

Phil Hawksley's BM Bikes

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BMW R47 Specifications

Start of Production	1927
End of Production	1928
Numbers Produced	1,720
Price	1,850 RM



Engine

Internal Designation	M 51
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	18 hp at 4,000 rpm
Compression Ratio	5.8 : 1
Valves	OHV
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
Number of Gears	3
Shifting	Manual
Gearbox Ratios	2.50 / 1.50 / 1.07
Rear Wheel Ratio	1 : 4.38 (1 : 5.7 with sidecar)
Bevel/Crownwheel	13 / 57 teeth (10 / 57 with sidecar)

Electrical System

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

Chassis

Designation	R47
Frame	Twin loop steel tubular frame
Front wheel suspension	Plate spring, 5 laminae
Rear wheel suspension	Rigid
Wheel rims	CC 1
Tyres, Front	27 x 3.5 low pressure or 26 x 3 high

Tyres, Rear	pressure 27 x 3.5 low pressure or 26 x 3 high pressure
Brakes, Front	Drum brake 150 mm / 5.90 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	1410 mm / 55.51 in
Fuel Tank Capacity	14 litres / 3.07 gal / 3.69 gal US
Unladen Weight with Full Tank	130 Kg / 286 lb (192 Kg / 422 lb with original sidecar)
Top Speed	110 Kph / 68 mph