

Technical Data

BMW S 1000 RR		
Power Unit		
Capacity	cc	999
Bore/stroke	mm	80.0/49.7
Max output	kW/hp	142/193
at	rpm	13,000
Max torque	Nm/lb-ft	112/83
At	rpm	9,750
Configuration		Straight-four
No of cylinders		4
Compression ratio/fuel grade		13:1/ min premium unleaded (95 RON)
Valves/charge cycle		dohc (double overhead camshaft) Valves operated by single cam follower beneath engine
Valves per cylinder		4
Intake/exhaust dia	mm	33.5/27.2
Throttle butterfly dia	mm	48
Fuel supply		(BMS-KP)
Electrical System		
Alternator	W	434
Battery	V/Ah	14/10 or 12, maintenance-free
Headlight	W	Low beam 1x H 7/55 W High beam 1x H 7/55 W
Starter	kW	0.8
Power Transmission		
Clutch		Multi-disc anti-hopping oil bath clutch, operated mechanically
Gearbox		Six-speed gearbox, dog-type shift
Primary transmission ratio		1:1.652
Gear ratios	I	1:2.6471
	II	1:2.091
	III	1:1.727
	IV	1:1.500
	V	1:1.360
	VI	1:1.261
Rear wheel drive		Chain
Final drive ratio		1:2.588
Suspension		
Frame		Bridge frame, aluminium
Wheel guidance, front		USD fork, fixed tube dia 46 mm
Wheel guidance, rear		Double swing arm with central spring strut in spring base, adjustable inbound and rebound action
Spring travel front/rear	mm	120/130
Castor	mm	95.9
Wheelbase	mm	1,432
Steering head angle	°	66.1

Brakes	front	Double disc brake with BMW disc mount, dia 320 mm, radial 4-piston fixed callipers
	rear	Single disc brake, dia 220 mm, single-piston floating calliper
ABS		Optional: BMW Motorrad Race ABS (partly integral, on-demand)
Wheels		Cast aluminum
	front	3.50 x 17"
	rear	6.00 x 17"
Tyres	front	120/70 ZR 17
	rear	190/55 ZR 17

Dimensions and Weight

Length, overall	mm	2,056
Width, overall, with mirrors	mm	826
Seat height	mm	820
Weight, unladen, with full tank	kg	204 (206.5 with ABS)
Max permissible	kg	390
Tank capacity	ltr	17.5

Fuel

Fuel consumption		
90 km/h	ltr/100 km	5.7
120 km/h	ltr/100 km	5.9
Acceleration		
0–100 km/h	sec	2.9
Standing-start km	sec	17.9
Top speed	km/h	>200