

8. Technical specifications.



	F 900 R	F 900 XR
Engine		
Capacity	cc	895
Bore/stroke	mm	86/77
Output	kW/hp	77/105
at engine speed	rpm	8,500
Torque	Nm	92
at engine speed	rpm	6,500
Type	Water-cooled 2-cylinder 4-stroke in-line engine, four valves per cylinder activated by cam followers, two overhead camshafts and dry sump lubrication	
Compression		13.1/11
Fuel		Premium unleaded 95 RON
Valve control		DOHC (double overhead camshaft), cam followers
Valves per cylinder		4
Ø intake/outlet	mm	33.5/27.2
Ø throttle valve	mm	48
Engine control		BMS-M
Emission control		Closed-loop three-way catalytic converter, exhaust standard EU-5
Electrical system		
Alternator	W	416
Battery	V/Ah	12/12, maintenance-free
Headlamp		LED headlights (low and high beam) (Headlight Pro option: LED daytime riding light and Adaptive Cornering Light)
Rear light		LED brake light/rear light
Indicators		LED turn indicators
Starter	kW	0.9
Power transmission		
Clutch		Multiplate wet clutch (anti-hopping), mechanically controlled
Gearbox		Constant-mesh 6-speed gearbox, integrated in the engine housing
Primary ratio		1.821
Gear transmission ratios	I	2.833
	II	2.067
	III.	1.600
	IV.	1.308
	V	1.103
	VI.	0.968
Secondary drive		Endless O-ring chain with jerk damping in the rear wheel hub
Secondary ratio		2.588

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Suspension			
Frame construction type		Steel bridge frame in monocoque design, load-bearing engine	
Front wheel control		USD telescopic fork Ø 43 mm	
Rear wheel control		Aluminium double-sided swinging arm, directly mounted central spring strut, hydraulically adjustable spring rest, adjustable rebound damping (option: Dynamic ESA)	
Spring travel, front/rear	mm	135/142	170/172
Wheel castor	mm	114.3	105.2
Wheelbase	mm	1,518	1,521
Steering head angle	°		60.5
Brakes	Front	Hydraulically activated twin disc brake, floating brake discs, Ø 320 mm, 4-piston radial brake calipers	
	Rear	Hydraulically activated single disc brake, Ø 265 mm, 1-piston floating caliper	
ABS		BMW Motorrad ABS as standard	
Wheels		Die-cast aluminium wheels	
	Front	3.5 x 17"	
	Rear	5.5 x 17"	
Tyres	Front	120/70 ZR 17	
	Rear	180/55 ZR 17	
Dimensions and weights			
Total length	mm	2,140	2,160
Total width not including mirrors	mm	815	860
Seat height	mm	815 (Option Lowered suspension 770) (Option Seat, low 790) (Optional Accessory Seat, high 835) (Optional Accessory Comfort seat 840) (Option Seat, extra high 865)	825 (Option Lowered suspension 775) (Option Seat, low 795) (Optional Accessory Seat, high 840) (Optional Accessory Comfort seat 845) (Optional Accessory Seat, extra high 870)
DIN unladen weight, road ready	kg	211	219
Permitted total weight	kg	430	438
Fuel tank capacity	l	13	15.5
Performance figures			
Fuel consumption (WMTC)	l/100 km		4.2
Acceleration	0-100 km/h	3.7	3.6
Top speed	km/h		>200