

Phil Hawksley's BM Bikes

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BMW R3 Specification

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|----------------------------|---------------|
| Start of Production | 1936 |
| End of Production | 1936 |
| Number Produced: | 740 |
| Price: | 995 RM |



Engine

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|---------------------------|--|
| Internal Designation | 203/1 |
| Motor Type | Four Stroke single cylinder vertical |
| Bore x Stroke | 68 x 84 mm (2.67 x 3.30 in) |
| Displacement | 305 cc |
| Maximum Power | 11hp at 4,200 rpm |
| Compression Ratio | 6.0 : 1 |
| Valves | OHV |
| Carburation System | 1 x register carburettor SUM type CK 3/500 |
| Engine Lubricating System | Forced Feed Lubrication |
| Oil Pump | Gear Pump |

Power Transmission

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|--------------------|------------------------------------|
| Clutch | Single plate dry clutch |
| Number of Gears | 4 |
| Gear Shift | Manual |
| Gearbox Ratios | 3.6 / 2.18 / 1.35 / 1 |
| Rear Wheel Ratio | 1 : 5.11 (1 : 5.63 with sidecar) |
| Bevel / Crownwheel | 9 / 46 teeth (8 / 45 with sidecar) |

Electrical System

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|-----------------|------------------|
| Ignition System | Battery ignition |
| Generator | Bosch 6V/45/70 W |
| Spark Plugs | Bosch W 175/T1 |

Chassis

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|------------------|---|
| Designation | 203/1 |
| Frame | Pressed steel twin loop frame |
| Front Suspension | Cantilever spring, 9 laminae with friction shock absorber |
| Rear Suspension | Rigid |
| Wheel Rims | 2.5 x 19 |

| | |
|--------------|------------------|
| Front Tyre | 26 x 3.5 balloon |
| Rear Tyre | 26 x 3.5 balloon |
| Front Brakes | Drum brake |
| Rear Brake | Drum brake |

Dimensions/Weights

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|-------------------------------|---|
| Length x Width x Height | 1980 x 850 x 950 mm (77.95 x 33.46 x 37.40 in) |
| Wheel Base | 1320 mm / 51.96 in |
| Fuel Tank Capacity | 12 litres / 2.63 gal / 3.17 gal US |
| Unladen Weight with full tank | 149 kg / 328 lb |
| Permitted Weight Limit | 200 kg / 440 lb |
| Fuel Consumption | 3 litres per 100 kilometres approx / 94 mpg / 78 mpg US |
| Oil Consumption | 1 - 2 litres per 1,000 kilometres |
| Top Speed | 100 kph / 62 mph |