

# Phil Hawksley's BM Bikes

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## BMW F650CS Scarver Specifications

**Start of Production** 2001

**End of Production** N/A

**Numbers Produced** N/A

**Price (2003) UK £** 5,395

**US \$** 8,690 / 9,190 with  
ABS



### Engine

Motor Type	Water cooled, single cylinder, 4 stroke
Bore x Stroke	100 x 83 mm (3.93 x 3.26 in)
Capacity	652 cc
Rated Output	50 bhp (37 KW) at 6,800 rpm (performance reduction 34 bhp (25 Kw at 6,500 rpm possible)
Max Torque	62 Nm (46 ft lb) at 5,500 rpm (performance reduction: 50 Nm (37 ft lb) at 3,500 rpm)
Compression Ratio	11.5 : 1
Valves Per Cylinder	4
Valve Control	DOHC
Mixture Control/Engine Management	Electronic intake pipe injection / BMW engine management
Emission Control	Closed loop 3 way catalytic converter
Fuel type	Unleaded regular grade fuel, minimum octane rating 91 (RON)

### Power Transmission

Clutch	Multiple disc clutch in oil bath, mechanically operated
Gearbox	Constant mesh 5 speed gearbox integrated in the crankcase
Gearbox Ratio's	2.750 / 1.750 / 1.310 / 1.050 / 0.840 : 1
Final Drive	2.94 : 1
Drive	Belt Drive with jerk damper in it's own casing

### Electrical System

Ignition	Electronic ignition
Alternator	400 W three phase alternator

Battery	12V / 12 ah
<b>Chassis</b>	
Type of Frame	Bridging frame consisting of steel profiles with integrated oil tank and rear frame fastened with screws
Front wheel suspension	Telescopic fork, stanchion diameter 41 mm, fork stabiliser
Rear wheel suspension	Die cast aluminium single side swinging arm with rear wheel axle adjustable via Excenter, central strut controlled by means of lever system
Travel Front/Rear	125 / 120 mm (4.92 x 4.72 in)
Wheels	Die cast aluminium wheels
Wheel Rims, Front	3.00 x 17
Wheel Rims, Rear	4.50 x 17
Tyres, Front	110/70 x ZR 17
Tyres, Rear	160/60 x ZR 17
Brakes, Front	Single disc brake , diameter 300 mm (11.8 in), double piston floating caliper
Brakes, Rear	Single disc brake, diameter 240 mm (9.45 in), 1 piston floating caliper
ABS	Special equipment BMW Motorrad ABS
<b>Dimensions/Weights</b>	
Length x Width x Height	2142 x 915 (inc. mirrors) x 1158 (not inc. mirrors) (84.33 x 36 x 45.59 in)
Wheel Base (in normal position)	1493 mm (58.78 in)
Seat Height	780 mm (30.7 in) (special equipment low seat height: 750 mm (29.5 in), 150 series rear tyres; special equipment high seat bench: 810 mm (31.89 in))
Castor (in normal position)	123.3
Steering Head Angle (in normal position)	86 degrees
Unladen Weight with Full Tank	187 Kg / 412 lb
Dry Weight	169.6 Kg / 373 lb
Permitted Total Weight	370 Kg / 815 lb
Payload (with standard equipment)	183 Kg / 403 lb
Fuel Consumption over 100 Km @ constant 90Kph	3.0 litres / 94 mpg / 78 mpg US
Fuel Consumption over 100 Km @ constant 120Kph	4.5 litres / 62 mpg / 52 mpg US
Useable Tank Volume	15 litres / 3.3 UK gal / 3.96 US gal
Reserve	Approx. 4.0 litres / .88 UK gal / 1.06 US gal
Maximum Speed	Approx.175 Kph / 109 mph (with

performance reduction: approx 147 Kph /  
91 mph)