

Phil Hawksley's BM Bikes

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BMW R80R Specifications

Start of Production	1991
End of Production	1994
Numbers Produced	3,593
Price	13,250 DM



Engine

Motor Type	Four-stroke two cylinder horizontally opposed "Boxer" engine, air cooled
Bore x Stroke	84.8 x 70.6 mm (3.33 x 2.77 in)
Displacement	797.5 cc
Max Power	50 hp (37 KW) at 6,500 rpm, 34 hp (25 Kw) at 6,000 rpm or 27 hp (20Kw) at 5,500 rpm
Max Torque	61 Nm / 44 ft lb at 3,750 rpm, 50 Nm / 36 ft lb at 3,750 rpm or 45 Nm / 33 ft lb at 3,500 rpm
Compression Ratio	8.2 : 1
Valves Per Cylinder	2
Valve Control	OHV, using push rod and rocker arm
Carburation System	2 constant depression carburettors, Bing V
Engine Lubricating System	64/32/349 - 64/32/350 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	4.4 / 2.86 / 2.07 / 1.67 / 1.50
Rear Wheel Ratio	1 : 3.20
Bevel/Crownwheel	10 / 32 teeth

Electrical System

Ignition System	Contact free electronic ignition (Bosch)
Alternator	Bosch 240 W
Starter	Bosch 0.7 Kw
Spark Plugs	Bosch W 7 DC / Beru 14-7 DU

Chassis

Type of Frame	Double loop tubular frame with bolt on rear section
Front wheel suspension	Telescopic fork with hydraulic shock absorber
Rear wheel suspension	BMW Paralever swinging arm
Spring Travel Front/Rear	135 / 135 mm (5.31 x 5.31 in)
Wheel Rims, Front	2.50 x 18 MTH 2
Wheel Rims, Rear	2.50 x 17 MTH 2
Tyres, Front	110 / 80 V 18
Tyres, Rear	140/80 V 17
Brakes, Front	Single disc brake 285 mm / 11.22 i diameter. Brembo 4 piston caliper
Brakes, Rear	Simplex drum brake 200 mm / 7.87 in diameter

Dimensions/Weights

Length x Width x Height	2210 x 1000 x 1190 mm (87.00 x 39.37 x 46.85 in)
Wheel Base	1495 mm / 58.85 in
Fuel Tank Capacity	24 litres / 5.27 gal / 6.34 gal US
Unladen Weight with Full Tank	217 Kg / 477 lb
Max. Permissible Weight	420 Kg / 925 lb
Ground Clearance	200 mm / 7.87 in
Seat Height (Unladen)	800 mm (31.5 inches)
Fuel Consumption	4.7 litres or 4.5 litres/100Km (at constant 90 Kph) / 60 mpg / 50 mpg US
Top Speed	168 Kph / 104 mph, 148 Kph / 91 mph or 145 Kph / 90 mph
Acceleration 0 - 100 Kph / 62 mph	6.0, 8.6 or 9.5 seconds