

Phil Hawksley's BM Bikes

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BMW R66 Specifications

Start of Production	1938
End of Production	1941
Numbers Produced	1,669
Price	1,695 RM



Engine

Internal Designation	266/1
Motor Type	Four-stroke two cylinder flat twin
Bore x Stroke	69.8 x 78 mm (2.75 x 3.07 in)
Displacement	597 cc
Max Power	30 hp at 5,300 rpm
Compression Ratio	6.8 : 1
Valves	OHV
Carburation System	2 x carburettor type Amal 6/420 S
Engine Lubricating System	Forced feed lubrication
Oil Pump	Gear pump

Power Transmission

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 : 3.6 (1 : 4.38 with sidecar)
Bevel/Crownwheel	10 / 36 teeth (8 / 35 with sidecar)

Electrical System

Ignition System	Battery ignition
Generator	Bosch RD 50/6 2800 R 17
Spark Plugs	Bosch W 225 T1

Chassis

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	187 Kg
Load Rating	210 Kg / 462 lb (max. overall weight with sidecar 500Kg / 1101 lb)
Fuel Consumption	Approx. 4.5 litres per 100 Km
Oil Consumption	Approx. 1 litre per 1,000 Km
Top Speed	145 Kph (with original sidecar, 115 Kph)