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# BMW Special Models "30 Years GS". Contents.



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# Thirty Years of the BMW GS.



In 2010 a fully-fledged, all-round motorcycle concept is celebrating a major birthday: thirty years of the BMW GS.

Back then in autumn 1980 BMW Motorrad introduced the R 80 G/S as a very special machine combining two very special worlds with one another: offroad and onroad. Offering this unique combination of onroad, touring and offroad qualities without the slightest compromise in everyday use, the R 80 G/S paved the way as a brand-new concept for the grand touring enduro, a completely new type of motorcycle created by BMW Motorrad.

The R 80 G/S and its successors soon proved their qualities also in motorsport: In its very first race in 1981, the R 80 G/S with Hubert Auriol on the saddle brought home victory in the both prestigious and challenging Paris – Dakar Rally. And this was only one of the great successes in motorsport celebrated by BMW Motorrad with the GS in the following three decades.

Throughout the last thirty years, BMW Motorrad has consistently nurtured the outstanding talents of the GS boxer models, focusing on riding dynamics, offroad qualities, superior comfort and endurance, consistently enhancing these qualities to en even higher level and carrying them over successfully to other series of BMW motorcycles.

In 1993, for example, a BMW enduro with a single-cylinder engine – the F 650 – made its first appearance in the market. And while the F 650 derived its dynamic riding qualities from ideal weight distribution, its unique concept and the superior power of its 47-hp single-cylinder, the BMW GS models with their flat-twin boxer engines moved on to the next generation.

Introducing the BMW R 1100 GS, BMW Motorrad not only presented the first GS with a four-valve boxer engine and 80 horsepower, but also entered a new era of grand touring enduro riding in terms of the suspension and running gear: This was the first enduro using the engine and transmission as load-bearing elements on the chassis, making a conventional main frame superfluous.

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While BMW Paralever rear-wheel suspension had already eliminated any unwanted drive and power reaction of the drive shaft on the two-valve boxer engines years ago, BMW's engineers now introduced the Telelever as a highly innovative concept of front wheel suspension. Offering anti-dive and highly sensitive response, this new technology quickly set new standards.

At the same time the new R 100 GS was the world's first endure to feature ABS – a superior safety feature now to be found on all BMW motorcycles, with the exception of the BMW G 450 X.

Apart from numerous new and ongoing developments including the F 650 GS, the first single-cylinder with electronic fuel injection, catalytic converter and ABS brakes built in Berlin as of the year 2000, the F 650 GS and F 800 GS introduced in 2007 set a further outstanding milestone in the history of the BMW GS. With their high-performance and high-torque two-cylinder inline engine and their torsionally rigid spaceframe, they interpret the BMW GS theme in their own very special way nevertheless typical of BMW.

Introducing these new models, BMW Motorrad not only presented the successors to the highly successful single-cylinder F 650 GS, but also expanded the range of enduro machines in the midsize segment.

The latest highlight so far then came in autumn 2009, with BMW Motorrad introducing the updated BMW R 1200 GS. Now featuring an even more free-revving DOHC boxer engine with two overhead camshafts per cylinder, this new machine offers maximum output of 81 kW/110 hp and an even higher level of dynamic riding performance.

Launching the "30 Years GS" special versions of the BMW R 1200 GS, the R 1200 GS Adventure, the F 800 GS, and the F 650 GS, BMW Motorrad is paying its tribute to the outstanding success of the GS models both in the production of series machines and in motorsport. Indeed, it was also motorsport that provided the input for the attractive design of the Edition Models in the livery of BMW Motorrad Motorsport thirty years ago.

For further detailed information on the history of the GS as well as a wide range of photos, please see the BMW Motorrad Anniversary 30 Years of the GS Press Kit in the BMW PressClub.

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#### 2. BMW R 1200 GS "30 Years GS".



BMW's GS motorcycles with their boxer engines have developed consistently since 1980, shaping the image of BMW Motorrad more than any other model series. So whether in offroad sports or, in particular, as a grand touring enduro, the BMW GS models have created and shaped a strong market throughout the last three decades.

Introducing the R 1200 GS "30 Years GS", BMW Motorrad is now presenting an exclusive special model commemorating the thirty-year tradition of the highly successful GS model series, at the same time upgrading the already well-equipped travel enduro within the boxer segment by adding a wide range of additional features and equipment.

The R 1200 GS "30 Years GS" special model highlights the sporting enduro DNA of BMW's large grand touring enduros. Particularly outstanding features are the exclusive paintwork in Alpine White non-metallic with three-coloured decals in the former colours of BMW Motorrad Motorsport and the "30 Years GS" model designation, cross-spoke wheels with their spoke ring in black eloxy finish, a tinted windshield (only in Europe), and hand protectors.

The seat finished in red with its three-dimensional GS stamp in the side flanks gives this special model a particularly masculine and sporting look.

With the exception of the cross-spoke wheels and hand protectors, the special model may be further upgraded according to the customer's personal taste by adding special equipment and optional extras from the wide range of BMW Motorrad. Available both as special equipment and as an option straight from the factory, the special low-height seat (which is also part of the lowered suspension package) comes exclusively in black.

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#### Highlights of the BMW R 1200 GS "30 Years GS":

- Paintwork in Alpine White non-metallic.
- Three-coloured decals in the livery of BMW Motorrad Motorsport.
- "30 Years GS" model designation on the tank.
- Cross-spoke wheels with a spoke ring in black eloxy finish.
- Hand protectors.
- Tinted windshield (Europe only).
- Seat in red with three-dimensional "GS" stamp in the side flanks.

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## 3. BMW R 1200 GS Adventure "30 Years GS".



The BMW GS – for thirty years this abbreviation has stood above all for genuine adventure on your motorcycle, crossing deserts or going on expeditions to remote parts of our planet, from the Sahara all the way to Tierra del Fuego. The BMW R 1200 GS Adventure is a special offer from BMW Motorrad optimising the qualities of the R 1200 GS for the most demanding long-distance tours.

Introducing the "30 Years GS" special model, BMW Motorrad is highlighting the particularly rugged and masculine character as well as the offroad qualities of the R 1200 GS Adventure. This very special machine comes with exclusive paintwork in Alpine White non-metallic and three-coloured decals in the historical livery of BMW Motorrad Motorsport, a "30 Years GS" model designation on the tank, extra-large hand protectors all in black, as well as a robust engine protection hoop made of aluminium. The seat finished in red/black with its three-dimensional "GS" stamp in the side flanks emphasises the sporting look and character of this unique machine.

To offer further signs of distinction, the R 1200 GS Adventure "30 Years GS" may also be upgraded at the customer's individual request by special equipment and optional extras from the wide range of features available from BMW Motorrad.

Highlights of the BMW R 1200 GS Adventure "30 Years GS":

- Paintwork in Alpine White non-metallic.
- Three-coloured decals in the livery of BMW Motorrad Motorsport.
- "30 Years GS" model designation on the tank.
- Extra-large hand protectors all in black.
- Robust engine protection hoop made of aluminium.
- Seat in red/black with three-dimensional "GS" stamp in the side flanks.

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#### 4. BMW F 800 GS "30 Years GS".



Proudly launching the F 800 GS enduro in 2007, BMW Motorrad enlarged the model range by yet another, brand-new version of the GS. Like its counterparts, this unusually dynamic grand touring enduro perfectly suited for offroad use, through its robust look and long spring travel, clearly underlines what it is able to offer also beyond the beaten track.

Indeed, the message conveyed by the F 850 GS weighing just 207 kg or 456 lb with a full tank is both clear and meaningful: maximum riding pleasure both onroad and offroad, combined with fatigue-free riding qualities for long tours.

As a very special model, the F 800 GS "30 Years GS" celebrates a major birthday with a wide range of features underlining the dynamic riding qualities of this supreme machine.

As its first highlight, the F 800 GS "30 Years GS" also comes in exclusive Alpine White non-metallic paintwork with three-coloured decals in the traditional livery of BMW Motorrad Motorsport as well as the "30 Years GS" model designation on the airbox cover, robust hand protectors with a stainless-steel hoop and a large spoiler element, as well as an aluminium engine protection hoop really able to take heavy loads.

The seat finished in red with its three-dimensional "GS" stamp at the front of the seat bottom as well as white direction indicators set further sporting highlights. And last but not least, a tinted windshield (Europe only) blends harmoniously with the dynamic overall look of the F 800 GS "30 Years GS".

Like the other new models, the F 800 GS "30 Years GS" may also be further upgraded individually through the addition of special equipment and optional extras from the wide range of BMW Motorrad. The seat reduced in height available as both special equipment and as an option straight from the factors comes only in black.

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#### Highlights of the BMW F 800 GS "30 Years GS":

- Paintwork in Alpine White non-metallic.
- Three-coloured decals in the livery of BMW Motorrad Motorsport.
- "30 Years GS" model designation on the airbox cover.
- Hand protectors with stainless-steel hoops, plastic protectors, and an extra large spoiler element.
- Robust engine protection hoop made of aluminium.
- Tinted windshield (Europe only).
- White direction indicators.
- Seat in red with three-dimensional "GS" stamp at the front of the seat bottom.

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### 5. BMW F 650 GS "30 Years GS".



In addition to the F 800 GS, BMW Motorrad also offers a smaller model of the same kind, the F 650 GS aimed at riders who do not need quite that much spring travel and are not out only for adventure and offroad riding. The particular fortes of this machine are its lower seat height, the high standard of all-round qualities, easy riding characteristics, and excellent suitability for everyday use.

Introducing the "30 Years GS" special model, BMW Motorrad is taking up the tradition of the GS model series also on the F 650 GS. Hence, the F 650 GS "30 Years GS" likewise comes in exclusive Alpine White non-metallic paintwork with three-coloured decals in the historical livery of BMW Motorrad Motorsport and its special model designation, in this case on the rear section, together with stainless-steel hand protectors and a black plastic protector as well as a colour-matched engine protection cover again in black. Magnesium-coloured cast wheels, the red seat with its three-dimensional "GS" stamp at the front of the seat surface, as well as white direction indicators give this special edition of the F 650 GS a particularly exclusive note. An extra-high, tinted windshield (Europe only) underlines the particular qualities of this machine for long-distance touring.

The F 650 GS "30 Years GS" special model may also be upgraded individually through the addition of special equipment and optional extras from the wide range of features offered by BMW Motorrad. The lower seat available as both special equipment and as an optional extra comes exclusively in black also on this model.

Highlights of the BMW F 650 GS "30 Years GS":

- Paintwork in Alpine White non-metallic.
- Three-coloured decals in the livery of BMW Motorrad Motorsport.
- "30 Years GS" model designation at the rear.
- Magnesium-coloured cast wheels.
- Hand protectors with a stainless-steel hoop and plastic protector.
- Engine protector made of special plastic.

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- Tinted, higher windshield (Europe only).
- White direction indicators.
- Seat in red with three-dimensional "GS" stamp at the front of the seat surface.

# 6. Specifications.



Bore/stroke	RON         max output with 98 RON, opt 91 RON           OHC         DOHC           4         4           39/33         39/33           50         50           S-K+         BMS-K+           verter         Fully controlled three-way catalytic conv           720         720           2-free         12/14, maintenance-free           H7         H7           1.1         1.1
Bore/stroke	101/73
Bore/stroke	101/73
Max output kW/hp at prom 77  Max torque Nm/lb-ft 12  at rpm 6  Type BNo of cylinders  Compression ratio/fuel grade 12/S 95-98 For max output with 98 RON, opt 91 For Max output with 98 RON, op	1110
at         rpm         77           Max torque         Nm/lb-ft         12           at         rpm         6           Type         B           No of cylinders         12/S 95-98 F           Compression ratio/fuel grade         12/S 95-98 F           Walve/gas management         DO           Valve/gas management         DO           Valves per cylinder         Intake/outlet diameter           Intake/outlet diameter         mm           Throttle butterfly diameter         mm           Evaluate management         Fully controlled three-way catalytic converted by controlled three-way c	7750 7750 20/88 120/88 6 000 6 000 80xer Boxer 2 2 2 RON, 12/S 95-98 RON, RON max output with 98 RON, opt 91 RON OHC DOHC 4 4 4 4 89/33 39/33 50 50 S-K+ BMS-K+ rerter Fully controlled three-way catalytic conv 720 720 720 720 720 720 721 720 720 720 720 721 720 7
Max torque Nm/lb-ft 12 at rpm 6 Type B No of cylinders Compression ratio/fuel grade	20/88         120/88           6 000         6 000           30xer         Boxer           2         2           RON,         12/S 95-98 RON,           RON max output with 98 RON, opt 91 RON           OHC         DOHC           4         4           49/33         39/33           50         50           S-K+         BMS-K+           Verter         Fully controlled three-way catalytic conv           720         720           12/14, maintenance-free         H7           1.1         1.1           1.1         1.1           1.1         1.1           1.1         1.1           1.2         1.737           2.375         2.375, optional 2.600           1.696         1.696
at rpm 6 Type B No of cylinders  Compression ratio/fuel grade 12/S 95-98 F max output with 98 RON, opt 91 F Valve/gas management DC Valves per cylinder Intake/outlet diameter mm 3 Throttle butterfly diameter mm Fuel mixture BMS Exhaust management Fully controlled three-way catalytic convolute management W Battery V/Ah 12/14, maintenance-Headlight W Starter kW  Power Transmission/Gearbox Clutch Single-plate dry clutch, dia 180 Gearbox Dog-type six-speed gea Primary transmission ratio 1 Gear ratios I 2 III 1 III 1 IV 1 IV 1 ORear wheel drive Drives	6 000         6 000           30xer         Boxer           2         2           2RON, RON         12/S 95-98 RON, RON           RON max output with 98 RON, opt 91 RON         DOHC           4         4           489/33         39/33           50         50           S-K+         BMS-K+           Verter         Fully controlled three-way catalytic conv           720         720           12/14, maintenance-free         H7           1.1         1.1           1.1         1.1           1.1         1.1           1.737         1.737           2.375         2.375, optional 2.600           1.696         1.696
Type No of cylinders  Compression ratio/fuel grade  Valve/gas management Valves per cylinder Intake/outlet diameter Throttle butterfly diameter Fuel mixture  Electrical System Alternator W Battery V/Ah Battery V/Ah Starter  Power Transmission/Gearbox Clutch Gearbox Dog-type six-speed gea Primary transmission ratio Gear ratios I I II I	Boxer   Boxer   2   2   2   2   2   2   2   2   2
No of cylinders  Compression ratio/fuel grade  Valve/gas management  Valves per cylinder Intake/outlet diameter In	2 2 RON, 12/S 95-98 RON, RON opt 91 RON OHC DOHC 4 4 4 89/33 39/33 S9/33 39/33 S9/33 39/33 SS-K+ BMS-K+ Perter Fully controlled three-way catalytic conv 720 720 Perfee 12/14, maintenance-free H7 1.1 1.1 1.1 1.1 1.1 1.1 2 mm Single-plate dry clutch, dia 180 mm arbox Dog-type six-speed gearbox 1.737 2.375 2.375, optional 2.600 1.696
Compression ratio/fuel grade  Valve/gas management Valves per cylinder Intake/outlet diameter Introttle butterfly diameter Euel mixture Electrical System Alternator Battery V/Ah Starter  Power Transmission/Gearbox Clutch Gearbox Dog-type six-speed gea Primary transmission ratio Gear ratios I Gear ratios I II	RON, RON max output with 98 RON, opt 91 RON OHC DOHC 4 4 4 89/33 39/33 50 50 S-K+ BMS-K+ Perter Fully controlled three-way catalytic conv 720 720 720 720 12/14, maintenance-free H7 H7 1.1 1.1 1.1 1.1 1.1 1.1 2.375 2.375, optional 2.600 1.696
Compression ratio/fuel grade  Table 95-98 Found Foundation Foundation Full for the sear of	RON         max output with 98 RON, opt 91 RON           OHC         DOHC           4         4           49/33         39/33           50         50           S-K+         BMS-K+           rerter         Fully controlled three-way catalytic conv           720         720           7-free         12/14, maintenance-free           H7         H7           1.1         1.1           Imm         Single-plate dry clutch, dia 180 mm           arbox         Dog-type six-speed gearbox           1.737         1.737           2.375         2.375, optional 2.600           1.696         1.696
Valve/gas management Valve/gas management Valve/gas management Valves per cylinder Intake/outlet diameter Introttle butterfly diameter Even mixture Exhaust management  Fully controlled three-way catalytic converted by the conve	RON         max output with 98 RON, opt 91 RON           OHC         DOHC           4         4           49/33         39/33           50         50           S-K+         BMS-K+           rerter         Fully controlled three-way catalytic conv           720         720           7-free         12/14, maintenance-free           H7         H7           1.1         1.1           Imm         Single-plate dry clutch, dia 180 mm           arbox         Dog-type six-speed gearbox           1.737         1.737           2.375         2.375, optional 2.600           1.696         1.696
Valve/gas management     DO       Valves per cylinder     Intake/outlet diameter       Intake/outlet diameter     mm       Throttle butterfly diameter     mm       Fuel mixture     BMS       Exhaust management     Fully controlled three-way catalytic converted by three-way catalyt	OHC         DOHC           4         4           39/33         39/33           50         50           S-K+         BMS-K+           verter         Fully controlled three-way catalytic conv           720         720           1-free         12/14, maintenance-free           H7         H7           1.1         1.1           1.1         1.1           1.737         1.737           2.375         2.375, optional 2.600           1.696         1.696
Valves per cylinder Intake/outlet diameter mm 33 Throttle butterfly diameter mm Fuel mixture BMS Exhaust management Fully controlled three-way catalytic conversal states and several states are several states are several states and several states are several states and several states are several st	4 4 4 89/33 39/33 50 50 S-K+ BMS-K+ verter Fully controlled three-way catalytic conv  720 720 -free 12/14, maintenance-free H7 H7 1.1 1.1  mm Single-plate dry clutch, dia 180 mm arbox Dog-type six-speed gearbox Dog-type six-speed gearbox 2.375 2.375, optional 2.600 1.696 1.696
Intake/outlet diameter mm 3 Throttle butterfly diameter mm Fuel mixture BMS Exhaust management Fully controlled three-way catalytic conversal forms and the properties of the	39/33     39/33       50     50       S-K+     BMS-K+       Fully controlled three-way catalytic conv       720     720       5-free     12/14, maintenance-free       H7     H7       1.1     1.1       1.1     1.1       1.737     0.375       2.375     2.375, optional 2,600       1.696     1.696
Throttle butterfly diameter mm Fuel mixture BMS Exhaust management Fully controlled three-way catalytic converse shades a superscript of the super	50   50   S-K+   BMS-K+
Throttle butterfly diameter mm Fuel mixture BMS Exhaust management Fully controlled three-way catalytic converse shadows and several s	50   50   S-K+   BMS-K+
Fuel mixture BMS Exhaust management Fully controlled three-way catalytic converged Fully Controlled Three-way catalytic	S-K+   BMS-K+
Exhaust management  Fully controlled three-way catalytic converged by the controlled three-way catalytic converged by the controlled three-way catalytic converged by the conver	720 720 Pefree 12/14, maintenance-free H7 1.1 1.1  Single-plate dry clutch, dia 180 mm Dog-type six-speed gearbox 1.737 1.737 2.375 2.375, optional 2.600 1.696
Electrical System           Alternator         W           Battery         V/Ah         12/14, maintenance-           Headlight         W           Starter         kW           Power Transmission/Gearbox           Clutch         Single-plate dry clutch, dia 180           Gearbox         Dog-type six-speed gea           Primary transmission ratio         1           Gear ratios         I         2           III         1           IV         1           IV         1           V         0           V         0           V         0           V         0           Rear wheel drive         Drives	720 720 e-free 12/14, maintenance-free H7 1.1 1.1  mm Single-plate dry clutch, dia 180 mm arbox Dog-type six-speed gearbox 1.737 2.375 2.375, optional 2.600 1.696 1.696
Alternator         W           Battery         V/Ah         12/14, maintenance-           Headlight         W           Starter         kW           Power Transmission/Gearbox           Clutch         Single-plate dry clutch, dia 180           Gearbox         Dog-type six-speed gea           Primary transmission ratio         1           Gear ratios         I         2           III         1           III         1           IV         1           V         0           VI         0           Rear wheel drive         Drives	e-free 12/14, maintenance-free H7 H7 1.1 1.1  Single-plate dry clutch, dia 180 mm arbox Dog-type six-speed gearbox 1.737 2.375 2.375, optional 2.600 1.696 1.696
Alternator         W           Battery         V/Ah         12/14, maintenance-           Headlight         W           Starter         kW           Power Transmission/Gearbox           Clutch         Single-plate dry clutch, dia 180           Gearbox         Dog-type six-speed gea           Primary transmission ratio         1           Gear ratios         I         2           III         1           III         1           IV         1           V         0           VI         0           Rear wheel drive         Drives	e-free 12/14, maintenance-free H7 H7 1.1 1.1  Single-plate dry clutch, dia 180 mm arbox Dog-type six-speed gearbox 1.737 2.375 2.375, optional 2.600 1.696 1.696
Battery         V/Ah         12/14, maintenance-           Headlight         W           Starter         kW           Power Transmission/Gearbox         Clutch         Single-plate dry clutch, dia 180           Gearbox         Dog-type six-speed gea           Primary transmission ratio         1           Gear ratios         I         2           III         1           IV         1           V         0           V         0           V         0           Rear wheel drive         Drives	e-free 12/14, maintenance-free H7 H7 1.1 1.1  Single-plate dry clutch, dia 180 mm arbox Dog-type six-speed gearbox 1.737 2.375 2.375, optional 2.600 1.696 1.696
Battery         V/Ah         12/14, maintenance-           Headlight         W           Starter         kW           Power Transmission/Gearbox         Clutch         Single-plate dry clutch, dia 180           Gearbox         Dog-type six-speed gea           Primary transmission ratio         1           Gear ratios         I         2           III         1           IV         1           V         0           V         0           V         0           Rear wheel drive         Drives	e-free 12/14, maintenance-free H7 H7 1.1 1.1  Single-plate dry clutch, dia 180 mm arbox Dog-type six-speed gearbox 1.737 1.737 2.375 2.375, optional 2.600 1.696 1.696
Headlight   W   Starter   kW	H7 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.
Starter         kW           Power Transmission/Gearbox           Clutch         Single-plate dry clutch, dia 180           Gearbox         Dog-type six-speed gea           Primary transmission ratio         1           Gear ratios         I         2           III         1           IV         1           IV         1           V         0           V         0           VI         0           Rear wheel drive         Drives	1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1
Power Transmission/Gearbox           Clutch         Single-plate dry clutch, dia 180           Gearbox         Dog-type six-speed gea           Primary transmission ratio         1           Gear ratios         I         2           III         1           IV         1           IV         1           V         0           VI         0           Rear wheel drive         Drives	mm Single-plate dry clutch, dia 180 mm arbox Dog-type six-speed gearbox 1.737 1.737 2.375 2.375, optional 2.600 1.696 1.696
Clutch         Single-plate dry clutch, dia 180           Gearbox         Dog-type six-speed gea           Primary transmission ratio         1           Gear ratios         I         2           III         1           IV         1           V         0           VI         0           Rear wheel drive         Drives	arbox Dog-type six-speed gearbox 1.737 1.737 2.375 2.375, optional 2.600 1.696 1.696
Clutch         Single-plate dry clutch, dia 180           Gearbox         Dog-type six-speed gea           Primary transmission ratio         1           Gear ratios         I         2           III         1           IV         1           V         0           VI         0           Rear wheel drive         Drives	arbox Dog-type six-speed gearbox 1.737 1.737 2.375 2.375, optional 2.600 1.696 1.696
Gearbox         Dog-type six-speed gea           Primary transmission ratio         1           Gear ratios         I         2           III         1           IV         1           V         0           VI         0           Rear wheel drive         Drives	arbox Dog-type six-speed gearbox 1.737 1.737 2.375 2.375, optional 2.600 1.696 1.696
Primary transmission ratio         1         2           Gear ratios         I         2           III         1         1           IV         1         1           V         0         0           VI         0         0           Rear wheel drive         Drives         Drives	arbox Dog-type six-speed gearbox 1.737 1.737 2.375 2.375, optional 2.600 1.696 1.696
Primary transmission ratio         1         2           Gear ratios         I         2           III         1         1           IV         1         1           V         0         0           VI         0         0           Rear wheel drive         Drives         Drives	1.737 1.737 2.375 2.375, optional 2.600 1.696 1.696
Gear ratios         I         2           III         1           III         1           IV         1           V         0           VI         0           Rear wheel drive         Drives	2.375 2.375, optional 2.600 1.696 1.696
II	1.696
III	
IV         1           V         0           VI         0           Rear wheel drive         Drives	1.296
V         0           VI         0           Rear wheel drive         Drives	
V         0           VI         0           Rear wheel drive         Drives	1.065
VI 0 Rear wheel drive Drives	0.939
Rear wheel drive Drives	0.848 0.848
Final drive ratio	
	2.91 2.91
Suspension and Running Gear	
Tubular steel spacefra	rame, Tubular steel spaceframe,
Frame, type engine load-bea	
Wheel guidance, front BMW Telel	
Wheel guidance, rear BMW Paral	alever BMW Paralever
Spring travel, front/rear mm 190	0/200 210/220
Castor mm	101 88.7
	1507 1 510
Steering nead angle	64.3 65.2
Brakes front Double-disc brake, dia 305	
rear Single-disc brake, dia 265	5 mm Single-disc brake, dia 265 mm
Optional: BMW Motorrad Integral	
(semi-integral, with on/off cor	optional bittit motorida mitogram ibo
	(committegral) that containing
Wheels Cast wh	
front 2.5	i x 19 2.5 x 19
	0 x 17 4.0 x 17
Tyres front 110/80 I	
rear 150/70 l	150/70 R 17
B) I III I I	
Dimensions and Weight	
Length, overall mm 2	2 210 2 240
Width, overall, with mirrors mm	940 990
Width, overall, without mirrors mm	930 950
	530 530 530 530 530 530
Dry weight kg	203 223
Weight, DIN unladen, in road trim kg	229 256
Max permissible kg	440 475
Tank capacity Itr	20 33
· · · · · · · · · · · · · · · · · · ·	
Porformance Data	
Performance Data	10
Fuel consumption 90 km/h l/100 km	4.3 4.6
120 km/h l/100 km	5.5 6.1
Acceleration 0–100 km/h sec	3.7 3.95
Top speed km/h 200	
	plus 200 plus

Power Unit		BMW F 800 GS	BMW F 650 GS
21		700	
Capacity	CC	798	
Bore/stroke	mm	82/75.6	50/7/
Vlax output	kW/hp	63/85	52/7
at	rpm	7 500	7000
Max torque	Nm/lb-ft	83/61	75/58
t	rpm	5750	4 500
No of cylinders	.1		10.0/sec.ules usleed at /01.DON
Compression ratio/fuel grade	:1	12.0/premium unleaded (95 RON)	12.0/regular unleaded (91 RON
/alve/gas management		DOHC (double overhead camshaft)	
/alves per cylinder		4	
ntake/outlet diameter	mm	32/27.5	
Fhrottle butterfly diameter	mm	46	0.1/0
Fuel mixture		Electronic intake manifold injection, BMS	S-KP engine management
Electrical System			
Alternator	W	400	
Battery	V/Ah	12/14	
-leadlight/rear light	W	55 (high-/low-beam) 5 parking light	LED (brake/rear light)
Starter	kW	0.9	
Power Transmission/Gearbox			
Clutch		Multi-plate clutch in oil bath, med	chanically operated
Gearbox		Dog-shift six-speed of	
Primary transmission ratio		1:1.943	gearbox
Gear ratios		1:2.462	
Jeal Tatios	<u>'</u> 	1:1.750	
	<u>"</u>	1:1.381	
	III IV		
		1:1.174	
	V	1:1.042	
2	VI	1:0.960	and the second of the second o
Rear wheel drive		Endless O-ring chain drive with revers	
Final drive ratio		1:2.625 (16/42)	1:2.412 (17/41
Suchancian and Running Gear			
	•	Tubular engeoframo, etgol, and	nino load hoaring
rame, type		Tubular spaceframe, steel, eng	<u> </u>
Frame, type Wheel guidance, front		-down telescopic fork, fixed tube, dia 45 mm	Telescopic fork, fixed tube, dia 43 mn
rame, type Wheel guidance, front Wheel guidance, rear	Upside	-down telescopic fork, fixed tube, dia 45 mm Single-piece, cast two-arm alur	Telescopic fork, fixed tube, dia 43 mn ninium swing arm
Frame, type  Wheel guidance, front  Wheel guidance, rear  Spring travel, front/rear	Upside mm	-down telescopic fork, fixed tube, dia 45 mm Single-piece, cast two-arm alur 230/215	Telescopic fork, fixed tube, dia 43 mn minium swing arm 180/170
Frame, type Wheel guidance, front Wheel guidance, rear Spring travel, front/rear Castor	Upside mm mm	-down telescopic fork, fixed tube, dia 45 mm Single-piece, cast two-arm alur 230/215 117	Telescopic fork, fixed tube, dia 43 mn minium swing arm 180/170 9
Frame, type Wheel guidance, front Wheel guidance, rear Spring travel, front/rear Castor Wheelbase	Upside mm mm mm	-down telescopic fork, fixed tube, dia 45 mm Single-piece, cast two-arm alur 230/215 117 1578	Telescopic fork, fixed tube, dia 43 mm minium swing arm 180/170 9 157:
Suspension and Running Gear Frame, type Wheel guidance, front Wheel guidance, rear Spring travel, front/rear Castor Wheelbase Steering head angle	Upside mm mm mm	-down telescopic fork, fixed tube, dia 45 mm Single-piece, cast two-arm alur 230/215 117 1578 64.0	Telescopic fork, fixed tube, dia 43 mm minium swing arm 180/170 97 1575 64.0
Frame, type Wheel guidance, front Wheel guidance, rear Spring travel, front/rear Castor Wheelbase Steering head angle	Upside mm mm mm ° front	-down telescopic fork, fixed tube, dia 45 mm Single-piece, cast two-arm alur 230/215 117 1578 64.0 Double-disc brake, dia 300 mm	Telescopic fork, fixed tube, dia 43 mm minium swing arm 180/170 9 157: 64.0 Single-disc brake, dia 300 mm
Frame, type Wheel guidance, front Wheel guidance, rear Spring travel, front/rear Castor Wheelbase Steering head angle	Upside mm mm mm	-down telescopic fork, fixed tube, dia 45 mm  Single-piece, cast two-arm alur 230/215 117 1578 64.0  Double-disc brake, dia 300 mm Single-disc brake, dia 265 mm	Telescopic fork, fixed tube, dia 43 mm ninium swing arm 180/170 9° 157: 64.0 Single-disc brake, dia 300 mm Single-disc brake, dia 265 mm
Frame, type Wheel guidance, front Wheel guidance, rear Spring travel, front/rear Castor Wheelbase Steering head angle Brakes	Upside mm mm mm ° front	-down telescopic fork, fixed tube, dia 45 mm  Single-piece, cast two-arm alur 230/215 117 1578 64.0  Double-disc brake, dia 300 mm Single-disc brake, dia 265 mm  BMW Motorrad ABS with on/off	Telescopic fork, fixed tube, dia 43 mm ninium swing arm  180/170 9 157: 64.0 Single-disc brake, dia 300 mm Single-disc brake, dia 265 mm function, optional
Frame, type Wheel guidance, front Wheel guidance, rear Spring travel, front/rear Castor Wheelbase Steering head angle Brakes	Upside  mm  mm  o  front  rear	-down telescopic fork, fixed tube, dia 45 mm  Single-piece, cast two-arm alur 230/215 117 1578 64.0 Double-disc brake, dia 300 mm Single-disc brake, dia 265 mm  BMW Motorrad ABS with on/off	Telescopic fork, fixed tube, dia 43 mm ninium swing arm  180/176 99 157: 64.6 Single-disc brake, dia 300 mm Single-disc brake, dia 265 mm function, optional Cast aluminium wheel
Frame, type Wheel guidance, front Wheel guidance, rear Spring travel, front/rear Castor Wheelbase Steering head angle Brakes	Upside mm mm mm ° front	-down telescopic fork, fixed tube, dia 45 mm  Single-piece, cast two-arm alur 230/215 117 1578 64.0  Double-disc brake, dia 300 mm Single-disc brake, dia 265 mm  BMW Motorrad ABS with on/off	Telescopic fork, fixed tube, dia 43 mm minium swing arm 180/170 9: 1579 64.0 Single-disc brake, dia 300 mm Single-disc brake, dia 265 mm function, optional
Frame, type  Wheel guidance, front  Wheel guidance, rear  Spring travel, front/rear  Castor  Wheelbase	Upside  mm  mm  o  front  rear	-down telescopic fork, fixed tube, dia 45 mm  Single-piece, cast two-arm alur 230/215 117 1578 64.0 Double-disc brake, dia 300 mm Single-disc brake, dia 265 mm  BMW Motorrad ABS with on/off	Telescopic fork, fixed tube, dia 43 mm ninium swing arm  180/170 97 1575 64.0 Single-disc brake, dia 300 mm Single-disc brake, dia 265 mm function, optional  Cast aluminium wheels 2.50x15
Frame, type  Wheel guidance, front  Wheel guidance, rear  Spring travel, front/rear  Castor  Wheelbase  Steering head angle  Brakes	Upside  mm  mm  o  front  rear	-down telescopic fork, fixed tube, dia 45 mm  Single-piece, cast two-arm alur 230/215 117 1578 64.0 Double-disc brake, dia 300 mm Single-disc brake, dia 265 mm BMW Motorrad ABS with on/off Spoke wheels with aluminium rims 2.15x21	Telescopic fork, fixed tube, dia 43 mm ninium swing arm  180/170 97 1575 64.0 Single-disc brake, dia 300 mm Single-disc brake, dia 265 mm function, optional Cast aluminium wheels 2.50x15 3.50x17
Frame, type  Wheel guidance, front  Wheel guidance, rear  Spring travel, front/rear  Castor  Wheelbase  Steering head angle  Brakes	Upside  mm  mm  mm  ofront  rear	-down telescopic fork, fixed tube, dia 45 mm  Single-piece, cast two-arm alur 230/215 117 1578 64.0 Double-disc brake, dia 300 mm Single-disc brake, dia 265 mm BMW Motorrad ABS with on/off Spoke wheels with aluminium rims 2.15x21 4.25x17	Telescopic fork, fixed tube, dia 43 mm minium swing arm  180/170 9: 1579 64.0 Single-disc brake, dia 300 mm Single-disc brake, dia 265 mm function, optional Cast aluminium wheels 2.50x19 3.50x1
Frame, type  Wheel guidance, front  Wheel guidance, rear  Spring travel, front/rear  Castor  Wheelbase  Steering head angle  Brakes  Wheels	Upside  mm  mm  mm  front  rear  front  rear  front	-down telescopic fork, fixed tube, dia 45 mm  Single-piece, cast two-arm alur 230/215 117 1578 64.0 Double-disc brake, dia 300 mm Single-disc brake, dia 265 mm BMW Motorrad ABS with on/off Spoke wheels with aluminium rims 2.15x21 4.25x17 90/90-21 54 V	Telescopic fork, fixed tube, dia 43 mm minium swing arm  180/170 9: 1579 64.0 Single-disc brake, dia 300 mm Single-disc brake, dia 265 mm function, optional Cast aluminium wheels 2.50x19 3.50x1
Frame, type Wheel guidance, front Wheel guidance, rear Spring travel, front/rear Castor Wheelbase Steering head angle Brakes Wheels  Fyres  Dimensions and Weight	Upside  mm  mm  mm  front  rear  front  rear  front	-down telescopic fork, fixed tube, dia 45 mm  Single-piece, cast two-arm alur 230/215 117 1578 64.0 Double-disc brake, dia 300 mm Single-disc brake, dia 265 mm BMW Motorrad ABS with on/off Spoke wheels with aluminium rims 2.15x21 4.25x17 90/90-21 54 V	Telescopic fork, fixed tube, dia 43 mm ninium swing arm  180/170 9 157: 64. Single-disc brake, dia 300 mm Single-disc brake, dia 265 mm function, optional Cast aluminium wheel 2.50x1: 3.50x1 110/80-R17 69 F
Frame, type Wheel guidance, front Wheel guidance, rear Spring travel, front/rear Castor Wheelbase Steering head angle Brakes Wheels  Fyres  Dimensions and Weight Length, overall	Upside  mm  mm  mm  front  rear  front  rear  front  rear  front  mm	-down telescopic fork, fixed tube, dia 45 mm  Single-piece, cast two-arm alur 230/215 117 1578 64.0 Double-disc brake, dia 300 mm Single-disc brake, dia 265 mm BMW Motorrad ABS with on/off Spoke wheels with aluminium rims 2.15x21 4.25x17 90/90-21 54 V 150/70-R17 69 V	Telescopic fork, fixed tube, dia 43 mm ninium swing arm  180/170 9 157: 64. Single-disc brake, dia 300 mm Single-disc brake, dia 265 mm function, optional Cast aluminium wheel 2.50x1: 3.50x1: 110/80-R19 59 H
Frame, type Wheel guidance, front Wheel guidance, rear Spring travel, front/rear Castor Wheelbase Steering head angle Brakes Wheels  Fyres  Dimensions and Weight Length, overall Width, overall, with mirrors	mm mm mm ofront rear front rear front rear front mm mm	-down telescopic fork, fixed tube, dia 45 mm  Single-piece, cast two-arm alur 230/215 117 1578 64.0 Double-disc brake, dia 300 mm Single-disc brake, dia 265 mm BMW Motorrad ABS with on/off Spoke wheels with aluminium rims 2.15x21 4.25x17 90/90-21 54 V 150/70-R17 69 V	Telescopic fork, fixed tube, dia 43 mm ninium swing arm  180/176  9  157: 64. Single-disc brake, dia 300 mm Single-disc brake, dia 265 mm function, optional Cast aluminium wheel 2.50x1: 3.50x1 110/80-R19 59 H 140/80-R17 69 H
Frame, type Wheel guidance, front Wheel guidance, rear Spring travel, front/rear Castor Wheelbase Steering head angle Brakes Wheels  Fyres  Dimensions and Weight Length, overall Width, overall, with mirrors Width, overall, without mirrors	mm mm mm front rear front rear front mm mm mm mm	-down telescopic fork, fixed tube, dia 45 mm  Single-piece, cast two-arm alur 230/215 117 1578 64.0 Double-disc brake, dia 300 mm Single-disc brake, dia 265 mm BMW Motorrad ABS with on/off Spoke wheels with aluminium rims 2.15x21 4.25x17 90/90-21 54 V 150/70-R17 69 V  2320 945 870	Telescopic fork, fixed tube, dia 43 mminium swing arm  180/176 99 1579 64.1 Single-disc brake, dia 300 mm Single-disc brake, dia 265 mm function, optional Cast aluminium wheel 2.50x19 3.50x11 110/80-R19 59 H 140/80-R17 69 H
Frame, type  Wheel guidance, front  Wheel guidance, rear  Spring travel, front/rear  Castor  Wheelbase  Steering head angle  Brakes  Wheels  Fyres  Dimensions and Weight Length, overall  Width, overall, with mirrors  Width, overall, without mirrors  Seat height	mm mm mm front rear front rear front mm mm mm mm	-down telescopic fork, fixed tube, dia 45 mm  Single-piece, cast two-arm alur 230/215 117 1578 64.0 Double-disc brake, dia 300 mm Single-disc brake, dia 265 mm BMW Motorrad ABS with on/off Spoke wheels with aluminium rims 2.15x21 4.25x17 90/90-21 54 V 150/70-R17 69 V  2320 945 870 880 (option 850)	Telescopic fork, fixed tube, dia 43 mm ninium swing arm  180/176  9  157: 64. Single-disc brake, dia 300 mm Single-disc brake, dia 265 mm function, optional Cast aluminium wheel 2.50x1: 3.50x1: 110/80-R19 59 H 140/80-R17 69 H
Frame, type  Wheel guidance, front  Wheel guidance, rear  Spring travel, front/rear  Castor  Wheelbase  Steering head angle  Brakes  Wheels  Dimensions and Weight  Length, overall  Width, overall, with mirrors  Width, overall, without mirrors  Seat height  Dry weight	mm mm mm front rear front rear front rear front rear	-down telescopic fork, fixed tube, dia 45 mm  Single-piece, cast two-arm alur 230/215 117 1578 64.0 Double-disc brake, dia 300 mm Single-disc brake, dia 265 mm BMW Motorrad ABS with on/off Spoke wheels with aluminium rims 2.15x21 4.25x17 90/90-21 54 V 150/70-R17 69 V  2320 945 870 880 (option 850)	Telescopic fork, fixed tube, dia 43 mm ninium swing arm  180/176  9  157: 64. Single-disc brake, dia 300 mm Single-disc brake, dia 265 mm function, optional Cast aluminium wheel 2.50x1: 3.50x1: 110/80-R19 59 H 140/80-R17 69 H
Frame, type  Wheel guidance, front  Wheel guidance, rear  Spring travel, front/rear  Castor  Wheelbase  Steering head angle  Brakes  Wheels  Dimensions and Weight  Length, overall, with mirrors  Midth, overall, without mirrors  Seat height  Dry weight  Weight, DIN unladen, in road trim	mm mm mm o front rear  front rear  front rear  front rear  front rear  front rear	-down telescopic fork, fixed tube, dia 45 mm  Single-piece, cast two-arm alur 230/215  117 1578 64.0  Double-disc brake, dia 300 mm Single-disc brake, dia 265 mm BMW Motorrad ABS with on/off Spoke wheels with aluminium rims 2.15x21 4.25x17 90/90-21 54 V 150/70-R17 69 V  2320 945 870 880 (option 850) 185 207	Telescopic fork, fixed tube, dia 43 mm minium swing arm  180/17/ 97 157: 64.0 Single-disc brake, dia 300 mm Single-disc brake, dia 265 mm function, optional Cast aluminium wheel 2.50x1: 3.50x1: 110/80-R17 69 H 140/80-R17 69 H 2280 890 841 820 (option 790
Frame, type  Wheel guidance, front  Wheel guidance, rear  Spring travel, front/rear  Castor  Wheelbase  Steering head angle  Brakes	mm mm mm front rear front rear front rear front rear	-down telescopic fork, fixed tube, dia 45 mm  Single-piece, cast two-arm alur 230/215 117 1578 64.0 Double-disc brake, dia 300 mm Single-disc brake, dia 265 mm BMW Motorrad ABS with on/off Spoke wheels with aluminium rims 2.15x21 4.25x17 90/90-21 54 V 150/70-R17 69 V  2320 945 870 880 (option 850)	Telescopic fork, fixed tube, dia 43 mm minium swing arm  180/170 97 1575 64.0 Single-disc brake, dia 300 mm Single-disc brake, dia 265 mm function, optional Cast aluminium wheels 2.50x19 3.50x11 110/80-R17 69 H 140/80-R17 69 H 2280 890 845 820 (option 790 179 199
Frame, type  Wheel guidance, front  Wheel guidance, rear  Spring travel, front/rear  Castor  Wheelbase  Steering head angle  Brakes  Wheels  Dimensions and Weight Length, overall  Width, overall, with mirrors  Midth, overall, without mirrors  Seat height  Dry weight  Weight, DIN unladen, in road trim  Max permissible  Fank capacity	mm mm mm offront rear front rear front rear front rear front rear front rear	-down telescopic fork, fixed tube, dia 45 mm  Single-piece, cast two-arm alur 230/215  117 1578 64.0  Double-disc brake, dia 300 mm Single-disc brake, dia 265 mm BMW Motorrad ABS with on/off Spoke wheels with aluminium rims 2.15x21 4.25x17 90/90-21 54 V 150/70-R17 69 V  2320 945 870 880 (option 850) 185 207 443*	Telescopic fork, fixed tube, dia 43 mm ninium swing arm 180/170 97 1575 64.0 Single-disc brake, dia 300 mm Single-disc brake, dia 265 mm
Frame, type  Wheel guidance, front  Wheel guidance, rear  Spring travel, front/rear  Castor  Wheelbase  Steering head angle  Brakes  Wheels  Dimensions and Weight Length, overall  Width, overall, with mirrors  Midth, overall, without mirrors  Seat height  Dry weight  Weight, DIN unladen, in road trim  Max permissible  Fank capacity  Performance Data	mm	-down telescopic fork, fixed tube, dia 45 mm  Single-piece, cast two-arm alur 230/215  117 1578 64.0  Double-disc brake, dia 300 mm Single-disc brake, dia 265 mm BMW Motorrad ABS with on/off Spoke wheels with aluminium rims 2.15x21 4.25x17 90/90-21 54 V 150/70-R17 69 V  2320 945 870 880 (option 850) 185 207 443* 16	Telescopic fork, fixed tube, dia 43 mm minium swing arm  180/176 97 1575 64.6 Single-disc brake, dia 300 mm Single-disc brake, dia 265 mm function, optional Cast aluminium wheels 2.50x15 3.50x1 110/80-R19 59 H 140/80-R17 69 H  2286 899 844 820 (option 790 179 199 436
Frame, type  Wheel guidance, front  Wheel guidance, rear  Spring travel, front/rear  Castor  Wheelbase  Steering head angle  Brakes  Wheels  Dimensions and Weight  Length, overall, with mirrors  Width, overall, without mirrors  Seat height  Dry weight  Weight, DIN unladen, in road trim  Max permissible  Fank capacity  Performance Data  Fuel consumption 90 km/h	mm	-down telescopic fork, fixed tube, dia 45 mm  Single-piece, cast two-arm alur 230/215  117 1578 64.0  Double-disc brake, dia 300 mm Single-disc brake, dia 265 mm BMW Motorrad ABS with on/off Spoke wheels with aluminium rims 2.15x21 4.25x17 90/90-21 54 V 150/70-R17 69 V  2320 945 870 880 (option 850) 185 207 4443* 16	Telescopic fork, fixed tube, dia 43 mm minium swing arm  180/176 97 1575 64.0 Single-disc brake, dia 300 mm Single-disc brake, dia 265 mm function, optional Cast aluminium wheels 2.50x15 3.50x1 110/80-R17 69 H 140/80-R17 69 H 2280 889 844 820 (option 790 179 199 436
Frame, type  Wheel guidance, front  Wheel guidance, rear  Spring travel, front/rear  Castor  Wheelbase  Steering head angle  Brakes  Wheels  Dimensions and Weight  Length, overall, with mirrors  Width, overall, without mirrors  Seat height  Dry weight  Weight, DIN unladen, in road trim  Max permissible  Fank capacity  Performance Data	mm	-down telescopic fork, fixed tube, dia 45 mm  Single-piece, cast two-arm alur 230/215  117 1578 64.0  Double-disc brake, dia 300 mm Single-disc brake, dia 265 mm BMW Motorrad ABS with on/off Spoke wheels with aluminium rims 2.15x21 4.25x17 90/90-21 54 V 150/70-R17 69 V  2320 945 870 880 (option 850) 185 207 443* 16	Telescopic fork, fixed tube, dia 43 mm minium swing arm  180/176 97 1575 64.6 Single-disc brake, dia 300 mm Single-disc brake, dia 265 mm function, optional Cast aluminium wheels 2.50x15 3.50x1 110/80-R19 59 H 140/80-R17 69 H  2286 899 844 820 (option 790 179 199 436

<sup>\*</sup>Max load on lowered model 150 kg