

# BRUTALE

## 1090R

### ENGINE

Type	Four cylinder, 4 stroke, 16 valve
Timing system	"D.O.H.C", radial valve;
Total displacement	1078 cm <sup>3</sup> (65.78 cu. in.)
Compression ratio	13:1
Starting	Electric
Bore x stroke	79 mm x 55mm (3.1 in. x 2.2 in.)
Max. horse power - r.p.m. (at the crankshaft)	106 kW (144,2 HP) at 10300 r.p.m. Lim. 11600 r.p.m.
Max. torque - r.p.m.	112 Nm (11.2 kgm) at 8100 r.p.m.
Cooling system	Cooling with separated liquid and oil radiators
Engine management system	Magneti Marelli 5SM ignition - injection integrated system with Mikuni throttle body; induction discharge electronic ignition; sequential timed
Clutch	"Multipoint" electronic injection Wet, multi - disc with mechanical anti-surgung device
Gear Box	Cassette gearbox; six speed, constant mesh
Primary drive	50/79
Gear ratio	
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	1438 mm (56.61 in.)
Overall length	2093 mm (82.36 in.)
Overall width	760 mm (29.92 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*	265 km/h (164.5 mph)
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### FRAME

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

### FRONT SUSPENSION

Type	"UPSIDE - DOWN" telescopic hydraulic fork with rebound-compression damping and spring preload external and separate adjustment
Rod dia.	50 mm (1.97 in.)
Travel on leg axis	130 mm (5.11 in.)

### REAR SUSPENSION

Type	Progressive, single shock absorber with rebound and compression (High speed / Low speed) 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 320 mm (Ø 12.6 in.) diameter, with steel braking band and aluminium flange
Front brake caliper	Radial-type, single-piece with 4 pistons Ø 34 mm (Ø 1.34 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	Forged aluminium alloy 3.50 " x 17 "
Rear: Material / size	Forged 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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PASTEL RED/METALLIC SILVER

PASTEL BLACK/GRAPHITE GREY

PEARL WHITE/PASTEL BLACK

\* Top speed attained on closed course.