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The New BMW S 1000 RR and BMW S 1000 R
The sporty BMW Motorrad 4-cylinder models

Woodcliff Lake, NJ – November 18, 2016...Supreme riding dynamics, athletic character combined with maximum safety and everyday practicality – these are the defining characteristics of the BMW Motorrad 4-cylinder models. For the model year 2017, the supersport bike S 1000 RR and the dynamic roadster S 1000 R have undergone the following model revisions:

The new BMW S 1000 RR – virtually perfect yet still optimized.

- Adaptation to EU4 requirements.
- ABS Pro as a new element of the optional equipment item “Ride Modes Pro”.
- DTC as standard.
- The new RR now as standard as a single-seat model with passenger seat cover. The optional passenger package is available free of charge as an alternative.
- Well-established color concepts: Racing Red non-metallic/Light White non-metallic and BMW Motorsport (Lupine Blue metallic/Light White non-metallic/Racing Red non-metallic), though in a new design.
- New color option Granite Grey metallic/Black Storm metallic.
- Design Option Wheels with red rim lines now included as standard as part of the color concepts Racing Red non-metallic/Light White non-metallic and BMW Motorsport.

The new BMW S 1000 R – enhanced dynamic roadster.

- Adaptation to EU4 requirements.
- Output increased to 121 kW / 165 hp at 11,000 rpm (previously: 118 kW/ 160 hp).
- Weight reduction by 4 lbs to 452 lbs DIN unladen.
Payload increased by 4 lbs
- HP titanium rear silencer as standard for an even more potent sound and a sporty look.
- Vibration-free handlebars for a further increase in comfort.
- New frame structure with lighter main frame rear section.

- ABS Pro as a new element of the optional equipment item “Ride Modes Pro”.
- HP Shift Assist Pro for quick shifting up and down without clutch as factory option.
- Light HP forged wheels (-5 lbs as compared to the standard version) as a new optional equipment items.
- Design Option Wheels with red rim lines as a new Factory option.
- Multifunction instrument cluster with improved readability and including outdoor temperature display.
- Significantly reduced fairing.
- New color options Racing Red non-metallic/Black Storm metallic, Catalano Grey non-metallic and BMW Motorsport (Lupine Blue metallic/Light White non-metallic/Racing Red non-metallic).

The New BMW S 1000 RR

The new BMW S 1000 RR – the virtually perfect supersport model has been further optimized.

Ever since BMW Motorrad launched the S 1000 RR in 2009, the first 4-cylinder supersport bike made by BMW, the “Double R” has had a lasting impact on this market segment. Consistent and ongoing development has since ensured that the RR occupies pole position among the superbikes with road traffic certification. For the model year 2017 it was, once again, possible to further enhance the virtually perfect supersport bike.

Potent in-line 4-cylinder engine, adapted to EU4 requirements.

The 999 cc in-line 4-cylinder engine has been adapted to meet the requirements of the EU4 pollutant class. The peak output is still 146 kW (199 hp) at 13,500 rpm and the maximum torque of 83 lb-ft (113 Nm) is reached at 10,500 rpm. In the interests of excellent rideability, the new RR also has a wide engine speed range along with torque from approximately 9,500 (83 lb-ft/112 Nm) to 12,000 rpm (83 lb-ft/113 Nm).

Riding modes “Rain”, “Sport” and “Race” along with Race ABS and Dynamic Traction Control as standard.

The new RR features the three riding modes “Rain”, “Sport” and “Race” as standard as well as the partial integral Race ABS. New additions to the standard trim include Dynamic Traction control DTC with banking sensor and fine adjustment at +/- seven levels for the best possible performance and safety when accelerating.

Optional equipment item “Ride Modes Pro” with additional riding modes “Slick” and “User”, Launch Control, Pit Lane Limiter and now also ABS Pro.

With the optional equipment item “Ride Modes Pro”, the new RR offers the two additional riding modes “Slick” and “User” as before, as well a Launch Control for active support on racing starts, among other things. A configurable Pit Lane Limiter also enables adherence to the prescribed speed in the pit lane.

ABS Pro is a new component of the optional equipment item “Ride Modes Pro”. While the existing BMW Motorrad ABS systems already provide a very high degree of safety when braking in a straight line, ABS Pro now takes this a step further to offer increased safety when braking on bends. Here, ABS Pro (available in the modes “Rain”, “Sport” and “Race”) is able to prevent the wheels from locking even when the brakes are applied quickly; this reduces abrupt changes in steering force on shock-braking maneuvers and stops the motorcycle from rearing up unintentionally.

The new RR now as a single-seater with passenger seat cover and attractive new colors.

From now on, the new S 1000 RR is configured as standard as a single-seater with passenger seat cover. However, the RR may be ordered with a passenger package free of charge: this includes both passenger seat and passenger footrests.

The RR continues to be available in the color schemes Racing Red non-metallic/Light White non-metallic for the dynamic look and BMW Motorsport (Lupine Blue metallic/Light White non-metallic/Racing Red non-metallic in reference to the bike’s motor racing genes), although in a new configuration. The two color concepts are supplemented as standard with red rim lines.

In addition, there is the new color scheme Granite Grey metallic/Black Storm metallic, which gives the RR a refined appearance.

Optional equipment and Original BMW Motorrad Accessories.

As usual, an extensive array of optional equipment and motorcycle accessories are available for those who wish to customize their new BMW S 1000 RR.

Options.

Race Package: Ride Modes Pro (riding modes “Slick” and “User”, Launch Control, Pit Lane Limiter and ABS Pro), cruise control.

Dynamic Package: DDC, HP Shift Assist Pro, heated grips.

- Dynamic Damping Control DDC.
- “Ride Modes Pro” (riding modes “Slick” and “User”, Launch Control, Pit Lane Limiter and ABS Pro).
- HP forged wheels.
- Shift Assist Pro.
- Cruise control.
- Alarm system (DWA).
- Heated grips.
- Passenger package (passenger seat, passenger footrests).
- HP battery.

Original BMW Motorrad Accessories.

HP Parts.

- HP rider footrest system incl. HP Carbon heel guard, adjustable ergonomics.
- HP passenger footrests.
- HP brake/clutch lever, foldable.
- HP handbrake lever with remote adjustment.
- HP hand lever protector.
- HP engine protector, left/right.
- HP axle protectors.
- HP chain tensioner.
- HP Carbon wheel cover, front.
- HP Carbon wheel cover, rear.
- HP Carbon side trim part, top left/right.
- HP Carbon fuel tank trim, left/right.
- HP Carbon airbox cover.
- HP Carbon heel guard.
- HP Carbon pinion cover.
- HP Carbon Engine Spoiler Race.*
- HP Carbon chain guard.
- HP sport silencer.
- HP cover kit.*
- HP lap timer.*
- HP data logger.*
- HP Calibration Kit 3.*
- HP Power Kit.*
- HP brake pads.*
- HP brake vent valve.

- HP brake vent aid.
- HP wiring harness.*
- HP seat.

- HP pit carpet.

* Only for use on the race track.

Storage program.

- Tank bag.
- Rear bag.
- Passenger seat bag.
- Saddlebags.
- Tensioning strap.

Ergonomics and comfort.

- Rider comfort seat.
- Comfort passenger seat.
- Windshield, high ("bubble").
- Windshield, tinted.
- Windshield, high, tinted.

Safety.

- Brake disc lock with integrated alarm system.
- BMW Motorrad warning triangle.
- First aid set, large.
- First aid set, small.

Maintenance and technology.

- Sport 2 work stand, front/rear.
- Swing arm adapter for Sport 2 workstand.
- BMW Motorrad battery charger 110 V.
- Multifunction tool.
- Mini foot pump.
- Repair set for tubeless tires.
- Indoor motorcycle dust cover.
- Motorcycle all-weather cover.

The New BMW S 1000 R

The new BMW S 1000 R – the dynamic roadster in significantly enhanced form.

In the autumn of 2013, BMW Motorrad launched a dynamic roadster based on the supersport bike S 1000 RR: the S 1000 R. With its well-conceived overall concept of high performance, low weight Race ABS, ASC and ride modes as standard, it set a new benchmark in the dynamic roadster segment. Since then, the S 1000 R has attracted numerous fans with its fascinating blend of emotional roadster looks and supersport riding dynamics. BMW Motorrad has now enhanced the innovative naked bike in a variety of ways.

EU4-compliant 4-cylinder with higher performance, lower weight and HP titanium rear silencer for an even more potent sound and a sporty look.

The new S 1000 R features the well-proven 999 cc in-line 4-cylinder engine. Having been adapted to meet all EU4 requirements, it now has an output of 121 kW (165 hp) at 11,000 rpm (previously: 118 kW (160 hp) at 11,000 rpm), 3 kW (5 hp) higher than before, and weighs 4 lbs (2 kg) less (previously 456 lbs (207 kg) DIN unladen weight, now 451 lbs (205 kg) DIN unladen weight). The permitted gross weight is still 897 lbs (407 kg), which means an increase in payload of 4 lbs (two kilograms).

Further development of the engine has included an optimized intake and exhaust sound. In conjunction with the standard HP titanium rear silencer, the new S 1000 R now produces an even more potent sound while still adhering to the ECE registration directive R41-04.

ASC, partially integral Race ABS and two ride modes as standard. Optional “Ride Modes Pro” with DTC and two additional “Dynamic” and “User” ride modes, now includes ABS Pro, Launch Control, and Pit Lane Limiter as additional features.

For optimum adaptation to the rider’s personal preferences and area of use, the new S 1000 R now provides two riding modes as well as ASC (Automatic Stability Control) as standard features. With the riding modes “Rain” and “Road”, the S 1000 R offers adaptable power and torque delivery relative to Race ABS and ASC on road surface conditions. This is a significant safety bonus when riding on variable road surfaces.

Dynamic Traction Control DTC continues to be available as a factory option. Among other things, DTC features the banking sensor familiar from the RR, offering the highest series-production level of technology currently available for increased riding safety and dynamic performance.

A new feature now included in the “Ride Modes Pro” option with its two additional riding modes “Dynamic” and the new, configurable “User” mode is ABS Pro, which operates in relation to banking angle. While the existing BMW Motorrad ABS systems already provide a very high degree of safety when braking in a straight line, ABS Pro offers increased safety

when braking on bends. In this way, the wheels can be prevented from locking. It reduces abrupt changes in steering force on shock-braking maneuvers and prevents the motorcycle from rearing up unintentionally.

The enormous performance spectrum of the “Ride Modes Pro” option is rounded off with a new Launch Control feature for active rider support on racing starts and a programmable Pit Lane Limiter to ensure that the set speed limits are adhered to in the pit lane.

HP Shift Assist Pro for quick shifting up and down without clutch activation as a factory option.

Already available as an option for the RR and the XR, HP Shift Assist Pro is now also available for the new S 1000 R. It enables the rider to shift up through the gears without activating the clutch, thereby allowing perfect acceleration virtually without torque interruption. HP Shift Assist Pro also allows downshifting without using the clutch. As a result, very fast shifting is possible, clutch activation is reduced to a minimum, and any unwanted load change impact on the rear wheel is noticeably diminished.

The new S 1000 R already meets many riders’ preference for a so-called “reverse shifting pattern” for use on the race track, with the first gear at the top and gears two to six going downwards. An additional mount for the shift linkage on the gear lever makes for a very quick changeover here.

New rear frame structure with optimized rigidity and flex as well as lighter main frame rear section for increased traction, greater precision and transparent feedback.

The main suspension element of the new S 1000 R is still an aluminum bridge-type frame comprising four individual cast components welded together with the in-line 4-cylinder engine integrated as a load-bearing element. In the new S 1000 R, however, the main frame has now been redesigned and given a new, lighter rear section. As part of this revision, the entire composite structure of the main frame, main frame rear section and swinging arm has been optimized in terms of rigidity and flex to achieve improved traction while at the same time providing greater precision and even more transparent feedback. The rider footrest system, including brake and gear lever, was also redesigned.

Light HP forged wheels and Design Option Wheels as new optional equipment items.

For further optimization of the new S 1000 R, BMW Motorrad now offers HP forged wheels as an optional equipment item that enable a weight reduction of 5 lbs. as compared to the standard wheels. The resulting reduction in inertia moment and gyroscopic movement

benefits the new S 1000 R in terms of acceleration, deceleration and maneuverability. The optional equipment item Design Option Wheels further underscores the sporty character of the new S 1000 R with a red decorative line which runs around the rim edge of the aluminum cast wheels.

Optimized multifunction instrument cluster with improved readability.

Like its predecessor, the new S 1000 R still draws on motor racing elements for its cockpit design. An LCD screen in conjunction with an analog engine speed display allows a wealth of information to be displayed to the rider, from gears to the relevant riding mode and lap time recording. There is also an individually programmable shift indicator on board for optimum gear shifting.

For use in the new S 1000 R, the tilt angle of the instrument cluster has been optimized to achieve improved readability, especially of the upper lines of the LCD screen. An additional Malfunction Indicator Light (MIL) ensures the EU4 norm is met, and the display has been extended to include the outdoor temperature.

More dynamic design with reduced fairing.

While the aspirations of the S 1000 R as a dynamic roadster have been perfectly captured up to now in the “tail up – nose down” principle with a low front section and steeply rising rear, the new S 1000 R nonetheless adopts an even more strikingly dynamic pose.

The new S 1000 R is still instantly and unmistakably recognizable as a face that stands out in a crowd. From the front, the asymmetrical breakdown of the headlamp is the dominating feature along with the large central air inlet, the latter clearly demonstrating that fresh air and the airstream are being converted into forward propulsion and power.

Further stylistic enhancements are evident in the front section and in the side trim parts. Straighter and more sharply designed, while also significantly reduced in size, these give the new S 1000 R an even more athletic and dynamic appearance. The passenger seat pad has also received a fresh look.

Vibration-free handlebars for further increased comfort.

Vibration-free handlebars ensure increased comfort in the new S 1000 R. These effectively prevent even the finest vibrations from being passed onto the handlebar ends. The upper fork bridge was also newly designed.

Attractive new color options.

The even more dynamic appearance of the new S 1000 R is reflected in a new color

concept comprising three color schemes: Racing Red non-metallic/Black Storm metallic, Catalano Grey non-metallic and BMW Motorsport (Light White non-metallic/Lupine Blue metallic/Racing Red non-metallic).

In Racing Red non-metallic/Black Storm metallic the new S 1000 R shows off its sporty, aggressive character, at the same time underscoring its leading position in terms of performance in the dynamic roadster segment.

Catalano Grey non-metallic gives the new S 1000 R a particularly powerful and potent appearance, interpreting the combination of technology and dynamic performance in a strikingly masculine way.

In the traditional BMW Motorsport colors of Light White non-metallic, Lupine Blue metallic and Racing Red non-metallic, the new S 1000 R combines its athletic genes with a dash of distinctive refinement, giving it a light and agile look.

Optional equipment and Original BMW Motorrad Accessories for further individualization.

The customary array of BMW Motorrad optional equipment and motorcycle accessories are available for further customization of the new S 1000 R.

Options.

- **Sport Package:** Dynamic Traction Control DTC, Ride Modes Pro (riding Modes “Dynamic”, “Dynamic Pro”, ABS Pro), Shift Assist Pro and cruise control.
- **Dynamic Package:** Dynamic Damping Control DDC, heated grips, and engine spoiler in body finish.
- Ride Modes Pro (riding modes “Dynamic”, “Dynamic Pro”, ABS Pro, DTC, Launch Control, Pit Lane Speed Limiter).
- Cruise control.
- Shift Assist Pro.
- Dynamic Damping Control DDC.
- Heated grips.
- HP forged wheels.
- Design Option Wheels.
- Alarm system

Original BMW Motorrad Accessories.

HP Parts.

- HP rider footrest system incl. HP Carbon heel guard, adjustable ergonomics.
- HP passenger footrests.
- HP brake/clutch lever, foldable.
- HP hand lever protectors.
- HP engine protectors, left/right.
- HP axle protectors.
- HP chain tensioner.
- HP Carbon wheel cover, front.
- HP Carbon wheel cover, rear.
- HP Carbon windshield.
- HP Carbon fuel tank trim, left/right.
- HP Carbon airbox cover.
- HP Carbon pinion cover.
- HP Carbon heel guard.
- HP Carbon chain guard.
- HP lap timer.*
- HP data logger.*
- HP pit carpet.

* Only for use on the race track.

Storage program.

- Tank bag.
- Rear bag, left/right.
- Passenger seat bag.
- Saddlebags.
- Tensioning strap.

Design.

- Plastic hump cover (in body finish).
- Engine spoiler, left/right (in body finish).

Ergonomics and comfort.

- Sport windshield.
- Rider comfort seat.
- Comfort passenger seat.

Navigation and communication.

- BMW Motorrad Navigator V.
- BMW Motorrad Navigator Street.
- BMW Motorrad smartphone cradle.

- Holder for BMW Motorrad navigation system.

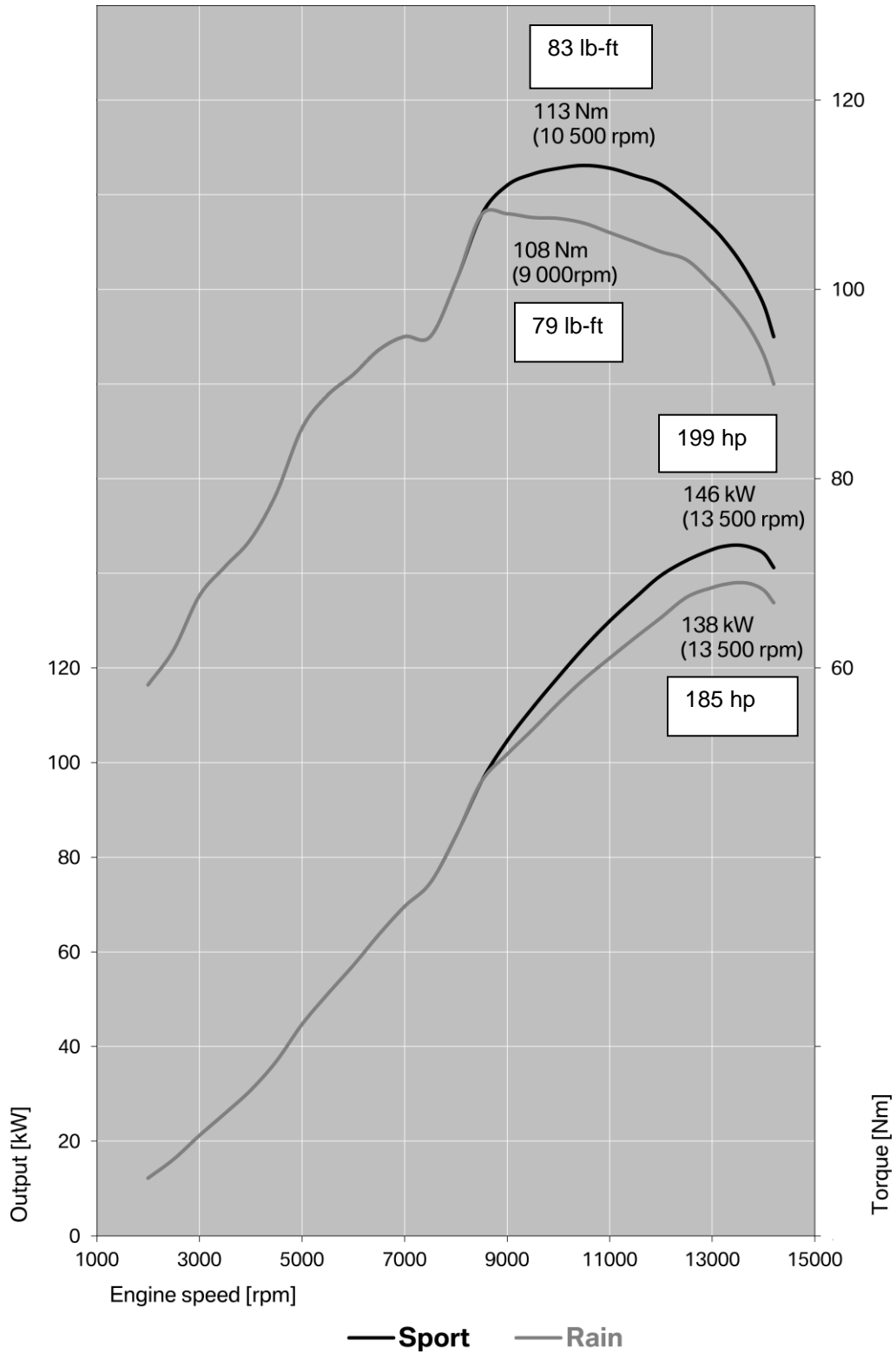
Safety.

- Brake disc lock with integrated alarm system.
- BMW Motorrad warning triangle.
- First aid set, large.
- First aid set, small.

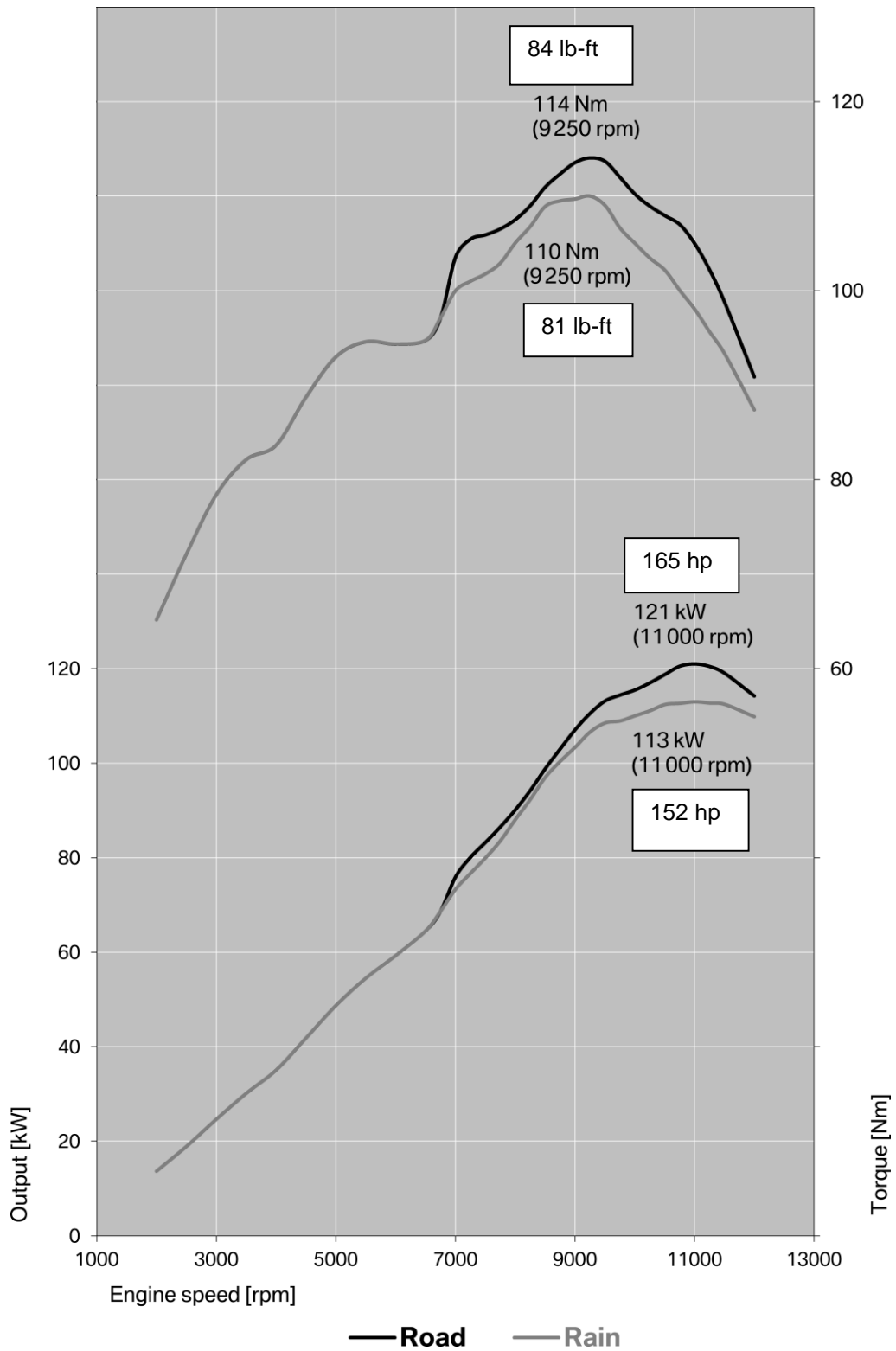
Maintenance and technology.

- Sport 2 lift workstand, front/rear.
- Swinging arm adapter for Sport 2 workstand.
- BMW Motorrad battery charger 110 V.
- Multifunction tool.
- Mini foot pump.
- Repair set for tubeless tires.
- Indoor motorcycle dust cover.
- Motorcycle all-weather cover.

Engine output and torque – BMW S 1000 RR



Engine Output and Torque – BMW S 1000 R



Technical Specifications

		S 1000 RR	S 1000 R
Engine			
Capacity	cc	999	
Bore/stroke	mm	80/49.7	
Output	kW/hp	146/199	121/165
at engine speed	rpm	13 500	11 000
Torque	Lb-ft	83	84
at engine speed	rpm	10 500	9 250
Type		Water-cooled in-line 4-cylinder engine	
Compression; fuel		13.0:1 / at least premium unleaded (95 RON)	12.0:1 / at least premium unleaded (95 RON)
Valve control		DOHC (double overhead camshaft) Valve activation via individual rocker arms	
Valves per cylinder		4	
Ø intake/outlet	mm	33.5/27.2 (1.3"/1")	
Ø throttle valve	mm	48 (1.9")	
Engine control		BMS-MP	
Emission control		Two closed-loop three-way catalytic converters	Two closed-loop three-way catalytic converters
Homologation standard		EU4	
Electrical system			
Alternator	W	406	406
Battery	V/Ah	12/9, maintenance-free	12/9, maintenance-free
Headlight		Low beam H7 12V 55W	
		High beam H7 12V 55W	
Rear light		LED brake light/rear light	
Starter	kW	0.8	
Power transmission - gearbox			
Clutch		Multi-plate anti-hopping wet clutch, mechanically activated	
Gearbox		Constant mesh 6-speed gearbox	
Primary ratio		1.652	
Gear transmission ratios	I	2.647	
	II	2.091	
	III	1.727	
	IV	1.500	
	V	1.360	
	VI	1.261	
Rear wheel drive		Chain	
Transmission ratio		2.647	
Suspension			
Frame construction type		Aluminum composite bridge frame, self-supporting engine	

		S 1000 RR	S 1000 R
Front wheel control		USD telescopic fork, fork tube diameter 46 mm, spring preload, compression and rebound stage adjustable, DDC optional	DDC optional
Rear wheel control		Aluminum double-sided swing arm with central spring strut, spring preload, adjustable compression and rebound stage, DDC optional	DDC optional
Spring travel, front/rear	in	4.7/4.7	4.7/4.7
Wheel castor	in	3.9	3.9
Wheelbase	in	56.6	56.7
Steering head angle	°	66.5	65.2
Brakes	front	Twin disc brake, floating, Ø 320 mm, radial 4-piston fixed calipers	
	rear	Single-disc brake, Ø 220 mm, single-piston floating caliper	Single-disc brake, Ø 220 mm, single-piston floating caliper
ABS		BMW Motorrad Race ABS (partial integral, disengageable), ABS Pro optional	
Traction control		DTC	BMW Motorrad ASC BMW Motorrad DTC optional
Wheels		Die-cast aluminum	
		front	3.50 x 17"
		rear	6.00 x 17"
Tires		front	120/70 ZR17
		rear	190/55 ZR17
Dimensions and weights			
Total length	in	81	81
Total width with mirrors	in	32.5	33.3
Seat height	in	32.1	32
DIN unladen weight, road ready, fully fuelled	lbs	449	452
Permitted total weight	lbs	895	897
Fuel tank capacity	g	4.6	4.6
Performance figures			
Fuel consumption (WMTC)	mpg	35	
Acceleration 0-62mph	s	3.1	
Top speed	mph	Over 125	

BMW Group In America

BMW of North America, LLC has been present in the United States since 1975. Rolls-Royce Motor Cars NA, LLC began distributing vehicles in 2003. The BMW Group in the United States has grown to include marketing, sales, and financial service organizations for the BMW brand of motor vehicles, including motorcycles, the MINI brand, and the Rolls-Royce brand of Motor Cars; Designworks, a strategic design consultancy in California; a technology office in Silicon Valley and various other operations throughout the country. BMW Manufacturing Co., LLC in South Carolina is part of BMW Group's global manufacturing network and is the exclusive manufacturing plant for all X5 and X3 Sports Activity Vehicles and X6 and X4 Sports Activity Coupes. The BMW Group sales organization is represented in the U.S. through networks of 341 BMW passenger car and BMW Sports Activity Vehicle centers, 153 BMW motorcycle retailers, 126 MINI passenger car dealers, and 36 Rolls-Royce Motor Car dealers. BMW (US) Holding Corp., the BMW Group's sales headquarters for North America, is located in Woodcliff Lake, New Jersey.

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