

# BRUTALE

## R1090

### 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 55 mm (3.1 in. x 2.2 in.)
Max. horse power - r.p.m. (at the crankshaft)**	116.5 kW (156 HP) at 11900 r.p.m.
Max. torque - r.p.m.	100 Nm (10.2 kgm) at 10100 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 with mechanical anti-surgling device
Transmission	Cassette style; six speed, constant mesh
Primary drive	50/79
Gear ratio	
First gear: Speed*	13/38 107.2 km/h (66.7 mph) at 12200 r.p.m.
Second gear: Speed*	16/34 147.5 km/h (91.7 mph) at 12200 r.p.m.
Third gear: Speed*	18/32 176.3 km/h (109.5 mph) at 12200 r.p.m.
Fourth gear: Speed*	20/30 208.9 km/h (129.8 mph) at 12200 r.p.m.
Fifth gear: Speed*	22/29 237.7 km/h (147.7 mph) at 12200 r.p.m.
Sixth gear: Speed*	19/23 265.0 km/h (164.5 mph) at 12200 r.p.m.
Final drive ratio	15/43

### 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 (82.40 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	183 kg (403.5 lbs)
Fuel tank capacity	23 l (6.07 U.S. gal.)

### PERFORMANCE

Maximum speed*	265.0 km/h (164.5 mph)
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### FRAME

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

### FRONT SUSPENSION

Type	Marzocchi "UPSIDE - DOWN" telescopic hydraulic fork with rebound-compression damping and spring preload external and separated adjustment
Rod dia.	50 mm (1.97 in.)
Travel on leg axis	125 mm (4.92 in.)

### REAR SUSPENSION

Type	Progressive, Sachs 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 disc and aluminium flange
Front brake caliper	Brembo Radial-type, monobloc with 4 pistons Ø 34 mm (Ø 1.34 in.)
Rear brake	Single steel disc with Ø 210 mm (Ø 8.27 in.) dia.
Rear brake caliper	Nissin 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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### RETAIL PRICE

Price VAT included	<b>€ 18.800</b>
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AMERICA

RED/SILVER

MATT MAGNO GREY/MATT BLACK

\* Top speed attained on closed course.

\*\* Limited power versions available on demand.

Every country could have a price variation due to local import duties and taxes.