

Phil Hawksley's BM Bikes

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BMW R80RT Monolever Specifications

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|----------------------------|------------------|
| Start of Production | 1984 |
| End of Production | 1995 |
| Numbers Produced | 22,069 |
| Price | 12,690 DM |



Engine

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|---------------------------|--|
| Motor Type | Four-stroke two cylinder horizontally opposed "Boxer" engine, air cooled |
| Bore x Stroke | 84.8 x 70.6 mm (3.33 x 2.77 in) |
| Displacement | 797.5 cc |
| Max Power | 50 hp (37 KW) at 6,500 rpm |
| Max Torque | 58 Nm / 42 ft lb at 4,000 rpm |
| Compression Ratio | 8.2 : 1 |
| Valves Per Cylinder | 2 |
| Valve Control | OHV, using push rod and rocker arm |
| Carburation System | 2 constant depression carburetors, Bing V |
| Engine Lubricating System | 64/32/353 - 64/32/354 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 | 4.4 / 2.86 / 2.07 / 1.67 / 1.50 |
| Rear Wheel Ratio | 1 : 3.36 |
| Bevel/Crownwheel | 11 / 37 teeth |

Electrical System

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|-----------------|--|
| Ignition System | Contact free electronic ignition (Bosch) |
| Alternator | Bosch 280 W |
| Starter | Bosch 0.7 Kw |
| Spark Plugs | Bosch W 7 DC / Beru 14-7 DU/ Champion N9YC |

Chassis

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|---------------|---|
| 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 | BMW Monolever swinging arm |
| Spring Travel Front/Rear | 175 / 121 mm (6.88 x 4.76 in) |
| Wheel Rims, Front | MTH 2.50 x 18 E |
| Wheel Rims, Rear | MTH 2.50 x 18 E |
| Tyres, Front | 90/90 18 51 H |
| Tyres, Rear | 120/90 18 65 H |
| Brakes, Front | Single disc brake 285 mm / 11.22 inch diameter. Brembo 2 piston caliper |
| Brakes, Rear | Simplex drum brake 200 mm / 7.87 in diameter |
| Dimensions/Weights | |
| Length x Width x Height | 2175 x 960 x 1478 mm (85.62 x 37.79 x 58.18 in) |
| Wheel Base | 1447 mm / 56.96 in |
| Fuel Tank Capacity | 22 litres / 4.83 gal / 5.81 gal US |
| Unladen Weight with Full Tank | 227 Kg / 500 lb |
| Max. Permissible Weight | 440 Kg / 969 lb |
| Ground Clearance | 140 mm / 5.51 in |
| Seat Height (Unladen) | 807 mm (31.8 inches) |
| Fuel Consumption | 4.8 litres 100 Km (at constant 90 Kph) / 58 mpg / 48 mpg |
| Top Speed | 170 Kph / 105 mph |
| Acceleration 0 - 100 Kph / 62 mph | 6.4 seconds |