

Phil Hawksley's BM Bikes

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BMW R42 Specifications

Start of Production	1926
End of Production	1928
Numbers Produced	6,502
Price	1,510 RM



Engine

Internal Designation	M 43
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	12 hp at 3,400 rpm
Compression Ratio	4.9 : 1
Valves	SV
Carburation System	1 carburettor, Type BMW Spezial 2 valve 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	2.49 / 1.50 / 1.08
Rear Wheel Ratio	1 : 4.53 or 1 : 3.8 (1 : 6.27 or 1 : 5.7 with sidecar)
Bevel/Crownwheel	15 / 68 or 15 / 57 teeth (11 / 69 or 10 / 57 with sidecar)

Electrical System

Ignition System	Bosch magneto ignition
Generator	Bosch magneto generator on request
Spark Plugs	Bosch W 175

Chassis

Designation	R42
Frame	Twin loop steel tubular frame
Front wheel suspension	Plate spring, 5 laminae
Rear wheel suspension	Rigid

Wheel rims	Deep bed 19x 3 or 21x 2.5
Tyres, Front	26 x 3.5 on 19 x 3 or 27 x 2.75 on 21 x 2.5
Tyres, Rear	26 x 3.5 on 19 x 3 or 27 x 2.75 on 21 x 2.5
Brakes, Front	Drum brake 150 mm / 5.90 in diameter
Brakes, Rear	External shoe brake at the gearing on Cardan shaft

Dimensions/Weights

Length x Width x Height	2100 x 800 x 950 mm (82.67 x 31.49 x 37.40 in)
Wheel Base	1410 mm / 55.51 in
Fuel Tank Capacity	14 litres / 3.07 gal / 3.69 gal US
Unladen Weight with Full Tank	126 Kg / 277 lb (188 Kg / 414 lb with original sidecar)
Fuel Consumption	Approx. 3 litres per 100 Km / 94 mpg / 78 mpg US
Oil Consumption	Approx. 1.7 litres per 1,000 Km
Top Speed	95 Kph / 59 mph