

# The BMW 3 Series Saloons



BMW AG

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**A whole range of outstanding qualities characterises the BMW 3 Series saloon.** For example the car's unmistakable styling, its numerous comfort features and amenities, the exemplary standard of all-round safety, and last but not least supreme agility on the road. But perhaps the most outstanding feature is the 3 Series' ability to satisfy the most different demands and requirements – for instance through the large range of engines. In particular, of course, there is the new generation of extremely smooth and dynamic six-cylinder power units in the 320i, 323i, and 328i. Petrol engines clearly reflecting our competence in engine technology. And as an alternative, two modern four-cylinder petrol engines and three unique turbodiesels supplement the range, the latter combining the economy typical of a diesel with the performance characteristic of a BMW. Then, to emphasize your personal style, there is our Personal Line fitments concept allowing you, quite apart from the options available, to create your very own BMW 3 Series reflecting your taste and preferences. For only such an all-round approach can provide the unique features that make the BMW 3 Series saloons so very special – sheer driving pleasure at its best.

Through its unmistakable profile, the BMW 3 Series saloon embodies a unique symbiosis of functional technology and modern aesthetic design. It is an automobile with truly exceptional looks based on elegant lines, harmonious proportions, and advanced styling.

The BMW 328i – an outstanding combination of exceptional elegance and thrilling performance wherever you go.



The unique class of a superior concept: Offering an unmistakable blend of discreet understatement and exclusive

design, the BMW 3 Series has established a new benchmark in the world of motoring.



The successful interaction of proportions and body features shows

from all perspectives that the truly outstanding automobile is one all-

round symbiosis. To us design is a powerful expression of quality.



Each detail meets the highest standards in terms of function. For example the loading

sill of the luggage compartment extending right down to bumper level.



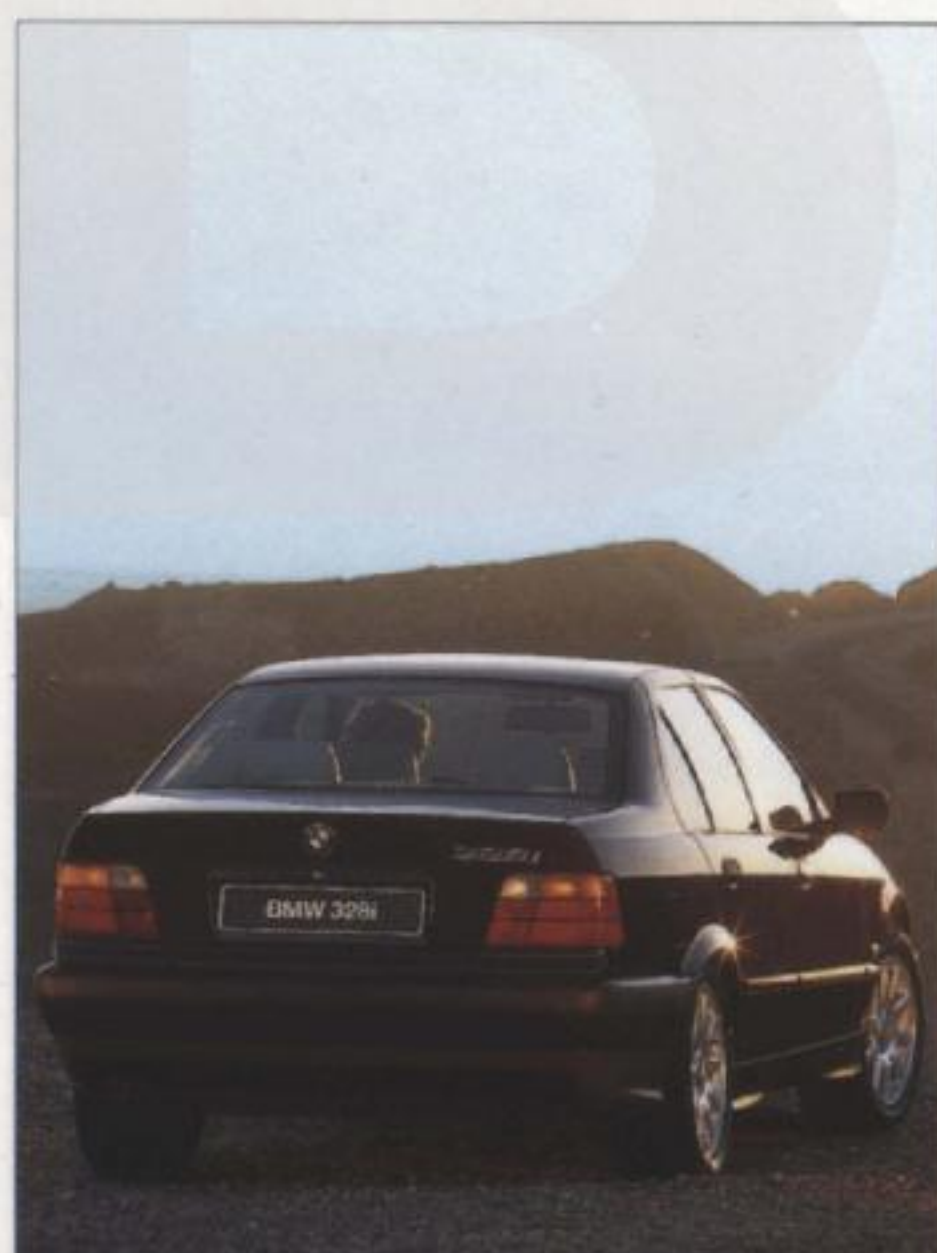
An automobile built with technical skill and a passion for perfection: the BMW 3 Series saloon.

The dynamic driving qualities of the 3 Series saloon come out clearly both in city traffic and on country roads. Ensuring supreme handling and agility thanks to a suspension which combines exemplary safety with the highest standard of comfort. What more can you ask for as the foundation for superior driving pleasure?



Active safety: The high-performance suspension and patented central-arm rear axle provide a firm but

comfortable ride. The foundation for easy-to-control, absolutely neutral handling.



Wherever you go, supreme smoothness and noise control make

every journey – no matter how long – a genuine pleasure.

The world does not end at the city limit. For you have to go further to really appreciate some particular assets. Such

as the ability of the BMW 3 Series to combine supreme comfort with dynamic performance at the wheel.





Superior: With its harmonious blend of engine performance and suspension technology, the BMW 3 Series saloon – whether petrol- or diesel-powered – ensures fascinating dynamism and agility on the road. Features which more than satisfy your everyday motoring requirements and guarantee greater driving pleasure than ever before.



**Supreme performance** is a matter of principle in the BMW world. And the best example to prove this claim is the power unit of the BMW M3, a unique, unparalleled driving machine. For both this engine and the BMW M3 as a whole offers a unique blend of staggering performance, silky-smooth refinement, everyday reliability, and the qualities of a sportscar.

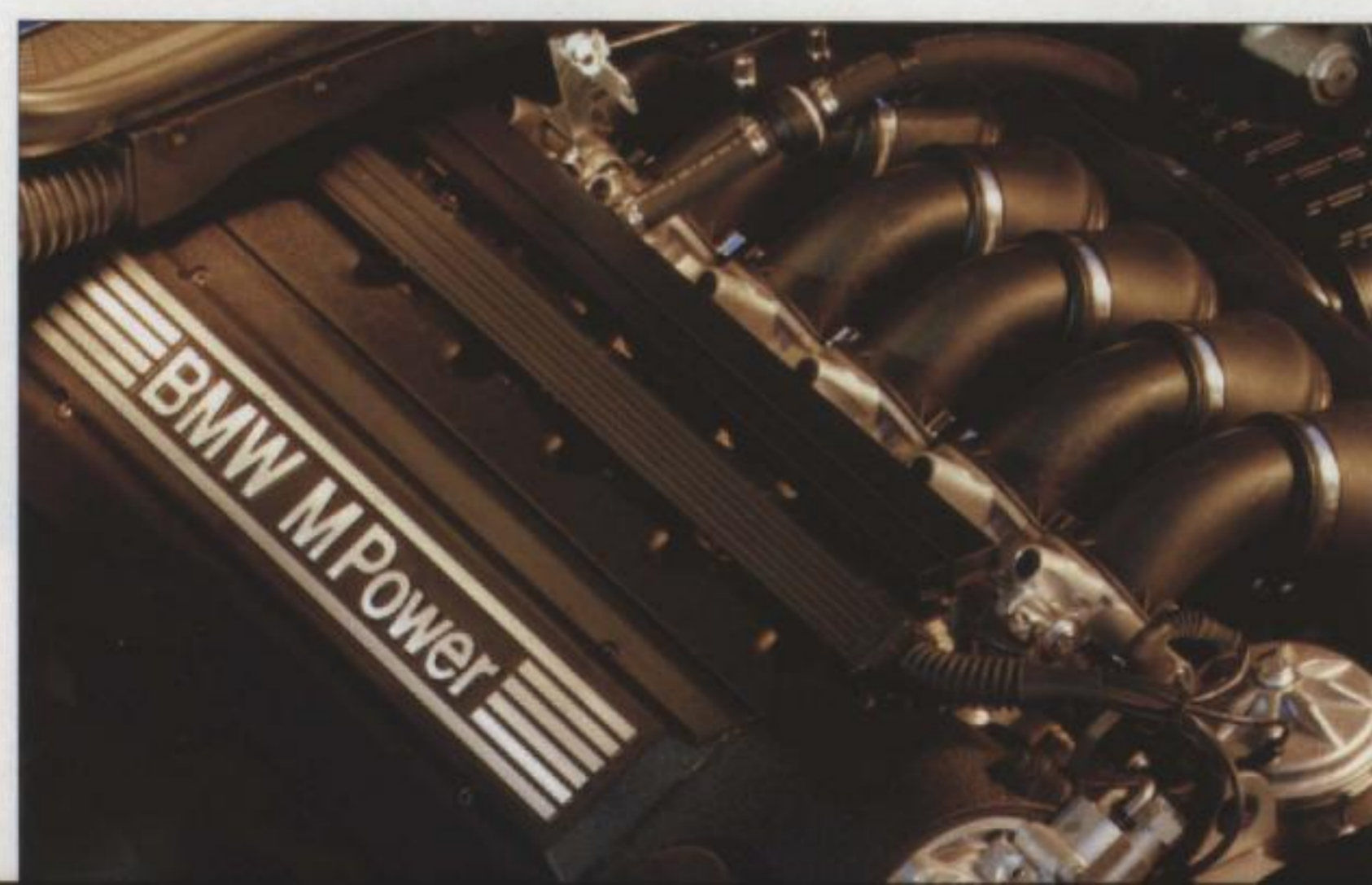
One of the most thrilling normal-aspiration engines in the world, a six-speed manual gearbox, brakes adopted straight

from motorsport, and a high-performance suspension which also ensures superior motoring refinement at all times.

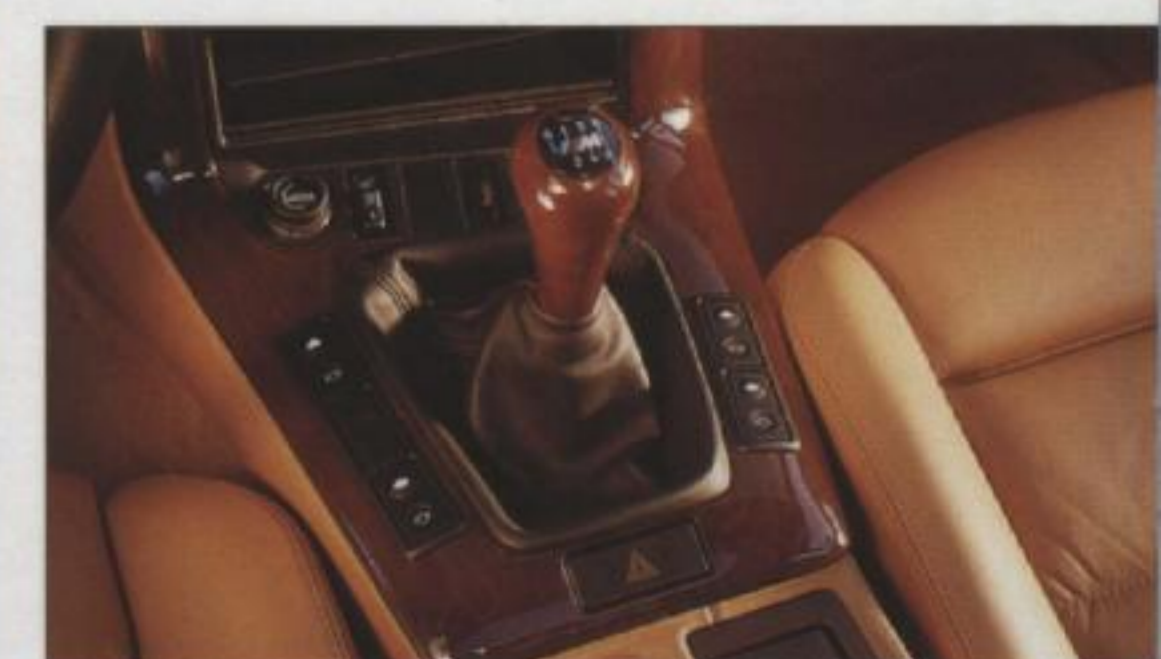


The new 3.2-litre high-performance power unit develops an output of more than 100 bhp per litre – among other things with the help of BMW's double-VANOS camshaft control and new, "intelli-

gent" engine electronics. Maximum torque of 350 Nm or 258 lb-ft comes at just 3250 rpm, emissions and fuel consumption are even lower than before.



The unique ambience of the interior – a product of top-quality wooden trimming and the finest leather. And the result of supreme craftsmanship to satisfy the most demanding connoisseur.



**The focal point of everything** we do is the driver. And you see this at first sight, for example when admiring the consistently ergonomic design of the cockpit. For we regard precisely this kind of design as an essential prerequisite for relaxed and safe motoring – and for a thrilling time at the wheel.

From its driver-oriented cockpit all the way to the perfect finish of top-quality

materials, the BMW 3 Series saloon offers you quality to the last detail.



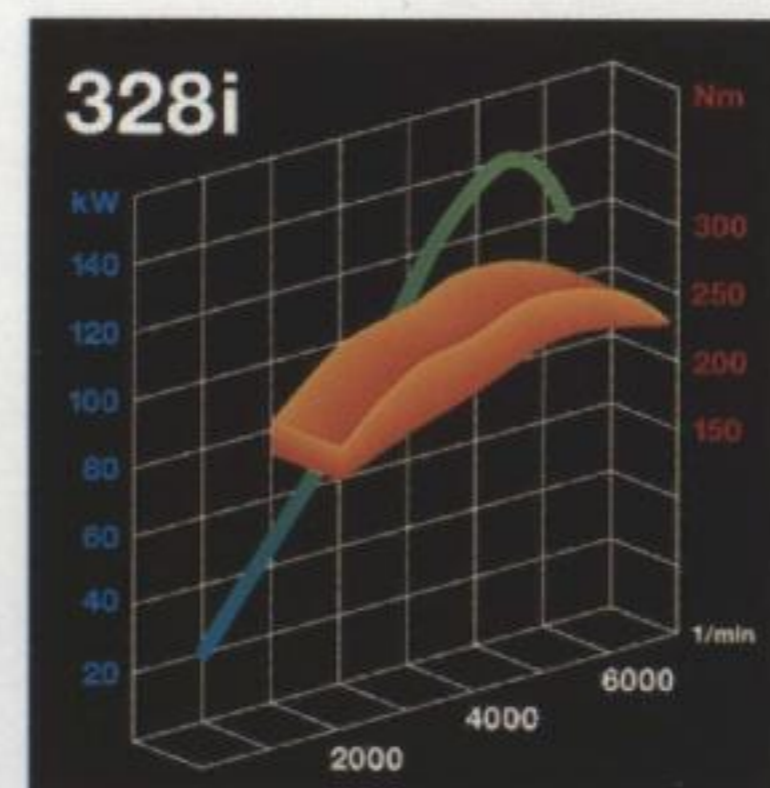
The new generation of BMW six-cylinders results from a unique combination of modern technology and a modern frame of mind: We have increased the torque of the engine, not its absolute output. We have reduced fuel consumption, not the supreme standard of smoothness and agility. And we have given new momentum to that sheer driving pleasure available only from BMW.



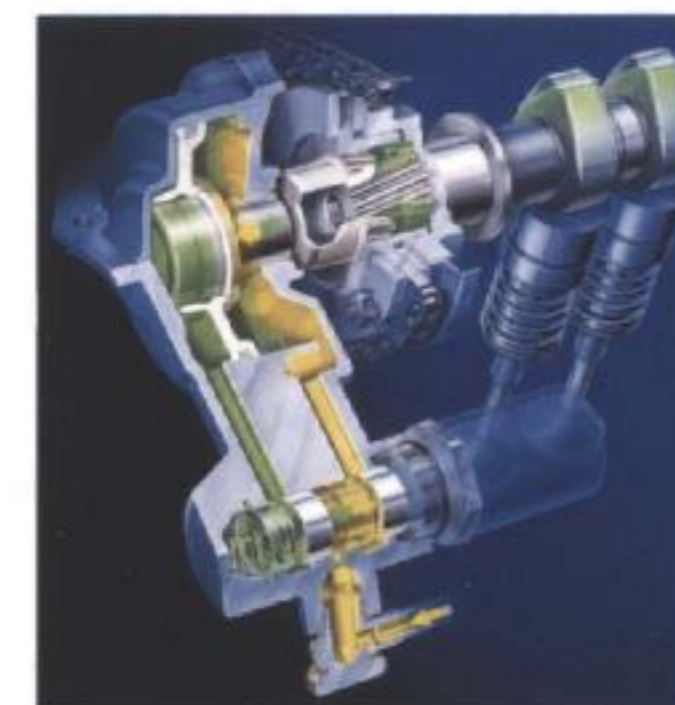
Less weight for even more driving pleasure: The six-cylinder 2.8, 2.5 and 2.0-litre petrol engines feature a cylinder head and engine block made entirely of aluminium, and the entire exhaust system has be-

come much lighter. We have also reduced friction within the engine, meaning that in conjunction with sophisticated systems such as Digital Motor Electronics (DME) and four-valve technology both performance and fuel economy have been significantly improved.

The 2.8-litre power unit of the 328i gives the car exactly the right torque for supreme motoring in every situation. Even at low engine speeds you



benefit from the huge muscle of the engine building up effortlessly to a magnificent crescendo.



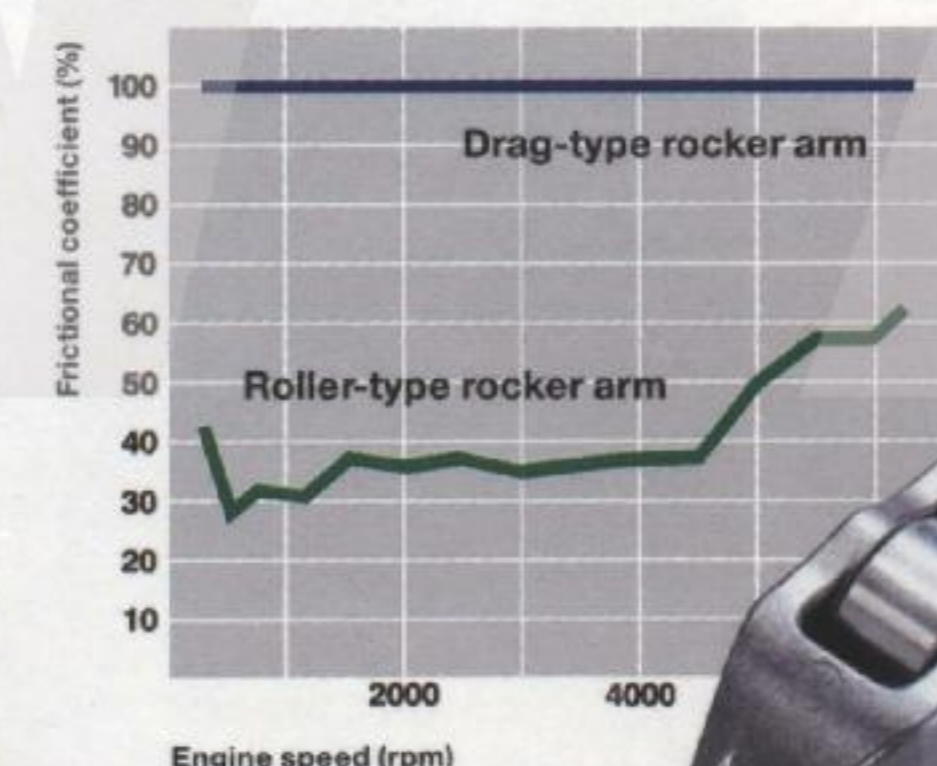
An outstanding example of innovative engine technology: BMW's variable camshaft control (VANOS) substantially improves the six-cylinders' torque curve, ensuring that power is developed even

more smoothly and flexibly throughout the entire speed range.

BMW's highly economical 1.6 and 1.8-litre four-cylinders: Modern, smooth power units characterised by above-average torque at all speeds. Highly advanced engine management and innovations in technology such as individual-control intake manifolds (ICIM) ensure a perfect blend of up-to-



date fuel economy and maintenance reduced to a minimum.



The modified valve drive system featuring roller-type rocker arms on the four-cylinder models reducing friction on the camshaft by up to 60 per cent. The result of this superior technical solution is a considerable increase in fuel economy despite the superior power of the engine.

Cylinder-specific knock control gets the most out of the fuel consumed, ensuring

that the engine works constantly with maximum efficiency.



## Technology Guide

**Digital Motor Electronics (DME)** controls, monitors and masterminds all central functions such as the car's ignition and fuel injection, as well as numerous ancillary functions such as the oxygen sensor. As a result, DME guarantees optimum power and performance on minimum fuel and with enhanced emission control.

**On-board diagnosis** is one of the functions of DME or DDE (Digital Diesel Electronics). Its task is to recognise deficiencies in time before they can do any damage, defect reports therefore being electronically "memorised" and subsequently displayed on the screen of the BMW Diagnostic Information System. This facilitates the process of trouble-shooting and reduces the cost of maintenance to a minimum.

**Variable camshaft control (VANOS)** uses data provided by DME engine management to hydromechanically adjust the intake camshaft as a function of engine speed. The intake valves are therefore opened at a later point at low speeds in order to improve idling quality and running smoothness. At medium speeds, in turn, the intake valves are opened earlier, thus providing much more torque and recirculating exhaust emissions within the engine in the interest of enhanced fuel economy and emission control. And at high engine speeds valve opening is once again retarded for maximum power.

The **individual-control intake manifolds (ICIM)** feature a connection flap between the manifold tubes. Closed at low engine speeds, the flap provides high torque thanks to the long intake travel, then opening up at higher speeds for shorter intake travel and, as a result, enhanced output.

**Cylinder-specific knock control** offers maximum power and performance on minimum fuel. As soon as the engine is about to knock, sensors inform the DME control system accordingly, which immediately modifies the ignition angle and timing.

**Digital Diesel Electronics (DDE)** determines exactly when fuel injection is to start as well as the volume of fuel supplied and charge pressure, thus ensuring unprecedented fine tuning under all running conditions. The result is even greater economy, a further improvement in motoring culture, and minimisation of harmful emissions.

BMW diesel engines applying the **modified turbulence chamber principle** force air during compression from the main combustion chamber through a special duct into a spherical chamber. This generates an intense swirl effect, fuel being injected right into the middle. The fuel/air mixture ignited in this way then moves through the connecting duct back to the main combustion chamber, where it burns together with the remaining air. In conjunction with the V-shaped crowns in the piston trough, the consistent increase in pressure within the cylinders and the swirl effect in the turbulence chamber as engine speeds increase ensure virtually complete combustion at all times. The engine runs smoothly throughout its entire speed range, a further advantage being that smoke in the emissions is reduced to a minimum by the efficient use of air. And this, in turn, means optimum emission control and fuel economy.

The **turbocharger** increases engine output even further: Exhaust energy which otherwise would be wasted is used to drive a small turbine which, in turn, pumps fresh air to the engine. This ensures an optimum charge in the combustion chambers, the turbocharger being combined with robust two-valve technology to provide a harmonious performance profile.

Using a special heat exchanger, the **intercooler** cools the air drawn in and pre-compressed by the turbocharger before it passes on to the combustion chambers. This not only improves the combustion process even further, but also

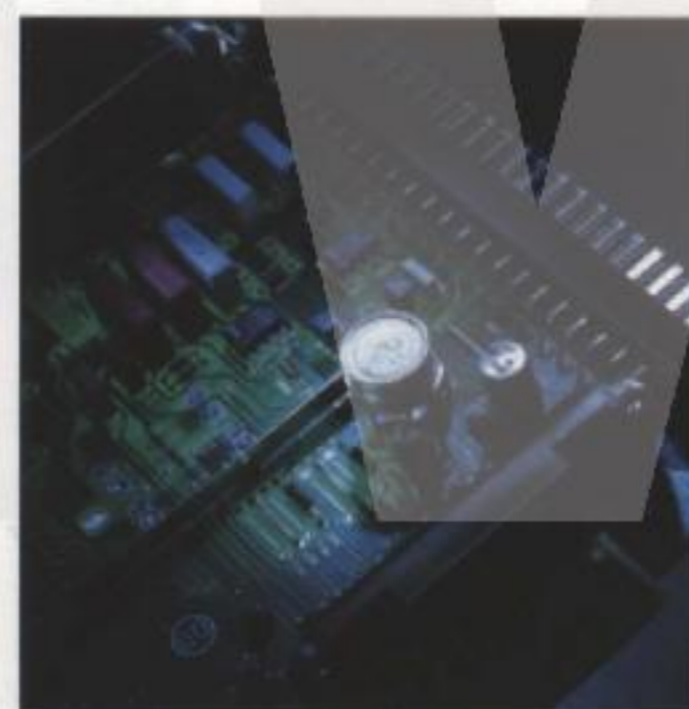
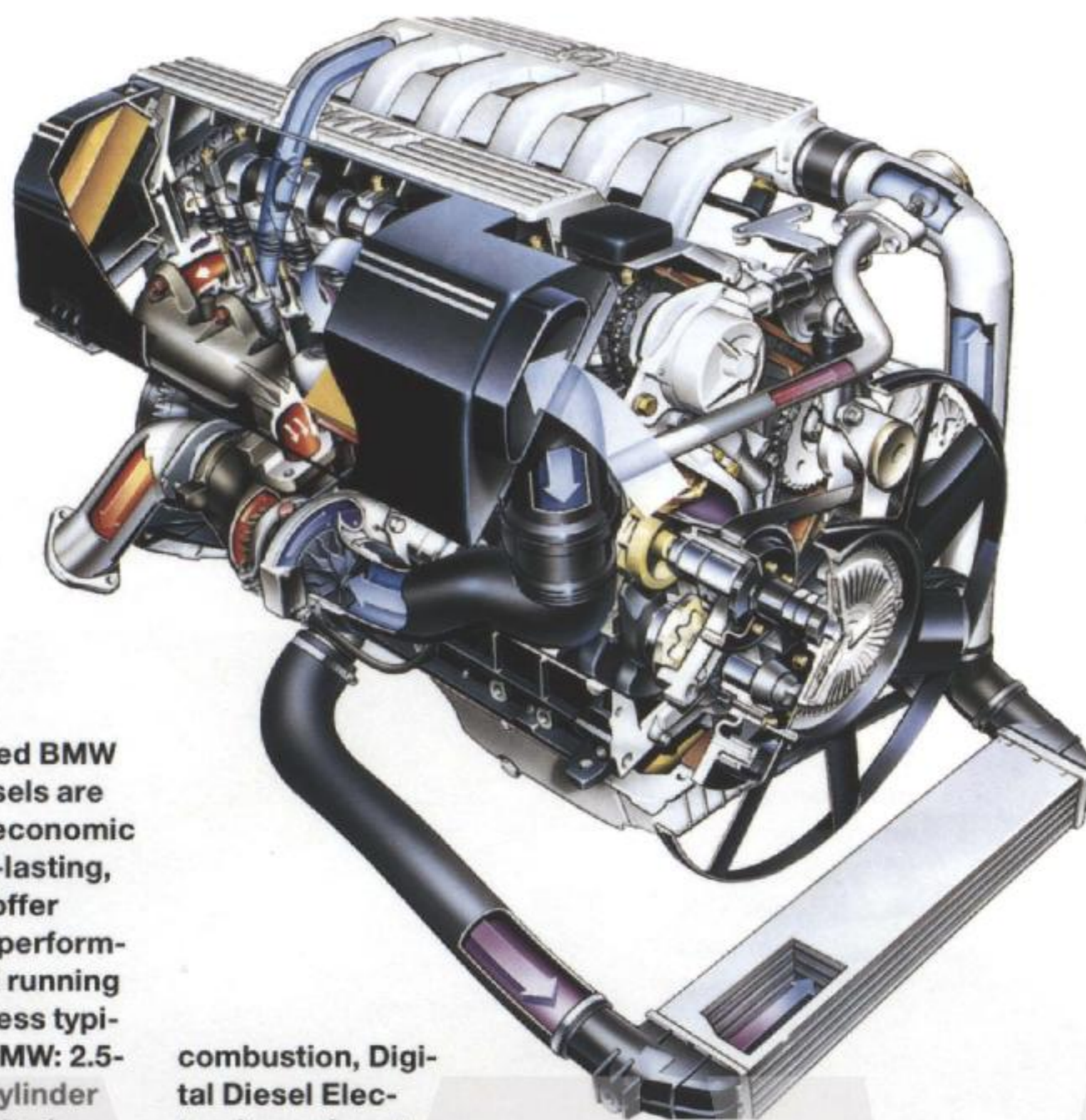
The refined BMW turbodiesels are not only economic and long-lasting, but also offer superior performance and running smoothness typical of a BMW: 2.5-litre six-cylinder power units featuring, inter alia, a turbocharger, turbulence chamber

combustion, Digital Diesel Electronics, exhaust emission recirculation, and a diesel catalyst for superior output and exemplary emission control. The highlights of the 325td and the 325tds even more dynamic thanks to its intercooler technology.



The most economic way to enjoy driving pleasure BMW-style is with the 1.7-litre four-cylinder turbo-diesel. An engine featuring a tur-

bocharger, modified turbulence chamber and intercooler providing supreme fuel economy and running smoothness.



Advanced engine management: Digital Diesel Electronics (DDE) operating in the same way as DME on BMW's petrol engines monitors all major engine functions with utmost precision.

Forming a winning team together with the spring strut front axle, the patented central arm rear axle provides the foundation for a thrilling experience on the road and excellent motoring comfort. The special alignment of the wheels ensures very good directional stability and impressive safety reserves – an essential prerequisite for active safety BMW-style.

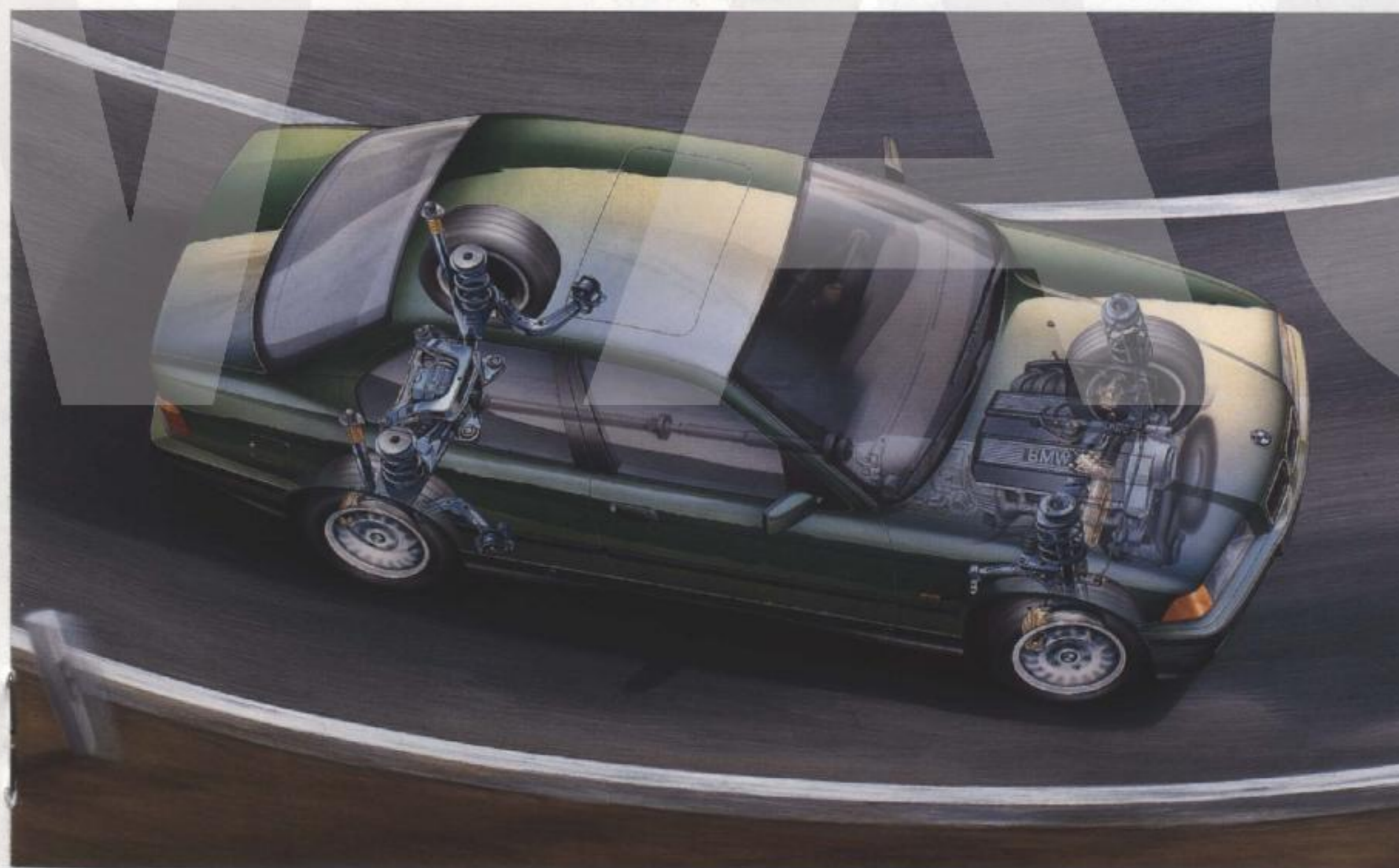


**Full encapsulation of the engine** makes a significant contribution to the exemplary low noise level of the BMW turbodiesel. Encapsulating the engine almost completely, special fleece lining at the top and at the sides as well as sealing pads at the bottom extending from the front apron until behind the transmission reduce noise to a minimum.

Fitted as standard, the **diesel catalyst** helps to qualify the BMW turbodiesel as a particularly low-emission car.

The **two-mass flywheel** prevents even the last, unavoidable unsmoothness of the engine caused by firing pulses conveyed through the clutch to the transmission. As a result, no disturbing noise is able to reach the passenger compartment even at very low idling speeds.

The **central arm rear axle** is an elaborately designed multi-link configuration to save both weight and space. It rests on two track control arms and one longitudinal arm pivoting on the central base in the body of the car. Precise interaction of these arms ensures that the wheels remain firmly on the road, regardless of spring motion. The result is excellent directional stability, the elastic steering mounts even giving the axle a specific steering effect and providing additional stability in bends. The mounts also absorb the smallest vibrations caused by bumps on the road and give the car excellent roll comfort and acoustic control.



The BMW 3 Series sets the standard in its class through its outstanding chassis

and suspension combining a firm ride with superior comfort, agility with safe handling. And the well-balanced combination of

track versus wheelbase as well as front-to-rear weight distribution of almost 50:50 ensure an excellent blend of maximum safety

and supreme comfort.

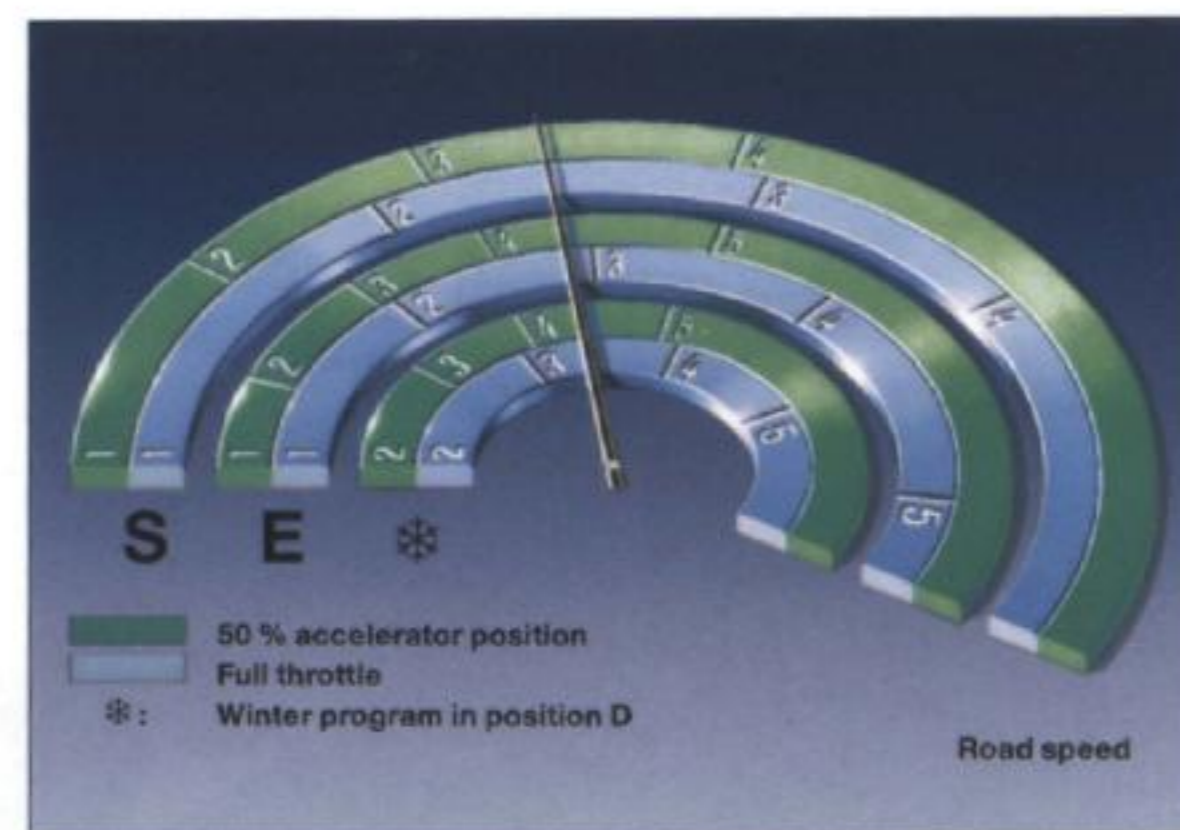
The **electronic/hydraulic (EH) automatic transmission** conveys power hydraulically from the engine to the gearbox, shifting automatically in accordance with current requirements and enabling the motorist to choose either a particularly economical (E) or a more sporting (S) style of driving. Designed for active motoring, the five-speed automatic transmission shifts back quickly whenever necessary even at high speeds in order to optimise the car's acceleration (fifth gear serves as overdrive). The third program is specially conceived for motoring in winter (\*), gear-shifts being particularly "soft" for driving on slippery ground. By contrast, the four-speed automatic transmission retains the gear currently in mesh whenever running in program M, allowing you, for example, to start off smoothly in third gear on snow or ice.

**BMW's F.I.R.S.T. (Fully Integrated Road Safety Technology) safety concept** combines all safety features really of significance to provide optimum results in every respect: active and passive safety, protection of the vehicle itself and protection of other road users.

**Active safety** is provided by features such as the elaborately designed suspension and is further enhanced by the excellent brake system featuring ABS anti-lock brakes as standard.

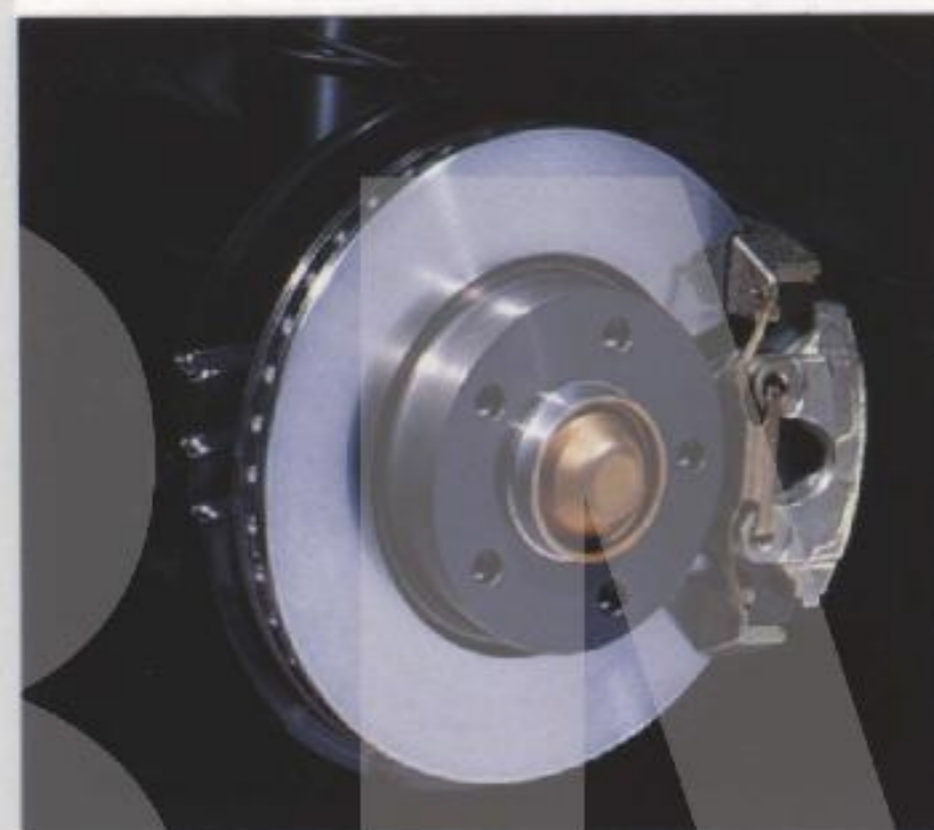
**Passive safety** is ensured inter alia by the extremely stable safety bodysell with computer-designed crumple zones and integrated side impact protectors, as well as the driver and front passenger airbags fitted as standard.

Reversible impact absorbers and crumple units serve in particular to **protect the vehicle itself**. Impact energy is absorbed in full in collisions up to 4 km/h or 2.5 mph, while in collisions up to 15 km/h or 9 mph damage is limited to the easily exchangeable crumple units, thus keeping the cost of repair to a minimum.



**Modern comfort:** The five-speed EH transmission available as an option for the 320i,

323i, 328i and 325tds. Its three driving programs are designed consistently to cope with all kinds of different situations and conditions on the road. The winter program, for example, shifts up softly at an early point for sensitive motoring on slippery surfaces.



Highly efficient brakes with extra-large brake discs guarantee excellent stopping power even in extreme situations. And thanks to ABS fitted as standard, the driv-

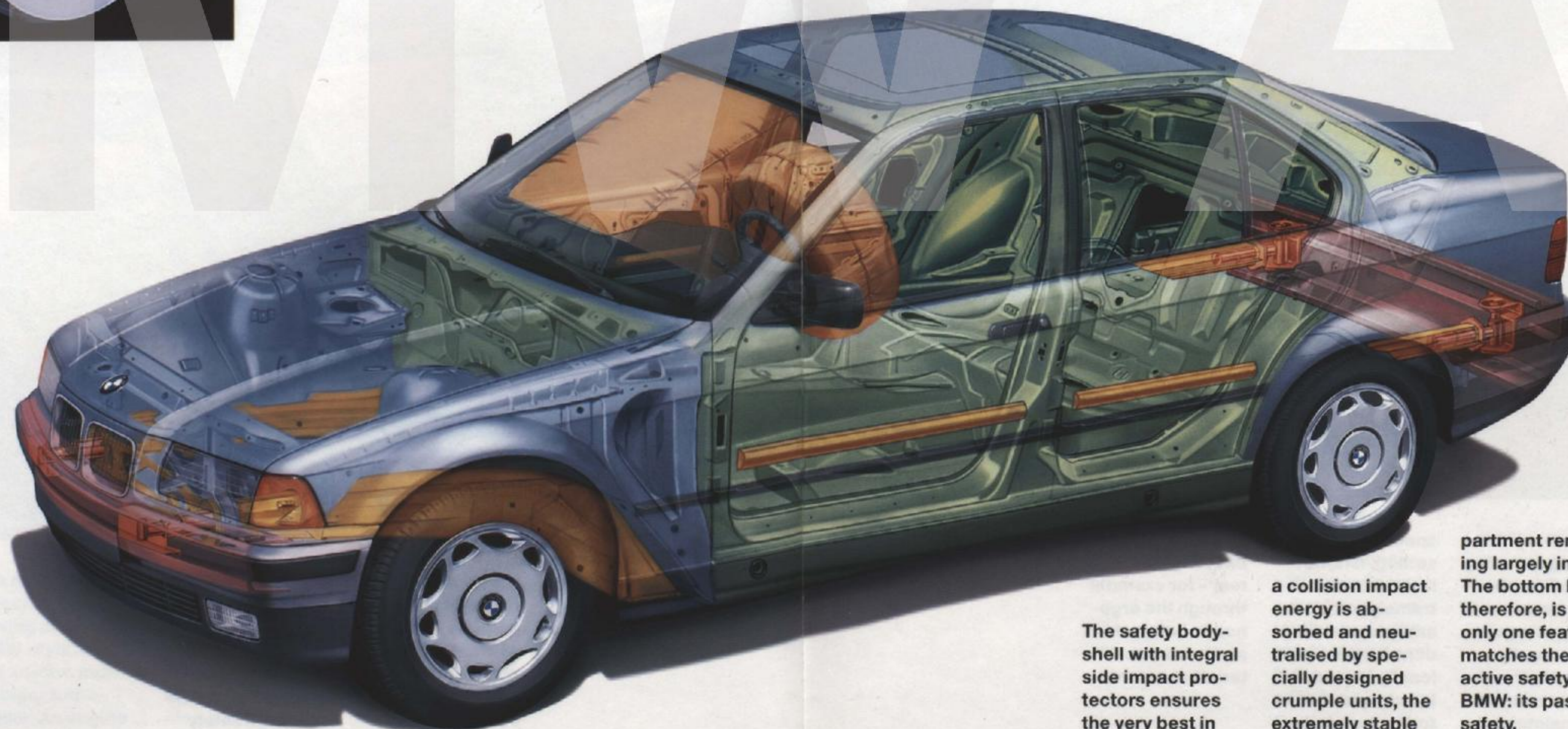
er always remains in control, even when applying the brakes all-out.

To ensure extra safety and comfort on the road, the bodysell of the 3 Series saloon extremely stable in terms of both torsional and flexural rigidity is checked on special test rigs.



Protecting the car itself: Reversible impact absorbers and additional crumple units absorb impact energy through their specific action.

This helps to avoid damage in the event of minor collisions, or at least keeps repairs to an absolute minimum.



The safety bodysell with integral side impact protectors ensures the very best in passive safety. In

a collision impact energy is absorbed and neutralised by specially designed crumple units, the extremely stable passenger com-

partment remaining largely intact. The bottom line, therefore, is that only one feature matches the active safety of a BMW: its passive safety.

Computer-designed crumple zones help to **protect other road users**, too. For like the partly recessed windscreen wipers and rounded body contours, these crumple zones minimise the effect of an accident also for other people and vehicles in road traffic.

The outstanding **torsional and flexural rigidity** of the bodysell is one of the essential prerequisites for the supreme safety and motoring comfort offered by the BMW 3 Series saloon. As an example, extra-large supports and reinforced junction points help to further enhance the above-average protection ensured by the extremely stable passenger compartment. This high standard of static and dynamic stability also provides the foundation for the exactly calculated kinematic behaviour of the central arm rear axle. And last but not least, the stable bodysell largely eliminates any potentially disturbing noise, offering you supreme peace and quiet in your BMW.

**BMW long-term quality** is the result, inter alia, of a consistent, up-to-date quality concept. Electrolytically hot-galvanised body panels, an all-round rustproofing system featuring phosphate coating and a cathodic dip bath, as well as plastic coating, underfloor and hollow cavity preservation help to ensure your driving pleasure for a long, long time. A further point is that BMW's particular production process and the large share of recyclable materials help to save resources: More than 80 per cent of all the parts and components on BMW's more recent models can be recycled, and the BMW 3 Series comes with more than 50 components made of recycled plastics.

A relaxed, pleasant ambience is obviously ideal for motoring in genuine style. Precisely this is why the BMW 3 Series saloon is designed and built to get all passengers to their destination without the slightest fatigue. For they benefit from ergonomic design, pleasant freedom of space, and exclusive comfort in an interior you will enjoy even on the longest distances.



Top-quality materials and an excellent finish to the last detail give you everything you need for travelling in style. One example to be mentioned in this context is the optional

automatic air conditioning including a microfilter allowing the driver and front passenger to independently choose their temperature consistently maintained regardless of road

speed or blower setting. It is, not least, this extremely pleasant ambience which contributes significantly to your relaxed style of motoring rounded off by exemplary

safety also for the passengers at the rear – for example through the ergonomic belt system and headrests fitted as standard.



Just in case: The airbags fitted as standard for the driver and front passenger efficiently protect your head and upper body in the event of a frontal collision. And to

make sure that the passenger airbag is activated only when necessary, the passenger seat features an occupation detector helping you to avoid unnecessary repair costs.

The BMW restraint system: Interacting with maximum efficiency, the



seat belt, belt latch tensioner, belt retainer, and submarining protection keep you safely in your seat in the event of a collision.

#### Technology Guide

The **driver and front passenger airbags** ensure much better protection of your head and upper body in a frontal collision. In a collision exceeding a certain impact, sensors activate the airbag ignitors, the airbags then inflating within fractions of a second. It is important to make sure in this context that the front passenger always wears his seat belt and keeps a sufficient distance from the glove compartment. Please also note the instructions for fitting child restraint systems on the passenger seat.

**BMW's restraint system** features a belt latch tensioner tightening the belt efficiently in the event of a collision: The belt latch is pulled back within fractions of a second, the shoulder and lap belts are tightened simultaneously. The submarining protection, in turn, is a ramp-shaped unit at the front end of the seat. Adding to the effect of the belt latch tensioner and belt retainer, it makes sure that the driver and front passenger cannot "dive" beneath the lap belt in the event of an impact.

The **ergonomic belt system with belt latches at the outside** enhances safety considerably for the rear seat passengers: The belt comes out of the parcel shelf at a right angle, offering almost ideal belt geometry. And the lap belt also rests on your body in a better position to ensure greater safety. In the event of side-on collisions this belt system prevents the passengers from being forced together, thus avoiding possible head injury. And last but not least the belts are easier to use, since you can fasten them with only one hand.

The **Service Interval Indicator** tells you when the next service or oil change is approaching. You therefore know exactly when your car requires service, depending on running conditions.

Thanks to their special contour, the sports seats available as an option offer excellent side support. They hug your body more closely round the sides and on the backrest, without in any way limiting your freedom of movement. And you can even adjust the thigh support for length.



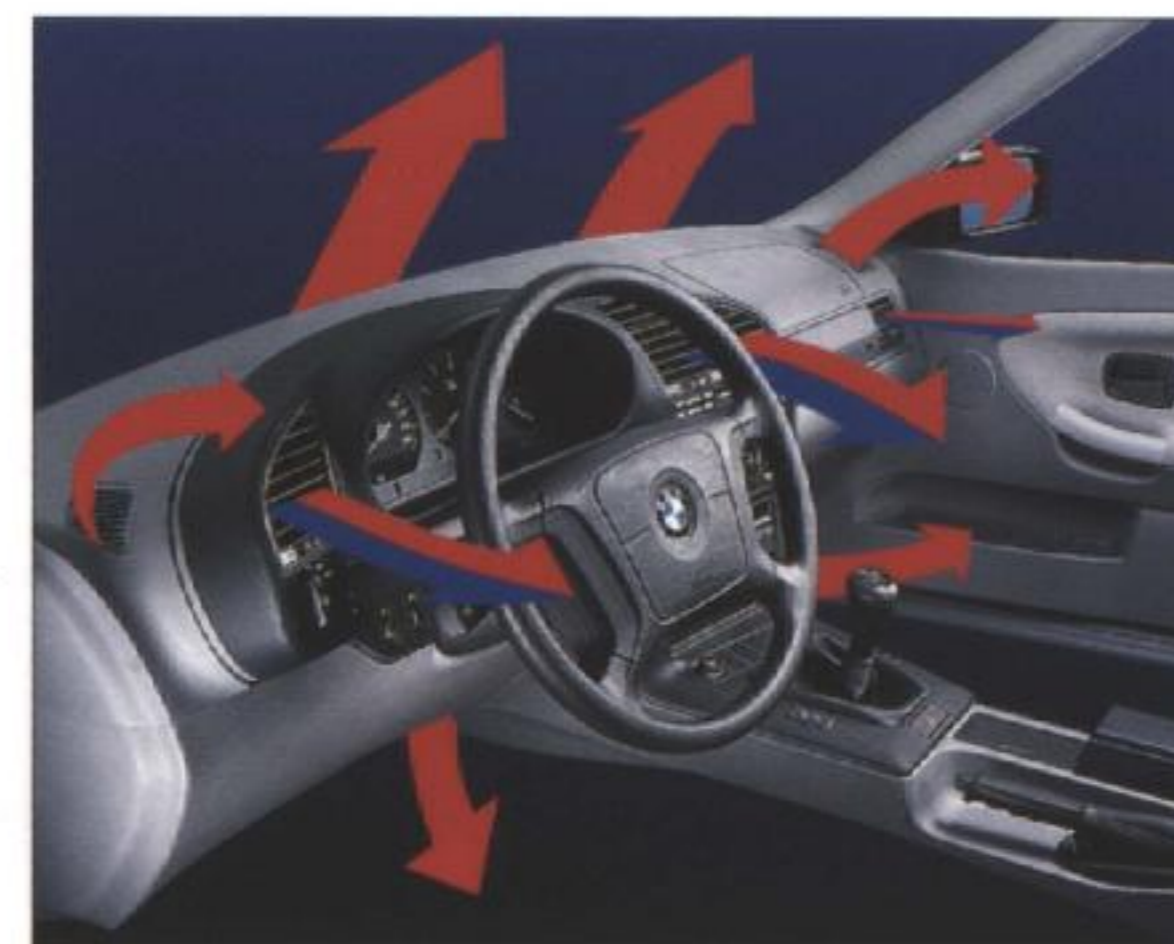
The highly comfortable standard seats designed as a shell structure

and featuring multi-zone foam padding comply with the latest orthopaedic findings. Good side support, efficient support of your legs and pleasant but firm upholstery guarantee fatigue-free motoring and excellent quality for a long running life.



Fascinating functional efficiency: The large analogue-face instruments

come exactly in your primary line of vision and present the most important information. All other data is provided by clear, confusion-proof symbols and digital displays.



Twelve air outlet nozzles guarantee consistent and efficient ventilation of the entire interior. And as an option, automatic air conditioning including microfilter improves the quality of air even further.



Unique: The consistent, driver-oriented ergonomic design of the cockpit helps to avoid even the slightest stress or fatigue. All controls and instruments are ar-

ranged in typical BMW arched design, ensuring optimum clarity and allowing you to reach all functions directly from your normal seating position.



Waiting for your command: Featuring a sophisticated electronic immobiliser, the engine of your BMW will start only after the control unit has verified the code on the key of your car.

## Technology Guide

The **electronic immobiliser** safeguards your car with unique efficiency: The ignition key comprises an electronically coded chip based on your own, permanent personal code and a second code modified by the electronic immobiliser every time the engine is fired. Immediately when switching on the ignition, this "intelligent" system first reads your personal code and then checks the individual code varied each time. If both responses are accepted, the immobiliser transfers a coded signal actuating the Digital Motor Electronics (DME) or, respectively, the Digital Diesel Electronics (DDE). Without this signal the engine cannot be started, not even by short-circuiting. The energy required for exchanging data in the manner described is conveyed by a transponder in the steering wheel lock, i.e. through a wireless connection. The same transmission system is used on keys with remote control. And should the battery of a remote control key run flat, you can still unlock the doors of your car and start the engine. If, finally, you one day lose your key, you can have it cancelled by your authorised BMW partner and you will receive a replacement key immediately.

**Check/Control** monitors all major functions of the vehicle, informing the driver of their condition and any deviation from target requirements. Important bulbs and lights are also monitored, even when switched off. The message received in this way is presented in clear language by the Multi-Information Display (MID) and is supported by a sound signal, information being categorised in three priority levels as a function of significance.

The **Multi-Information Display (MID)** in the centre console gives the driver important information on the condition of his car for extra safety and reliability. Where applicable, deficient functions are presented as a written message, and on request information from the on-board computer may also be shown here.

Building cars of unique style and character is one of BMW's particular strongholds. And our BMW Personal Line equipment concept is a clear expression of this philosophy. Powerful colours and exclusive materials available in an impressive range of combinations give you the opportunity to create your very own, highly personal BMW 3 Series.



Exterior colour:  
Moreagrün;  
interior colour:  
Türkis.

Exterior colour:  
Cordobarot;  
interior colour:  
Beige.



Exterior colour:  
Arktissilber;  
interior colour:  
Grau.

Exterior colour:  
Bostongrün;  
interior colour:  
Anthrazit.



Exterior colour:  
Calypsorot;  
interior colour:  
Klassischrot.

BMW Personal Line gives you unique freedom of choice: First, you start with one of the 15 paintwork colours. Then you choose the colour of the interior, ei-

ther colour-matched with the exterior or combined as an interesting contrast. Creating your own personal interior, your next step is to choose your material and the type of seat you would like to have. The comfortable standard seats are available in two

types of high-quality fabric and in refined leather. The more contoured sports seats, in turn, come in flat weave with an active breathing effect, in leather finished with a firmer surface, and in an exclusive combination of fabric and leather. Colours

reflecting the character of each material then provide the final touch, the seats, inserts in the door upholstery and foot mats all coming in the colour of your choice, the remaining interior

being carefully colour-matched either in black, dark grey or dark beige.

Only you know the specific requirements you make of a perfectly equipped automobile. And only we are able, through our wide range of options and special equipment, to make your wishes come true in terms of design, comfort, sporting performance and exclusivity. In top quality BMW-style.



BMW top-quality original light-alloy wheels are unique and unmistakable. They fulfill the strictest technical requirements and provide a perfect match for your BMW 3 Series saloon. For the exact range of light-alloy wheels,



The BMW on-board computer gives you all the information you need while you

are on the road – for example the outside temperature or your average fuel consumption. In fact, you can even use

the computer to calculate your estimated time of arrival.

please contact your BMW partner direct.



Using BMW's D-net car telephone, you can make optimum use of your time while on the road. Integral hands-free operation ensures maximum safety.

**BMW Individual** is the philosophy we apply in making all your wishes come true. Precisely this is why the virtually unlimited range of choice offered by BMW Individual cannot be presented in a brochure. For it is based entirely on your wishes and requests. And it grows with every BMW you create in your mind.



BMW Individual allows you to make your own ideas come true, tailored to your own personal taste and creating a truly unique vehicle in every respect. From your own very special paintwork all the way to personal

materials and colour combinations, we can make your wishes reality – subject, of course, to our strict quality and safety standards. Even if you would like to have a fax machine in your car, for example, we can offer you a

carefully conceived solution. And in all cases you can count on our experienced specialists for expert advice.

**Service BMW-style.** The high standards we apply to our cars and their technical qualities also apply to the service we offer our customers.

Our first and foremost objective in this context is to offer our customers first-class, personalised service. For we know that only customers satisfied in every respect with the service provided will remain our customers in the long run. Reliable and economic service BMW-style starts with the development of our cars. Through easy-to-repair design concepts and sophisticated technical systems such as the BMW Service Interval Indicator and BMW on-board diagnosis.

After you have purchased your car, your BMW partner remains a competent partner in offering you the customer service you rightly expect. Highly qualified specialists and workshops guarantee exemplary service quality – for instance by using the most advanced electronic systems to diagnose the specific condition of your car. And data stored within your car's electronic memory is reliably evaluated by the BMW Diagnostic Information System when you go

to the workshop, allowing rapid and low-cost repair and maintenance. It almost goes without saying that your BMW workshop uses only Original BMW Parts ensuring quality, reliability and an accurate fit true to BMW's supreme standard. Which is precisely why your BMW partner gives you a 12-month warranty on the work done and parts used. The benefits of a strong partnership with BMW are of great significance in other areas, too. For our emergency ser-



vice is always there to help you when you need assistance. And BMW service mobiles are out on the road in many countries to take care of your car whenever the need arises.

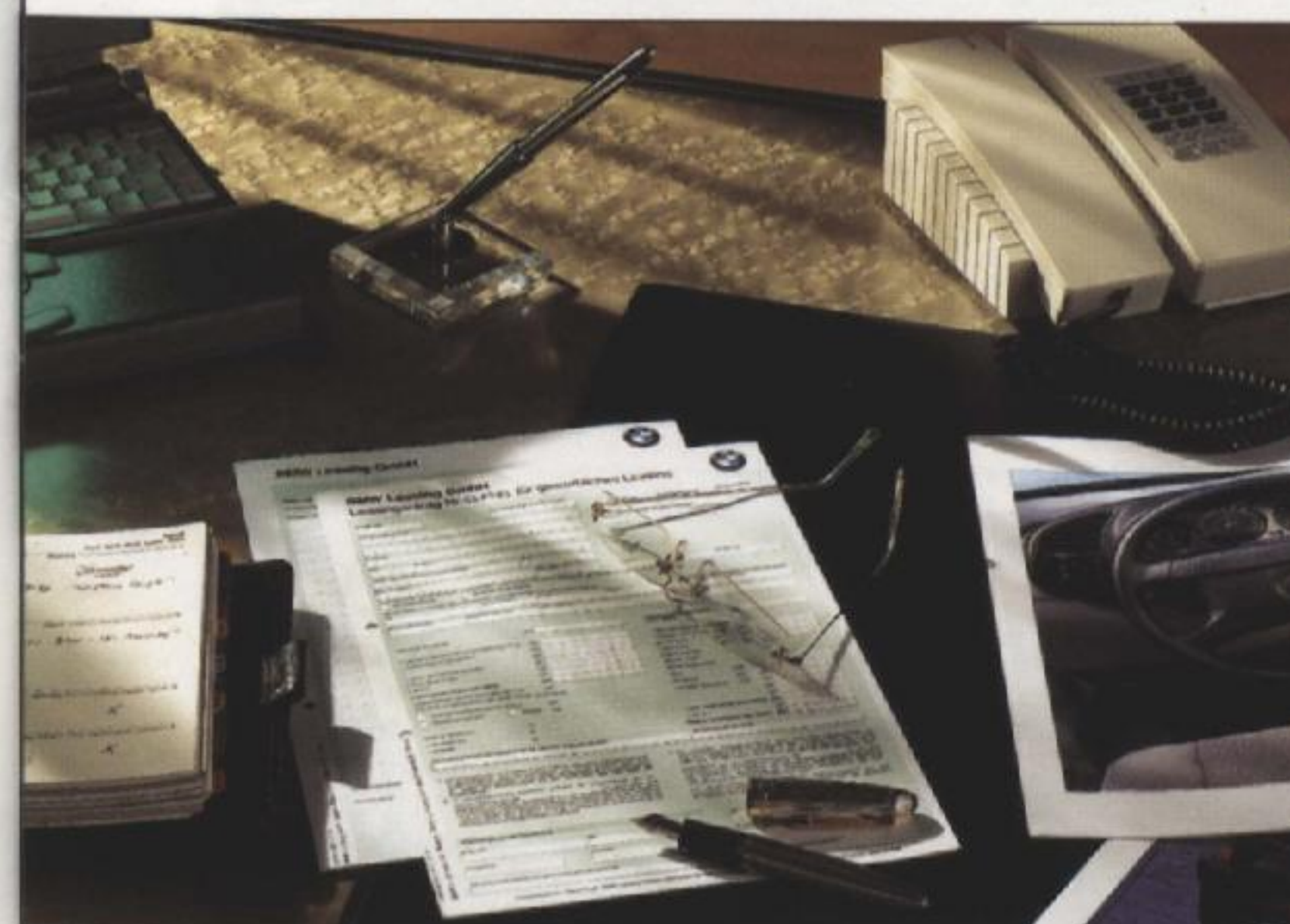
Whether you need a car for private purposes or business, BMW finan-

cing guarantees a consistent interest rate in line with general terms in

the market. And you decide yourself on the level of monthly instal-

ments for your new BMW, depending on whether and for what amount you wish to make a down payment and which period you choose between 12 and 72 months. BMW net leasing even gives you the option to pay only for your actual use of the car. You do not even have to take care of selling the car afterwards, since you simply return it to your BMW partner upon expiry of the agreement. As a convenient alternative to your

company car, we also offer you BMW service leasing taking care of virtually all maintenance and repair requirements as well as your motor insurance. For further information on the numerous financing and leasing options we have to offer, just contact your BMW partner who is also able to provide special brochures.



Standard equipment.

Safety	316i	318i	320i	323i	328i	318tds	325td	325tds
Airbag for driver and front passenger, occupation detector on front passenger's seat	•	•	•	•	•	•	•	•
Anti-lock brake system (ABS)	•	•	•	•	•	•	•	•
Brakes:								
- Disc brakes at the front		•						
- Disc brakes at the front, drum brakes at the rear	•					•		
- Disc brakes at the front, inner-vented			•	•	•		•	•
- Disc brakes at the rear		•	•				•	•
- Disc brakes at the rear, inner-vented				•	•			
Bumpers front/rear regenerating fully to their original shape in impacts up to 4 km/h	•	•	•	•	•	•	•	•
Central locking with electronic immobiliser, crash sensor, fuel tank filler flap integrated in central locking, two main and reserve keys with integral chip, side windows with comfort opening and closing function	•	•	•	•	•	•	•	•
Crumple zones front and rear	•	•	•	•	•	•	•	•
Integral side impact protectors and roof crossbar	•	•	•	•	•	•	•	•
Parking protection provided by wrap-around plastic bumpers and side strips	•	•	•	•	•	•	•	•
Power steering with safety steering column	•	•	•	•	•	•	•	•
Seat belts:								
- Ergonomic belt system at the rear	•	•	•	•	•	•	•	•
- Inertia-reel seat belts at the front with belt latch tensioner and belt retainer	•	•	•	•	•	•	•	•
- Manual adjustment of seat belt height on the B-pillar	•	•	•	•	•	•	•	•

Engine	316i	318i	320i	323i	328i	318tds	325td	325tds
4-cylinder in-line diesel engine with turbocharger						•		
4-cylinder in-line petrol engine	•	•						
6-cylinder in-line diesel engine with turbocharger							•	•
6-cylinder in-line petrol engine			•	•	•			
4-valve technology			•	•	•			
Closed-loop catalytic converter, heated oxygen sensor, activated carbon filter, controlled tank purge	•	•	•	•	•			
Cylinder-specific knock control	•	•	•	•	•			
Diesel catalyst with exhaust gas recirculation						•	•	•
Digital Diesel Electronics (DDE)						•	•	•
Digital Motor Electronics (DME)	•	•	•	•	•			
Encapsulation of engine compartment						•	•	•
Fuel filter, heated						•	•	•
Individual-control intake manifolds (ICIM)	•	•						
Intercooler						•		•
Light-alloy cylinder head	•	•	•	•	•			
Oil/water heat exchanger						•		
On-board diagnosis	•	•	•	•	•	•	•	•
Solid-state distributor system	•	•	•	•	•			
Valve drive with roller-type rocker arms	•	•						
Valve play compensation, hydraulic	•	•	•	•	•	•	•	•
Variable camshaft control (VANOS)			•	•	•			

Transmission/suspension	316i	318i	320i	323i	328i	318tds	325td	325tds
5-speed manual gearbox with direct transmission in fifth gear	•	•	•	•	•	•	•	•
Anti-roll bar at the rear		•	•	•	•		•	•
Central arm rear axle with anti-squat and anti-dive	•	•	•	•	•	•	•	•
Spring strut front axle with anti-dive and anti-roll bar	•	•	•	•	•	•	•	•
Two-mass flywheel (on manual gearbox models)			•	•	•	•	•	•

Exterior features	316i	318i	320i	323i	328i	318tds	325td	325tds
All-round rustproofing system with partial galvanising, phosphate coating and cathodic dip bath, preservation of hollow cavities, underfloor protection	•	•	•	•	•	•	•	•
Bumpers in body colour at the top, contrasting colour at the bottom, rear-view mirrors in body colour	•	•	•	•	•	•	•	•
Engine compartment and luggage compartment lids supported when open by gas-pressure springs	•	•	•	•	•	•	•	•
Foglamps in free-form technology				•	•			
Heat-insulating glass all round, green, with laminated windscreen	•	•	•	•	•	•	•	•
Light-alloy wheels in BMW styling					•			
Rear-view mirrors electrically adjustable	•	•	•	•	•	•	•	•
Steel wheels with flush wheel cover	•	•	•	•	•	•	•	•
Wheel arches at the front with plastic inserts	•	•	•	•	•	•	•	•

Interior features	316i	318i	320i	323i	328i	318tds	325td	325tds
Analogue-face clock in centre console	•	•	•			•	•	•
Analogue-face instruments with anti-dazzle illumination	•	•	•	•	•	•	•	•
Armrests on the doors with integral closing handles	•	•	•		•	•	•	•
Automatic operation of courtesy lights with soft on/off dimming		•	•	•	•		•	•
BMW tools in a special tray in the luggage compartment lid	•	•	•	•	•	•	•	•
Digital clock				•	•			
Fully reclining front seats with fine backrest adjustment, fore-and-aft seat adjustment, driver's and front passenger's seats adjustable for height	•	•	•	•	•	•	•	•
Glove compartment, lockable and illuminated	•	•	•	•	•	•	•	•
Headlight range control, electrically adjustable	•	•	•	•	•	•	•	•
Headrests at the front, adjustable for height and angle	•	•	•	•	•	•	•	•
Headrests at the rear, manually adjustable	•	•	•	•	•	•	•	•
Heating system electronically controlled independently of road speed, multi-stage radial blower	•	•	•	•	•	•	•	•
Interior carpeting in velour, driver's footrest integrated in side panel	•	•	•	•	•	•	•	•
Interior lights (3) and two map reading lamps at the front	•	•	•	•	•	•	•	•
Interior rear-view mirror in safety design, anti-dazzle	•	•	•	•	•	•	•	•
Lashing points in luggage compartment	•	•	•	•	•	•	•	•
LIGHTS ON? warning	•	•	•	•	•	•	•	•
Luggage compartment capacity 435 ltr (15.2 cu ft) (to VDA standard)	•	•	•	•	•	•	•	•
Luggage compartment with fabric lining all round			•	•	•			•
Multi-Information Display with Check/Control, alphanumeric					•			
Power socket for torch in glove compartment	•	•	•	•	•	•	•	•
Rev counter with Energy Control, fuel gauge, coolant thermometer, LC display for mileage and trip counter	•	•	•	•	•	•	•	•
Service Interval Indicator	•	•	•	•	•	•	•	•
Spare wheel beneath floor inside luggage compartment	•	•	•	•	•	•	•	•
Steering wheel rim in leather					•			
Storage space in the centre console, tunnel console, in storage boxes on the front doors; additional storage space on cars featuring no-smoker package	•	•	•	•	•	•	•	•
Temperature display, exterior				•	•			
Twin-tone horn	•	•	•	•	•	•	•	•
Vanity mirror for driver (with slide cover) and front passenger	•	•	•	•	•	•	•	•
Warning triangle and first-aid kit in a separate box on the right-hand side of the luggage compartment	•	•	•	•	•	•	•	•
Window lifts at the front, electric, with fingertip control and trap release on driver's door			•	•	•			•

Selected options.

	316i	318i	320i	323i	328i	318tds	325td	325tds
Alarm system with remote control	•	•	•	•	•	•	•	•
Automatic air conditioning including microfilter	•	•	•	•	•	•	•	•
Automatic Stability Control + Traction (ASC + T)		•	•	•	•		•	•
Automatic transmission:								
- 4-speed EH automatic	•	•					•	
- 5-speed EH automatic			•	•	•			•
Bumpers and side-sills in body colour			•	•	•		•	•
Car telephone, D-net, with eject box and hands-free operation	•	•	•	•	•	•	•	•
Cruise control	•	•	•	•	•	•	•	•
Foglamps	•	•	•			•	•	•
HIFI loudspeaker system	•	•	•	•	•	•	•	•
On-board computer V	•	•	•	•	•	•	•	•
Park Distance Control (PDC) at the rear	•	•	•	•	•	•	•	•
Seat adjustment, electric, on driver's and front passenger's seats			•	•	•			•
Sports seats	•	•	•	•	•	•	•	•
Sports suspension M	•	•	•	•	•	•	•	•
Steering wheel: leather sports steering wheel with airbag	•	•	•	•	•	•	•	•
Steering wheel: M leather steering wheel with airbag	•	•	•	•	•	•	•	•
Temperature display, exterior	•	•	•			•	•	•
Through-loading system	•	•	•	•	•	•	•	•

All the options are available fully installed ex works. To meet any further requests you may have, we offer a wide range of BMW accessories developed by BMW and in BMW quality. Both these accessories as such and their installation are covered by our full works warranty. For further information, please contact your BMW partner, who can offer you helpful advice and a special accessories brochure.

The models illustrated in this brochure show the specifications for the German market. In part, they include optional equipment and accessories not fitted as standard. According to the specific requirements of other markets, alterations in models, standard and optional equipment, as described in the text and illustrations, may occur. For precise information, please contact your BMW partner. Subject to change in design and equipment. © BMW AG, Munich/Germany. Not to be reproduced wholly or in part without written permission of BMW AG, Munich.

# Specifications.

Weight		316i	318i	320i	323i	328i	318tds	325td	325tds	M3 <sup>1)</sup>
Unladen <sup>2)</sup>	kg	1310 (1350)	1310 (1350)	1375 [1410]	1385 [1420]	1395 [1430]	1355	1430 (1465)	1440 [1475]	1535
Max permissible	kg	1695 (1735)	1695 (1735)	1760 [1795]	1770 [1805]	1780 [1815]	1740	1815 (1850)	1825 [1860]	1950
Permitted load	kg	460	460	460	460	460	460	460	460	490
Permitted axle load front/rear	kg	810/995	810/995	840/1030	845/1040	855/1040	855/985	880/1040	890/1045	910/1120
Permitted roof load	kg	75	75	75	75	75	75	75	75	75
Permitted trailer load, unbraked	kg	630	640	670	670	670	650	670	670	-
Permitted trailer load, braked,										
max 12 % gradient	kg	1325 (1475)	1475 (1575)	1675	1675	1675	1375	1675	1675	-
Permitted trailer load, braked,										
max 8 % gradient	kg	1575/1675 <sup>3)</sup>	1575/1675 <sup>3)</sup>	1675	1675	1675	1575/1675 <sup>3)</sup>	1675	1675	-

Engine <sup>4)</sup>		316i	318i	320i	323i	328i	318tds	325td	325tds	M3 <sup>1)</sup>
Cylinders/valves		4/2	4/2	6/4	6/4	6/4	4/2	6/2	6/2	6/4
Capacity	cc	1596	1796	1991	2494	2793	1665	2498	2498	3201
Stroke/bore	mm	72.0/84.0	81.0/84.0	66.0/80.0	75.0/84.0	84.0/84.0	82.8/80.0	82.8/80.0	82.8/80.0	91.0/86.4
Max output	kW/bhp/rpm	75/102/5500	85/115/5500	110/150/5900	125/170/5500	142/193/5300	66/90/4400	85/115/4800	105/143/4800	236/321/7400
Max torque	Nm/lb-ft/rpm	150/111/3900	168/124/3900	190/140/4200	245/181/3950	280/206/3950	190/140/2000	222/164/1900	260/192/2200	350/258/3250
Compression ratio	:1	9.7	9.7	11.0	10.5	10.2	22.0	22.0	22.0	11.3

Transmission		316i	318i	320i	323i	328i	318tds	325td	325tds	M3 <sup>1)</sup>
Standard gearbox ratios I/II	:1	4.23/2.52	4.23/2.52	4.23/2.52	4.23/2.52	4.20/2.49	5.43/2.95	5.09/2.80	5.09/2.80	4.23/2.51
III/IV	:1	1.66/1.22	1.66/1.22	1.66/1.22	1.66/1.22	1.66/1.24	1.81/1.26	1.76/1.25	1.76/1.25	1.67/1.23
V/VI/R	:1	1.00/-/4.04	1.00/-/4.04	1.00/-/4.04	1.00/-/4.04	1.00/-/3.89	1.00/-/4.96	1.00/-/4.71	1.00/-/4.71	1.00/0.83/3.75
Final drive ratio	:1	3.38 (4.44)	3.38 (4.44)	3.45 [3.45]	2.93 [2.93]	2.93 [3.07]	2.79	2.56 (3.23)	2.56 [2.56]	3.23

Performance		316i	318i	320i	323i	328i	318tds	325td	325tds	M3 <sup>1)</sup>
Top speed	km/h	195 (192)	201 (200)	214 [214]	227 [224]	236 [232]	182	198 (194)	214 [211]	250 <sup>5)</sup>
Acceleration 0-100 km/h	sec	12.7 (14.2)	11.3 (12.3)	9.9 [10.6]	8.0 [9.0]	7.3 [7.8]	14.2	12.0 (12.8)	10.4 [10.8]	5.5
standing-start km	sec	33.8 (35.3)	32.4 (33.6)	30.7 [31.9]	28.9 [29.9]	28.0 [28.5]	35.5	33.3 (34.3)	31.4 [32.3]	24.7
Acceleration 80-120 km/h in										
fourth gear (standard gearbox)	sec	12.2	10.5	9.7	9.1	7.6	12.6	11.0	9.4	5.7

Fuel consumption <sup>6)</sup>		316i	318i	320i	323i	328i	318tds	325td	325tds	M3 <sup>1)</sup>
In town	l/100 km	10.6 (11.8)	10.8 (12.0)	12.9 [14.6]	12.9 [15.0]	13.5 [15.3]	8.8	10.3 (11.9)	10.2 [11.3]	16.9
Out of town	l/100 km	5.9 (6.4)	6.2 (6.6)	6.7 [7.5]	6.7 [7.3]	6.7 [7.3]	5.2	5.7 (6.3)	5.6 [6.5]	7.5
Overall	l/100 km	7.7 (8.4)	7.9 (8.6)	9.0 [10.1]	9.0 [10.1]	9.2 [10.2]	6.5	7.4 (8.4)	7.3 [8.3]	11.0
CO <sub>2</sub> emissions	g/km	182 (199)	187 (204)	213 [240]	213 [240]	218 [243]	173	195 (221)	193 [219]	275
Tank capacity, approx	l	62	62	62	62	62	62	62	62	62

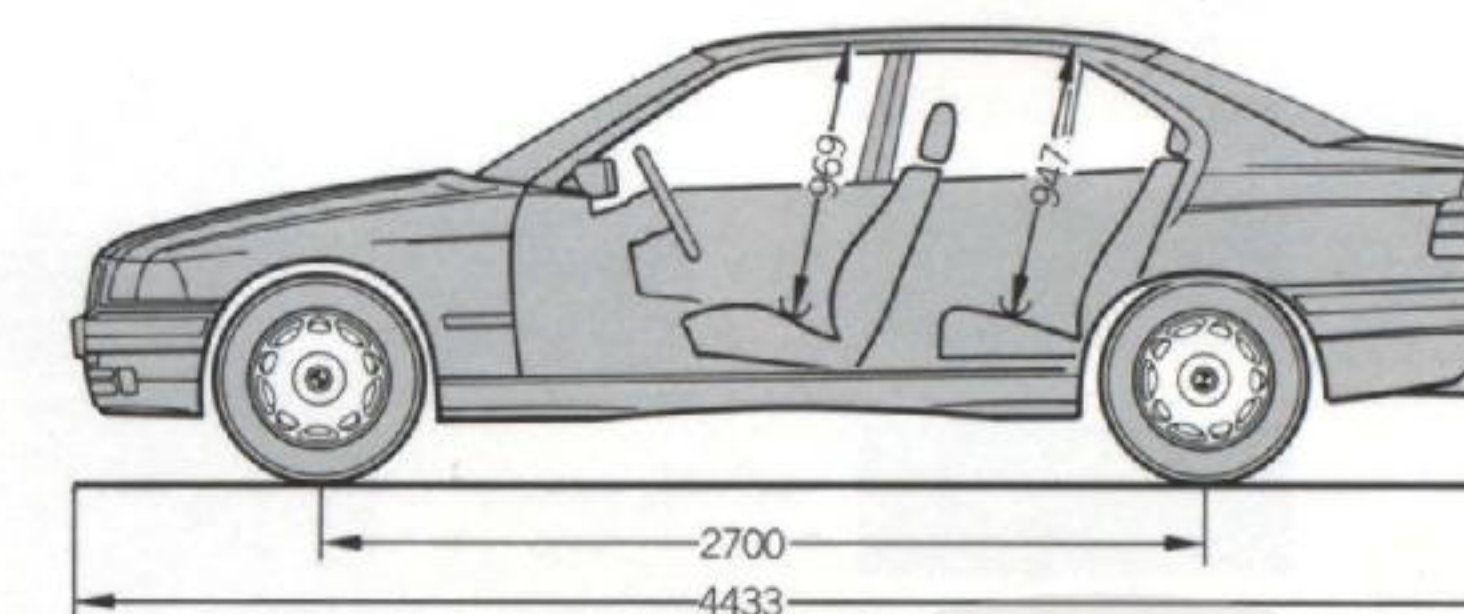
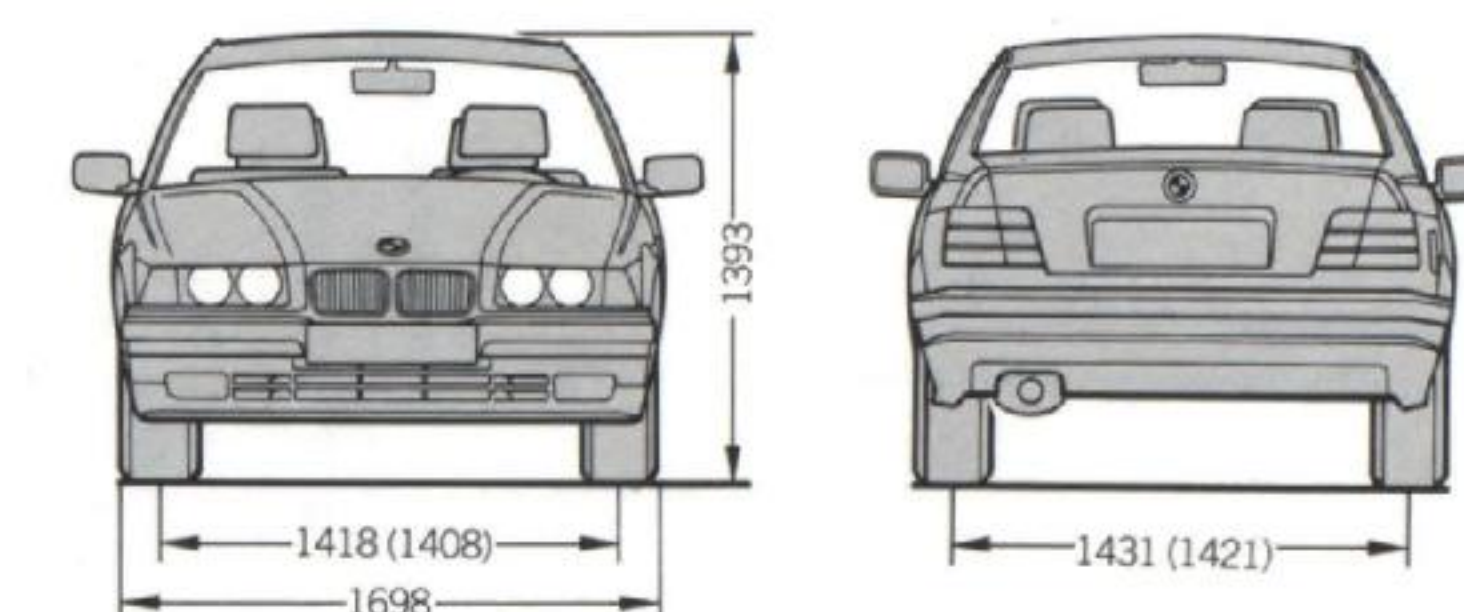
Wheels		316i	318i	320i	323i	328i	318tds	325td	325tds	M3 <sup>1)</sup>
Tyre dimensions		185/65 R 15	185/65 R 15	205/60 R 15	205/60 R 15	205/60 R 15	185/65 R 15	185/65 R 15	205/60 R 15	Front: 225/45 ZR 17 Rear: 245/40 ZR 17
Rim dimensions		6 J x 15	6 J x 15	6 1/2 J x 15	6 1/2 J x 15	7 J x 15	6 J x 15	6 J x 15	6 1/2 J x 15	Front: 7 1/2 J x 17 Rear: 8 1/2 J x 17
Material		Steel	Steel	Steel	Steel	Light alloy	Steel	Steel	Steel	Light alloy

Electrical system		316i	318i	320i	323i	328i	318tds	325td	325tds	M3 <sup>1)</sup>
Battery capacity	Ah	50	50	65	65	65	65	85	85	65
Alternator output	A/W	70 (80)/	70 (80)/	80/1120	80/1120	80/1120	95/1330	95/1330	95/1330	115/1610
		980 (1120)	980 (1120)							

<sup>1)</sup> For more details on the M3 saloon see the new M models brochure.  
<sup>2)</sup> According to the EC standard, the figure quoted includes 68 kg for the driver and 7 kg for luggage. Unladen weight applies to vehicles in standard trim. Special equipment may increase this figure.  
<sup>3)</sup> Figures quoted apply to boat trailers, glider transporters, horse boxes, car transporters.  
<sup>4)</sup> Engines with knock control are designed for ROM 95 fuel. Use of ROM 98 fuel reduces consumption under normal conditions and increases power accordingly. On ROM 91 fuel engine power decreases and fuel consumption is higher.  
<sup>5)</sup> Electronically limited.

<sup>6)</sup> Starting in 1996, fuel consumption is determined according to the ECE driving cycle made up of approximately two-thirds city traffic and one-third overland driving. Fuel consumption at a steady speed is no longer shown, greater emphasis is given to acceleration. A further point is that measurements start with the engine cold. The result of this new procedure is an increase in fuel consumption ratings over the previous DIN 70030 figures. CO<sub>2</sub> emissions are measured in addition to fuel consumption as such. All BMW engines already comply in full with the EU II standard.

Figures in ( ) apply to vehicles with 4-speed automatic transmission.  
 Figures in [ ] apply to vehicles with 5-speed automatic transmission, fifth gear serving as an overdrive gear.

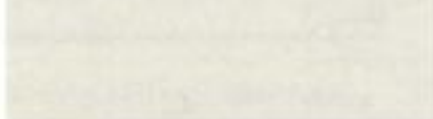

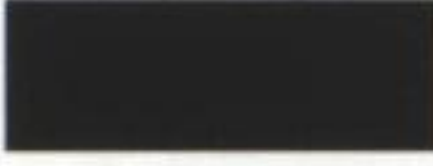
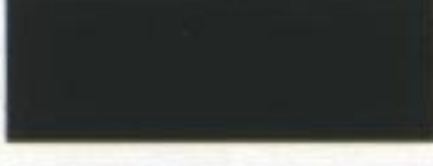




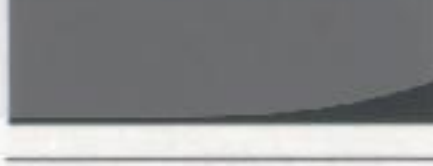
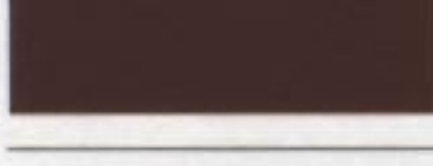

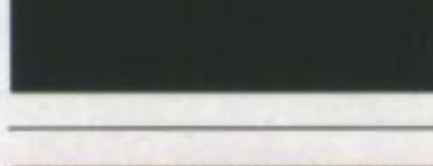

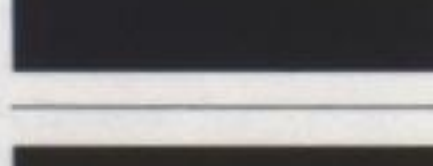
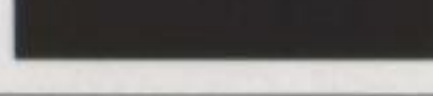


All dimensions in mm, figures in ( ) apply to the 320i, 323i, 328i and 325tds. Illustrations and dimensions do not apply to the M3 saloon.

Exterior and interior colours.











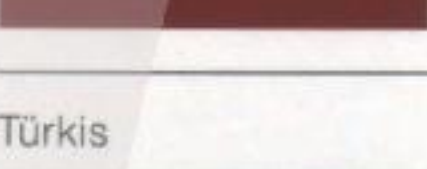
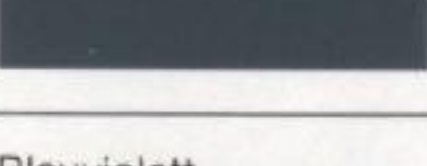
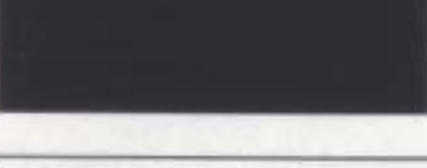

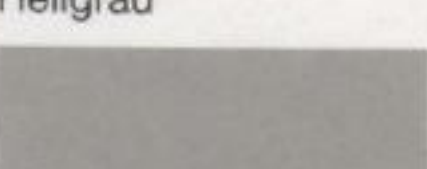
- ★ Particularly harmonious colour combinations.
- Recommended colour combinations.
- Colour combinations available.

Exterior colours

		Interior colours	Fabric						Fabric/leather combined			Leather					
			Anthrazit	Grau	Klassischrot	Türkis	Beige	Blauviolett	Anthrazit	Klassischrot	Türkis	Schwarz	Hellgrau	Beige	Klassischrot	Blauviolett	Safrangelb
Non-metallic		300 Alpinweiss	●		●	○	○	●	●	●	○	●		○	●	●	
		314 Hellrot	●						●			●					
		668 Schwarz	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		307 Dunkelgrün	○	○			●		○			○	○	●			○
Metallic <sup>1)</sup>		263 Dunkelblau		●									●				
		309 Arktissilber	●	●	●	○		●	●	●	○	●	●		●	●	○
		269 Arktisgrau	●	★	●	○			●	●	○	●	●		●		○
		295 Samoablau	●					★	●			●				★	
		288 Moreagrün	●	○		★			●		★	●					
		252 Calypsorot	●	○	★		○		●	★		●	○	○	★		
		297 Montrealblau	●	●			○	○	●			●	●	○		○	○
		275 Bostongrün	●				○		●			●		○			
		286 Cordobarot	●	●			○		●			●	●	○			
		299 Techno-Violett <sup>2)</sup>							○			○	●				
		303 Cosmosschwarz	●	●	●	●	●	●	●	●	●	●	●	●	●	●	★

Experience shows that it is impossible to properly render the exact colour of the paintwork and upholstery on paper. We therefore advise you to inspect the original colours at your BMW dealership. Your BMW partner will be glad to help.  
<sup>1)</sup> Optional. <sup>2)</sup> Only in conjunction with the M sports package (limited offer).

Materials.

Model	Standard		Optional			
	316i, 318i, 318tds	320i, 323i, 328i, 325td, 325tds	316i, 318i, 318tds	316i, 318i, 320i, 323i, 328i, 318tds, 325td, 325tds		
Type of seat	Standard seat	Standard seat	Sports seat	Sports seat	Standard seat	Sports seat
Material	Fabric, flock 	Fabric, wool velour 	Fabric, flat weave 	Fabric/leather combined 	Montana leather 	Montana leather 
Interior colours						
Anthrazit 	C3AT	C4AT	D6AT	C1AT		
Grau 	C3TT	C4TT	D6TT			
Beige 	C3SN				P8SN	P7SN
Klassischrot 			D6GD	C1GD		P7GD
Türkis 			D6TK	C1TK		
Blauviolett 		C4MA			P8MA	
Safrangelb 					P8SG	
Hellgrau 					P8TH	P7TH
Schwarz 					P8SW	P7SW

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