

TECHNICAL SPECIFICATIONS CHASSIS 125 EXE / 125 SUPERMOTO 2000

	125 EXE	125 Supermoto
Frame	Central chrome-moly-steel frame	
Fork	White Power – Up Side Down 40 TA	
Wheel travel front/rear	220/260 mm (8,7/10,2 in)	
Rear suspension	WP Progressive Damping System shock absorber, aluminium swingarm	
Front brake	Disc brake with carbon-steel brake disc, brake caliper floated	
Front brake disc	Ø 260 mm (10,2 in)	Ø 320 mm (12,6 in)
Rear brake	Disc brake with carbon-steel brake disc Ø 220 mm (8.7 in), brake caliper floated	
Brake discs	Wear limit max. 0,4 mm (0,016 in)	
Front tires	3.00 - 21"	110/70 - 17"
Air pressure, driver only	1,8 bar (26 psi)	1,8 bar (26 psi)
Air pressure, driver plus passenger	2,0 bar (29 psi)	2,0 bar (29 psi)
Rear tires	4.60 - 18"	130/70 - 17"
Air pressure, driver only	2,0 bar (29 psi)	2,1 bar (30 psi)
Air pressure, driver plus passenger	2,2 bar (32 psi)	2,3 bar (33 psi)
Fuel tank capacity	11,0 liter (3 US gallons), 2,5 liter (0,6 US gallons) reserve	
Final drive ratio	14:40 t	14:38 t
Chain	O-ring 5/8 x 1/4 "	
Battery	maintenance free 12V 3Ah	
Lamps	head light	H4 12V 60/55W (socket P43t)
	parking light	12V 5W (socket W2,1x9,5d)
	cockpit light	12V 2W (socket W2x4,6d)
	stop and tail light	12V 21/5W (socket BaY15d)
	flasher	12V 10W (socket Ba15s)
Steering head angle	63°	
Wheel base	1461 ± 10 mm (57,5 ± 0,4 in)	
Seat height, unloaded	865 mm (34,0 in)	830 mm (32,7 in)
Ground clearance, unloaded	290 mm (11,4 in)	255 mm (10,0 in)
Dead-weight *	104 kg (230 lbs)	
Max. permissible front axle load	145 kg (320 lbs)	
Max. permissible rear axle load	190 kg (419 lbs)	
Max. permissible laden weight	335 kg (740 lbs)	

* Dead-weight without fuel

STANDARD ADJUSTMENT - FORK

	WP 0618T777A
Compression adjuster	10
Rebound adjuster	9
Spring	4,2 N/mm
Spring preload	10 mm (0.4 in)
Air chamber length	140 mm (5.5 in)
Capacity per fork leg	approx. 500 ccm
Fork oil	SAE 5

STANDARD ADJUSTMENT - SHOCK ABSORBER

	WP 1218T715
Compression adjuster	3
Rebound adjuster	14
Spring	PDS1-250
Spring preload	5 mm (0.2 in)

TIGHTENING TORQUES - CHASSIS 125 EXE/SM

Collar nut front wheel spindle	M 16x1,5	40 Nm (30 ft.lb)
Brake caliper front	M 8	25 Nm (19 ft.lb) +Loctite 243
Clamping screws upper fork bridge	M 8	20 Nm (15 ft.lb)
Clamping screws lower fork bridge	M 8	15 Nm (11 ft.lb)
Clamping screws fork stubs	M8	10 Nm (7 ft.lb)
Collar nut rear wheel spindle	M 20x1.5	80 Nm (59 ft.lb)
Hexagon nut swing arm bolt	M 14x1.5	100 Nm (74 ft.lb)
Collar screw handlebar clamp	M 8	20 Nm (15 ft.lb)
Allen head screw handlebar support	M 10	40 Nm (30 ft.lb) +Loctite 243
Shock absorber top	M 12	60 Nm (44 ft.lb)
Shock absorber bottom	M 12	60 Nm (44 ft.lb)
Screw adjusting ring spring preload	M 6	8 Nm (6 ft.lb)
Other screws on chassis	M 6	10 Nm (7 ft.lb)
	M 8	25 Nm (19 ft.lb)
	M 10	45 Nm (33 ft.lb)

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	-	-	-	-