

Phil Hawksley's BM Bikes

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BMW R1150RS Specifications

Start of Production	2000
End of Production	N/A
Numbers Produced	N/A
Price (2003) UK £	7,995
US \$	15,490



Engine

Motor Type	Four-stroke, two cylinder, horizontally opposed "Boxer" engine, air cooled
Bore x Stroke	101 x 70.5 mm (3.97 x 2.77 in)
Displacement	1130 cc
Max Power	95 hp (70 KW) at 7,250 rpm
Max Torque	100 Nm / 73 ft lb at 5,500 rpm
Compression Ratio	11.3 : 1
Valves Per Cylinder	4
Valve Control	hc, using chain drive, cup tappets, push rod and rocker arm
Mixture Control / Engine Management	Electronic intake pipe injection/digital engine management: Bosch Motronic MA 2.4 with overrun fuel cut off, twin spark ignition (December 2002 on)
Emission Control	Closed loop 3 way catalytic converter
Engine Lubricating System	Wet sump

Power Transmission

Clutch	Single disc dry clutch, hydraulically operated
Gearbox	Constant mesh 6 speed gearbox
Gearbox Ratios	2.050 / 1.600 / 1.270 / 1.040 / 0.900 / 0.700
Rear Wheel Ratio	2.91
Drive	Shaft Drive

Electrical System

Ignition System	Electronic ignition, Bosch Motronic MA 2.4. Twin spark from December 2002
Alternator	700 W three phase alternator
Battery	12V / 19 Ah

Chassis

Type of Frame	Three section composite frame consisting of front & rear section, load bearing engine
Front wheel suspension	BMW Motorrad Telelever; stanchion diameter 35 mm, central strut
Rear wheel suspension	Die cast aluminium single sided swinging arm with BMW Motorrad Paralever; spring pre-load adjustable to continuously variable levels by mean of a hydraulic handwheel, rebound adjustable damping
Travel Front/Rear	120 / 135 mm (4.72 / 5.31 in)
Wheels	Die cast aluminium wheels
Wheel Rims, Front	3.50 x 17
Wheel Rims, Rear	5.00 x 17
Tyres, Front	120 / 70-ZR 17
Tyres, Rear	170 / 60-ZR 17
Brakes, Front	EVO brake system with dual disc, floating brake discs, diameter 320 mm, 4 piston fixed caliper
Brakes, Rear	Single disc brake 276 mm diameter, double piston floating caliper
ABS	Series equipment BMW Motorrad Integral ABS (partially integral)

Dimensions/Weights

Length x Width x Height	2170 x 920 x 1286 mm (85.43 x 36.22 x 50.62 in)
Seat Height	790 / 810 / 830 mm (31.10 / 31.88 x 32.67 in)
Wheel Base	1469 mm / 57.83 in
Castor (in Normal Position)	111 mm / 4.37 in
Steering Head Angle (in Normal Position)	64.5 degrees
Fuel Tank Useable Volume	22 litres / 4.83 gal / 5.81 gal US
Reserve	4.0 litres / 0.87 gal / 1.05 gal US
Unladen Weight with Full Tank	246 Kg / 541 lb
Dry Weight	224 Kg / 493 lb
Max. Permissible Weight	450 Kg / 991 lb
Payload (with Standard Equipment)	199 Kg / 7.83 lb
Fuel Consumption over 100 Km @ constant 90 Kph	4.2 litres / 67 mpg / 56 mpg US
Fuel Consumption over 100 Km @ constant 120 Kph	5.1 litres / 55 mpg / 46 mpg US
Fuel Type	Unleaded Premium minimum octane rating 95 (RON)
Top Speed	Over 200 Kph / 124 mph

