

Phil Hawksley's BM Bikes

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BMW K100RS 4 Valve Specifications

Start of Production 1989

End of Production 1992

Numbers Produced 12,666

Price 19,950 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	100 hp (74 KW) at 8,000 rpm
Max Torque	100 Nm / 74 ft lb at 6,750 rpm
Compression Ratio	11 : 1
Valves Per Cylinder	4
Valve Control	DOHC, using drive chain and cup tappets
Carburation System	Electronic injection, Bosch Motronic MA 2.1
Engine Lubricating System	Wet sump

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 Motronic MA 2.1
Alternator	12 V 460 W
Starter	0.7 Kw
Spark Plugs	Bosch XR 5 DC / Beru R-5 DU

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 Paralever swinging arm
Spring Travel Front/Rear	135 / 140 mm (5.31 x 5.51 in)
Wheel Rims, Front	3.50 x 17 MT H 2
Wheel Rims, Rear	4.50 x 18 MT H 2
Tyres, Front	120 / 70 ZR 17
Tyres, Rear	160 / 60 ZR 18
Brakes, Front	Dual disc brake 305 mm / 12 in diameter. Brembo 4 piston caliper
Brakes, Rear	Single disc brake 285 mm / 11.22 in diameter

Dimensions/Weights

Length x Width x Height	2230 x 875 x 1260 mm (87.79 x 34.44 x 49.6 in)
Wheel Base	1565 mm / 61.61 in
Fuel Tank Capacity	22 litres / 4.84 UK gal / 5.81 US gal
Unladen Weight with Full Tank	235 Kg / 518 lb
Max. Permissible Weight	480 Kg / 1057 lb
Ground Clearance	140 mm / 5.51 in
Seat Height (Unladen)	800 mm (31.5 inches)
Fuel Consumption (at constant 90 Kph)	4.7 litres 100 Km / 60 mpg / 50 mpg US
Top Speed	232 Kph / 144 mph
Acceleration 0 - 100 Kph / 62 mph	3.9 seconds