

Phil Hawksley's BM Bikes

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BMW R52 Specifications

Start of Production	1928
End of Production	1929
Numbers Produced	4,377
Price	1,510 RM



Engine

Internal Designation	M 57
Motor Type	Four-stroke two cylinder flat twin
Bore x Stroke	63 x 78 mm (2.48 x 3.07 in)
Displacement	486 cc
Max Power	12 hp at 3,400 rpm
Compression Ratio	5.0 : 1
Valves	SV
Carburation System	1 carburettor, Type BMW Spezial 2 valve 22 mm
Engine Lubricating System	Forced feed lubrication
Oil Pump	Gear pump

Power Transmission

Clutch	Single plate, dry - two plates from engine No. 50761
Number of Gears	3
Shifting	Manual
Gearbox Ratios	2.83 / 1.55 / 1.08
Rear Wheel Ratio	1 : 4.38 or 1 : 4.75 (1 : 5.7 with sidecar)
Bevel/Crownwheel	13 / 57 teeth or 12 / 57 (10 / 57 with sidecar)

Electrical System

Ignition System	Bosch high voltage magneto ignition
Generator	Bosch magneto generator on request
Spark Plugs	Bosch W 175

Chassis

Designation	F56
Frame	Twin loop steel tubular frame
Front wheel suspension	Plate spring, 6 laminae
Rear wheel suspension	Rigid

Wheel rims	Deep bed 19x 3
Tyres, Front	26 x 3.5 low pressure or 26 x 3.5 high pressure
Tyres, Rear	26 x 3.5 low pressure or 26 x 3.5 high pressure
Brakes, Front	Drum brake 200 mm / 7.87 in diameter
Brakes, Rear	External shoe brake at the gearing on Cardan shaft

Dimensions/Weights

Length x Width x Height	2100 x 800 x 950 mm (82.67 x 31.49 x 37.40 in)
Wheel Base	1400 mm / 55.11 in
Fuel Tank Capacity	12.5 litres / 2.74 gal / 3.30 gal US
Unladen Weight with Full Tank	152 Kg / 334 lb
Load Rating	210 Kg / 462 lb
Fuel Consumption	3.5 litres 100 Km approx / 80 mpg / 67 mpg US
Oil Consumption	1 - 2 litres per 1,000 Km approx.
Top Speed	100 Kph / 62 mph