

Phil Hawksley's BM Bikes

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BMW R1100RS Specifications

Start of Production	1992
End of Production	2001
Numbers Produced	26,403
Price	19,250 DM



Engine

Motor Type	Four-stroke, two cylinder, horizontally opposed "Boxer" engine, air cooled
Bore x Stroke	99 x 70.5 mm (3.89 x 2.77 in)
Displacement	1085 cc
Max Power	90 hp (66 KW) at 7,250 rpm
Max Torque	95 Nm / 70 ft lb at 5,500 rpm
Compression Ratio	10.7 : 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 : 2.81
Bevel/Crownwheel	11 / 31 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 DTC

Chassis

Type of Frame	3 part tubular space frame, engine serving as load bearing component
Front wheel suspension	BMW Telelever fork with longitudinal control arm and central strut
Rear wheel suspension	BMW Paralever swinging arm
Spring Travel Front/Rear	120 / 135 mm (4.72 in x 5.31 in)
Wheel Rims, Front	3.50 x 17
Wheel Rims, Rear	4.50 x 18
Tyres, Front	120 / 70-ZR 17
Tyres, Rear	160 / 60-ZR 18
Brakes, Front	Dual disc brake 305 mm / 12 in diameter
Brakes, Rear	Single disc brake 285 mm / 11.22 in diameter

Dimensions/Weights

Length x Width x Height	2175 x 920 x 1286 mm (85.62 x 36.22 x 50.62 in)
Wheel Base	1473 mm / 57.99 in
Fuel Tank Capacity	23 litres / 5.05 gal / 6.07 gal US
Unladen Weight with Full Tank	239 Kg / 526 lb
Max. Permissible Weight	450 Kg / 991 lb
Ground Clearance	153 mm / 6.02 in
Seat Height (Unladen)	800 mm (31.496 inches) or with adjustable seat 780 / 800 / 820 mm (30.71 / 31.496 / 32.28 inches)
Fuel Consumption (at constant 90 Kph)	4.3 litres 100 Km / 65 mpg / 54 mpg US
Top Speed	215 Kph / 133 mph
Acceleration 0 - 100 Kph / 62 mph	4.1 seconds