

Phil Hawksley's BM Bikes

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BMW K100RS 2 Valve Specifications

Start of Production 1983

End of Production 1989

Numbers Produced 34,804

Price 15,190 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)	0 081 107

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 : 2.81
Bevel/Crownwheel	11 / 31 teeth

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
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Front wheel suspension	load bearing component 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 or 100 / 90 VR 18
Tyres, Rear	130 / 90 V 17 or 130 / 90 VR 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 800 x 1271 mm (87.4 x 31.49 x 50 in)
Wheel Base	1516 mm / 59.68
Fuel Tank Capacity	22 litres / 4.84 UK gal / 5.81 US gal
Unladen Weight with Full Tank	249 Kg / 548 lb
Max. Permissible Weight	480 Kg / 1057 lb
Ground Clearance	175 mm / 6.89 in
Seat Height (Unladen)	810 mm (31.90 inches) or 760 mm (29.90 inches) for low seat model
Fuel Consumption (2.63 x 2.75 in)	4.3 litres 100 Km / 65 mpg / 54 mpg US
Top Speed	220 Kph / 136 mph
Acceleration 0 - 100 Kph / 62 mph	4.3 seconds