

Phil Hawksley's BM Bikes

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BMW R32 Specifications

Start of Production	1923
End of Production	1926
Numbers Produced	3,090
Price	2,200 RM



Engine

Internal Designation	M 2 B 33
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	8.5 hp at 3,200 rpm
Compression Ratio	5.0 : 1
Valves	SV
Carburation System	1 carburettor, Type BMW Spezial 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	2.27 / 1.50 / 1.08
Rear Wheel Ratio	1 : 4.41 (1 : 5.36 with sidecar)
Bevel/Crownwheel	17 / 75 teeth (14 / 75 with sidecar)

Electrical System

Ignition System	Bosch magneto ignition
Generator	Magneto generator on request
Spark Plugs	Bosch W 145

Chassis

Designation	R32
Frame	Twin loop tubular frame
Front wheel suspension	Twin cantilever spring
Rear wheel suspension	Rigid
Wheel rims	26 x 2.5

Tyres, Front	26 x 3
Tyres, Rear	26 x 3
Brakes, Front	Drum brake 150 mm / 5.9 in diameter (not for 1st Series)
Brakes, Rear	Block brake

Dimensions/Weights

Length x Width x Height	2100 x 800 x 950 mm (82.67 x 31.49 x 37.40 in)
Wheel Base	1380 mm / 54.33 in
Fuel Tank Capacity	14 litres / 3.07 gal / 3.69 gal US
Unladen Weight with Full Tank	122 Kg / 268 lb (184 Kg / 405 lb with original sidecar)
Fuel Consumption	3 litres 100 Km approx / 94 mpg / 78 mpg US
Oil Consumption	2.5 litres per 1,000 Km approx.
Top Speed	95 -100 Kph / 59 - 62 mph