

# Phil Hawksley's BM Bikes

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## BMW R4 Series 2 Specifications

<b>Start of Production</b>	<b>1933</b>
<b>End of Production</b>	<b>1933</b>
<b>Number Produced:</b>	<b>1,737</b>
<b>Price:</b>	<b>1,150 RM</b>



### Engine

Internal Designation	M 69 S 2
Motor Type	Four Stroke single cylinder vertical
Bore x Stroke	84 x 78 mm (3.30 x 3.07 in)
Displacement	398 cc
Maximum Power	12hp at 4,000 rpm
Compression Ratio	5.7 : 1
Valves	OHV
Carburation System	1 x carburettor type SUM CK 3/500 Fr
Engine Lubricating System	Forced Feed Lubrication
Oil Pump	Gear Pump

### Power Transmission

Clutch	Single plate dry clutch
Number of Gears	4
Gear Shift	Manual with frame shift gate
Gearbox Ratios	3.6 / 2.18 / 1.35 / 1.1
Rear Wheel Ratio	1 : 5.11 (1 : 5.63 with sidecar)
Bevel / Crownwheel	9 / 46 teeth (8 / 45 with sidecar)

### Electrical System

Ignition System	Battery ignition
Generator	Bosch 6V/30W
Spark Plugs	Bosch DM 175/1

### Chassis

Designation	F 69 S 2
Frame	Pressed steel duplex frame
Front Suspension	Plate spring, 9 laminae with friction shock absorber
Rear Suspension	Rigid
Wheel Rims	26 x 3.5
Front Tyre	26 x 3.5 SS

Rear Tyre	26 x 3.5 SS
Front Brakes	Drum brake 180 mm / 7.08 in diameter
Rear Brake	Drum brake 180 mm / 7.08 in diameter

### **Dimensions/Weights**

Length x Width x Height	1980 x 850 x 950 mm (77.95 x 33.46 x 37.40 in)
Wheel Base	1300 mm / 5.11 in
Fuel Tank Capacity	10 litres / 2.19 gal / 2.64 gal US
Unladen Weight with full tank	137 kg / 301 lb
Permitted Weight Limit	200 kg / 440 lb
Fuel Consumption	3.5 litres per 100 kilometres approx / 80 mpg / 67 mpg US
Oil Consumption	1 - 2 litres per 1,000 kilometres
Top Speed	100 kph / 62 mph