

Phil Hawksley's BM Bikes

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BMW R80ST Specifications

Start of Production	1982
End of Production	1984
Numbers Produced	5,963
Price	9,490 DM



Engine

Motor Type	Four-stroke two cylinder horizontally opposed "Boxer" engine, air cooled
Bore x Stroke	84.8 x 70.6 mm (3.33 x 2.77 in)
Displacement	797.5 cc
Max Power	50 hp (37 KW) at 6,500 rpm
Max Torque	56.7 Nm / 41 ft lb at 5,000 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
Engine Lubricating System	Wet sump

Power Transmission

Clutch	Dry single plate, with lever action diaphragm spring
Number of Gears	5
Gear Selection	Dog type gearbox (ratchet foot lever)
Gearbox Ratios	4.4 / 2.86 / 2.07 / 1.67 / 1.50 : 1
Rear Wheel Ratio	1 : 3.36
Bevel/Crownwheel	11 / 37 teeth

Electrical System

Ignition System	Contact free electronic ignition (Bosch)
Alternator	Bosch 280 W
Starter	Bosch 0.7 Kw
Spark Plugs	Bosch W 7 D / Beru14-7D / Champion N10Y

Chassis

Type of Frame	Double loop tubular frame with bolt on rear
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Front wheel suspension	section Telescopic fork with hydraulic shock absorber
Rear wheel suspension	BMW Monolever swinging arm
Spring Travel Front/Rear	175 / 153 mm (6.88 x 6.02 in)
Wheel Rims, Front	1.85 B 19
Wheel 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 / 10.23 in diameter. Brembo 2 piston caliper
Brakes, Rear	Simplex drum brake 200 mm / 7.87 in diameter
Dimensions/Weights	
Length x Width x Height	2180 x 790 x 1150 mm (85.82 x 31.10 x 45.27 in)
Wheel Base	1446 mm / 56.92 in
Fuel Tank Capacity	19 litres / 4.17 gal / 5.01 gal US
Unladen Weight with Full Tank	198 Kg / 436 lb
Max. Permissible Weight	398 Kg / 876 lb
Ground Clearance	170 mm / 6.69 in
Seat Height (Unladen)	845 mm (33.3 inches)
Fuel Consumption	5.0 litres 100 Km (at constant 90 Kph) / 47 mpg US or 56 mpg / 47 mpg US
Top Speed	174 Kph / 108 mph
Acceleration 0 - 100 Kph / 62 mph	5.6 seconds