

# BMW R 80 ST

BMW Group  
Mobile Tradition



The Ultimate  
Riding Machine

<b>Engine</b>	Begin of Production	1982
	End of Production	1984
	Motor Type	four-stroke, two-cylinder, horizontally-opposed Boxer engine, air-cooled
	Bore	84,8 mm
	Stroke	70,6 mm
	Cubic Capacity	797,5 ccm
	Max Power	50 hp (37 KW)
	Rpm (Max Power)	6500 rpm
	Max Torque	56,7 Nm
	Rpm (Max Torque)	5000 rpm
	Compression Ratio	8.2:1
	Valves per Cylinder	2
	Valve Control	ohv, using push rod and rocker arm
	Carburation System	2 constant depression carburetors, Bing V 64/32/305-64/32/306
<b>Power transmission</b>	Engine Lubrication	wet sump
	Clutch	dry single plate, with lever-action 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	1:3.36
<b>Electrical system</b>	Bevel/Crownwheel	11/37 teeth
	Ignition	Contact-free electronic ignition (Bosch)
	Alternator	Bosch 280 W
	Starter	Bosch 0.7 kW
<b>Chassis</b>	Spark Plugs	Bosch W 7 D/Beru 14-7D/Champion N 10 Y
	Type of Frame	double-loop tubular frame with bolt-on rear section
	Front Suspension	telescopic fork with hydraulic shock absorber
	Rear Suspension	BMW Monolever swinging arm
	Spring Travel front/rear	175 / 153 mm
	Rims front	1.85 B 19
	Rims rear	2.50 B 18
	Tyres front	100/90 H 19
	Tyres rear	120/90 H 18
	Brakes front	single disc brake 260 mm dia
<b>Dimensions and weights</b>	Brakes rear	simplex drum brake 200 mm dia
	Length	2180 mm
	Width	790 mm
	Height	1150 mm
	Wheel Base	1446 mm
	Ground Clearance	170 mm
	Tank Capacity	19 l
	Unladen Weight, full Tank	198 kg
	Max permissible Weight	398 kg
	Fuel Consumption	5,0 l/100 km (at constant 90 kph)
	Acceleration 0-100 kph	5,6 sec
	Top Speed	174 kph
	Number Sold	5.963
	Price	9.490,- DM