



Geneva Mechanism Demonstration Apparatus (SMT-TM-47)

The Geneva drive or Maltese cross is a gear mechanism that translates a continuous rotation into an intermittent rotary motion. The rotating drive wheel has a pin that reaches into a slot of the driven wheel advancing it by one step. The drive wheel also has a raised circular blocking disc that locks the driven wheel in position between steps. In this apparatus the driven wheel has six slots and thus advances for each rotation of the drive wheel by one step of 60°. An anodized aluminum disc is mounted on ball bearings as a driver. The disc has a scale so that the input angle can be exactly measured. The crank pin is to use for the movement of driven wheel. Driven Wheel is made of black anodized aluminum. All components are fitted to a HDF fitted with rubber feet. The unit is placed on the laboratory table for the experiment.

Technical Specifications

Specification:

- Investigation of a Geneva Mechanism.
- The rotating drive wheel has a pin that reaches into a slot of the driven wheel advancing it by one step.
- The drive wheel also has a raised circular blocking disc that locks the driven wheel in position between steps.

Technical Data:

- Geneva Slotted disk:
 - Anodised aluminium and Ball-bearing mounted.
 - 6 slots
- Rotating Disk:
 - With Pin for rotating.
- Dimensions and weight:
 - LxWxH: 380x280x100mm,
 - Weight: approx. 10kg.

Experimental Data:

- Investigation of Geneva Mechanism
- Recording the transmission function of a Geneva

