

Phil Hawksley's BM Bikes

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BMW R50S Specifications

Start of Production	1960
End of Production	1962
Numbers Produced	1,634
Price	3,535 DM



Engine

Internal Designation	252/3
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	35 hp at 7,650 rpm
Compression Ratio	9.5 : 1
Valves	OHV
Carburation System	2 x carburettor, Bing 1/26/71 - 1/26/72
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	4.17 / 2.73 / 1.94 / 1.54
Rear Wheel Ratio	1 : 3.58 (1 : 4.33 with sidecar)
Bevel/Crownwheel	7 / 25 teeth (6 / 26 with sidecar)

Electrical System

Ignition System	Magneto ignition
Generator	Bosch LJ/CGE 60/61700 R
Spark Plugs	Bosch W 260 T1 or Beru 260/14

Chassis

Designation	R245/2
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 2.15B x 18 (with sidecar, rear)

Tyres, Front	2.75C x 18)
Tyres, Rear	3.5 x 18 S
Brakes, Front	4 x 18 S
Brakes, Rear	Drum brake 200 mm / 7.87 in diameter duplex full hub
	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	1415 mm 55.66 in (with original sidecar 1450 mm / 57.08 in)
Fuel Tank Capacity	17 litres / 3.73 gal / 4.49 gal US
Unladen Weight with Full Tank	198 Kg / 436 lb (320 Kg / 704 lb with original sidecar)
Idle/Riding Noise	84/82 DIN phon
Load Rating	360 Kg / 792 lb (with original sidecar, 600 Kg / 1321 lb)
Fuel Consumption	Approx. 5.2 litres per 100 Km / 54 mpg / 45 mpg US
Oil Consumption	Approx. 0.5 - 1 litre per 1,000 Km
Top Speed	160 Kph / 99 mph