

# Phil Hawksley's BM Bikes

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## BMW R100T Specifications

|                            |                 |
|----------------------------|-----------------|
| <b>Start of Production</b> | <b>1978</b>     |
| <b>End of Production</b>   | <b>1980</b>     |
| <b>Numbers Produced</b>    | <b>5,463</b>    |
| <b>Price</b>               | <b>9,290 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                 | 65 hp (47 KW) at 6,600 rpm   |
| Max Torque                | 77 Nm / 56 ft lb at 5,500 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                                  |
| Engine Lubricating System | 94/40/103 - 94/40/104<br>Wet sump  |

### Power Transmission

|                  |   |
|------------------|---|
| 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 : 1 (Optional sport version: 3.38 / 2.43 / 1.93 / 1.67 / 1.50 |
| Rear Wheel Ratio | 1: 3.0 or 1 : 2.91  |
| Bevel/Crownwheel | 11 / 33 teeth or 11 / 32 teeth  |

### Electrical System

|                 |   |
|-----------------|---|
| Ignition System | Battery ignition                                  |
| Alternator      | Bosch 240 W                                       |
| Starter         | Bosch 0.7 Kw                                      |
| Spark Plugs     | Bosch W 225 T 30 / Beru 230/14/3 A / Champion N6Y |

### Chassis

|                          |  |
|--------------------------|--|
| Type of Frame            | Double loop tubular frame with bolt on rear section              |
| Front wheel suspension   | 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 1 piston caliper |
| Brakes, Rear             | Simplex drum brake 200 mm / 7.87 in diameter                     |

### **Dimensions/Weights**

|                                       |  |
|---------------------------------------|--|
| Length x Width x Height               | 2210 x 746 x 1080 mm (87 x 29.37 x 42.51 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         | 215 Kg / 473 lb                              |
| Max. Permissible Weight               | 398 Kg / 876 lb                              |
| Ground Clearance                      | 165 mm / 6.49 in                             |
| Seat Height (Unladen)                 | 810 mm (31.9 inches)                         |
| Fuel Consumption (at constant 90 Kph) | 5.75 litres 100 Km / 49 mpg / 40 mpg US      |
| Top Speed                             | 195 Kph / 121 mph                            |
| Acceleration 0 - 100 Kph / 62 mph     | 4.7 seconds                                  |