

Phil Hawksley's BM Bikes

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BMW R1100S Specifications

Start of Production	1996
End of Production	N/A
Numbers Produced	N/A
Price (2003) UK £	7,745
US \$	13,690



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	98 hp (72 KW) at 7,500 rpm
Max Torque	97 Nm / 71 ft lb at 5,750 rpm
Compression Ratio	11.3 : 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 2.4
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 / 0.800
Rear Wheel Ratio	2.75
Drive	Shaft Drive

Electrical System

Ignition System	Electronic ignition, Bosch Motronic MA 2.4. Twin spark from December 2002
Alternator	600 W three phase alternator (special equipment stronger power supply: 700W)
Battery	12V / 14 Ah (special equipment: 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, rebound damping adjustable Die cast aluminium single sided swinging arm with BMW Motorrad Paralever;
Rear wheel suspension	central strut, spring pre-load adjustable to continuously variable levels by mean of a hydraulic handwheel, rebound adjustable damping
Travel Front/Rear Wheels	110 / 130 mm (4.33 x 5.11 in) Die cast aluminium wheels
Wheel Rims, Front	3.50 x 17
Wheel Rims, Rear	5.00 x 17 (special equipment: 5.5 x 17)
Tyres, Front	120 / 70-ZR 17
Tyres, Rear	170 / 60-ZR 17
Brakes, Front	Twin disc 305 mm / 12 in floating, 4 piston fixed calipers. From 200?: EVO brake system with dual disc, floating brake discs, diameter 305 mm / 12 in ,4 piston fixed caliper
Brakes, Rear	Single disc brake 276 mm / 10.86 in diameter, double piston floating caliper
ABS	Special equipment BMW Motorrad Integral ABS (partially integral)

Dimensions/Weights

Length x Width x Height	2180 x 880 x 1160 mm (85.82 x 34.64 x 45.66 in)
Seat Height	800 mm / 31.49 in
Wheel Base	1478 mm / 58.18 in
Fuel Tank Useable Volume	18 litres / 3.95 gal / 4.75 gal US
Reserve	4.0 litres / 0.87 gal / 1.05 gal US
Unladen Weight with Full Tank	229 Kg / 504 lb
Dry Weight	208 Kg / 458 lb
Max. Permissible Weight	450 Kg / 991 lb
Payload (with Standard Equipment)	221 Kg / 486 lb
Fuel Consumption over 100 Km @ constant 90 Kph	4.3 litres / 65 mpg / 54 mpg US
Fuel Consumption over 100 Km @ constant 120 Kph	5.2 litres / 54 mpg / 45 mpg US

Fuel Type

Unleaded Premium minimum octane
rating 95 (RON)

Top Speed

222 Kph / 138 Mph