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steam co2 motor coomber crank substitute revolving cylinder watt beam grasshopper beam unknown beam newcomen atmospheric two cylinder stirling single cylinder stirling ross yoke stirling the cycle includes four distinct processes intake compression combustion and power stroke and exhaust spark ignition gasoline and compression ignition diesel engines differ in how they supply and ignite the fuel in a spark ignition engine the fuel is mixed with air and then inducted into the cylinder during the intake process pistons the piston s function is to act as a moveable plug in the cylinder forming the bottom part of the combustion chamber there s a gas tight seal between the piston and the cylinder wall so the only way for the hot combustion gases to expand is by forcing the piston down that makes the mixture explode generating power that pushes the piston down the cylinder and through the crankshaft and gears turns the wheels you can read more about this and watch a simple animation of how 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