

# Technical data.

## BMW F 800 GS, F 650 GS.

		BMW F 800 GS	BMW F 650 GS
<b>Engine</b>			
Capacity	cm <sup>3</sup>	798	
Bore/lift	mm	82/75,6	
Power	kW/HP	63/85	52/71
at engine speed	Rpm	7 500	7 000
Torque	Nm	83	75
at engine speed	rpm	5 750	4 500
No. of cylinders		2	
Compression/fuel	:1	12.0/Super unleaded (95 RON)	12.0/Normal unleaded (91 RON)
Valve/gas control		dohc (double overhead camshaft)	
Valves per cylinder		4	
Diam. inlet/outlet	mm	32/27,5	
Throttle valve diameter	mm	46	
Mixture preparation		Electronic manifold injection, engine management BMS-KP	
<b>Electrical system</b>			
Generator	W	400	
Battery	V/Ah	12/14	
Headlights/rear light	W	55 (full/dipped beam) 5 parking light	LED (braking/rear light)
Starter	kW	0.9	
<b>Power transmission/gears</b>			
Clutch		Multidisc clutch in oil bath, mechanically activated	
Gears		Dog-coupled six-gear transmission	
Primary transmission		1:1.943	
Transmission, gear stages	I	1:2.462	
	II	1:1.750	
	III	1:1.381	
	IV	1:1.174	
	V	1:1.042	
	VI	1:0.960	
Rear wheel drive		Endless-O-ring chain drive with back damping in wheel hub	
Transmission ratio		1:2.625 (16/42)	1:2.412 (17/41)
<b>Chassis</b>			
Frame design		Tubular frame in steel, partly carrying the engine	
Wheel suspension, front wheel		Upside-down telescopic fork, fixed tube Ø 45 mm	Telescopic fork, fixed tube Ø 43 mm
Wheel suspension, rear wheel		Double-strut swing arm, aluminium cast in one piece	
Spring travel front/rear	mm	230/215	180/170
Castor	mm	117	97
Wheel spacing	mm	1578	1575
Steering head angle	°	64.0	64.0
Brakes	front	Double-disc brake Ø 300 mm	Single-disc brake Ø 300 mm
	rear	Single-disc brake Ø 265 mm	Single-disc brake Ø 265 mm
		on request: BMW Motorrad ABS, disconnectable	
Wheels		Spoked wheels with aluminium rims	Cast aluminium wheels
	front	2.15x21	2.50x19
	rear	4.25x17	3.50x17
Tyres	front	90/90-21 54 V	110/80-R19 59 H
	rear	150/70-R17 69 V	140/80-R17 69 H
<b>Dimensions and weights</b>			
Total length	mm	2 320	2280
Total width with mirrors	mm	945	890
Total width without mirrors	mm	870	845
Seat height	mm	880 (SA 850)	820 (SA 790)
Dry weight	kg	178	171
DIN tare, ready to drive	kg	207	199
Perm. total weight	kg	443*	436*
Tank capacity	l	16	16
<b>Travel data</b>			
Fuel consumption	90 km/h l/100 km	3,8	3,7
	120 km/h l/100 km	5,2	5,2
Acceleration	0–100 km/h s	4,1	4,3
Maximum speed	km/h	over 200	189

\*with lowering kit: payload 150 kg