

Specifications

SUPERBIKE 996

SPECIFICATIONS

Dimensions

Total length	2030 mm
Maximum width	780 mm
Maximum height	1080 mm
Seat height	790 mm
Minimum ground clearance	150 mm

Weights

	996/S	R
Total dry weight, Kg:	198	185

Capacity

Steel tank with key-lock filler plug incorporates fuel pump and filter.

Fuel tank capacity	17 l.
Reserve	4 l.

Performance

	996/S	R
Max speed (rider only), Km/h:	260	280

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ENGINE

Main specifications	996	S	R
4-stroke "V" twin-cylinder engine.			
Bore, mm:	98	98	100
Stroke, mm:	66	66	63.5
Total cylinder displacement, sq cm:	996	996	998
Compression ratio:	9,2±0,5:1	11,5±0,5:1	11,4±0,5:1
Max power at crankshaft (95/1/CE), kW (HP):	82.3 (112)	90.4 (123)	100 (135)
at rpm:	8,500	9,500	10,200
Max torque at crankshaft (95/1/CE), Nm:	93	99	105
at rpm:	8,000	7,000	8,000
Starter:	electric starter	electric starter	electric starter

Timing system

Desmodromic timing system with four valves per cylinder operated by eight rocker arms (four opening and four closing rockers) and two overhead 4-lobe camshafts. Driven by crankshaft via spur gears, belt rollers and toothed belts.

Valves

	996/S	R
Intake valve diameter, mm:	36	40
Exhaust valve diameter, mm:	30	33

Diagramma distribuzione

Dati di rilevamento con gioco **1 mm** e tensione cinghie distribuzione con attrezzo cod. **051.2.001.1A a 11.5.**

	996	S	R
Intake valve opens (BTDC):	11°	14°	16°
Intake valve closes (ABDC):	70°	73°	60°
Exhaust valve opens (BBDC):	62°	57°	60°
Exhaust valve closes (ATDC):	18°	23°	18°

Valve lift

Measured with **0 mm** valve clearance.

Intake, mm:	9.6	10.8	11,71
Exhaust, mm:	8.74	9.8	10.13

Operating valve clearance with cold engine must be:

Upon assembly:

Opening rocker	
– Intake:	0.13÷0.18 mm
– Exhaust:	0.18÷0.23 mm
Closing rocker	
– Intake:	0.13÷0,18 mm
– Exhaust:	0.08÷0.13 mm

Upon inspection:

Opening rocker	
– Intake:	0.05÷0,18 mm
– Exhaust:	0.05÷0,23 mm
Closing rocker	
– Intake:	0.16÷0.25 mm
– Exhaust:	0.11÷0.20 mm

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Fuel system

Indirect electronic injection. **Model R** features a new throttle body which is \varnothing 54 mm in diameter.

Make:	MARELLI	
	996/S	R
– type	CPU 1.6	CPU 5.9M
– injectors per cylinder	2	1 (above throttle)

Ignition

Electronic, inductive discharge.

Spark plug make:	CHAMPION	
– type	RA 6 HC (996)	
	A 55 V (S/R)	
Electrode gap in mm:	0.5±0.6	

Lubrication

Forced-feed lubrication by gear pump, by-pass valve for pressure regulation, mesh filter on intake end, interchangeable filter cartridge on delivery end with safety valve for the event of cartridge clogging, low pressure indicator on instrument panel.

Model R is equipped with a low sump with vertical mesh filter for guaranteed priming when motorcycle is leaning at any angle.

Circuit capacity:	3.7 l.	.3,8 l.
Pump delivery:	2.6 l./min. every 1000 rpm.	

Cooling system

Liquid cooling with pressurized circuit, radiator and mixing thermostat. A centrifugal pump operated by timing shaft circulates fluid through the circuit. An expansion reservoir takes up excess coolant when it expands from heat.

Transmission

Spur gears.		
Wet multi-plate clutch hydraulically operated by control lever on LH handlebar.		
Clutch master cylinder:	PSC 12	
6-speed gearbox. Gear change pedal on LH side.		
Primary drive ratio	59/32=1.84	
Final gear ratio	15/36 (996/S)	15/35 (R)

Total gear ratios

1st	15/37
2nd	17/30
3rd	20/28
4th	22/26
5th	23/24
6th	24/23

Drive chain transmits motion from gearbox to rear wheel:

Make:	DID
Type:	525 HV
Dimensions:	5/8" 5/16"
No. of links:	102

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FRAME

High-strength steel tube upper cage trellis frame.

Steering head angle (no load):	23° 30' - 24° 30'
Steering angle (on each side):	27°
Trail:	91-97 mm
Wheelbase:	1410 mm

SUSPENSION

Front suspension

Hydraulic upside-down fork with outer adjusters for rebound and compression damping and inner springs preload adjustment. TiN-coated sliders.

Make:	SHOWA (996/S) ÖHLINS (R)
Stanchion diameter:	43 mm
Travel along leg axis:	127 mm

Rear suspension

Light-alloy single-sided swinging arm. Rear shock absorber with compression and rebound damping and spring preload adjustment.

Make:	ÖHLINS
Stroke:	71 mm
Rear wheel travel:	130 mm

BRAKES

Front brake

Drilled twin-disc.	
Material:	steel
Disc diameter:	320 mm
Disc thickness:	5 mm
Hydraulically operated by lever on RH handlebar.	
Braking surface:	88 sq cm
Brake calipers with differentiated pistons.	
Make:	BREMBO
Type:	30/34-4 pistons
Master cylinder type:	PSC 16
Friction material:	TOSHIBA TT 2802

Rear brake

Drilled steel fixed disc.	
Disc diameter:	220 mm
Hydraulically operated by pedal on RH side.	
Braking surface:	25 sq cm
Brake caliper:	BREMBO P 32 G
Master cylinder type:	PS 11
Friction material:	FERIT I/D 450 FF

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WHEELS

Light-alloy 5-spoke wheel rims.

Make: **MARCHESINI**

Front

Dimensions: **3.50x17"**

Rear

Dimensions: **5.50x17"**

Front and rear wheel spindle can be removed.

Cantilevered rear wheel fixed to rear crown hub by nut and safety clip.

TYRES

Front

Type: radial **tubeless tyre**

Size: **120/70-ZR17**

Rear

Type: radial **tubeless tyre**

Size: **190/50-ZR17**

ELECTRIC SYSTEM

Voltage: **12V**

Generator: **12V-520W**.

Electronic rectifier protected by **40 A** fuse.

Battery: **12V-16 Ah**.

Starter motor: **12V-0.7 kW**.

Electric controls on handlebar.

Horn.

Stop light switches.

Lights

Headlight is made up of:

12V-55W polyellipsoidal low beam lamp with capacitor;

12V-55W high beam lamp;

parking light with **12V-5W** lamp.

Instrument panel: warning lights **12V-1.2W**; instrument lights **12V-2W**.

Turn indicator lamps: **12V-10W**.

Tail light: **12V-5/21W** double-filament lamp for stop and parking lights; number plate light: **12V-5W**.