



## Technical specifications BMW F 450 GS.

<b>F 450 GS</b>		
<b>Engine</b>		
Displacement	cm <sup>3</sup>	420
Bore/stroke	mm	72 x 51.6
Power output	kW/hp	35/48
at engine speed	rpm	8,750
Torque	Nm	43
at engine speed	rpm	6,750
Type	Water-cooled, two-cylinder, four-stroke in-line engine with four valves per cylinder operated by rocker followers and two overhead camshafts per cylinder as well as 135-degree crankshaft journal offset	
Compression		13:1
Fuel		Premium unleaded 95 RON
Valves per cylinder		4
Ø intake/outlet	mm	29/24.3
Ø throttle valve	mm	38
Engine control		BMS-Z
Emission control	Closed-loop three-way catalytic converter, exhaust emission standard EU-5+	
<b>Electrical system</b>		
Generator	W	334
Battery	V/Ah	12/8 maintenance-free
Headlight		LED
Rear light		LED
Turn indicators		LED
Starter	W	700
<b>Power transmission</b>		
Clutch	Multi-disc wet clutch, mechanically actuated	
Transmission	Claw shift 6-speed transmission	
Primary ratio		2.025
Transmission ratios		2.765
	I	
	II	2.062
	III	1.588
	IV	1.286
	V	1.095
	VI	0.955
Secondary drive		Chain
Secondary ratio		3.43

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**F 450 GS**

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**Chassis**

Frame construction type		Steel tubular space frame, engine centrally mounted
Front wheel suspension		KYB USD telescopic fork, Ø 43 mm Rebound and compression damping adjustable for "Sport" and "GS Trophy" variants
Rear wheel suspension		Aluminum swinging arm, directly linked KYB WAD spring strut, spring base and rebound damping adjustable
Spring travel, front/rear	mm	180/180
Wheel caster	mm	115
Wheelbase	mm	1,465
Steering head angle	°	28.1
Brakes	front	Single disc brake, Brembo Ø 310 mm, 4- piston monobloc fixed caliper
	rear	Single disc brake, ByBre Ø 240 mm, 1-piston floating caliper
ABS		Standard equipment BMW Motorrad ABS Pro (lean angle optimized)
Wheels		Light alloy cast wheels
	front	2.50 x 19"
	rear	3.50 x 17"
Tires	front	100/90-19
	rear	130/80-17

**Dimensions and weights**

Total length	mm	2,161
Overall width via handlebar levers	mm	869
Seat height	mm	845
DIN unladen weight, road ready	kg	178
Permitted total weight	kg	355
Fuel tank capacity	l	14

**Performance figures**

Fuel consumption (WMTC)	l/100 km	3.8
CO2	g/km	88
Acceleration 0-100 km/h	s	5.9
Top speed	km/h	165

# Power output and torque BMW F 450 GS.

