

Phil Hawksley's BM Bikes

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BMW K100 Specifications

Start of Production	1982
End of Production	1990
Numbers Produced	12,871
Price	12,490 DM



Engine

Motor Type	Four-stroke horizontal four cylinder in-line engine, liquid cooled
Bore x Stroke	67 x 70 mm (2.63 x 2.75 in)
Displacement	987 cc
Max Power	90 hp (66 KW) at 8,000 rpm
Max Torque	86 Nm / 63 ft lb at 6,000 rpm
Compression Ratio	10.2 : 1
Valves Per Cylinder	2
Valve Control	DOHC, using drive chain and cup tappets
Carburation System	Electronic injection, Bosch LE-Jetronic
Engine Lubricating System	Wet sump
Unleaded Fuel From Chassis Number (UK).	0 007 291

Power Transmission

Clutch	Dry single plate
Number of Gears	5
Gear Selection	Dog type gearbox (ratchet foot lever)
Gearbox Ratios	4.50 / 2.96 / 2.30 / 1.88 / 1.61 : 1
Rear Wheel Ratio	1 : 2.91 or 1 : 3.00 (K100/2 from 1987: 1 : 2.81)
Bevel/Crownwheel	11 / 32 or 11 / 33 teeth (K100/2 from 1987: 11 / 31)

Electrical System

Ignition System	Electronic ignition, Bosch LE-Jetronic
Alternator	12 V 460 W
Starter	0.7 Kw
Spark Plugs	Bosch XR 5 DC / Beru 12-5 DU / Champion A 85 YC

Chassis

Type of Frame	Tubular space frame, engine serving as load bearing component
Front wheel suspension	Telescopic fork with hydraulic shock absorber
Rear wheel suspension	BMW Monolever swinging arm
Spring Travel Front/Rear	185 / 110 mm (7.28 x 4.33 in)
Wheel Rims, Front	2.50 x 18 MT H 2
Wheel Rims, Rear	2.75 x 17 MT H 2
Tyres, Front	100/90 V 18
Tyres, Rear	130/90 V 17
Brakes, Front	Dual disc brake 285 mm / 11.22 in diameter. Brembo 2 piston caliper
Brakes, Rear	Single disc brake 285 mm / 11.22 in diameter

Dimensions/Weights

Length x Width x Height	2220 x 960 x 1155 mm (87.4 x 37.79 x 45.47 in)
Wheel Base	1516 mm / 59.68 in
Fuel Tank Capacity	22 litres / 4.84 UK gal / 5.81 US gal (K100/2 from 1987: 21 litres / 4.62 UK gal / 5.55 US gal)
Unladen Weight with Full Tank	239 Kg / 526 lb (K100/2 from 1987: 240 Kg / 529 lb)
Max. Permissible Weight	450 Kg / 991 lb (K100/2 from 1987: 480 Kg / 1057 lb)
Seat Height (Unladen)	810 mm (31.90 inches) or 760 mm (29.90 inches) for low seat model
Ground Clearance	175 mm / 6.89 in
Fuel Consumption (at constant 90 Kph)	5.0 litres 100 Km / 56 mpg / 47 mpg US
Top Speed	215 Kph / 133 mph
Acceleration 0 - 100 Kph / 62 mph	4.3 seconds