

# Phil Hawksley's BM Bikes

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## BMW R850GS Specifications

<b>Start of Production</b>	<b>1996</b>
<b>End of Production</b>	<b>2001</b>
<b>Numbers Produced</b>	<b>2,242</b>
<b>Price</b>	<b>18,750 DM</b>



### Engine

Motor Type	Four-stroke, two cylinder, horizontally opposed "Boxer" engine, air cooled
Bore x Stroke	87.8 x 70.5 (3.45 x 2.77 in)
Displacement	848 cc
Max Power	70 hp (52 KW) at 7,000 rpm
Max Torque	77 Nm / 56 ft lb at 5,500 rpm
Compression Ratio	10.3 : 1
Valves Per Cylinder	4
Valve Control	hc, using chain drive, cup tappets, push rod and rocker arm
Carburation System	Electronic injection, Bosch Motronic MA 2.2
Engine Lubricating System	Wet sump

### Power Transmission

Clutch	Dry single plate, with lever action diaphragm spring
Number of Gears	5
Gear Selection	Dog type gearbox (ratchet foot lever)
Gearbox Ratios	4.16 / 2.91 / 2.13 / 1.74 / 1.45 : 1
Rear Wheel Ratio	1 : 3.36
Bevel/Crownwheel	11 / 37 teeth

### Electrical System

Ignition System	Electronic ignition, Bosch Motronic MA 2.2
Alternator	12 V 700 W
Starter	1.1 Kw
Spark Plugs	Bosch FR6 DDC

### Chassis

Type of Frame	3 part tubular space frame, engine serving
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Front wheel suspension	as load bearing component BMW Telelever fork with longitudinal control arm and central strut
Rear wheel suspension	BMW Paralever swinging arm
Spring Travel Front/Rear	190 / 200 mm (7.48 x 7.87 in)
Wheel Rims, Front	BMW cross spoke wheels 2.50 x 19 MT H2
Wheel Rims, Rear	BMW cross spoke wheels 4.00 x 17 MT H2
Tyres, Front	110 / 80 R 19 59 H
Tyres, Rear	150 / 70 R 17 69 H
Brakes, Front	Dual disc brake 305 mm / 12.00 in diameter
Brakes, Rear	Single disc brake 276 mm / 10.86 in diameter

### **Dimensions/Weights**

Length x Width x Height	2196 x 920 x 1366 mm (86.45 x 36.22 x 53.77 in)
Wheel Base	1509 mm / 59.40 in
Fuel Tank Capacity	24 litres / 5.27 gal / 6.34 gal US
Unladen Weight with Full Tank	192 Kg / 422 lb
Max. Permissible Weight	450 Kg / 991 lb
Ground Clearance	200 mm / 7.87 in
Seat Height (Unladen)	840 / 860 mm (33.07 / 33.858 inches)
Fuel Consumption	4.6 litres 100 Km (at constant 90 Kph) / 61 mpg / 51 mpg US
Top Speed	187 Kph
Acceleration 0 - 100 Kph	5 seconds