

	190FE	190F Series	190S Series	190FDS
Feature	Electric Start Square Stroke	Kick Start Square Stroke	Kick Start Short Stroke	Dry Sump
Engine Type	Air-cooled 4-stroke, 4-valve SOHC, single-cylinder			Air-cooled 4-stroke, 4-valve SOHC, single-cylinder
Displacement (cm³)	187.2cc		189.9cc	187.2cc
Bore x Stroke	φ62x62mm		φ66x55.5mm	φ62x62mm
Lubrication System	Wet Sump (Splash)			Dry Sump (Pressurized)
Starting Method	Electric Starter (with Kick Backup)	Kick Start		Without (External Electric Starter / Pull Start, etc.)
Ignition System	CDI			CDI
Transmission Type	Constant Mesh, Return Shift 5 or 4-speed			No transmission (Direct crankshaft output)
Shift Pattern	5-speed (1-N2345) 4-speed (N-1234)			
Fuel	High-octane gasoline (RON 100 recommended)			High-octane gasoline (RON 100 recommended)
Compression Ratio	12.1 : 1			12.1 : 1
Max Power (Rear) (kW [PS] /rpm)	20.02ps/ 9600rpm	22.16ps/ 9500rpm	23.45ps/ 9700rpm	22.16ps/ 9500rpm *(theoretical)
Max Torque (Rear) (N・m [kgf・m] /rpm)	1.66kg・m /8000rpm	1.75kg・m /8200rpm	1.82kg・m /8200rpm	1.75kg・m /8200rpm
Applications	For motorcycles / custom use, Karting / ATV racing, etc.			For paramotors / snowmobiles / non-shifter Karing , etc.