

# Phil Hawksley's BM Bikes

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## BMW R80 Monolever Specifications

<b>Start of Production</b>	<b>1984</b>
<b>End of Production</b>	<b>1995</b>
<b>Numbers Produced</b>	<b>13,815</b>
<b>Price</b>	<b>10,440 DM</b>



### 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
Max Torque	58 Nm / 42 ft lb at 4,000 rpm
Compression Ratio	8.2 : 1
Valves Per Cylinder	2
Valve Control	OHV, using push rod and rocker arm
Carburation System	2 constant depression carburetors, Bing V
Engine Lubricating System	64/32/353 - 64/32/354 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 : 1
Rear Wheel Ratio	1 : 3.20
Bevel/Crownwheel	10 / 32 teeth

### Electrical System

Ignition System	Contact free electronic ignition (Bosch)
Alternator	Bosch 280 W
Starter	Bosch 0.7 Kw
Spark Plugs	Bosch W 7 D / Beru14-7DU / Champion N9YC

### 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	BMW Monolever swinging arm
Spring Travel Front/Rear	175 / 121 mm (6.88 x 4.76 in)
Wheel Rims, Front	MTH 2.50 x 18 E
Wheel Rims, Rear	MTH 2.50 x 18 E
Tyres, Front	90/90 18 51 H
Tyres, Rear	120/90 18 65 H
Brakes, Front	Single disc brake 285 mm / 11.22 i diameter. Brembo 2 piston caliper
Brakes, Rear	Simplex drum brake 200 mm / 7.87 in diameter
<b>Dimensions/Weights</b>	
Length x Width x Height	2175 x 800 x 1106 mm (85.62 x 31.49 x 43.54 in)
Wheel Base	1447 mm / 56.96 in
Fuel Tank Capacity	22 litres / 4.83 gal / 5.81 gal US
Unladen Weight with Full Tank	210 Kg / 462 lb
Max. Permissible Weight	440 Kg / 969 lb
Ground Clearance	140 mm / 5.51 in
Seat Height (Unladen)	807 mm (31.8 inches)
Fuel Consumption	4.6 litres 100 Km (at constant 90 Kph) / 61 mpg / 51 mpg US
Top Speed	178 Kph / 110 mph
Acceleration 0 - 100 Kph / 62 mph	6 seconds