

# Phil Hawksley's BM Bikes

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## BMW F650ST Specifications

**Start of Production** 1996

**End of Production** 2000

**Numbers Produced** 12,934

**Price** 11,950 DM



### Engine

Motor Type	Four-stroke vertical single cylinder engine, liquid cooled
Bore x Stroke	100 x 83 mm (3.93 x 3.26 in)
Displacement	652 cc
Max Power	48 hp (35 KW) at 6,500 rpm or 34 hp (25 Kw) at 5,700 rpm
Max Torque	57 Nm / 42 ft lb at 5,200 rpm or 48 Nm / 35 ft lb at 4,200 rpm
Compression Ratio	9.7 : 1
Valves Per Cylinder	4
Valve Control	DOHC, using chain drive, cup tappets
Carburation System	2 Mikuni constant depression carburettors, 33 mm
Engine Lubricating System	Dry sump

### Power Transmission

Clutch	Multi plate clutch in oil bath
Number of Gears	5
Gear Selection	Dog type gearbox (ratchet foot lever)
Gearbox Ratios	2.75 / 1.75 / 1.31 / 1.05 / 0.88 : 1
Rear Wheel Ratio	1 : 2.94
Bevel/Crownwheel	16 / 47 teeth

### Electrical System

Ignition System	Contact free high voltage capacitor ignition
Generator	12 V / 280 W
Starter	0.9 Kw
Spark Plugs	NGK D 8 EA

### Chassis

Type of Frame	Single loop tubular frame with bolt on trussing, engine serving as load bearing component
Front wheel suspension	Telescopic fork with hydraulic shock absorber
Rear wheel suspension	Long swinging arm with adjustable central strut
Spring Travel Front/Rear	170 / 120 mm (6.69 / 4.72 in)
Wheel Rims, Front	2.5 x 18
Wheel Rims, Rear	3.00 x 17
Tyres, Front	100/90 x 19 56
Tyres, Rear	130/80 x 17 65
Brakes, Front	Single disc brake 300 mm diameter (11.8 in)
Brakes, Rear	Single disc brake 240 mm diameter (9.45 in)

### **Dimensions/Weights**

Length x Width x Height	2160 x 880 x 1220 mm (85 x 34.64 x 48 in)
Wheel Base	1465 mm (57.67 in)
Fuel Tank Capacity	17.5 litres / 3.85 UK gal / 4.62 US gal
Unladen Weight with Full Tank	191 Kg / 420 lb
Max. Permissible Weight	371 Kg / 817 lb
Ground Clearance	155 mm (6.10 in)
Seat Height (Unladen)	785 mm (30.9 inches)
Fuel Consumption	3.8 litres 100 Km / 74 mpg / 61 mpg US
Top Speed	163 Kph / 101 mph or 145 Kph / 90 mph
Acceleration 0 - 100 Kph / 62 mph	6.2 seconds