

Difference between Petrol (S.I.) Engine and Diesel (C.I.) Engine

Particular	Four Stroke Engine	Two Stroke Engine
No. of strokes per Cycle	Four strokes required to complete one cycle	Two stroke required to complete one cycle
No. of crank rotation per cycle	Two crank rotations per cycle	One crank rotations per cycle
No. of power strokes per minute	$n = N/2$	$n = N$
Flywheel	Flywheel is heavier	Flywheel is lighter
Valves	There are two valves (i) Inlet valve (ii) Exhaust valve	There are no valves, but three ports (i) Inlet port (ii) Transfer port (iii) Exhaust port
Lubrication oil consumption	Lubrication oil consumption is less	Lubrication oil consumption is more
Thermal efficiency	Thermal efficiency is high	Thermal efficiency is low
Mechanical Efficiency	Mechanical Efficiency is low	Mechanical Efficiency is high
Size of engine for same power	This engine is heavier and require more space	This engine is lighter and require less space
Use	It is used in high power vehicles like car, bus, tractor	It is used in low power vehicles like moped, scooter, motorcycle etc.