

Phil Hawksley's BM Bikes

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BMW R65 Monolever Specifications

Start of Production	1985
End of Production	1993
Numbers Produced	8,260
Price	8,980 DM



Engine

Motor Type	Four-stroke two cylinder horizontally opposed "Boxer" engine, air cooled
Bore x Stroke	82 x 61.5 mm (3.22 x 2.42 in)
Displacement	649.6 cc
Max Power	48 hp (35 KW) at 7,250 rpm or 27 hp (20 Kw) at 5500 rpm
Max Torque	47.8 Nm / 35 ft lb at 3,500 rpm or 45.5 Nm / 33 ft lb at 3,500 rpm
Compression Ratio	8.7 : 1 or 8.4 : 1
Valves Per Cylinder	2
Valve Control	OHV, using push rod and rocker arm
Carburation System	2 constant depression carburetors, Bing 64/32/359 - 64/32/360 or 64/26/317 - 64/26/318
Engine Lubricating System	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 or 1 : 3.44
Bevel/Crownwheel	11 / 37 teeth or 9 / 31

Electrical System

Ignition System	Contact free electronic ignition (Bosch)
Alternator	Bosch 280 W
Starter	Bosch 0.7 Kw
Spark Plugs	Bosch W 7 DC / Beru 14-7 DU/ Champion N9YC

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	BMW Monolever swinging arm
Spring Travel Front/Rear	175 / 121 mm (6.88 / 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 or 90 / 90 18 51 S
Tyres, Rear	120 / 90 18 65 H or 120 / 90 18 65 S
Brakes, Front	Single disc brake 285 mm / 11.22 in diameter. Brembo 2 piston caliper
Brakes, Rear	Simplex drum brake 200 mm / 7.87 in diameter

Dimensions/Weights

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	205 Kg / 451 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 or 5.0 litres 100 Km (at constant 90 Kph) / 61 mpg / 51 mpg US or / 56 mpg / 47 mpg US
Top Speed	173 Kph / 107 mph or 155 Kph / 96 mph
Acceleration 0 - 100 Kph / 62 mph	6.8 seconds or 9.9 seconds