

Phil Hawksley's BM Bikes

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BMW R61 Specifications

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|----------------------------|-----------------|
| Start of Production | 1938 |
| End of Production | 1941 |
| Numbers Produced | 3,747 |
| Price | 1,420 RM |



Engine

| | |
|---------------------------|-------------------------------------|
| Internal Designation | 261/1 |
| Motor Type | Four-stroke two cylinder flat twin |
| Bore x Stroke | 70 x 78 mm (2.75 x 3.07 in) |
| Displacement | 600 cc |
| Max Power | 18 hp at 4,800 rpm |
| Compression Ratio | 5.7 : 1 |
| Valves | SV |
| Carburation System | 2 x carburettor type Amal M75/426 S |
| 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 lever), manual gear lever on request |
| Gearbox Ratios | 3.6 / 2.28 / 1.7 / 1.3 |
| Rear Wheel Ratio | 1 : 3.89 (1 : 4.62 with sidecar) |
| Bevel/Crownwheel | 9 / 35 teeth (8 / 37 with sidecar) |

Electrical System

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|-----------------|--------------------------|
| Ignition System | Battery ignition |
| Generator | Bosch RD 50/6 2800 RS 17 |
| Spark Plugs | Bosch W 175 T1 |

Chassis

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|------------------------|-------------------------------|
| Designation | 251/1 |
| Frame | Twin loop steel tubular frame |
| Front wheel suspension | Telescopic fork |
| Rear wheel suspension | Telescopic suspension |
| Wheel rims | 3 x 19 deep bed |
| Tyres, Front | 3.5 x 19 |

| | |
|---------------|--------------------------------------|
| Tyres, Rear | 3.5 x 19 |
| Brakes, Front | Drum brake 200 mm / 7.87 in diameter |
| Brakes, Rear | Drum brake 200 mm / 7.87 in diameter |

Dimensions/Weights

| | |
|-------------------------------|--|
| Length x Width x Height | 2130 x 815 x 960 mm (83.85 x 32.08 x 37.79 in) |
| Wheel Base | 1400 mm / 55.11 in |
| Fuel Tank Capacity | 14 litres / 3.07 gal / 3.69 gal US |
| Unladen Weight with Full Tank | 184 Kg / 405 lb |
| Load Rating | 210 Kg / 462 lb (max. overall weight with sidecar 500Kg / 1101 lb) |
| Fuel Consumption | Approx. 3.5 litres per 100 Km / 80 mpg / 67 mpg US |
| Oil Consumption | Approx. 1 litre per 1,000 Km |
| Top Speed | 115 Kph / 71 mph (with original sidecar, 100 Kph / 62 mph) |