



BMW R 4 series 1

Engine	Begin of the Production	1932
	End of the Production	1932
	Internal Designation	M 69 S 1
	Motor Type	four-stroke single-cylinder vertical
	Bore	84 mm
	Stroke	78 mm
	Displacement	398 ccm
	Max Power	12 hp
	Rpm (Max Power)	4000 rpm
	Compression Ratio	5.7:1
	Valves	ohv
	Carburetion System	1 x carburettor type SUM CK 3/500 Fr
	Engine Lubricating System	forced-feed lubrication
Power transmission	Oil Pump	gear pump
	Clutch	single-plate, dry
	Number of Gears	3
	Shifting	manual
	Gearbox Ratios	2.9/1.5/1
	Rear Wheel Ratio	1:5.11 (with sidecar 1:5.63)
	Bevel/Crownwheel	9/46 teeth (with sidecar 8/45)
Electrical system	Generator	Bosch 6 V/30 W
	Ignition System	battery ignition
	Spark Plugs	Bosch DM 175/1
Chassis	Designation	F 69 S 1
	Frame	pressed steel duplex frame
	Front Wheel Suspension	plate spring, 9 laminae, from July with friction shock absorber
	Rear Wheel Suspension	rigid
	Wheel Rims	26 x 3.5
	Tyres front	26 x 3.5 SS
	Tyres rear	26 x 3.5 SS
	Brakes front	drum brake Ø 180 mm
	Brakes rear	drum brake Ø 180 mm
	Dimensions and weights	Length
Width		850 mm
Height		950 mm
Wheel Base		1300 mm
Fuel Tank Capacity		10 l
Unladen Weight, Full Tank		137 kg
Permitted Weight Limit		200 kg
Fuel Consumption		approx. 3,5 l/100 km
Oil Consumption		approx. 1 - 2 l/1000 km
Top Speed		100 kph
Numbers Produced		1.101
Price		1.250,- RM