

## KYMCO AK 550 Specifications

### General Information

Name (Model Code)		AK 550 (LGC6)
Overall length (mm)		2165±20
Overall width (mm)		795±20
Overall height (mm)		1400±20
Wheel base (mm)		1580±10
Engine type		4 stroke DOHC
Displacement (cc)		550
Fuel recommended		90 # nonleaded gasoline
Curb weight (kg)	Front wheel	110±4
	Rear wheel	116±4
	Total	226±4
Max. weight capacity (kg)	Front wheel	177
	Rear wheel	218
	Total	395
Tires	Front wheel	120/70-R15
	Rear wheel	160/60-R15
Ground clearance (mm)		140
Performance	Braking distance (m)	12.3m / 50 km/hr
	Min. turning radius (m)	2.7

Engine	Starting system		Starting motor	
	Type		Gasoline, 4-stroke	
	Cylinder arrangement		TWIN CYLINDER	
	Combustion chamber type		Semi-sphere	
	Valve arrangement		D.O.H.C. Chain drive	
	Bore x stroke (mm)		69 x 73.6	
	Compression ratio		11	
	Compression pressure		19 (kg/cm <sup>2</sup> )	
	Max. Horsepower		M1:53/7500 PS/rpm M2:46/7000 PS/rpm	
	Max. Torque		5.4/6000 Kg-m/rpm	
	Valve timing	Intake	Open	16° BTDC
			Close	30° ABDC
		Exhaust	Open	35° BBDC
			Close	3° ATDC
	Valve clearance (cold) (mm)	Intake	0.175	
		Exhaust	0.225	
	Idle speed (rpm)		1200 ± 100	
	Lubrication System	Lubrication type		Forced pressure & Dry sump
		Oil pump type		Inner/outer rotor type
		Oil filter type		Full-flow filtration
Oil capacity		Exchanging capacity 2.6 liter Total capacity 3.0 liter		
Cooling Type		Liquid cooling		

Fuel System	Air cleaner type & No		Paper element, wet	
	Fuel capacity		14.5 liter	
	Injection	Brand	Synerjet	
		Type	Throttle body	
		Venturi dia.(mm)	34	
Fuel pump pressure		3 Bar		
Electrical Equipment	Ignition System	Type	ECU	
		Spark plug	Spec.	CR7E (NGK)
			Gap	0.7~0.8 mm
	Battery Capacity		12V11AH	
Power Drive System	Clutch Type		Wet multi disk	
	Transmission Gear	Type	CVT	
		Operation	Automatic centrifugal type	
	Reduction Gear	Type		Two-stage reduction
		Reduction ratio	1st	0.8 ~2.4
2nd			2.659	
Moving Device	Tire type		Tubeless	
	Wheel material		Aluminum	
	Tire pressure Kgf/cm <sup>2</sup>	Front	2.35	
		Rear	2.7	
	Handle turning angle(L/R)	Left	40°	
Right		40°		
Brake system type		Front	Disc brake	
		Rear	Disc brake	
Damping Device	Suspension type	Front	Telescope Upside-down Fork	
		Rear	Swing arm	
	Shock absorber stroke	Front	120 mm	
		Rear	48 mm	
Frame type		UNDER BONE		

ENGINE		
Throttle grip free play	2 ~ 6 mm	
Spark plug	NGK: CR7E	
Spark plug gap	0.7 mm ~ 0.8 mm	
Valve clearance	IN: 0.175 mm	EX: 0.225 mm
Idle speed	1200 ± 100 rpm	
Compression ratio	11 ± 0.2	
Ignition timing	ECU	
Coolant type	Liquid cooling	
Engine oil capacity:		
At disassembly	3 Liter	
At change	2.6 Liter	

Coolant capacity:	
Radiator with cool coolant	1200 cc
Reserve tank	300 cc