

TECHNICAL DATA - ENGINE 125 EXE / 125 Supermoto 2000

Engine	125 EXE
Design	Liquid-cooled single-cylinder two-stroke engine with intake and exhaust control
Piston displacement	124.8 ccm
Bore / stroke	54,0 / 54,5 mm (2.125 / 2.145 in)
Fuel	unleaded fuel with a least RON 91
Lubrication	separate lubrication
Oil / gasolin ratio	Shell Advance Ultra 2 or 2-stroke oil for a mix ratio1:50 and separate lubrication
Crankshaft bearing	2 grooved ball bearing
Connecting rod bearing	needle bearing
Piston pin bearing	needle bearing
Piston	cast light alloy
Piston ring	2 rectangular ring
Spark plug	NGK BR8 HS
Electrode gap	0.60 mm (0,024 in)
Primary drive	straight cut spur gears, primary ratio 23:73
Clutch	multiple disc clutch in oil bath, hydraulic operated (Shell HF-E15)
Transmission	6 speed, claw actuated
Gear ratio	
1st gear	12 : 33
2nd gear	15 : 31
3rd gear	17 : 28
4th gear	19 : 26
5th gear	21 : 25
6th gear	22 : 24
Gear lubrication	0.7 l gear oil SAE-80W (Shell Advance Gear EP)
Available chain sprockets	14t for chain $\frac{5}{8} \times \frac{1}{4}$ "
Coolant	0,8 litres, 40% anti freeze, 60% water, at least -25 °C (-13 °F)
Ignition system	Kokusan digital 2K-3
Generator output	12V / 110 W
Carburetor	flat-slide carburetor, carburetor setting see table
Air-filter	wet foam type air filter insert
Oil tank	tank content: 1,3 liter (0,34 US gallons)

BASIC CARBURETOR SETTING				
	125 EXE (80 km/h)	125 EXE (100km/h)	125 Supermoto (80 km/h)	125 Supermoto (100 km/h)
Carburetor	Dell'Orto PHBH 28	Dell'Orto PHBH 28	Dell'Orto PHBH 28	Dell'Orto PHBH 28
Carburetor setting number	051299	021199	051299	021199
Main jet	120	125	120	125
Idling jet	50	50	50	50
Starting jet	70	70	70	70
Jetneedle	X83	X83	X83	X83
Needle position from top	III	III	III	III
Throttle valve	40	40	40	40
Air adjustment screw top	1,25	1,25	1,25	1,25
Performance restrictor	-	-	-	-