

Phil Hawksley's BM Bikes

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BMW R12 Single Carburettor Specifications

Start of Production 1935

End of Production 1942

Number Produced: 36,000 (single and twin carb versions)

Price: 1,630 RM



Engine

Internal Designation	M 56 S 6 or 212
Motor Type	Four Stroke two cylinder flat twin
Bore x Stroke	78 x 78 mm (3.07 x 3.07 in)
Displacement	745 cc
Maximum Power	18hp at 3,400 rpm
Compression Ratio	5.2 : 1
Valves	SV
Carburation System	1 x SUM type CK 25 mm
Engine Lubricating System	Forced Feed Lubrication
Oil Pump	Gear Pump

Power Transmission

Clutch	Double plate dry clutch
Number of Gears	Four
Gear Shift	Manual
Gearbox Ratios	3.18 / 2.06 / 1.42 / 1.09
Rear Wheel Ratio	1 : 4.07 (1 : 4.75 with sidecar)
Bevel / Crownwheel	14 / 57 teeth (12 / 57 with sidecar)

Electrical System

Ignition System	Magneto or battery ignition
Generator	Bosch D 2 BRS 170
Spark Plugs	Bosch M 175/T1 or Bosch W 175 T1

Chassis

Designation	F 66
Frame	Pressed steel twin loop frame
Front Suspension	Telescopic fork
Rear Suspension	Rigid
Wheel Rims	3 x 19

Front Tyre	3.5 x 19
Rear Tyre	3.5 x 19
Front Brakes	Drum brake 200 mm / 7.87 in diameter
Rear Brake	Drum brake 200 mm / 7.87 in diameter

Dimensions/Weights

Length x Width x Height	2100 x 900 x 940 mm (82.67 x 35.43 x 37.00 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	185 kg approx / 407 lb
Load Rating	300 kg / 660 lb
Fuel Consumption	3.5 - 4 litres per 100 kilometres approx / 80 - 70 mpg / 67 - 58 mpg US
Oil Consumption	1 - 2 litres per 1,000 kilometres
Top Speed	110 kph / 68 mph