 4C. The 4C's special clutch features all-new control software that ensures the fastest possible gear shifts under all conditions. Gearshifts are more aggressive in the sporting performance modes, and drivers can clearly feel the new gear engaging, as on a racing car. On bends, however, gearshifts are completed in the smoothest way possible to avoid reducing stability.

The 4C is also fitted with Launch Control for easy high performance standing starts. Launch Control is activated by pressing the brake pedal while pushing the accelerator pedal all the way down and squeezing the paddle on the left of the steering wheel. As soon as you release the brake, the system automatically controls the gearbox, traction and power to maximise acceleration.

Natural
agility





Dynamic instinct

The functioning logic of all electronic systems has been optimised to obtain exactly the right level of performance for the driving conditions.

You can change the character of your 4C with the touch of a finger: docile and prudent (All weather), balanced but sporty (Natural) or fast and aggressive (Dynamic). The Alfa Romeo D.N.A. selector has offered three driving modes since 2008.

On the Alfa Romeo 4C, the system has been thoroughly revised to respond to the needs of a high performance supercar. The three existing modes have therefore been supplemented by a fourth: Alfa Race.



Alfa Race

Alfa Race is the most extreme performance mode, and is engaged by moving the mode selector to Dynamic position and holding it there for a few seconds. Alfa Race mode puts you in total control of your car under race conditions. By minimising the interventions of electronic systems, it leaves you, the driver, in complete command.

In Alfa Race mode, ESC stability control is normally deactivated and only intervenes to prevent loss of control under fierce braking. ASR is also deactivated under acceleration and braking, leaving you to control traction through the accelerator pedal alone. Alfa's Q2 differential control system, on the other hand, remains active, as it is essential for fast exits from bends.



Dynamic

Dynamic mode configures the car to deliver great driving performance. Engine control parameters are configured to respond instantly to accelerator input and the ALFA TCT gearbox selects a rapid action program to reduce gear shift times by up to 25%. The ESC system permits a certain angle of drift and only intervenes if the steering wheel position and drift angle could put the car at risk.



Natural

Natural mode is designed for everyday use. Gearshift parameters are configured for maximum comfort and smoothness. In manual mode, the ALFA TCT gearbox makes up for loss of driver concentration. The Auto-Up function shifts up to the next gear when engine speed approaches the permitted limit, while the Auto-Down function shifts down as soon as engine speed falls below 1000 rpm. Finally, the Alfa Electronic Q2 differential operates in soft mode and only cuts in if one of the rear wheels suffers a significant loss of grip.



All weather

All Weather mode should be selected to ensure maximum safety under adverse weather conditions. In All Weather mode the car responds to accelerator input very gently. The ASR system selects special engine and brake control logic and, in the event of loss of grip, modifies power to match road speed and prevent skidding that could otherwise be difficult to control.

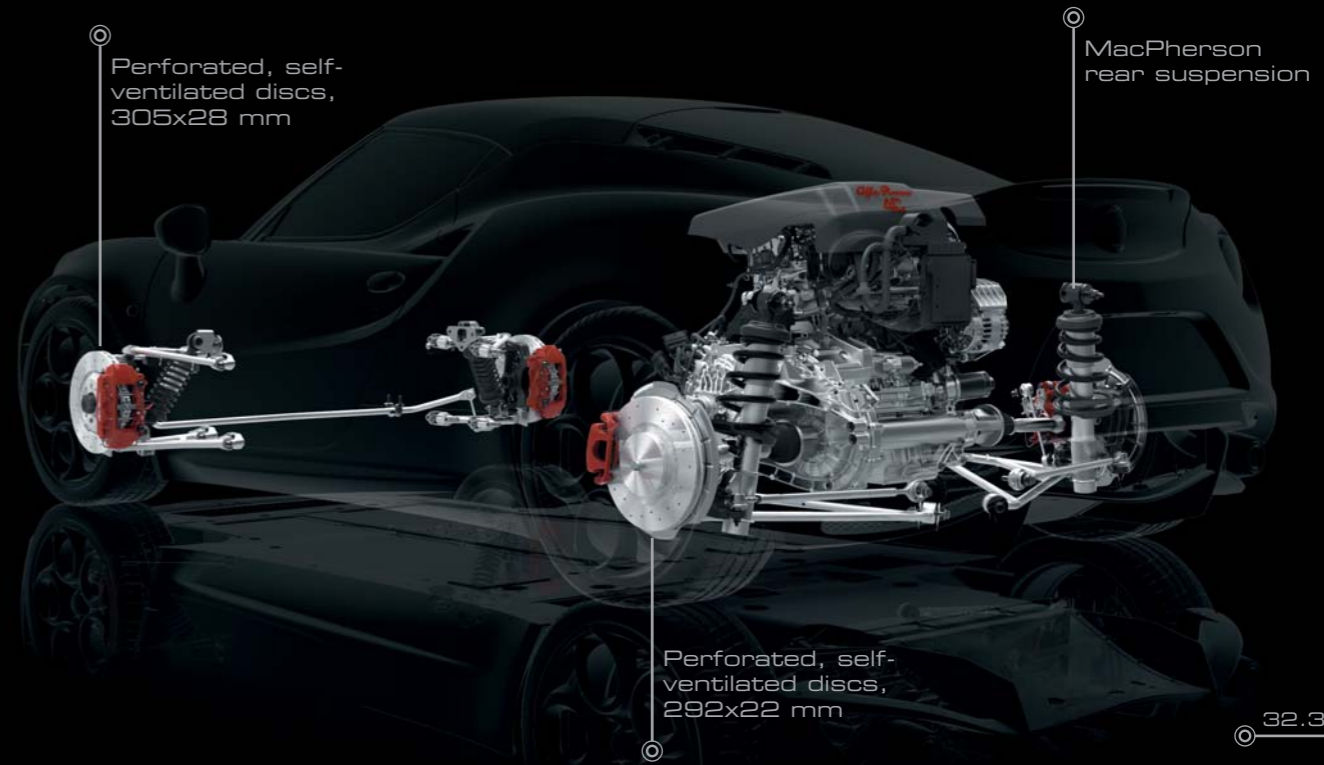


Sport suspensions, self-ventilated brake discs and different diameter tyres: the 4C boasts an advanced ride control system, conceived to keep weight down to a minimum.

The suspension adopts race-derived technical solutions to optimise performance and deliver unrivalled driving pleasure. At the front, the Alfa Romeo 4C features a double wishbone configuration that gives direct and unfiltered feedback from the road. At the rear, advanced MacPherson suspension ensures superb road holding and driving fun, even in the most extreme manoeuvres.

Both front and rear suspension systems are made from aluminium and high strength steel.

The braking system is designed for high performance race track use. The perforated, self-ventilated front discs and Brembo calipers take the car from 62 to 0 mph in only 36 metres. And to ensure maximum grip and prevent skidding under all conditions, the 4C is fitted with different diameter tyres, 17"-18" or 18"-19", with the larger size on the rear for the best possible handling.



Perforated, self-ventilated discs, 305x28 mm

MacPherson rear suspension

Perforated, self-ventilated discs, 292x22 mm

Advanced Control



Italian attention to detail

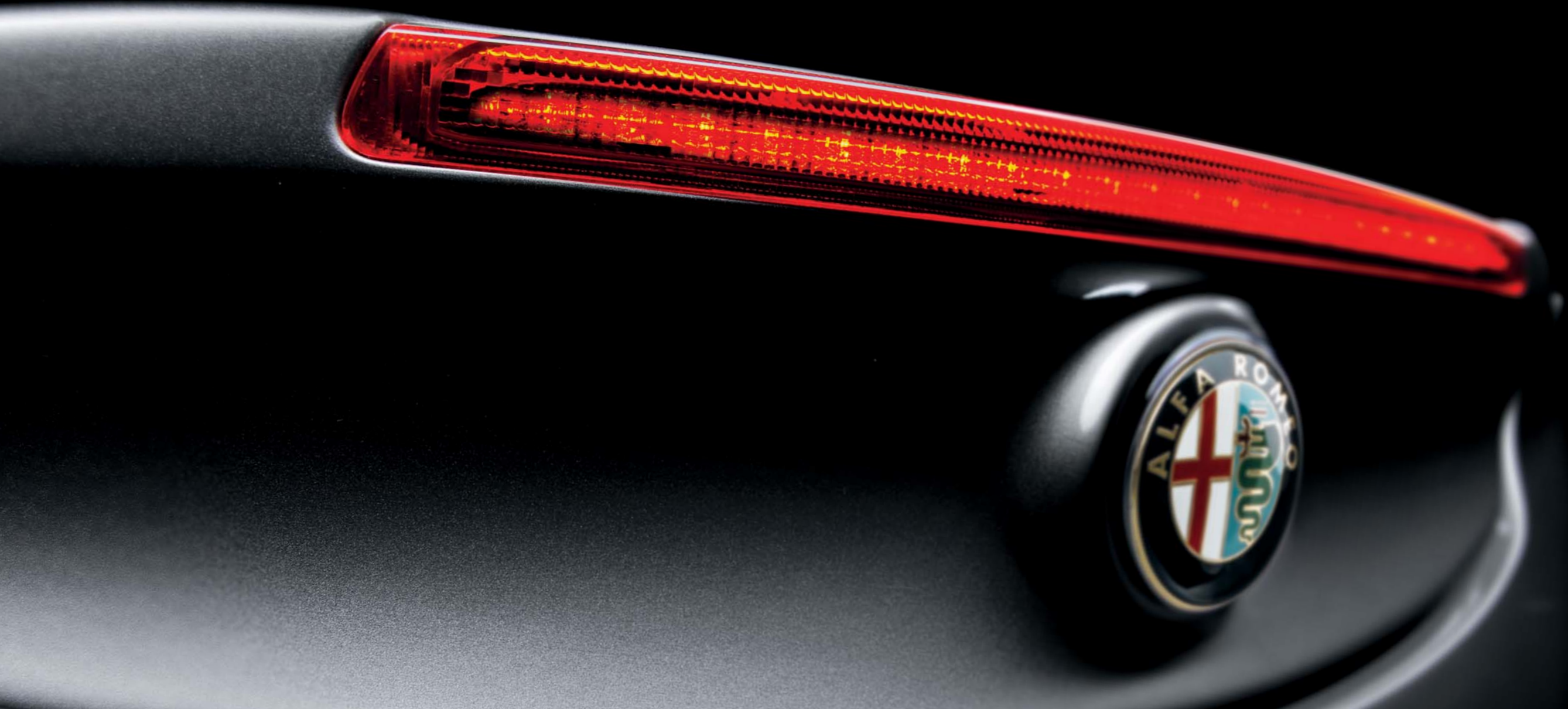
Alfa Romeo decided to produce the 4C in Modena, and set up a dedicated unit inside the town's Maserati works. Here, the focus is always on evolved technology and top quality craftsmanship, a combination that leads to the production of cars that are truly unique in technical solutions and attention to detail.

On the 4C assembly line, people make the difference. The expert technicians dedicated to the production of this new Alfa Romeo have undergone 500 hours of special training and have also followed the product development process for the last 10 months.

They all have an enviable level of in-depth technical knowledge as a result.

Assembly technicians follow every phase of the process personally and, at the end of the line, perform rigorous quality control tests to ensure that all components function perfectly. The finished car is then handed over to expert test drivers for dynamic performance testing under a wide range of conditions. Only then is a new Alfa Romeo 4C declared ready to take to the road.





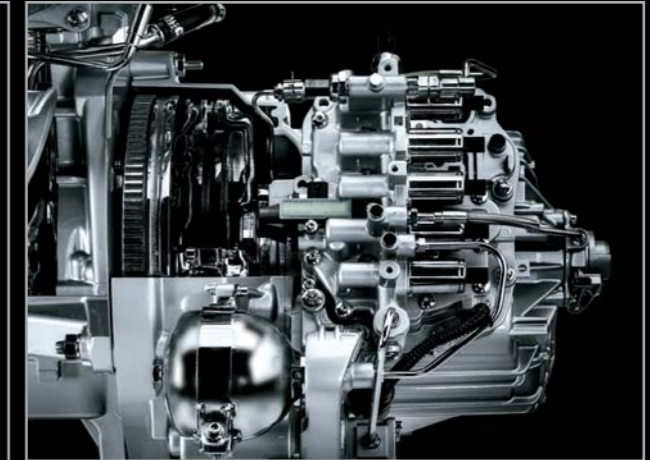
Technical specifications
and equipment

Technical specifications

ENGINE	
Type	1750 cc, aluminium, 4 cylinders, turbocharged
Position	Central
Orientation	Transverse
Displacement (cm ³)	1742
Maximum power bhp (kW-EC) at rpm	240 (177) 6000
Maximum torque Nm at rpm	350 between 2200 and 4250
DRIVING MODE SELECTOR	
Type	Evolved Alfa D.N.A.
Positions	All Weather, Natural, Dynamic, Race
TRANSMISSION	
Gearbox	ALFA TCT with dual dry clutch, paddle controls and Launch Control
Number of gears	6 + R
Drive	Rear
Differential	Electronic Q2
CHASSIS	
Type	Carbon fibre monocoque
Front suspension	Double wishbone
Rear suspension	Evolved MacPherson
Front brakes (mm)	Dual-cast, perforated, self-ventilated 305x28 discs with Brembo fixed 4 piston calipers
Rear brakes (mm)	Perforated, self-ventilated 292x22 discs
Standard front tyres	205/45 R17
Standard rear tyres	235/40 R18
STEERING	
Steering box	Rack and pinion
PERFORMANCE	
Acceleration 0 - 62 mph (secs)	4,5
Braking distance 62 - 0 mph (m)	36
Top speed (mph)	160
Maximum deceleration under braking (g)	1,25
Maximum lateral acceleration (g)	1,1
CAPACITIES - WEIGHTS	
Unladen weight (kg)	895
Fuel tank (litres)	40
*CONSUMPTION - EMISSIONS according to Directive 1999/100/EC	
Urban cycle mpg (l/100 km)	28.8 (9.8)
Extra-urban cycle mpg (l/100 km)	56.5 (5.0)
Combined cycle mpg (l/100 km)	41.5 (6.8)
CO ₂ emissions (g/km)	157
Environmental classification	Euro 6
DIMENSIONS	
Number of seats	2
Length (mm)	3989
Width (mm)	1864
Height (mm)	1183
Wheelbase (mm)	2380
Luggage compartment capacity (dm ³)	110



1750 cc, aluminium, 4 cylinder, turbocharged engine



ALFA TCT gearbox with dual dry clutch, paddle controls and Launch Control



Dual-cast, perforated, self-ventilated, 305x28 mm front discs with Brembo fixed 4 piston calipers



Carbon fibre monocoque chassis



Colour combinations

SPORTS SEATS	Black fabric with red stitching	Black leather	Red leather	Leather and microfibre fabric with red stitching
Code	196	430	479	690
PASTEL				
5CB Black	•	○	○	○
5CA White	○	○	○	○
74F Rosso Alfa	○	○	○	○
METALLIC				
210 Basalt Grey	○	○	○	○
THREE-LAYER METALLIC				
6FW Madreperla White	○	○	○	○
5JQ Rosso Competizione	○	○	-	○

Standard • Available ○ Not available -



Black fabric with red stitching



Black leather



Red leather



Leather and microfibre fabric with red stitching



5CB Black



210 Basalt Grey



5CA White



6FW Madreperla White



74F Rosso Alfa



5JQ Rosso Competizione



Equipment

Standard ● Optional ○ Accessory ▲

INTERIOR EQUIPMENT	
17" - 18" alloy wheels	●
17" - 18" alloy wheels with matt black diamond finish	○/▲
18" - 19" 5-hole alloy wheels	○/▲
18" - 19" 5-hole alloy wheels with matt black finish	▲
Grey brake calipers	●
Black brake calipers	○/▲
Yellow brake calipers	○/▲
Red brake calipers	○/▲
Double exhaust tailpipe	●
Anodised skid plate	●
Rear parking sensors	○
Spoiler in body colour	○/▲
Satin Finish wing mirror covers	○/▲
Chrome wing mirror covers	▲
Stickers	▲
Italian flag badge	▲
LIGHTING SYSTEM	
LED rear lights	●
Bi-LED headlights	○
Carbon fibre headlight surrounds	○/▲
PERFORMANCE	
Racing double exhaust tailpipe	○/▲
Racing suspension (suspension units, rear anti-roll bar, special front anti-roll bar)	○/▲
AR Racing	○/▲
SAFETY	
Electronic Stability Control with electronic Q2	●
ABS, ASR, CBC, Hill Holder	●
Driver and passenger airbags	●
Tyre Pressure Monitoring System	●
Tyre kit	●
Volumetric, anti-lifting alarm system with second key	●
PACKS	
Racing pack (racing suspension, racing exhaust, AR Racing tyres, 18/19" 5-hole wheels, sports steering wheel in leather with microfibre insert and red stitching)	○
Luxury Pack (mixed leather and microfibre fabric sports seats with red stitching, Bi-LED carbon fibre headlights)	○



17" - 18" alloy wheels



17" - 18" alloy wheels with matt black diamond finish



18" - 19" 5-hole alloy wheels



18" - 19" 5-hole alloy wheels with matt black finish



Grey brake calipers



Red brake calipers



Yellow brake calipers



Black brake calipers



Racing double exhaust tailpipe



Chrome wing mirror covers



Spoiler in body colour



Carbon fibre headlights



18" - 19" 5-hole alloy wheels with matte black finish and red brake calipers, body coloured spoiler, Bi-LED headlights with carbon fibre headlight surrounds, stickers and Italian flag badge

Equipment

Standard ● Optional ○ Accessory ▲

INTERIOR EQUIPMENT	
Height and reach adjustable steering wheel in leather	●
Paddle gearshift controls	●
Sports steering wheel in leather with microfibre fabric insert and red stitching	○/▲
Cruise Control	○
Sports seats in black fabric with red stitching	●
Sports seats in black leather	○
Sports seats in red leather	○
Sports seats in mixed leather and microfibre fabric with red stitching	○
Red interior kit (door pull handle, central tunnel, handbrake grip and boot, steering wheel insert)	○
Aluminium pedals and footrest	●
Aluminium passenger footrest	●
Carpets kit with embroidered logo	○/▲
Black leather car bag	○
Cup holder	○
Smoker's kit	○
ELECTRICAL SYSTEM	
Remote central locking	●
Electric windows	●
12 Volt socket	●
Provision for radio	●
Radio with web applications, voice recognition and hands-free telephony (free optional)	○
Alfa Hi-Fi Sound System	○
Electric door mirrors	●
Door mirrors with electric defrosting	○
INSTRUMENTATION	
Evolved, 4-position, Alfa D.N.A. driving mode selector	●
Evolved instrumentation with turbo pressure and oil temperature gauges, g-g meter for longitudinal and transverse acceleration	●
Full digital instrument panel with TFT technology	●
Carbon fibre instrument panel fairing	○/▲
Manual air conditioning system (free optional)	○
ACCESSORIES	
Emergency triangle	●
Alfa Romeo 4C trolley case	○/▲
Red car cover with Alfa Romeo 4C logo	○/▲
Battery charge holder	○/▲
First aid kit	○
Car care kit	○/▲
Fire extinguisher	○/▲



Sports steering wheel in leather with microfibre fabric insert and red stitching



Sports seats in red leather



Full digital instrument panel with TFT technology
Carbon fibre instrument panel fairing



Evolved, 4-position, Alfa D.N.A. driving mode selector



Alfa Romeo 4C trolley case



Red car cover with Alfa Romeo 4C logo





