

Phil Hawksley's BM Bikes

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BMW R850C Specifications

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|----------------------------|------------------|
| Start of Production | 1990 |
| End of Production | 2000 |
| Numbers Produced | 1,505 |
| Price | 23,400 DM |



Engine

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|---------------------------|--|
| Motor Type | Four-stroke, two cylinder, horizontally opposed "Boxer" engine, air cooled |
| Bore x Stroke | 87.8 x 70.5 (3.45 x 2.77 in) |
| Displacement | 848 cc |
| Max Power | 50 hp (37 KW) at 5,250 rpm |
| Max Torque | 71 Nm / 52 ft lb at 4,750 rpm |
| Compression Ratio | 10.3 : 1 |
| Valves Per Cylinder | 4 |
| Valve Control | hc, using chain drive, cup tappets, push rod and rocker arm |
| Carburation System | Electronic injection, Bosch Motronic MA 2.4 |
| Engine Lubricating System | Wet sump |

Power Transmission

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|------------------|--|
| Clutch | Dry single plate, with lever action diaphragm spring |
| Number of Gears | 5 |
| Gear Selection | Dog type gearbox (ratchet foot lever) |
| Gearbox Ratios | 2.05 / 1.60 / 1.27 / 1.04 / 0.80 : 1 |
| Rear Wheel Ratio | 1 : 2.75 |
| Bevel/Crownwheel | 12 / 33 teeth |

Electrical System

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|-----------------|--|
| Ignition System | Electronic ignition, Bosch Motronic MA 2.4 |
| Alternator | 12 V 700 W |
| Starter | 1.1 Kw |
| Spark Plugs | Bosch FR6 DDC |

Chassis

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|--------------------------|--|
| Type of Frame | 3 part tubular space frame, engine serving as load bearing component |
| Front wheel suspension | BMW Telelever fork with longitudinal control arm and central strut |
| Rear wheel suspension | BMW Monolever swinging arm |
| Spring Travel Front/Rear | 144 / 100 mm (5.66 x 3.93 in) |
| Wheel Rims, Front | BMW cross spoke wheels 2.50 x 18 MT H2 |
| Wheel Rims, Rear | BMW cross spoke wheels 4.00 x 15 MT H2 |
| Tyres, Front | 100 / 90 18 56 H |
| Tyres, Rear | 170 / 80 B 15 83 H |
| Brakes, Front | Dual disc brake 305 mm / 12.00 in diameter |
| Brakes, Rear | Single disc brake 285 mm / 11.22 in diameter |

Dimensions/Weights

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|-----------------------------------|---|
| Length x Width x Height | 2340 x 1050 x 1130 mm (92.12 x 41.33 x 44.48 in) |
| Wheel Base | 1650 mm / 64.96 in |
| Fuel Tank Capacity | 17 litres / 3.73 gal / 4.49 gal US |
| Unladen Weight with Full Tank | 193 Kg / 425 lb |
| Max. Permissible Weight | 450 Kg / 991 lb |
| Ground Clearance | 172 mm / 6.77 in |
| Seat Height (Unladen) | 740 mm (29.1 inches) |
| Fuel Consumption | 4.6 litres 100 Km (at constant 90 Kph) / 61 mpg / 51 mpg US |
| Top Speed | 155 Kph / 96 mph |
| Acceleration 0 - 100 Kph / 62 mph | 6.9 seconds |