

Phil Hawksley's BM Bikes

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BMW R23 Specifications

Start of Production	1938
End of Production	1940
Numbers Produced	8,021
Price	750 RM



Engine

Internal Designation	223/1
Motor Type	Four-stroke single cylinder vertical
Bore x Stroke	68 x 68 mm (2.67 x 2.67 in)
Displacement	247 cc
Max Power	10 hp at 5,400 rpm
Compression Ratio	6.0 : 1
Valves	OHV
Carburation System	1 x Amal push in carburettor M 74/435 S
Engine Lubricating System	Forced feed lubrication
Oil Pump	Gear pump

Power Transmission

Clutch	Single plate, dry
Number of Gears	3
Shifting	Foot switching
Gearbox Ratios	4.55 / 2.58 / 1.64
Rear Wheel Ratio	1 : 4.18
Bevel/Crownwheel	11 / 46 teeth

Electrical System

Ignition System	Battery ignition
Generator	Bosch 6V/75W
Spark Plugs	Bosch 175 T1 or Beru K175 b

Chassis

Designation	220/1
Frame	Twin loop frame, bolted
Front wheel suspension	Telescopic fork
Rear wheel suspension	Rigid
Wheel rims	2.5 x 19 deep bed
Tyres, Front	3 x 19

Tyres, Rear	3 x 19
Brakes, Front	Drum brake 160 mm / 6.29 in diameter
Brakes, Rear	Drum brake 180 mm / 7.08 in diameter

Dimensions/Weights

Length x Width x Height	2000 x 800 x 920 mm (78.74 x 31.49 x 36.22 in)
Wheel Base	1330 mm / 52.36 in
Fuel Tank Capacity	9.6 litres / 2.11 gal / 2.53 gal US
Unladen Weight with Full Tank	135 Kg / 297 lb
Load Rating	200 Kg / 440 lb
Fuel Consumption	Approx. 2.75 litres per 100 Km / 102 mpg / 85 mpg US
Oil Consumption	Approx. 1 - 2 litres per 1,000 Km
Top Speed	95 Kph / 59 mph