

BRUTALE

ENGINE

Type	Four cylinder, 4 stroke, 16 valve
Timing system	"D.O.H.C.", radial valve
Total displacement	1078 cm ³ (65.78 cu. in.)
Compression ratio	13:1
Starting	Electric
Bore x stroke	79,0 mm x 55,0 mm (3.1 in. x 2.2 in.)
Max. horse power - r.p.m. (at the crankshaft)	
Full power version	106 kW (144,2 HP) at 10300 r.p.m. Lim. 11600 r.p.m.
Restricted power version	73 kW (99 HP) at 8500 r.p.m. Lim. 10750 r.p.m.
Max. torque - r.p.m.	
Full power version	112 Nm (11.4 kgm) at 8100 r.p.m.
Restricted power version	103 Nm (10.5 kgm) at 5500 r.p.m.
Cooling system	Cooling with separated liquid and oil radiators
Engine management system	Magneti Marelli IAW 5SM ignition - injection integrated system with Mikuni throttle body; induction discharge electronic ignition; sequential timed "Multipoint" electronic injection
Clutch	Wet, multi - disc
Gear Box	Cassette gearbox; six speed, constant mesh
Primary drive	50/79
Gear ratio (full power version)	
First gear: Speed*	13/38 109.7 km/h (68.1 mph) at 11600 r.p.m.
Second gear: Speed*	16/34 150.8 km/h (93.6 mph) at 11600 r.p.m.
Third gear: Speed*	18/32 180.3 km/h (111.9 mph) at 11600 r.p.m.
Fourth gear: Speed*	20/30 213.7 km/h (132.7 mph) at 11600 r.p.m.
Fifth gear: Speed*	22/29 243.2 km/h (151.0 mph) at 11600 r.p.m.
Sixth gear: Speed*	19/23 265.0 km/h (164.5 mph) at 11600 r.p.m.
Final velocity ratio	15x41

ELECTRICAL EQUIPMENT

Voltage	12 V
Alternator	350 W at 5000 r.p.m.
Battery	12 V - 8.6 Ah

DIMENSIONS AND WEIGHT

Wheelbase	1430 mm (56.30 in.)
Overall length	2045 mm (80.51 in.)
Overall width	775 mm (30.51 in.)
Saddle height	830 mm (32.68 in.)
Min. ground clearance	150 mm (5.91 in.)
Trail	103,5 mm (4.07 in.)
Dry weight	190 Kg (418.9 lbs)
Fuel tank capacity	23 l (6.07 U.S. gal.)

PERFORMANCE

Maximum speed*	Full power version 265 km/h (164.5 mph) Restricted power version 245 km/h (152 mph)
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FRAME

Type	AIS Steel tubular trellis (MAG welded)
Rear swing arm pivot plates: material	Aluminium alloy

FRONT SUSPENSION

Type	"UPSIDE - DOWN" telescopic hydraulic fork with external and separated adjustment of rebound and compression damping and of spring preload
Rod dia.	50 mm (1.97 in.)
Travel on leg axis	120 mm (4.72 in.)

REAR SUSPENSION

Type	Progressive, single shock absorber with rebound damping and spring preload adjustment
Single sided swing arm: material	Aluminium alloy
Wheel travel	120 mm (4.72 in.)

BRAKES

Front brake	Double floating disc with Ø 310 mm (Ø 12.2 in.) diameter, with steel braking band and steel flange
Front brake caliper	Radial with 4 pistons - Ø 32 mm (Ø 1.26 in.)
Rear brake	Single steel disc with Ø 210 mm (Ø 8.27 in.) diameter
Rear brake caliper	With 4 pistons - Ø 25,4 mm (Ø 1.00 in.)

WHEELS

Front: Material / size	Aluminium alloy 3.50 " x 17 "
Rear: Material / size	Aluminium alloy 6.00 " x 17 "

TYRES

Front	120/70 - ZR 17 M/C (58 W)
Rear	190/55 - ZR 17 M/C (75 W)

FAIRING

Material	Thermoplastic
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* Top speed attained on closed course.