



# S 1000 RR

## Technical data and colors

Updated: October 2009

### Engine:

**Type:**

- Water/oil-cooled 4-stroke in-line four-cylinder-engine, two overhead camshafts, four titanium valves per cylinder

**Bore / stroke:**

- 80 mm x 49.7 mm

**Capacity:**

- 999 cc

**Rated output:**

- 142 kW 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+)

**Emission control:**

- 2 closed-loop 3-way catalytic converter, emission standard EU-4, electronically controlled interference pipe valves and controlled acoustic valve

### Performance / fuel consumption:

**Maximum speed:**

- over 200 km/h

**Fuel consumption over 100 km at constant 90 km/h:**

- 5.7 l

**Fuel consumption over 100 km at constant 120 km/h:**

- 5.9 l

**Fuel type:**

- Unleaded super and premium, octane number 95-98 (RON) (knock sensor; rated output at 98 RON)

### 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, mechanically operated

**Gearbox:**

- Constant mesh 6-speed gearbox, spur toothing

**Drive:**

- chain

### Chassis / brakes:

**Frame:**

- Bridge-type frame, cast aluminium, load-bearing engine

**Front wheel location / suspension:**

- Upside-down telescopic fork Ø 46 mm, rebound and compression adjustable

**Rear wheel location / suspension:**

- Cast aluminium dual swing arm, continuously adjustable rear inbound-rebound damping, high and low speed

**Travel front/rear:**

- 120 mm / 130 mm

**Wheelbase :**

- 1,432 mm

**Castor:**

- 95.9 mm

**Steering head angle:**

- 66.1°

**Wheels:**

- Cast aluminium wheels

**Rim front:**

- 3.50 x 17"

**Rim rear:**

- 6.00 x 17"

**Tyres front :**

- 120/70 ZR 17

**Tyres rear:**

- 190/55 ZR 17

**Brake front:**

- Dual disc brake, floating brake discs, diameter 320 mm, 4-piston fixed calipers, 5 mm thickness

**Brake rear:**

- Single disc brake, one-piston floating caliper, diameter 220 mm, 5 mm thickness

**ABS:**

- Optional extra: 4 mode Race-ABS adjustment, can be switched off, Rain, Sport, Race, Slick

## Dimensions / Weight:

### Length:

- 2,056 mm

### Height (not inc. mirrors):

- 1,138 mm

### Width (inc. mirrors):

- 826 mm

### Seat height, unladen weight:

- 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:

- 405 kg

### Payload (with standard equipment):

- 202 kg

### Usable tank volume:

- 17.5 l

### Reserve:

- approx. 4.0 l

### Technical data relate to the unladen weight (DIN)

- 1) According to guideline 93/93/EWG with all fluids, fuelled with at least 90% of usable tank volume
- 2) Unladen weight without fluids

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

## Color possibilities:



Paintwork: Acid Green Metallic



Paintwork: Mineral Silver Metallic



Paintwork: Motorsport Alpine White non-metallic / Lupin Blue Metallic / Magma Red non-metallic



Paintwork: Thunder Grey Metallic

**BMW Motorrad**  
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**The Ultimate  
Riding Machine**

**S 1000 RR**

The models illustrated in this brochure show the specifications for Germany. In part, they include optional equipment and accessories not fitted as standard. According to the specific requirements of other markets, alterations in models and equipment as described here may occur. For detailed information on the range of rider equipment and accessories available in your country, please contact your BMW Motorrad dealer. Subject to change in design and equipment. Subject to error.

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