

Technical specifications.

BMW G 450 X.

		BMW G 450 X	BMW G 450 X
Engine			
Capacity	cc	449,5	
Bore/stroke	mm	98/59,6	
Output	kW/bhp	ECE 30/40,8	With coded plug 38/51,7
at engine Speed	rpm	7 000	9 000
Torque	Nm	42,8	44
at engine Speed	rpm	6 500	7 800
Type		Water cooled single-cylinder engine	
Compression/fuel		12:1/ premium unleaded (95 RON)	
Valve actuation		DOHC (double overhead camshaft), intake: rocker arms, outlet: bucket tappets	
Valves per cylinder	mm	4	
Ø intake/outlet	mm	32/27,5	
Throttle valve diameter	mm	46	
Carburetion		Electronic manifold injection, Keihin digital engine management	
Emission control		Fully controlled three-way catalytic converter	
Electrical System			
Alternator	W	280	
Battery	V/Ah	12/7	
Headlight		Low-/high beam: Halogen12V/35W	
Rear light		Brake-/rear light: LED	
Starter	kW	0,45	
Power transmission - gearbox			
Clutch		Multiple disc clutch in oil bath, primary clutch sits directly on the crankshaft, mechanically operated	
Gearbox		Claw-shifted five-speed gearbox built into crankcase	
Primary ratio		2,618	
Gear transmission ratio	I	2,462	
	II	1,706	
	III	1,350	
	IV	1,043	
	V	0,88	
Rear wheel drive		Chain	
Transmission ratio		2,625	2,412
Chassis			
Frame construction type		Steel bridge frame	
Suspension, front		Marzocchi upside-down telescopic fork, diameter on fork inner tube 45mm	
Suspension, rear		Die-cut aluminium double swing arm	
Spring strut		Öhlins hydraulic strut	
Spring travel, front/rear	mm	300/320	
Wheel castor	mm	118,8	
Wheelbase	mm	1 475	
Steering head angle	°	61,8	
Brakes	front	Hydraulically actuated single disc brake, Ø 260mm, double piston floating calliper	
	rear	Hydraulically actuated single disc brake, Ø 220 mm, single piston floating calliper	
Wheels		Spoked wheels	
	front	1,60 x 21"	
	rear	2,15 x 18"	
Tyres	front	90/90-21	
	rear	140/80-18	
Dimensions and weights			
Total length	mm	2 200	
Total width	mm	813	
Seat height (without rider)	mm	955	
Dry weight	kg	111	
DIN unladen weight, ready for road	kg	121	
Permitted total weight	kg	280	
Fuel tank capacity	l	ECE 8 US-Version 7	
Performance figures			
Fuel consumption			
90 km/h	l/100 km	4,5	
120 km/h	l/100 km	6,6	
Max. speed	km/h	ca. 145	

Technical specifications.

BMW G 650 GS.

		BMW G 650 GS
Engine		
Capacity	cc	652
Bore/stroke	mm	100/83
Output	kW/bhp	35/48
at engine Speed	rpm	6 500
Torque	Nm	60
at engine Speed	rpm	5 000
Type		Water cooled single-cylinder engine
Compression/fuel		11,5:1/ regular unleaded (91 RON)
Valve actuation		DOHC (double overhead camshaft), bucket tappets
Valves per cylinder		4
Ø intake/outlet	mm	36/31
Throttle valve diameter	mm	43
Carburetion		Electronic manifold injection, engine management BMS-C II
Emission Control		Fully controlled three-way catalytic converter
Electrical System		
Alternator	W	400
Battery	V/Ah	12/12
Headlight		High-/low beam: Halogen12V/55W
Rear light		Brake light: 12V/21W, rear light: 12V/5W
Starter	kW	0,9
Power transmission - gearbox		
Clutch		Multidisc oil bath clutch, mechanically actuated
Gearbox		Claw-shifted five-speed gearbox
Primary ratio		1,946
Gear transmission ratio	I	2,750
	II	1,750
	III	1,313
	IV	1,045
	V	0,875
Rear wheel drive		Chain
Transmission ratio		2,938
Chassis		
Frame construction type		Steel bridge frame with bolt-on framework tail
Suspension, front		Telescopic forks with form stabiliser
Suspension, rear		Boxed dual swing arm of steel sections, central spring strut actuation via lever system
Spring travel, front/rear	mm	170/165
Wheel castor	mm	113
Wheelbase	mm	1 477
Steering head angle	°	61,9
Brakes	front	Hydraulically actuated single disc brake, Ø 300 mm, floating two-calliper brake
	rear	Hydraulically actuated single disc brake, Ø 240 mm, floating single-calliper brake
ABS		BMW Motorrad ABS, ON/OFF (optional equipment)
Wheels		Cast aluminium wheels
	front	2,50 x 19"
	rear	3,50 x 17"
Tyres	front	110/80 R19
	rear	140/80 R 17
Dimensions and weights		
Total length	mm	2 165
Total width with/without mirrors	mm	920 / 886
Seat height (without rider)	mm	780 (optional equipment: 750)
DIN unladen weight, ready for road	kg	192
Permitted total weight	kg	380
Fuel tank capacity	l	14
Performance figures		
Fuel consumption		
90 km/h	l/100 km	3,2
120 km/h	l/100 km	4,3
Acceleration		
0-100 km/h	s	5,7
Max. speed	km/h	170

Technical specifications.

BMW F 800 GS. BMW F 650 GS.

		BMW F 800 GS	BMW F 650 GS
Engine			
Capacity	cc	798	
Bore/stroke	mm	82/75,6	
Output	kW/bhp	63/85	52/71
at engine Speed	rpm	7 500	7 000
Torque	Nm	83	75
at engine Speed	rpm	5 750	4 500
Type	Water cooled straight two-cylinder engine		
Compression/fuel	12,0:1/ premium unleaded (95 RON)		12,0:1/ regular unleaded (91 RON)
Valve actuation	DOHC (double overhead camshaft), rocker arms		
Valves per cylinder	4		
Ø intake/outlet	mm	32/27,5	
Throttle valve diameter	mm	46	
Carburetion	Electronic manifold injection, engine management BMS-KP		
Emission control	Fully controlled three-way catalytic converter		
Electrical System			
Alternator	W	400	
Battery	V/Ah	12/14, maintenance-free	
Headlight	High-/low beam: Halogen 12V/55W		
Rear light	Brake-/rear light: LED		
Starter	kW	0,9	
Power transmission - gearbox			
Clutch	Multidisc oil bath clutch, mechanically actuated		
Gearbox	Claw-shifted six-speed gearbox		
Primary ratio	1,943		
Gear transmission ratio	I	2,462	
	II	1,750	
	III	1,381	
	IV	1,174	
	V	1,042	
	VI	0,960	
Rear wheel drive	Chain		
Transmission ratio	2,625		2,412
Chassis			
Frame construction type	Tubular steel frame, load-bearing power unit		
Suspension, front	Upside-down telescopic fork, fixed tube Ø 45mm		Telescopic fork, fixed tube Ø 43 mm
Suspension, rear	Double-strut swing arm, aluminium cast in one piece		
Spring travel, front/rear	mm	230/215	180/170
Wheel castor	mm	117	97
Wheelbase	mm	1 578	1 575
Steering head angle	°	64,0	64,0
Brakes	front	Hydraulically actuated double-disc brake; Ø 300 mm	Hydraulically actuated single-disc brake, Ø 300 mm
	rear	Hydraulically actuated single-disc brake; Ø 265 mm	Hydraulically actuated single-disc brake Ø 265 mm
	BMW Motorrad ABS, ON/OFF (optional equipment)		
Wheels	Spoked wheels with aluminium rims		Aluminium cast 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
Dimensions and weights			
Total length	mm	2 320	2 280
Total width with/without mirrors	mm	945/870	890/845
Seat height (without rider)	mm	880 (optional equipment: 850)	820 (optional equipment 790)
Dry weight	kg	185	179
DIN unladen weight, ready for road	kg	207	199
Permitted total weight	kg	443*	436*
Fuel tank capacity	l	16	16
Performance figures			
Fuel consumption	90 km/h	l/100 km	3,8
	120 km/h	l/100 km	5,2
Acceleration	0-100 km/h	s	4,1
Max. speed	km/h		>200

*with lowering kit: payload 150 kg

Technical specifications.

BMW F 800 R.

		BMW F 800 R
Engine		
Capacity	cc	798
Bore/stroke	mm	82/75,6
Output	kW/bhp	64/87
at engine Speed	rpm	8 000
Torque	Nm	86
at engine Speed	rpm	6 000
Type	Water cooled straight two-cylinder engine	
Compression/fuel	12,0:1/ premium unleaded (95 RON)	
Valve actuation	DOHC (double overhead camshaft), rocker arms	
Valves per cylinder	4	
Ø intake/outlet	mm	32/27,5
Throttle valve diameter	mm	46
Carburetion	Electronic manifold injection, engine management BMS-KP	
Emission control	Fully controlled three-way catalytic converter	
Electrical System		
Alternator	W	400
Battery	V/Ah	12/14, maintenance-free
Headlight	High-/low beam: Halogen 12V/55W	
Rear light	Brake light: 12V/21W, rear light: 12V/5W	
Starter	kW	0,9
Power transmission - gearbox		
Clutch	Multidisc oil bath clutch, mechanically actuated	
Gearbox	Claw-shifted six-speed gearbox	
Primary ratio	1,943	
Gear transmission ratio	I	2,462
	II	1,750
	III	1,381
	IV	1,227
	V	1,130
	VI	1,042
Rear wheel drive	Chain	
Transmission ratio	2,35	
Chassis		
Frame construction type	Aluminium bridge frame, load bearing power unit	
Suspension, front	Telescopic fork, Ø 43 mm	
Suspension, rear	Cast aluminium double-sided swing arm, central suspension strut, spring pre-tension by means of hand wheel, hydraulically adjustable at continuously variable levels, rebound stage adjustable	
Spring travel, front/rear	mm	125/125
Wheel castor	mm	90,7
Wheelbase	mm	1 514
Steering head angle	°	65
Brakes	front	Hydraulically actuated double disc brake, floating brake discs, Ø 320 mm, 4-piston fixed caliper
	rear	Hydraulically actuated single disc brake, Ø 265 mm, single piston floating caliper
ABS	BMW Motorrad ABS (optional equipment)	
Wheels	Aluminium cast wheels	
	front	3,50 x17"
	rear	5,50 x17"
Tyres	front	120/70 ZR 17
	rear	180/55 ZR 17
Dimensions and weights		
Total length	mm	2 121
Total width (with mirrors)	mm	905
Total height	mm	1155
Seat height (without rider)	mm	800 (optional equipment: 775, 825)
Dry weight	kg	177
DIN unladen weight, ready for road	kg	199
Permitted total weight	kg	405
Fuel tank capacity	l	16
Performance figures		
Fuel consumption		
90 km/h	l/100 km	3,6
120 km/h	l/100 km	4,8
Acceleration		
0-100 km/h	s	3,9
0-1000 m	s	23,5
Max. speed	km/h	> 200

Technical specifications.

BMW F 800 ST.

		BMW F 800 ST
Engine		
Capacity	cc	798
Bore/stroke	mm	82/75,6
Output	kW/bhp	62,5/85
at engine Speed	rpm	8 000
Torque	Nm	86
at engine Speed	rpm	5 800
Type	Water cooled straight two-cylinder engine	
Compression/fuel	12,0:1/ premium unleaded (95 RON)	
Valve actuation	DOHC (double overhead camshaft), rocker arms	
Valves per cylinder	4	
Ø intake/outlet	mm	32/27,5
Throttle valve diameter	mm	46
Carburetion	Electronic manifold injection, engine management BMS-K	
Emission control	Fully controlled three-way catalytic converter	
Electrical System		
Alternator	W	400
Battery	V/Ah	12/14, maintenance-free
Headlight	High-/low beam: Halogen 12V/55W	
Rear light	Brake light 12V/21W, rear light: 12V/5W	
Starter	kW	0,9
Power transmission - gearbox		
Clutch	Multidisc oil bath clutch, mechanically actuated	
Gearbox	Claw-shifted six-speed gearbox	
Primary ratio	1,934	
Gear transmission ratio	I	2,462
	II	1,750
	III	1,381
	IV	1,174
	V	1,042
	VI	0,960
Rear wheel drive	Toothed belt drive,	
Transmission ratio	2,353	
Chassis		
Frame construction type	Aluminium bridge frame, load bearing power unit	
Suspension, front	Telescopic fork, Ø 43 mm	
Suspension, rear	Aluminium single-sided swing arm	
Spring travel, front/rear	mm	140/140
Wheel castor	mm	94,6
Wheelbase	mm	1466
Steering head angle	°	63,8
Brakes	front	Hydraulically actuated double disc brake Ø 320 mm
	rear	Hydraulically actuated Single disc brake Ø 265 mm
		BMW Motorrad ABS (optional equipment)
Wheels	Cast aluminium wheels	
	front	3,5x17"
	rear	5,5x17"
Tyres	front	120/70-ZR17
	rear	180/55-ZR17
Dimensions and weights		
Total length	mm	2 195
Total width with/without mirrors	mm	860/797
Seat height (without rider)	mm	820 (optional equipment: 790)
Dry weight	kg	187
DIN unladen weight, ready for road	kg	209
Permitted total weight	kg	405
Fuel tank capacity	l	16
Performance figures		
Fuel consumption		
90 km/h	l/100 km	3,4
120 km/h	l/100 km	4,4
Acceleration		
0-100 km/h	s	3,7
Max. speed	km/h	>200

Technical specifications.

BMW R 1200 R. BMW R 1200 R Classic.

		BMW R 1200 R	BMW R 1200 R Classic
Engine			
Capacity	cc	1 170	
Bore/stroke	mm	101/73	
Output	kW/bhp	81/109	
at engine Speed	rpm	7 750	
Torque	Nm	119	
at engine Speed	rpm	6 000	
Type		Air cooled two-cylinder boxer engine	
Compression/fuel		12,0:1 premium unleaded (95-98 ROZ)	
Valve actuation		DOHC (double overhead camshaft), rocker arms	
Valves per cylinder		4	
Ø intake/outlet	mm	39/33	
Carburetion		Electronic manifold injection, engine management BMS-K+	
Emission control		Fully controlled three-way catalytic converter	
Electrical System			
Alternator	W	720	
Battery	V/Ah	12/14, maintenance-free	
Headlight		High-/low beam:Halogen 12V/55W	
Rear light		Brake-/rear light: LED	
Starter	kW	1,2	
Power transmission - gearbox			
Clutch		Single disc dry clutch, hydraulically actuated	
Gearbox		Claw-shifted six-speed gearbox	
Primary ratio		1,737	
Gear transmission ratio	I	2,375	
	II	1,696	
	III	1,296	
	IV	1,065	
	V	0,939	
	VI	0,848	
Rear wheel drive		Cardan drive shaft	
Transmission ratio		2,75	
Chassis			
Frame construction type		Steel tubular space frame, load bearing power unit	
Suspension, front		BMW Telelever	
Suspension, rear		BMW Paralever	
Spring travel, front/rear	mm	120/140	
Wheel castor	mm	119,1	
Wheelbase	mm	1495	
Steering head angle	°	62,9	
Brakes	front	Hydraulically actuated double disc brake, Ø 320 mm, radial fixed four-calliper brake	
	rear	Hydraulically actuated Single disc brake, Ø 265 mm, floating two-calliper brake	
		BMW Motorrad Integral ABS (partially integral, optional equipment)	
Wheels		Cast light alloy wheels	wire spoke wheels
	front	3,50 x 17"	
	rear	5,50 x 17"	
Tyres	front	120/70-ZR 17	
	rear	180/55-ZR 17	
Dimensions and weights			
Total length	mm	2145	
Total width with/without mirrors	mm	906/845	
Seat height (without rider)	mm	800 (optional equipment: 830, 760, 750)	
DIN unladen weight, ready for road	kg	223	
Permitted total weight	kg	450	
Fuel tank capacity	l	18	
Performance figures			
Fuel consumption			
90 km/h	l/100 km	4,1	
120 km/h	l/100 km	5,5	
Acceleration			
0-100 km/h	s	3,5	
Max. speed	km/h	> 200	

Technical specifications.

BMW R 1200 GS. BMW R 1200 GS Adventure.

		BMW R 1200 GS	BMW R 1200 GS Adventure
Engine			
Capacity	cc	1 170	
Bore/stroke	mm	101/73	
Output	kW/bhp	81/110	
at engine Speed	rpm	7 750	
Torque	Nm	120	
at engine Speed	rpm	6 000	
Type		Air cooled two-cylinder boxer engine	
Compression/fuel		12,0:1 premium unleaded 95-98 RON, max output with 98 RON, (optional 91 RON)	
Valve actuation		DOHC (double overhead camshaft), rocker arms	
Valves per cylinder		4	
Ø intake/outlet	mm	39/33	
Throttle valve diameter	mm	50	
Carburetion		Electronic manifold injection, engine management BMS-K+	
Emission control		Fully controlled three-way catalytic converter	
Electrical System			
Alternator	W	720	
Battery	V/Ah	12/14, maintenance-free	
Headlight		High-/low beam: 12V/55W Halogen	
Rear light		Break-/rear light: LED	
Starter	kW	1,1	
Power transmission - gearbox			
Clutch		Single disc dry clutch, Ø 180 mm, hydraulically actuated	
Gearbox		Claw-shifted six-speed gearbox	
Primary ratio		1,737	
Gear transmission ratio	I	2,375	Optional equipment: 2,600
	II	1,696	
	III	1,296	
	IV	1,065	
	V	0,939	
	VI	0,848	
Rear wheel drive		Cardan drive shaft	
Transmission ratio		2,91	
Chassis			
Frame construction type		Tubular steel frame, load-bearing power unit	
Suspension, front		BMW Telelever	
Suspension, rear		BMW Paralever	
Spring travel, front/rear	mm	190/200	210/220
Wheel castor	mm	101	88,7
Wheelbase	mm	1507	1 510
Steering head angle	°	64,3	65,2
Brakes	front	Hydraulically actuated double disc brake, Ø 305 mm	
	rear	Hydraulically actuated single disc brake, Ø 265 mm	
Wheels		BMW Motorrad Integral ABS (partially integral, optional equipment)	
		Cast light alloy wheels	
	front	2,5 x 19"	
	rear	4,0 x 17"	
Tyres	front	110/80 R 19	
	rear	150/70 R 17	
Dimensions and weights			
Total length	mm	2 210	2 240
Total width mirrors	mm	940	990
Seat height (without rider)	mm	850/870	890/910
Dry weight	kg	203	223
DIN unladen weight, ready for road	kg	229	256
Permitted total weight	kg	440	475
Fuel tank capacity	l	20	33
Performance figures			
Fuel consumption			
90 km/h	l/100 km	4,3	4,6
120 km/h	l/100 km	5,5	6,1
Acceleration			
0-100 km/h	s	3,7	3,95
Max. speed	km/h	>200	>200

Technical specifications.

BMW R 1200 RT.

		BMW R 1200 RT
Engine		
Capacity	cc	1170
Bore/stroke	mm	101/73
Output	kW/bhp	81/110
at engine Speed	rpm	7500
Torque	Nm	120
at engine Speed	rpm	6000
Type	Air cooled two-cylinder boxer engine	
Compression/fuel	12,0:1 premium unleaded 95-98 RON, max output with 98 RON	
Valve actuation	DOHC (double overhead camshaft), rocker arms	
Valves per cylinder	4	
Ø intake/outlet	mm	39/33
Throttle valve diameter	mm	50
Carburetion	Electronic manifold injection, engine management BMS-K+	
Emission control	Fully controlled three-way catalytic converter	
Electrical System		
Alternator	W	720
Battery	V/Ah	12/19, maintenance-free
Headlight	High-/low beam: Halogen 12V/55W	
Rear light	Brake-/rear light: 12V/21W	
Starter	kW	1,2
Power transmission - gearbox		
Clutch	Single disc dry clutch, Ø 180 mm, hydraulically actuated	
Gearbox	Claw-shifted six-speed gearbox	
Primary ratio	1,737	
Gear transmission ratio	I	2,375
	II	1,696
	III	1,296
	IV	1,065
	V	0,939
	VI	0,848
Rear wheel drive	Cardan drive shaft	
Transmission ratio	2,62	
Chassis		
Frame construction type	Tubular steel frame, load-bearing power unit	
Suspension, front	BMW Telelever	
Suspension, rear	BMW Paralever	
Spring travel, front/rear	mm	120/135
Wheel castor	mm	109,9
Wheelbase	mm	1485,6
Steering head angle	°	63,4
Brakes	front	Hydraulically actuated double disc brake, Ø 305 mm
	rear	Hydraulically actuated single disc brake, Ø 265 mm
		BMW Motorrad Integral ABS (partially integral, standard)
Wheels	Cast light alloy wheels	
	front	3,5 x 17"
	rear	5,0 x 17"
Tyres	front	120/70 ZR 17
	rear	180/55 ZR 17
Dimensions and weights		
Total length	mm	2230
Total width with mirrors	mm	905
Seat height (without rider)	mm	Standard: 820-840 / optional: 780-800 optional lowered, 750 special equipment extra-low seat, 765 special equipment comfort seat, 785
DIN unladen weight, ready for road	kg	259 (without panniers)
Dry weight	kg	229
Permitted total weight	kg	495
Fuel tank capacity	l	25
Performance figures		
Fuel consumption		
90 km/h	l/100 km	4,1
120 km/h	l/100 km	5,2
Acceleration		
0-100 km/h	s	3,8
Max. speed	km/h	>200

Technical specifications.

BMW HP2 Sport.

		BMW HP2 Sport
Engine		
Capacity	cc	1 170
Bore/stroke	mm	101/73
Output	kW/bhp	98/133
at engine Speed	rpm	8.750
Torque	Nm	115
at engine Speed	rpm	6 000
Type	Air cooled two-cylinder boxer engine	
Compression/fuel	12,5:1 / premium plus unleaded (98 RON)	
Valve actuation	DOHC (double overhead camshaft), rocker arms	
Valves per cylinder	4	
Ø intake/outlet	mm	39/33
Throttle valve diameter	mm	52
Carburetion	Electronic manifold injection, engine management BMS-K+	
Emission control	Fully controlled three-way catalytic converter	
Electrical System		
Alternator	W	480
Battery	V/Ah	12/12, maintenance-free
Headlight	High-/low beam: Halogen 12V/55W	
Rear light	Brake-/rear light: LED	
Starter	kW	1,2
Power transmission - gearbox		
Clutch	Single disc dry clutch, Ø 180 mm, hydraulically actuated	
Gearbox	Claw-shifted six-speed gearbox	
Primary ratio	1,734	
Gear transmission ratio	I	2,176
	II	1,625
	III	1,296
	IV	1,065
	V	0,939
	VI	0,848
Rear wheel drive	Cardan drive shaft	
Transmission ratio	2,75	
Chassis		
Frame construction type	Main frame and front frame made of steel tube, rear frame and front fairing self-supporting CFK, load bearing power unit	
Suspension, front	BMW Telelever	
Suspension, rear	BMW Paralever	
Spring travel, front/rear	mm	105/120
Wheel castor	mm	86
Wheelbase	mm	1 487
Steering head angle	°	66
Brakes	front	Hydraulically actuated double disc brake, Ø 320 mm
	rear	Hydraulically actuated single disc brake, Ø 265 mm
		BMW Motorrad ABS (optional equipment)
Wheels	Light metal forged wheel	
	front	3,50 x 17"
	rear	6,00 x 17"
Tyres	front	120/70 ZR 17
	rear	190/55 ZR 17
Dimensions and weights		
Total length	mm	2 135
Total width	mm	750 on slip pad
Lenkerbreite	mm	700
Seat height (without rider)	mm	830
Dry weight	kg	178
DIN unladen weight, ready for road	kg	199
Permitted total weight	kg	330
Fuel tank capacity	l	16
Performance figures		
Acceleration		
0-100 km/h	s	<3,1
Max. speed	km/h	>200

Technical specifications.

BMW K 1300 S.

		BMW K 1300 S
Engine		
Capacity	cc	1 293
Bore/stroke	mm	80/64,3
Output	kW/bhp	129/175
at engine Speed	rpm	9 250
Torque	Nm	140
at engine Speed	rpm	8 250
Type	Water cooled straight 4-cylinder engine	
Compression/fuel	13,0:1/premium plus unleaded, (98 RON); automatic knock control also allowing the use of premium unleaded down to 95 RON	
Valve actuation	DOHC (double overhead camshaft), rocker arms	
Valves per cylinder	4	
Ø intake/outlet	mm	32/27,5
Throttle valve diameter	mm	46
Carburetion	Electronic fuel injection, digital motor electronics with integrated knock control ,BMS-K	
Emission control	Fully controlled three-way catalytic converter	
Electrical System		
Alternator	W	580
Battery	V/Ah	12/14, maintenance-free
Headlight	High-/low beam: Halogen 12V/55W	
Rear light	Brake-/rear light: LED	
Starter	kW	0,7
Power transmission - gearbox		
Clutch	Multidisc clutch in oil bath, hydraulically actuated	
Gearbox	Claw-shifted six-speed gearbox	
Primary ratio	1,559	
Gear transmission ratio	I	2,398
	II	1,871
	III	1,525
	IV	1,296
	V	1,143
	VI	1,015
Rear wheel drive	Cardan drive shaft	
Transmission ratio	2,82	
Chassis		
Frame construction type	Aluminium bridge frame, load bearing power unit	
Suspension, front	BMW Motorrad Duolever, central spring strut	
Suspension, rear	Cast aluminium single swing arm with BMW Motorrad Paralever; central spring strut with lever system, spring pre-tension adjustable infinitely by hand wheel in a hydraulic process, rebound damping adjustable	
Spring travel, front/rear	mm	115/135
Wheel castor	mm	104,4
Wheelbase	mm	1 585
Steering head angle	°	60,4
Brakes	front	Hydraulically actuated double-disc brake, floating brake discs, Ø 320 mm, four-piston fixed calliper
	rear	Hydraulically actuated single-disc brake, Ø 265 mm, double-piston floating calliper BMW Motorrad Integral ABS (partially integral, standard)
Wheels	Cast aluminium wheels	
	front	3,50 x 17"
	rear	6,00 x 17"
Tyres	front	120/70 ZR 17
	rear	190/55 ZR 17
Dimensions and weights		
Total length	mm	2 182
Total width with mirrors	mm	905
Seat height (without rider)	mm	820 (optional equipment: 790)
DIN unladen weight, ready for road	kg	254
Permitted total weight	kg	460
Fuel tank capacity	l	19
Performance figures		
Fuel consumption		
90 km/h	l/100 km	4,7
120 km/h	l/100 km	5,3
Acceleration		
0-100 km/h	s	2,8
0-1000 m	s	19,2
Max. speed	km/h	>200

Technical specifications.

BMW K 1300 R.

		BMW K 1300 R
Engine		
Capacity	cc	1 293
Bore/stroke	mm	80/64,3
Output	kW/bhp	112/173
at engine Speed	rpm	9 250
Torque	Nm	140
at engine Speed	rpm	8 250
Type	Water cooled straight 4-cylinder engine	
Compression/fuel	13,0:1/premium plus unleaded, (98 RON); automatic knock control also allowing the use of premium unleaded down to 95 RON	
Valve actuation	DOHC (double overhead camshaft), rocker arms	
Valves per cylinder	4	
Ø intake/outlet	mm	32/27,5
Throttle valve diameter	mm	46
Carburetion	Electronic fuel injection, digital motor electronics with integrated knock control ,BMS-K	
Emission control	Fully controlled three-way catalytic converter	
Electrical System		
Alternator	W	580
Battery	V/Ah	12/14, maintenance-free
Headlight	High-/low beam: 12V/55W Halogen	
Rear light	Brake-/rear light: LED	
Starter	kW	0,7
Power transmission - gearbox		
Clutch	Multidisc clutch in oil bath, hydraulically actuated	
Gearbox	Claw-shifted six-speed gearbox	
Primary ratio	1,559	
Gear transmission ratio	I	2,398
	II	1,871
	III	1,525
	IV	1,296
	V	1,143
	VI	1,015
Rear wheel drive	Cardan drive shaft	
Transmission ratio	2,91	
Chassis		
Frame construction type	Aluminium bridge frame, load bearing power unit	
Suspension, front	BMW Motorrad Duolever, central spring strut	
Suspension, rear	Cast aluminium single swing arm with BMW Motorrad Paralever; central spring strut with lever system, spring pre-tension adjustable infinitely by hand wheel in a hydraulic process, rebound damping adjustable	
Spring travel, front/rear	mm	115/135
Wheel castor	mm	104,4
Wheelbase	mm	1 585
Steering head angle	°	60,4
Brakes	front	Hydraulically actuated double-disc brake, floating brake discs, Ø 320 mm, four-piston fixed calliper
	rear	Hydraulically actuated inle-disc brake, Ø 265 mm, double-piston floating calliper
ABS	BMW Motorrad Integral ABS (partially integral, optional equipment)	
Wheels	Cast aluminium wheels	
	front	3,50 x 17"
	rear	5,50 x 17"
Tyres	front	120/70 ZR 17
	rear	180/55 ZR 17
Dimensions and weights		
Total length	mm	2 228
Total width with mirrors	mm	856
Seat height (without rider)	mm	820 (optional equipment: 790)
DIN unladen weight, ready for road	kg	243
Permitted total weight	kg	460
Fuel tank capacity	l	19
Performance figures		
Fuel consumption		
90 km/h	l/100 km	5,0
120 km/h	l/100 km	5,8
Acceleration		
0–100 km/h	s	2,9
0–1000 m	s	19,5
Max. speed	km/h	>200

Technical specifications.

BMW K 1600 GT. BMW K 1600 GTL.

		BMW K 1600 GT	BMW K 1600 GTL
Engine			
Capacity	cc	1 649	
Bore/stroke	mm	72/67,5	
Output	kW/bhp	118/160,5	
at engine Speed	rpm	7 750	
Torque	Nm	175	
at engine Speed	rpm	5 250	
Type		Water cooled 6-cylinder in-line engine	
Compression/fuel		12.2:1 / premium unleaded (95 RON)	
Valve actuation		DOHC (double overhead camshaft), bucket tappets	
Valves per cylinder		4	
Ø intake/outlet	mm	29/24,8	
Throttle valve diameter	mm	52	
Carburetion		Electronic fuel injection, digital motor electronics BMS-X	
Emission control		Fully controlled three-way catalytic converter	
Electrical System			
Alternator	W	580	
Battery	V/Ah	12/19, maintenance-free	
Headlight		Low beam: Xenon 12V/35W High beam: Halogen 12V/35W Parking light: light rings	
Rear light		Brake-/rear light: LED	
Starter	kW	0,7	
Power transmission - gearbox			
Clutch		Multidisc clutch in oil bath, hydraulically actuated	
Gearbox		Claw-shifted six-speed gearbox, helical-toothed	
Primary ratio		1,617	
Gear transmission ratio	I	2,230	
	II	1,641	
	III	1,319	
	IV	1,101	
	V	0,926	
	VI	0,788	
Rear wheel drive		Bevel gear	
Transmission ratio		2,75	
Chassis			
Frame construction type		Main frame: chill-cast rear frame: aluminium, extruded sections	
Suspension, front		BMW Motorrad Duolever	
Suspension, rear		BMW Motorrad Paralever	
Spring travel, front/rear	mm	115/135	
Wheel castor	mm	106,4	
Wheelbase	mm	1 618	
Steering head angle	°	62,2	
Brakes	front	Hydraulically actuated double-disc brake, Ø 320mm, radial 4-piston fixed caliper	
	rear	Hydraulically actuated single-disc brake, Ø 320mm, 2-piston fixed caliper	
ABS		BMW Motorrad Integral ABS (partially integral, standard)	
Wheels		Cast aluminium wheels	
	front	3,50 x 17"	
	rear	6,00 x 17"	
Tyres	front	120/70 ZR 17	
	rear	190/55 ZR 17	
Dimensions and weights			
Total length	mm	2 324	2 489
Total width with/without mirrors	mm	1000/980	
Seat height (without rider)	mm	810-830 (SA:780-800, SZ: 750, 780)	750 (optional equipment:780, special equipment: 780/800, 810/830)
DIN unladen weight, ready for road	kg	319 (without panniers)	348 (incl. pannier, topcase)
Permitted total weight	kg	540	560
Fuel tank capacity	l	24	26,5
Performance figures			
Fuel consumption			
90 km/h	l/100 km	4,5	4,6
120 km/h	l/100 km	5,7	5,9
Acceleration			
0-100 km/h	s	3,2	3,4
0-1000 m	s	21,4	21,8
Max. speed	km/h	>200	>200

Technical specifications.

BMW S 1000 RR.

		BMW S 1000 RR
Engine		
Capacity	cc	999
Bore/stroke	mm	80/49,7
Output	kW/bhp	142/193
at engine Speed	rpm	13 000
Torque	Nm	112
at engine Speed	rpm	9 750
Type	Water cooled straight 4-cylinder engine	
Compression/fuel	13:1/min. premium unleaded (95 RON)	
Valve actuation	DOHC (double overhead camshaft) valves operated by single rocker arm beneath engine	
Valves per cylinder	4	
Ø intake/outlet	mm	33,5/27,2
Throttle valve diameter	mm	48
Carburetion	Electronic fuel injection, digital motor electronics BMS-KP	
Emission control	Fully controlled three-way catalytic converter	
Electrical System		
Alternator	W	434
Battery	V/Ah	14/10 or 12, maintenance-free
Headlight	W	High-low beam: Halogen 12V/55W
Rear light	Brake-/rear light: LED	
Starter	kW	0,8
Power transmission - gearbox		
Clutch	Multi-disc anti-hopping oil bath clutch, mechanically actuated	
Gearbox	Claw-shifted six-speed gearbox	
Primary ratio	1,652	
Gear transmission ratio	I	2,647
	II	2,091
	III	1,727
	IV	1,500
	V	1,360
	VI	1,261
Rear wheel drive	Chain	
Transmission ratio	2,588	
Chassis		
Frame construction type	Aluminium bridge frame	
Suspension, front	USD fork, fixed tube Ø 46 mm	
Suspension, rear	Double swing arm with central spring strut in spring base, adjustable inbound and rebound action	
Spring travel, front/rear	mm	120/130
Wheel castor	mm	95,9
Wheelbase	mm	1 432
Steering head angle	°	66,1
Brakes	front	Hydraulically actuated double disc brake with BMW disc mount, Ø 320 mm, radial 4-piston fixed callipers
	rear	Hydraulically actuated single disc brake, Ø 220 mm, single-piston floating calliper
ABS	BMW Motorrad Race ABS (partly integral, optional equipment)	
Wheels	Cast aluminium wheels	
	front	3,50 x 17"
	rear	6,00 x 17"
Tyres	front	120/70 ZR 17
	rear	190/55 ZR 17
Dimensions and weights		
Total length	mm	2 056
Total width with mirrors	mm	826
Seat height (without rider)	mm	820
DIN unladen weight, ready for road	kg	204 (206,5 with Race ABS)
Permitted total weight	kg	390
Fuel tank capacity	l	17,5
Performance figures		
Fuel consumption		
90 km/h	l/100 km	5,7
120 km/h	l/100 km	5,9
Acceleration		
0-100 km/h	s	2,9
0-1000 m	s	17,9
Max. speed	km/h	>200