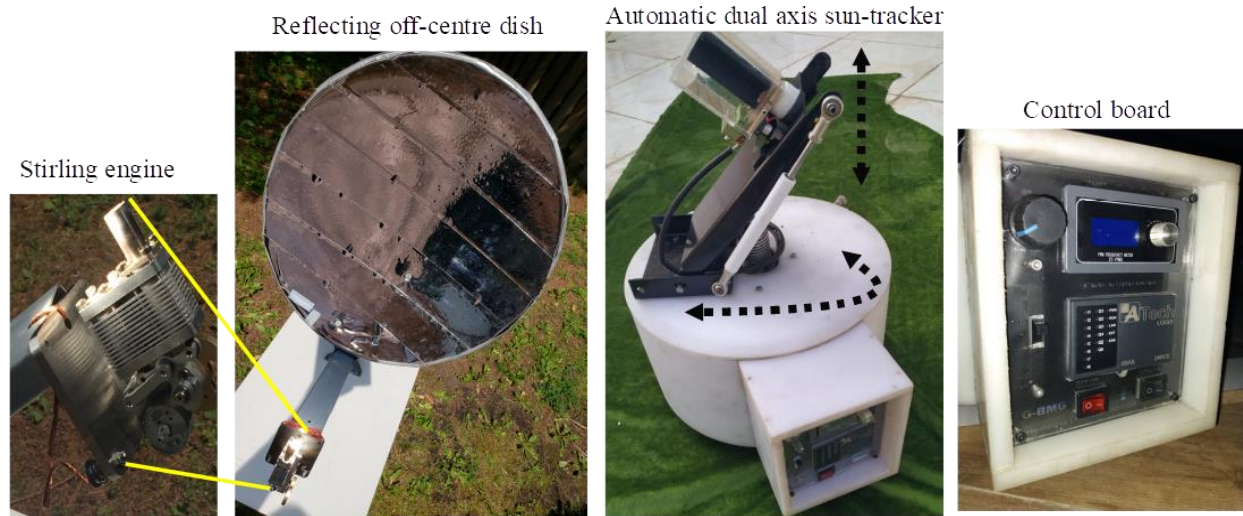


## Automatic Tracking Solar Dish with Stirling Engine



Our automatic sun tracking dish and Stirling engine is aimed at the educational market. This product is suitable for demonstrations to students at schools from the elementary to the university level

At present, the main sources of renewable energy training are websites and printed materials, which are theoretical and not ‘hands-on’. Our bench-scale product, which makes possible a live demonstration by an instructor with the direct participation of students, trains students in solar tracking, solar energy capture, and conversion of solar energy into electrical and mechanical energy. Our hands-on product lets students benefit from direct interaction with solar technology. The sun’s energy is concentrated by means of the reflecting off-centre dish. The Stirling engine, placed at the focal point, then converts this concentrated heat into mechanical energy and rotates a fly wheel. Finally, the fly wheel rotates a generator to produce electricity.

### Specifications of solar dish Stirling engine

Parameter	Value
Sun tracker	Horizontal: 0-360°, precision 0.5° Vertical: -10 – 85°, precision 0.2°
Minimum energy flux for the engine operation	35000 Lux
Dish dimensions (mm)	57 cm, large diameter 52 cm, small diamante Focal point: 280 mm from the lower edge