

Phil Hawksley's BM Bikes

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BMW R1100R Specifications

Start of Production	1993
End of Production	2001
Numbers Produced	26,073
Price	16,500 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	80 hp (59 KW) at 6,750 rpm or 78 hp (58 Kw) at 6,500 rpm
Max Torque	97 Nm 71 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
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 : 3.00
Bevel/Crownwheel	11 / 33 teeth

Electrical System

Ignition System	Electronic ignition, Bosch Motronic MA 2.2
Alternator	12 V 700 W
Starter	1.1 Kw
Spark Plugs	Bosch FR5 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 x 5.31 in)
Wheel Rims, Front	3.50 x 17 or BMW cross spoke wheels 2.50 x 18
Wheel Rims, Rear	4.50 x 18 or BMW cross spoke wheels 4.00 x 17
Tyres, Front	120 / 70-ZR 17 or 110 / 80 ZR 18 (BMW cross spoke)
Tyres, Rear	160 / 60-ZR 18 or 150/70 ZR 17 (BMW cross spoke)
Brakes, Front	Dual disc brake 305 mm / 12 in diameter
Brakes, Rear	Single disc brake 276 mm / 10.86 in diameter

Dimensions/Weights

Length x Width x Height	2197 x 898 x 1060 mm (86.49 x 35.35 x 41.73 in)
Wheel Base	1487 mm / 58.54 in
Fuel Tank Capacity	21 litres / 4.61 gal / 5.54 gal US
Unladen Weight with Full Tank	235 Kg / 517 lb
Max. Permissible Weight	450 Kg / 991 lb
Ground Clearance	138 mm / 5.43 in
Seat Height (Unladen)	780 / 800 / 820 mm (30.71 / 31.496 / 32.28 inches)
Fuel Consumption (at constant 90 Kph)	4.6 litres 100 Km / 61 mpg / 51 mpg US
Top Speed	197 Kph / 122 mph
Acceleration 0 - 100 Kph / 62 mph	4.3 seconds