

# Phil Hawksley's BM Bikes

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## BMW R75/7 Specifications

<b>Start of Production</b>	<b>1976</b>
<b>End of Production</b>	<b>1979</b>
<b>Numbers Produced</b>	<b>6,264</b>
<b>Price</b>	<b>7,985 DM</b>



### Engine

Motor Type	Four-stroke two cylinder horizontally opposed "Boxer" engine, air cooled
Bore x Stroke	82 x 70.6 mm (3.22 x 2.77 in)
Displacement	745 cc
Max Power	50 hp (36.8 KW) at 6,200 rpm
Max Torque	58.8 Nm / 43 ft lb at 5,000 rpm
Compression Ratio	9.0 : 1
Valves Per Cylinder	2
Valve Control	OHV, using push rod and rocker arm
Carburation System	2 constant depression carburetors, Bing 64/32/13 - 64/32/14
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 (optional sport version: 3.38 / 2.43 / 1.93 / 1.67 / 1.50
Rear Wheel Ratio	1: 3.20 or 1 : 3.36
Bevel/Crownwheel	10 / 32 or 11 / 37 teeth

### Electrical System

Ignition System	Battery ignition
Alternator	Bosch 12 V/180 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 x 4.92 in)
Wheel Rims, Front	1.85 B 19
Wheel Rims, Rear	2.15 B 18
Tyres, Front	3.25 S 19
Tyres, Rear	4.00 S 18
Brakes, Front	Single disc brake 260 mm / 10.23 in diameter. ATE 1 piston caliper
Brakes, Rear	Simplex drum brake 200 mm / 7.87 in diameter
<b>Dimensions/Weights</b>	
Length x Width x Height	2130 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 / 473 lb
Max. Permissible Weight	398 Kg / 876 lb
Ground Clearance	165 mm / 6.49 in
Seat Height (Unladen)	810 mm (31.9 inches)
Fuel Consumption	4.5 litres 100 Km (at constant 90 Kph) / 62 mpg / 52 mpg US
Top Speed	177 Kph / 62 mpg / 52 mpg US
Acceleration 0 - 100 Kph / 62 mph	6.7 seconds