

# Phil Hawksley's BM Bikes

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## BMW R80RT Specifications

<b>Start of Production</b>	<b>1982</b>
<b>End of Production</b>	<b>1984</b>
<b>Numbers Produced</b>	<b>7,315</b>
<b>Price</b>	<b>10,990 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	59 Nm / 43 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 carburetors, Bing V
Engine Lubricating System	64/32/305 - 64/32/306 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 : 3.36
Bevel/Crownwheel	11 / 37 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 / Beru14-7D / Champion N10Y

## **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	Long swinging arm with adjustable strut
Spring Travel Front/Rear	200 / 125 mm (7.87 x 4.92 in)
Wheel Rims, Front	2.15 B 19
Wheel Rims, Rear	2.50 B 18
Tyres, Front	3.25 H 19
Tyres, Rear	4.00 H 18
Brakes, Front	Single disc brake 260 mm / 10.23 in diameter. Brembo 2 piston caliper
Brakes, Rear	Simplex drum brake 200 mm / 7.87 in diameter

## **Dimensions/Weights**

Length x Width x Height	2210 x 746 x 1465 mm (87.00 x 29.37 x 57.67 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	235 Kg / 517 lb
Max. Permissible Weight	440 Kg / 969 lb
Ground Clearance	130 mm / 5.11 in
Seat Height (Unladen)	820 mm (32.3 inches)
Fuel Consumption	5.5 litres 100 Km (at constant 90 Kph) / 51 mpg / 42 mpg US
Top Speed	161 Kph / 100 mph
Acceleration 0 - 100 Kph / 62 mph	7.1 seconds