

Phil Hawksley's BM Bikes

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BMW R50 Specifications

Start of Production	1955
End of Production	1960
Numbers Produced	13,510
Price	3,050 DM



Engine

Internal Designation	252/2
Motor Type	Four-stroke two cylinder flat twin
Bore x Stroke	68 x 68 mm (2.67 x 2.67 in)
Displacement	494 cc
Max Power	26 hp at 5,800 rpm
Compression Ratio	6.8 : 1
Valves	OHV
Carburation System	2 x carburettor, Bing 1/24/45 - 1/24/46
Engine Lubricating System	Forced feed lubrication
Oil Pump	Gear pump

Power Transmission

Clutch	Single plate saucer spring, dry
Number of Gears	4
Shifting	Foot shifting
Gearbox Ratios	5.33 / 3.02 / 2.04 / 1.54
Rear Wheel Ratio	1 : 3.18 (1 : 4.25 or 1 : 4.33 with sidecar)
Bevel/Crownwheel	11 / 35 teeth (8 / 34 or 6 / 26 with sidecar)

Electrical System

Ignition System	Magneto ignition
Generator	Noris L 60/6/1500 L
Spark Plugs	Bosch W 240 T1

Chassis

Designation	R245/1
Frame	Double loop steel tubular frame
Front wheel suspension	Long swing arm with suspension units and oil pressure shock absorbers

Rear wheel suspension	Long swing arm with suspension units and oil pressure shock absorbers
Wheel rims	Deep bed 3 x 18
Tyres, Front	3.5 x 18
Tyres, Rear	3.5 x 18 with sidecar, 4 x 18)
Brakes, Front	Drum brake 200 mm / 7.87 in diameter duplex full hub
Brakes, Rear	Drum brake 200 mm / 7.87 in diameter simplex full hub

Dimensions/Weights

Length x Width x Height	2125 x 660 x 980 mm (83.66 x 25.9838.58 in)
Wheel Base	980 mm / 38.58 in
Fuel Tank Capacity	17 litres / 3.73 gal / 4.49 gal US
Unladen Weight with Full Tank	195 Kg / 429 lb (320 Kg / 704 lb with original sidecar)
Idle/Riding Noise	81/82 DIN phon (from Dec 1955: 82/76 phon)
Load Rating	360 Kg / 792 lb (with original sidecar, 600 Kg / 1321 lb)
Fuel Consumption	Approx. 4.1 litres per 100Km / 68 mpg / 57 mpg US
Oil Consumption	Approx. 0.5 - 1 litre per 1,000 Km
Top Speed	140 Kph / 87 mph (with original sidecar, 100 Kph / 62 mpg US)