

Phil Hawksley's BM Bikes

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BMW R90/6 Specifications

Start of Production	1973
End of Production	1976
Numbers Produced	21,097
Price	7,620 DM



Engine

Motor Type	Four-stroke two cylinder horizontally opposed "Boxer" engine, air cooled
Bore x Stroke	90 x 70.6 mm (3.54 x 2.77 in)
Displacement	898 cc
Max Power	60 hp (44.1 KW) at 6,500 rpm
Max Torque	73 Nm / 53 ft lb at 5,500 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 64/32/11 - 64/32/12
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
Rear Wheel Ratio	1 : 3.09 or 1 : 3.2
Bevel/Crownwheel	11 / 34 or 10 / 32 teeth

Electrical System

Ignition System	Battery ignition
Alternator	Bosch 12 V/280 W
Starter	Bosch 0.5 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 section
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Front wheel suspension	Telescopic fork with hydraulic shock absorber
Rear wheel suspension	Long swinging arm with adjustable strut
Spring Travel Front/Rear	208 / 125 mm (8.18 x 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	Single 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	2180 x 740 x 1080 mm (85.82 x 29.13 x 42.51 in)
Wheel Base	1465 mm / 57.67 in
Fuel Tank Capacity	18 litres / 3.95 gal / 4.75 gal US (optional 22 litre / 4.83 gal / 5.81 gal US tank at extra charge)
Unladen Weight with Full Tank	210 Kg / 462 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	5.5 litres 100 Km (at constant 90 Kph) / 51 mpg / 42 mpg US
Top Speed	188 Kph / 116 mph
Acceleration 0 - 100 Kph / 62 mph	5.2 seconds