

Phil Hawksley's BM Bikes

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BMW R1150R Rockster Specifications

Start of Production 2002

End of Production N/A

Numbers Produced N/A

Price (2003) UK £ 7,295

US \$ 10,790/12,990 with
ABS



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

85 hp (62.5 KW) at 6,750 rpm

Max Torque

98 Nm / 72 ft lb at 5,250 rpm

Compression Ratio

10.3 : 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

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

2.045 / 1.600 / 1.267 / 1.038 / 0.900 / 0.700

Rear Wheel Ratio

2.82

Drive

Shaft Drive

Electrical System

Ignition System

Electronic ignition, Bosch Motronic MA 2.4. Twin spark

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, rebound damping adjustable
Rear wheel suspension	Die cast aluminium single sided swinging arm with BMW Motorrad Paralever; central strut, 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	5.50 x 17
Tyres, Front	120 / 70-ZR 17
Tyres, Rear	180 / 55-ZR 17
Brakes, Front	EVO brake system with dual disc, floating brake discs, diameter 320 mm / 12.6 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	2170 x 920 x 1097 mm (85.43 x 36.22 x 43.18 in)
Seat Height	835 mm / 32.87 in (special equipment low seat bench: 795 mm / 31.29 in)
Wheel Base	1486 mm / 58.50 in
Castor (in Normal Position)	125 mm / 4.92 in
Steering Head Angle (in Normal Position)	63.1 degrees
Fuel Tank Useable Volume	20.5 litres / 4.50 gal / 5.41 gal US
Reserve	4.0 litres / 0.87 gal / 1.05 gal US
Unladen Weight with Full Tank	239 Kg / 526 lb
Dry Weight	219 Kg / 482 lb
Max. Permissible Weight	450 Kg / 991 lb
Payload (with Standard Equipment)	211 Kg / 464 lb
Fuel Consumption over 100 Km @ constant 90 Kph	4.6 litres / 61 mpg / 51 mpg US
Fuel Consumption over 100 Km @ constant 120 Kph	5.7 litres / 49 mpg / 41 mpg US
Fuel Type	Unleaded Premium minimum octane rating

Top Speed

95 (RON)
Approx. 197 Kph / 122 mph