

Phil Hawksley's BM Bikes

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BMW R27 Specifications

Start of Production	1960
End of Production	1966
Numbers Produced	15,364
Price	2,430 DM



Engine

Internal Designation	226/2
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	18 hp at 7,400 rpm
Compression Ratio	8.2 : 1
Valves	OHV
Carburation System	1 x Bing carburettor type 1/26/68
Engine Lubricating System	Forced feed lubrication
Oil Pump	Gear pump

Power Transmission

Clutch	Single plate, dry
Number of Gears	4
Shifting	Foot switching
Gearbox Ratios	5.33 / 3.02 / 2.04 / 1.54
Rear Wheel Ratio	4.16 : 1 (with sidecar 5.2 : 1)
Bevel/Crownwheel	6 / 25 teeth (with sidecar 5 / 26)

Electrical System

Ignition System	Battery ignition
Generator	Bosch LJ/CJE 60/61800 R 5
Spark Plugs	Bosch W 240 T1 / Beru 240/14 / Champion L 85

Chassis

Designation	226/2
Frame	Steel twin loop frame, welded
Front wheel suspension	Long swing arm with suspension units and oil pressure dampers
Rear wheel suspension	Long swing arm with suspension units and oil pressure dampers

Wheel rims	2.15B x 18 deep bed rims
Tyres, Front	3.25 x 18
Tyres, Rear	3.25 x 18
Brakes, Front	Drum brake 160 mm / 6.29 in diameter, full width
Brakes, Rear	Drum brake 160 mm / 6.29 in diameter, full width

Dimensions/Weights

Length x Width x Height	2090 x 660 x 975 mm (82.28 x 25.98 x 38.38 in)
Wheel Base	975 mm / 38.38 in
Fuel Tank Capacity	15 litres / 3.29 gal / 3.96 gal US
Unladen Weight with Full Tank	162 Kg / 356 lb
Permitted Weight Limit	325 Kg / 715 lb (with original sidecar 480Kg / 1057 lb)
Idle/Riding Noise	81/81 phon (from 12/10/1962: 82/80 DIN phon)
Fuel Consumption	Approx. 3.9 litres per 100 Km / 72 mpg / 60 mpg US
Oil Consumption	Approx. 0.5 - 1 litres per 1,000 Km
Top Speed	130 Kph / 80 mph (with original sidecar 90 Kph / 55 mph)