

# Phil Hawksley's BM Bikes

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## BMW R100CS Specifications

<b>Start of Production</b>	<b>1980</b>
<b>End of Production</b>	<b>1984</b>
<b>Numbers Produced</b>	<b>4,038</b>
<b>Price</b>	<b>11,260 DM</b>



### Engine

Motor Type	Four-stroke two cylinder horizontally opposed "Boxer" engine, air cooled
Bore x Stroke	94 x 70.6 mm (3.70 x 2.78 in)
Displacement	980 cc
Max Power	70 hp (51 KW) at 7,250 rpm
Max Torque	76 Nm / 56 ft lb at 6,000 rpm
Compression Ratio	9.5 : 1
Valves Per Cylinder	2
Valve Control	OHV, using push rod and rocker arm
Carburation System	2 constant depression carburetors, Bing 94/40/111 - 94/40/112
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 : 1 (Optional sport version: 3.38 / 2.43 / 1.93 / 1.67 / 1.50
Rear Wheel Ratio	1 : 2.91 or 1 : 3.00
Bevel/Crownwheel	11 / 32 teeth

### Electrical System

Ignition System	Contact free electronic ignition (Bosch)
Alternator	Bosch 280 W
Starter	Bosch 0.7 Kw
Spark Plugs	Bosch W 5 D / Beru 14-5D / Champion N6Y

### Chassis

Type of Frame	Double loop tubular frame with bolt on rear
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Front wheel suspension	section Telescopic fork with hydraulic shock absorber
Rear wheel suspension	Long swinging arm with adjustable strut
Spring Travel Front/Rear	200 / 125 mm (7.87 x 4.92 in)
Wheel Rims, Front	1.85 B 19
Wheel Rims, Rear	2.15 B 18
Tyres, Front	3.25 H 19
Tyres, Rear	4.00 H 18
Brakes, Front	Dual disc brake 260 mm / 10.23 in diameter. ATE 2 piston caliper
Brakes, Rear	Simplex drum brake 200 mm / 7.87 in diameter

### **Dimensions/Weights**

Length x Width x Height	2110 x 746 x 1210 mm (83.07 x 29.37 x 47.63 in)
Wheel Base	1465 mm / 57.67 in
Fuel Tank Capacity	24 litres / 5.27 gal / 6.34 gal US
Unladen Weight with Full Tank	220 Kg / 484 lb
Max. Permissible Weight	398 Kg / 876 lb
Ground Clearance	165 mm / 6.49 in
Seat Height (Unladen)	820 mm (32.3 inches)
Fuel Consumption (at constant 90 Kph)	5.75 litres 100 Km / 49 mpg / 40 mpg US
Top Speed	200 Kph / 124 mph
Acceleration 0 - 100 Kph / 62 mph	4.4 seconds