

STIRLING ENGINE

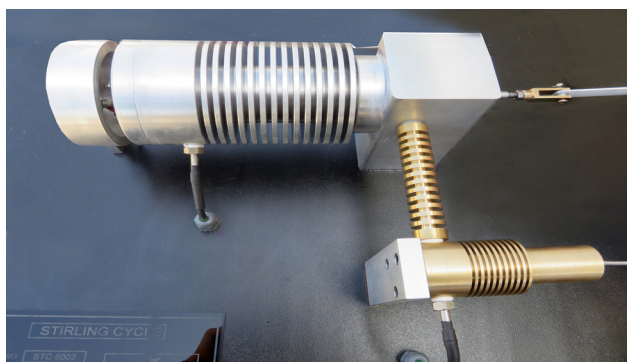
RT 057

Description:

Stirling engines are heat engines which convert heat to kinetic energy (mechanical work). There are two cylinders in this engine and its cyclic operation is based on temperature discrepancy between two cylinders. Therefore a higher rpm is achieved when there is a larger temperature difference. By calculating the power produced by the shaft torque, you can calculate the cycle output. The heater which is located at the end of the first cylinder heats up the air inside the first cylinder and results in the volume increase and forces the piston to move. By using a load cell and the weights hanging from the pulley, and also considering the number of rotations of the engine shaft, the output mechanical energy and consequently the efficiency can be calculated.

Specifications:

- Expansion (high temperature) cylinder
- The motion displacer piston cylinder
- Thermocouple type-K
- A fly wheel
- Digital force indicator system
- RPM indicator
- Different dead weights for engine load
- A flat spiral heater (0.5KW) for heating the air in the first cylinder and increasing the air volume that makes the piston move
- Installation and training video included
- Instructions manual included
- 10-year warranty



Note: Direct contact with the sales department is required to confirm the last updated technical specifications and pictures.

Applications:

1. Familiarizing with the principles of sterling cycle
2. Obtaining the system efficiency
3. Observing the effect of different loadings on the engine output and efficiency

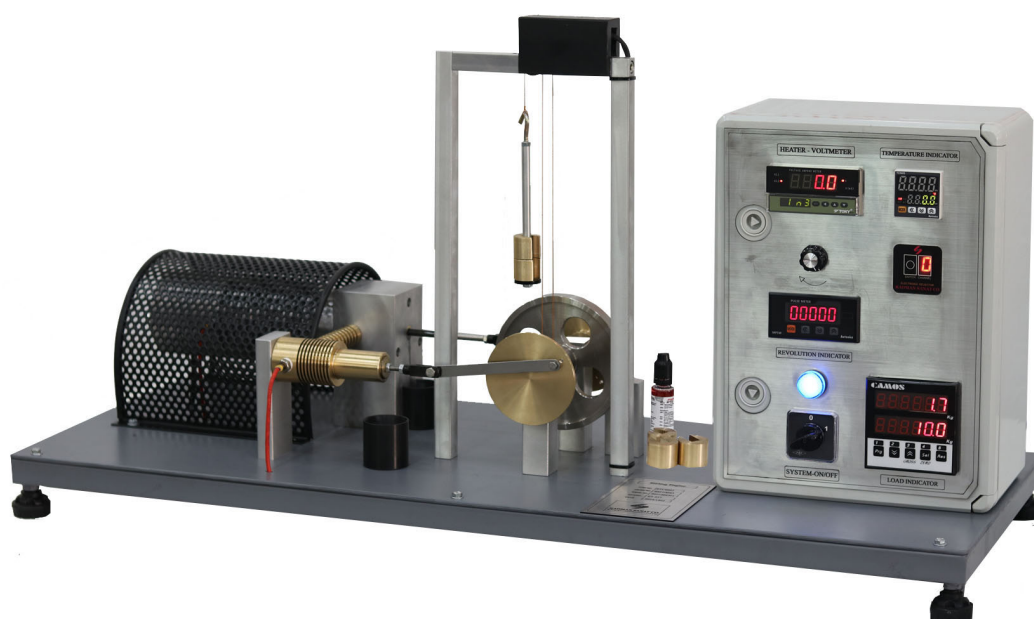
Required For Operation:

- 220 v Single Phase Electricity
- Desirable Temperature (°C): 10-30
- Relative Humidity: 15% - 80%



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Dimensions (L*W*H) mm:1250×500×450

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