

Phil Hawksley's BM Bikes

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BMW R12 Twin 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	20hp at 4,000 rpm
Compression Ratio	5.2 : 1
Valves	SV
Carburation System	2 x Amal 6/406/407
Engine Lubricating System	Forced Feed Lubrication
Oil Pump	Gear Pump

Power Transmission

Clutch	Double plate dry clutch
Number of Gears	4
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 245 RS 108
Spark Plugs	Bosch M 175 T1 or Bosch W 175 T1

Chassis

Designation	F66
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
Permitted Weight Limit	300 kg / 660 lb
Fuel Consumption	4 - 4.5 litres per 100 kilometres approx / 70 - 62 mpg / 58 - 52 mpg US
Oil Consumption	1 - 2 litres per 1,000 kilometres
Top Speed	120 kph / 74 mph