

Technical data sheets BMW Motorrad

Date: 17.04.2009

Status: approved

S 1000 RR (K46)

Engine

Type	Water-cooled 4-stroke in-line four-cylinder-engine, two camshafts, four valves per cylinder
Bore / stroke	80 mm x 49.7 mm
Capacity	999 cc
Rated output	142 kW (193 hp) at 13,000 rpm
Max. torque	112 Nm at 9,750 rpm
Compression ratio	13.0 : 1
Mixture control / engine management	Electronic intake pipe injection/digital engine management including knock sensor (BMS-K-P)
Emission control	Catalytic- 2 Closed-loop 3-way catalytic converter, emission standard EU-4 ready

Performance / fuel consumption

Maximum speed	Over 200 km/h
Fuel consumption per 100 km at constant 90 km/h	5.7 l
Fuel consumption per 100 km at constant 120 km/h	5.9 l
Fuel type	Unleaded premium, octane number 95-98 (RON), automatic knock control

Electrical system

Alternator	three-phase alternator 350 W
Battery	14 V / 10 Ah, maintenance-free

Power transmission

Clutch	Multiple-disc clutch in oil bath, anti hopping clutch, cable operated
Gearbox	Constant mesh 6-speed gearbox
Drive	chain

Chassis / brakes

Frame	Bridge-type frame, cast aluminium, load-bearing engine
Front wheel location / suspension	46 mm Upside-down fork, rebound and compression adjustable
Rear wheel location / suspension	Cast aluminium swing arm, Continuously adjustable rear inbound-rebound damping, high and low speed
Suspension travel, front / rear	120 mm / 130 mm
Wheelbase	1,432 mm
Castor	95.9 mm

Steering head angle	66,1°
Wheels	Cast aluminium
Rim, front	3.50 x 17"
Rim, rear	6.00 x 17"
Tyre, front	120/70 ZR 17
Tyre, rear	190/55 ZR 17
Brake, front	Twin disc, floating brake discs, radial-fixed 4-piston calipers, diameter 320 mm, 5 mm thickness
Brake, rear	Single disc brake, one-piston floating caliper, diameter 220 mm, 5 mm thickness
DTC**	DTC 4 mode dynamic traction control adjustment, only available with Race ABS, disengageable
Race-ABS*	4 mode Race-ABS adjustment, disengageable

Dimensions / weights

Seat height	820 mm
Inner leg curve	1,810 mm
Unladen weight, road ready, fully fuelled 1)	204 kg (206.5 kg incl. Race-ABS)
Dry weight 2)	183 kg
Permitted total weight	390 kg
Payload (with standard equipment)	187 kg
Usable tank volume	17.5 l
Reserve	approx. 4.0 l
Length	2,056 mm
Height (excl. mirrors)	1,138 mm
Width (incl. mirrors)	826 mm

Technical data relate to the unladen weight (DIN)

1) According to guideline 93/93/EWG with all fluids, fuelled with at least 100% of usable tank volume

2) Unladen weight without fluids

Race-ABS* as SA* DTC** only available with Race-ABS as SA**