

Stirling Engines

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A Stirling engine is a heat engine that is operated by a cyclic compression and expansion of air or other gas (the working fluid) at different temperatures, resulting in a net conversion of heat energy to mechanical work. More specifically, the Stirling engine is a closed-cycle regenerative heat engine with a permanent gaseous working fluid. Closed-cycle, in this context, means a thermodynamic ...

~~Stirling engine - Wikipedia~~

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~~Stirling Engine Models - Kits, Ready to Run and DIY~~

The Stirling engine is a heat engine that is vastly different from the internal-combustion engine in your car. Invented by Robert Stirling in 1816, the Stirling engine has the potential to be much more efficient than a gasoline or diesel engine .

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Stirling engines are capable of reaching 50% efficiency, which far outperforms the steam engine. They are also known for their quiet, efficient operation, and benefit from being able to use almost any heat source, which is applied externally, rather than internally.

~~Stirling Engine Kits - Build Your Own Stirling Engine~~

Stirling engines are able to capture and re-use some of the heat that would otherwise be wasted by using an internal heat exchanger called a regenerator. A regenerator is anything inside the Stirling engine, usually a specifically designed part, that allows heat to be stored from one cycle and used again in the next cycle.

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The Stirling radioisotope generator (SRG) is a type of radioisotope generator based on a Stirling engine powered by a large radioisotope heater unit. The hot end of the Stirling converter reaches high temperature and heated helium drives the piston, heat being rejected at the cold end of the engine. A generator or alternator converts the motion into electricity.

~~Stirling radioisotope generator - Wikipedia~~

The Stirling Engine The Stirling engine was invented in 1816 by the Rev. Robert Stirling who sought to create a safer alternative to the steam engines, whose boilers often exploded due to the high steam pressures used and limitations of the primitive materials available at the time.

~~The Stirling Engine~~

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A Stirling engine is a hot air engine, powered by hot air rather than steam. Generally simple, easily constructed engines, they convert heat energy into mechanical energy. The air is alternatively heated and cooled, so that the expansion caused by the heating drives a piston.

~~Stirling engine model at National Museum of Scotland~~

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A Stirling engine is a heat engine that works on the basis of an external applied temperature difference. By maintaining a hot and cold temperature difference the engine is able to run and produce mechanical power.

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A Stirling engine is a specific flavor of heat engine formulated by Robert Stirling in 1816; this means it can transform the flow of heat into mechanical work (such as spinning a crankshaft).

~~Thermodynamic Theory of the Ideal Stirling Engine~~

Stirling engines (formerly referred to as steam engines) are the second tier of engine. They use cobblestone instead of wood or iron so are still cheaper than the Combustion Engine.

Previously, it had been stated that Stirling Engines would not blow up and would simply stop operating when heated too much.

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