

Phil Hawksley's BM Bikes

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BMW R51/2 Specifications

Start of Production	1950
End of Production	1951
Numbers Produced	5,000
Price	2,750 DM



Engine

Internal Designation	254/3
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	24 hp at 5,800 rpm
Compression Ratio	6.4 : 1
Valves	OHV
Carburation System	2 x carburettor type Bing 1/22/39 - 1/22/40
Engine Lubricating System	Forced feed lubrication
Oil Pump	Gear pump

Power Transmission

Clutch	Single plate, dry
Number of Gears	4
Shifting	Foot shifting (+ auxiliary manual lever on the gear block)
Gearbox Ratios	3.6 / 2.28 / 1.7 / 1.3
Rear Wheel Ratio	1 : 3.89 (1 : 4.57 with sidecar)
Bevel/Crownwheel	9 / 35 teeth (7 / 32 with sidecar)

Electrical System

Ignition System	Battery ignition
Generator	Bosch 6 V/75 W
Spark Plugs	Bosch W 240 T1

Chassis

Designation	251/2
Frame	Closed double steel tubular frame
Front wheel suspension	Telescopic fork
Rear wheel suspension	Telescopic suspension

Wheel rims	Deep bed rims
Tyres, Front	3.5 x 19
Tyres, Rear	3.5 x 19
Brakes, Front	Drum brake 200 mm / 7.87 in diameter half hub
Brakes, Rear	Drum brake 200 mm / 7.87 in diameter half hub

Dimensions/Weights

Length x Width x Height	2130 x 815 x 720 mm (saddle) (83.85 x 32.08 x 28.34 in)
Fuel Tank Capacity	14 litres / 3.07 gal / 3.69 gal US
Unladen Weight with Full Tank	185 Kg / 407 lb
Clearance	120 mm / 4.72 in
Load Rating	400 Kg / 881 lb
Fuel Consumption	4 litres 100 Km approx. / 70 mpg / 58 mpg US
Oil Consumption	1 litre per 1,000 Km approx.
Top Speed	135 Kph / 83 mph