



690 SMC – 2008 Technical Specifications**TECHNICAL FACTS AND FIGURES**

Engine Type:	single cylinder 4-stroke, OHC, four valve, liquid cooled
Cylinder:	Mahle Nikasil® coated
Exhaust:	two exhaust valves
Silencer:	SM EPA 40 CFR 205.159 x 2
Bore/Stroke:	102.0/80.0mm
Displacement:	653.7cc
Transmission:	6 gears, SM ratio
Gear Ratios:	1st-14:35 / 2nd-16:28 / 3rd-21:28 / 4th-21:23 / 5th-23:22 / 6th-23:20
Primary Drive:	36:79, straight cut spur gear
Final Drive:	16/42 (2.62:1) x-ring 520 (5/8 x 1/4) chain, 120 links (pins)
Trans Oil Viscosity:	10W/50, capacity 2100cc (includes frame reservoir)
Clutch:	multi-disc in oil bath
Clutch Actuation:	hydraulically operated
Spark Plug:	NGK DCPR 8 E (gap = 0.90mm)
Fuel:	premium fuel (92+ U.S. octane)
Fuel Capacity:	13.5 liters / 3.57 U.S. gallons
Carburetor:	Keihin EMS with EPT (electric power throttle)
Ignition:	Kokusan digital 12V-200w
Ignition Timing:	38° B.T.D.C. at 6000 rpm
Coolant:	1.0 liters 50/50 mix of antifreeze + distilled water -25 °C (-13 °F)
Frame Type:	mainframe: chromoly tubular space frame
Fork:	WP-USD Ø 48.0mm 4860 MA-PA
Fork Setting Code:	14187A07
Fork Travel:	275.0mm / 10.82"
Fork Oil Viscosity:	SAE 5 wt.
Fork Air Chamber Length:	110mm
Fork Settings:	spring: 4.4N/mm, preload: 28.0mm, comp adj: 23, rebound adj: 19
Rake Angle:	27.0°
Front Brake:	320mm / 12.6" disc, 4-piston, fixed radial caliper
Front Tire:	120/70 R 17"
Shock Absorber:	WP suspension, external adjustable compression and rebound
Shock Absorber Setting Code:	01187A02
Shock Absorber Settings:	spring: 70/260, preload: 20.0mm, comp adj: 3, rebound: 5
Rear Wheel Travel:	265mm / 10.43"
Rear Brake:	240mm / 9.44" disc, Brembo single piston caliper
Rear Tire:	160/60 R 17"
Tire Air Pressure F/R	28.0 psi/2.0 bar / 28.0 psi/2.0 bar
Seat Height:	900mm / 35.43"
Wheelbase:	1480mm ±10mm / 58.26" ±.4"
Ground Clearance:	290mm / 11.41"
Weight:	139.5 kgs / 307.5 lbs. (dry)

Specifications are subject to change without notice.