

Phil Hawksley's BM Bikes

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BMW R65LS Specifications

Start of Production	1981
End of Production	1985
Numbers Produced	6,389
Price	8,955 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	50 hp (37 Kw) at 7,250
Max Torque	52.3 Nm / 38 ft lb at 6,500 rpm
Compression Ratio	9.2 : 1
Valves Per Cylinder	2
Valve Control	OHV, using push rod and rocker arm
Carburation System	2 constant depression carburetors, Bing 64/32/307 - 64/32/308
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
Rear Wheel Ratio	1: 3.44
Bevel/Crownwheel	9 / 31 teeth

Electrical System

Ignition System	Contact free electronic ignition
Alternator	Bosch 280 W
Starter	Bosch 0.7 hp
Spark Plugs	Bosch W 5 D / Beru 14-5D / Champion N 6 Y

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	175 / 110 mm (6.88 / 4.33 in)
Wheel Rims, Front	1.85 B 18
Wheel Rims, Rear	2.50 B 18
Tyres, Front	3.25 S 18
Tyres, Rear	4.00 S 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	2110 x 688 x 1080 mm (83.07 x 27.08 x 42.51 in)
Wheel Base	1390 mm / 54.7 in to 1980. 1400 mm / 55.11 in 1981 on
Fuel Tank Capacity	22 litres / 4.83 gal / 5.81 gal US
Unladen Weight with Full Tank	207 Kg / 455 lb
Max. Permissible Weight	398 Kg / 876 lb
Ground Clearance	130 mm / 5.11 in
Seat Height (Unladen)	810 mm (31.9 inches)
Fuel Consumption	4.6 litres 100 Km (at constant 90 Kph) / 61 mpg / 51 mpg US
Top Speed	175 Kph / 108 mph
Acceleration 0 - 100 Kph / 62 mph	5.8 seconds