

# BMW R 90 S

BMW Group  
Mobile Tradition



The Ultimate  
Riding Machine

<b>Engine</b>	Begin of Production	1973
	End of Production	1976
	Motor Type	four-stroke, two-cylinder, horizontally-opposed Boxer engine, air-cooled
	Bore	90 mm
	Stroke	70,6 mm
	Cubic Capacity	898 ccm
	Max Power	67 hp (49,3 KW)
	Rpm (Max Power)	7000 rpm
	Max Torque	76 Nm
	Rpm (Max Torque)	5500 rpm
	Compression Ratio	9.5:1
	Valves per Cylinder	2
	Valve Control	ohv, using push rod and rocker arm
<b>Power transmission</b>	Carburation System	2 slide carburetors, Dellorto PHM 38 AS-AD or 38 BS-BD
	Engine Lubrication	wet sump
	Clutch	dry single plate, with diaphragm spring
	Number of Gears	5
	Gear Selection	dog-type gearbox (ratchet foot lever)
	Gear Ratios	4.4/2.86/2.07/1.67/1.50:1
	Rear Wheel Ratio	1:3.00 or 1:2.91
<b>Electrical system</b>	Bevel/Crownwheel	11/33 teeth or 11/32 teeth
	Ignition	Bosch 12 V/280 W
	Alternator	Bosch 0.5 hp
	Starter	battery ignition
<b>Chassis</b>	Spark Plugs	Bosch W 200 T 30/Beru 200/14/3 A/Champion N 7 Y
	Type of Frame	double-loop tubular frame with bolt-on rear section
	Front Suspension	telescopic fork with hydraulic shock absorber
	Rear Suspension	long swinging arm with adjustable strut
	Spring Travel front/rear	208 / 125 mm
	Rims front	1.85 B 20
	Rims rear	2.15 B 19
	Tyres front	3.25 H 20
	Tyres rear	4.00 H 19
	Brakes front	dual-disc brake 260 mm dia
<b>Dimensions and weights</b>	Brakes rear	simplex drum brake 200 mm dia
	Length	2180 mm
	Width	740 mm
	Height	1210 mm
	Wheel Base	1465 mm
	Ground Clearance	165 mm
	Tank Capacity	24 l
	Unladen Weight, full Tank	215 kg
	Max permissible Weight	398 kg
	Fuel Consumption	5,0 l/100 km (at constant 90 kph)
	Acceleration 0-100 kph	4,8 sec
	Top Speed	200 kph
	Number Sold	17.465
	Price	9.130,- DM