

Phil Hawksley's BM Bikes

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BMW R25 Specifications

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|----------------------------|-----------------|
| Start of Production | 1950 |
| End of Production | 1951 |
| Numbers Produced | 23,400 |
| Price | 1,750 DM |



Engine

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|---------------------------|--------------------------------------|
| Internal Designation | 224/2 |
| Motor Type | Four-stroke single cylinder vertical |
| Bore x Stroke | 68 x 68 mm (2.67 x 2.67 in) |
| Displacement | 247 cc |
| Max Power | 12 hp at 5,600 rpm |
| Compression Ratio | 6.5 : 1 |
| Valves | OHV |
| Carburation System | 1 x Bing type 1/22/28 |
| Engine Lubricating System | Forced feed lubrication |
| Oil Pump | Gear pump |

Power Transmission

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|------------------|---|
| Clutch | Single plate, dry |
| Number of Gears | 4 |
| Shifting | Foot switching (+ auxiliary manual switch on gearing block) |
| Gearbox Ratios | 6.1 / 3.0 / 2.04 / 1.54 |
| Rear Wheel Ratio | 4.5 : 1 (with sidecar 5.14 : 1) |
| Bevel/Crownwheel | 6 / 27 teeth (with sidecar 7 / 36) |

Electrical System

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|-----------------|------------------------------------|
| Ignition System | Battery ignition |
| Generator | Bosch 6V/45-60W |
| Spark Plugs | Bosch W 240 T1 or Bosch W 240 T1 A |

Chassis

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|------------------------|--------------------------------------|
| Designation | 225/1 |
| Frame | Closed steel twin loop frame, bolted |
| Front wheel suspension | Telescopic fork |
| Rear wheel suspension | Pushrod suspension |
| Wheel rims | 3 x 19 deep bed |
| Tyres, Front | 3.25 x 19 |

| | |
|---------------|--------------------------------------|
| Tyres, Rear | 3.25 x 19 |
| Brakes, Front | Drum brake 160 mm / 6.29 in diameter |
| Brakes, Rear | Drum brake 160 mm / 6.29 in diameter |

Dimensions/Weights

| | |
|-------------------------------|---|
| Length x Width x Height | 2073 x 750 x 710 mm (81.61 x 29.52 x 27.95 in) |
| Fuel Tank Capacity | 12 litres / 2.63 gal / 3.17 gal US |
| Unladen Weight with Full Tank | 140 Kg / 308 lb |
| Permitted Weight Limit | 290 Kg / 290 lb (with sidecar 365 Kg / 803 lb) |
| Clearance | 108 mm / 4.25 in |
| Fuel Consumption | Approx. 3.5 litres per 100 Km / 80 mpg / 67 mpg US |
| Oil Consumption | Approx. 1 litres per 1,000 Km |
| Top Speed | 95 Kph / 59 mph (with original sidecar 80 Kph / 49 mph) |