

Phil Hawksley's BM Bikes

www.bmbikes.co.uk

BMW R75 Sidecar Unit Specifications

Start of Production 1941
End of Production 1944
Numbers Produced 18,000 approx.
Price 2,630 RM



Engine

Internal Designation	275/2
Motor Type	Four-stroke two cylinder flat twin
Bore x Stroke	78 x 78 mm (3.07 x 3.07 in)
Displacement	745 cc
Max Power	26 hp at 4,000 rpm
Compression Ratio	5.8 : 1
Valves	OHV
Carburation System	2 x carburettor type Graetzin Sa 24/1 and Sa 24/2
Engine Lubricating System	Forced feed lubrication
Oil Pump	Gear pump

Power Transmission

Clutch	Single plate, dry
Number of Gears	"Road": 4 + 1 reverse gear, "off-road": 3 + 1 reverse gear
Shifting	Foot and manual shifting with selector lever "off-road" + "road"
Gearbox Ratios	"Road": 3.22 / 1.83 / 1.21 / 0.90, reverse gear 2.41, "off-road": 4.46 / 2.54 / 1.67, reverse gear 3.3
Rear Wheel Ratio	1 : 6.05 (from production No. 754056 1 : 5.69)

Electrical System

Ignition System	Magneto ignition
Generator	Noris DS 6/50
Spark Plugs	Bosch W 175 T1

Chassis

Designation	275/1
Frame	Multi part, bolted steel tubular frame

Front wheel suspension	Telescopic fork
Rear wheel suspension	Rigid, plate springs on the boat, tube springs on sidecar wheel
Wheel rims	3D x 16
Tyres, Front	4.5 x 16 (off road block profile)
Tyres, Rear	4.5 x 16 (off road block profile)
Brakes, Front	Drum brake 250 mm / 9.84 in diameter, mech.
Brakes, Rear	Drum brake 250 mm / 9.84 in diameter, mech; sidecar drum brakes 250 mm / 9.84 in diameter, hydraulic

Dimensions/Weights

Length x Width x Height	2400 x 1730 x 1000 mm (94.48 x 68.11 x 39.37 in) (with sidecar)
Wheel Base	1444 mm / 56.85 in
Fuel Tank Capacity	24 litres / 5.27 gal / 6.34 gal US
Unladen Weight with Full Tank	400 Kg / 881 lb with original sidecar
Load Rating	270 Kg / 594 lb
Fuel Consumption	Approx. 6.3 litres per 100 Km / 44 mpg / 37 mpg US (road), 8.5 litres per 100 Kph / 33 mpg / 27 mpg US (off-road)
Oil Consumption	Approx. 0.5 - 1 litre per 1,000 Km
Top Speed	95 Kph / 59 mph