

Phil Hawksley's BM Bikes

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BMW R100/7 Specifications

Start of Production	1976
End of Production	1980
Numbers Produced	12,056
Price	8,590 DM



Engine

Motor Type	Four-stroke two cylinder horizontally opposed "Boxer" engine, air cooled
Bore x Stroke	94 x 70.6 mm (3.70 x 2.78 in)
Displacement	980 cc
Max Power	60 hp (44.1 KW) at 6,500 rpm
Max Torque	73.5 Nm / 54 ft lb at 4,000 rpm
Compression Ratio	9.1 : 1
Valves Per Cylinder	2
Valve Control	OHV, using push rod and rocker arm
Carburation System	2 constant depression carburetors, Bing 64/32/19 - 64/32/20
Engine Lubricating System	Wet sump

Power Transmission

Clutch	Dry single plate, with 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 : 1 (Optional sport version: 3.38 / 2.43 / 1.93 / 1.67 / 1.50
Rear Wheel Ratio	1 : 3.09 or 1 : 3.2
Bevel/Crownwheel	11 / 34 teeth or 10 / 32 teeth

Electrical System

Ignition System	Battery ignition
Alternator	Bosch 12V/240 W
Starter	Bosch 0.6 hp
Spark Plugs	Bosch W 200 T 30 / Beru 200/14/3 A / Champion N7Y

Chassis

Type of Frame	Double loop tubular frame with bolt on rear
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Front wheel suspension	section Telescopic fork with hydraulic shock absorber
Rear wheel suspension	Long swinging arm with adjustable strut
Spring Travel Front/Rear	200 / 125 mm (7.87 / 4.92 in)
Wheel Rims, Front	1.85 B 19
Wheel Rims, Rear	2.15 B 18
Tyres, Front	3.25 H 19
Tyres, Rear	4.00 H 18
Brakes, Front	Dual disc brake 260 mm / 10.23 in diameter. ATE 1 piston caliper
Brakes, Rear	Simplex drum brake 200 mm / 7.87 in diameter

Dimensions/Weights

Length x Width x Height	2130 from 1978:2210) x 746 x 1080 mm (83.85 x 29.37 x 42.51 in)
Wheel Base	1465 mm / 57.67 in
Fuel Tank Capacity	24 litres / 5.27 gal / 6.34 gal US
Unladen Weight with Full Tank	215 Kg / 8.46 lb
Max. Permissible Weight	398 Kg / 15.66 lb
Ground Clearance	165 mm / 6.49 in
Seat Height (Unladen)	810 mm (31.9 inches)
Fuel Consumption (at constant 90 Kph)	5.5 litres 100 Km / 51 mpg / 42 mpg US
Top Speed	188 Kph / 116 mph
Acceleration 0 - 100 Kph / 62 mph	5.1 seconds