

INTRODUCTION

A Geneva mechanism, also known as Maltese cross, produces intermittent motion from continuous circular motion. It is a positive drive mechanism in which the driven wheel is positively moved or locked.

The Geneva wheel contains a number of slots into which the driving crank engages, and the number of slots determines the velocity ratio during periods of motion.

When the Geneva wheel is not being indexed, it is locked by means of a locking plate, whose convex surface mates with the concave surface of the Geneva wheel except during the indexing period.

The Geneva Stop Mechanism, "MME", has been designed to demonstrate the action of a Geneva drive during the indexing and rest periods.

GENERAL DESCRIPTION

The Geneva Stop Mechanism "MME", designed by EDIBON, is a mechanism that transforms continuous circular motion into intermittent motion. It is a positive drive in which the driven wheel is positively moved or locked.

It is made of aluminum and consists of a rotating drive wheel and a driven wheel with six slots. The 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 half-moon blocking disc that locks the driven wheel in position between steps.

The drive wheel and the driven wheel are mounted in two graduated discs, where the angle of both wheels can be measured.



ISO 9001: Quality Management (for Design, Manufacturing, Commercialization and After-sales service)



European Union Certificate (total safety)



Certificates ISO 14001 and ECO-Management and Audit Scheme (environmental management)



Certificate and Worlddidac Member

SPECIFICATIONS

Bench-top unit.

Anodized aluminum frame and panels made of painted steel.

Main metallic elements made of stainless steel.

The "MME" unit mainly consists of:

Rotating drive wheel with a pin and a raise half-moon blocking disc.

Driven wheel with six slots.

The drive wheel and the driven wheel are mounted in two rotary elements with a graduated disc to read the angle.

Angle measurement indicator.

Manuals: This unit is supplied with the following manuals: Required services, Assembly and Installation, Starting-up, Security, Maintenance and Practices manual.



MME detail

EXERCISES AND PRACTICAL POSSIBILITIES

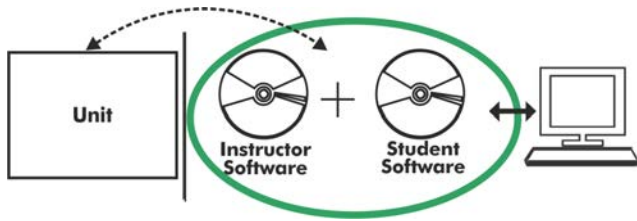
- 1.- Demonstrating the action of a Geneva mechanism during the indexing and dwell periods.
- 2.- Plotting the relationship between the angular displacement of the input crank and the output Geneva wheel during the indexing period.
- 3.- Determining the velocity and acceleration of the Geneva wheel by graphical differentiation.
- 4.- Comparing the values obtained by the equations of motion or the use of velocity and acceleration diagrams.

DIMENSIONS AND WEIGHTS

MME:

- Dimensions: 400 x 300 x 160 mm approx.
(15.74 x 11.81 x 6.29 inches approx.).
- Weight: 3 Kg approx.
(6.61 pounds approx.).

MME/ICAI. Interactive Computer Aided Instruction Software System:



With no physical connection between unit and computer, this complete software package consists of an Instructor Software (EDIBON Classroom Manager -ECM-SOF) totally integrated with the Student Software (EDIBON Student Labsoft -ESL-SOF). Both are interconnected so that the teacher knows at any moment what is the theoretical and practical knowledge of the students.

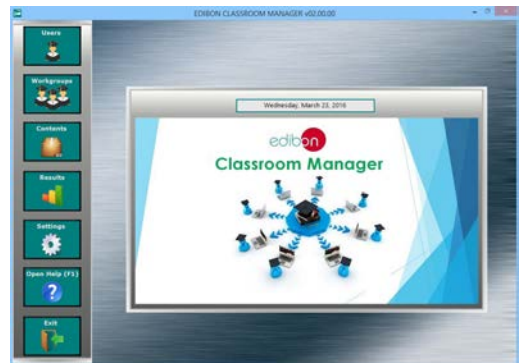
Instructor Software

- ECM-SOF. EDIBON Classroom Manager (Instructor Software).

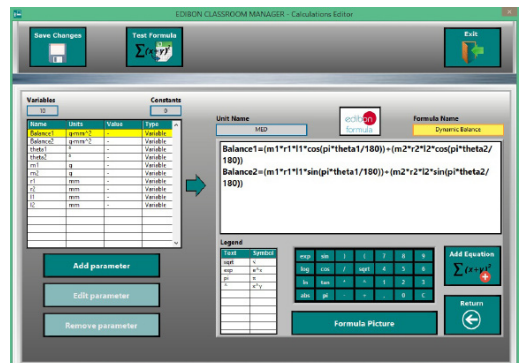
ECM-SOF is the application that allows the Instructor to register students, manage and assign tasks for workgroups, create own content to carry out Practical Exercises, choose one of the evaluation methods to check the Student knowledge and monitor the progression related to the planned tasks for individual students, workgroups, units, etc... so the teacher can know in real time the level of understanding of any student in the classroom.

Innovative features:

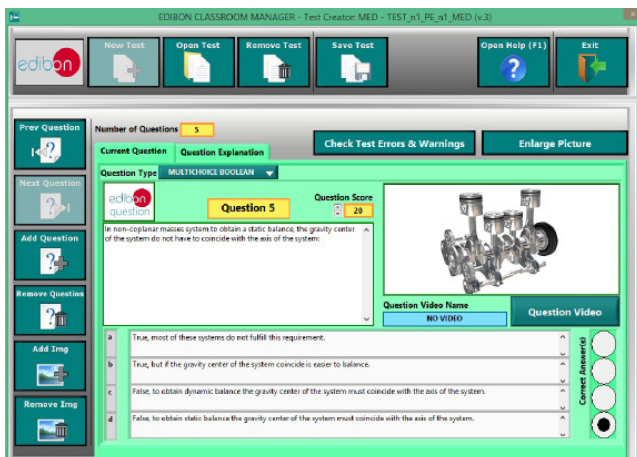
- User Data Base Management.
- Administration and assignment of Workgroup, Task and Training sessions.
- Creation and Integration of Practical Exercises and Multimedia Resources.
- Custom Design of Evaluation Methods.
- Creation and assignment of Formulas & Equations.
- Equation System Solver Engine.
- Updatable Contents.
- Report generation, User Progression Monitoring and Statistics.



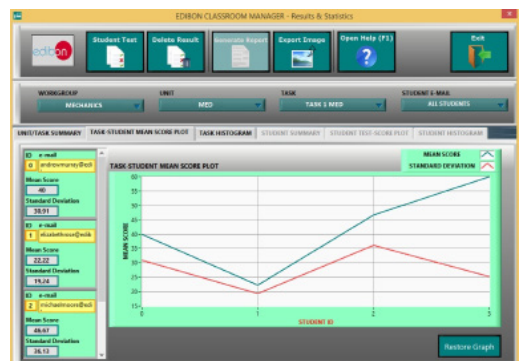
ECM-SOF. EDIBON Classroom Manager (Instructor Software) Application Main Screen



ECAL. EDIBON Calculations Program Package - Formula Editor Screen



ETTE. EDIBON Training Test & Exam Program Package - Main Screen with Numeric Result Question



ERS. EDIBON Results & Statistics Program Package - Student Scores Histogram

Optional
Student Software

- ESL-SOF. EDIBON Student Labsoft (Student Software).

ESL-SOF is the application addressed to the Students that helps them to understand theoretical concepts by means of practical exercises and to prove their knowledge and progression by performing tests and calculations in addition to Multimedia Resources. Default planned tasks and an Open workgroup are provided by EDIBON to allow the students start working from the first session. Reports and statistics are available to know their progression at any time, as well as explanations for every exercise to reinforce the theoretically acquired technical knowledge.

Innovative features:

- Student Log-In & Self-Registration.
- Existing Tasks checking & Monitoring.
- Default contents & scheduled tasks available to be used from the first session.
- Practical Exercises accomplishment by following the Manual provided by EDIBON.
- Evaluation Methods to prove your knowledge and progression.
- Test self-correction.
- Calculations computing and plotting.
- Equation System Solver Engine.
- User Monitoring Learning & Printable Reports.
- Multimedia-Supported auxiliary resources.

For more information see ICAI catalogue. Click on the following link:

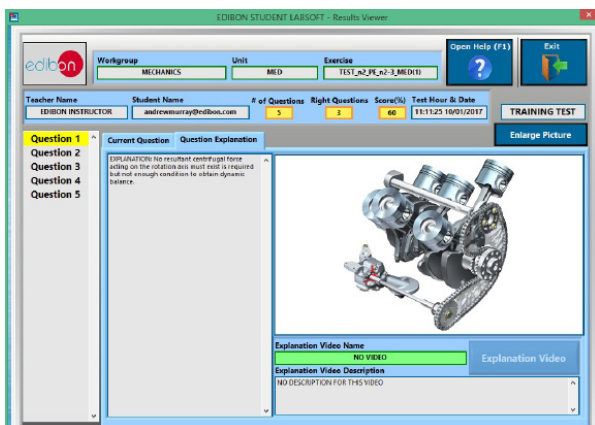
www.edibon.com/en/files/expansion/ICAI/catalog



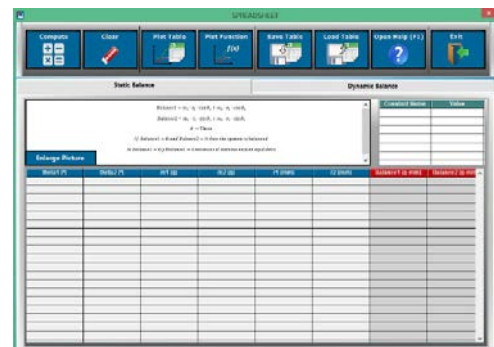
ESL-SOF. EDIBON Student LabSoft (Student Software) Application Main Screen



EPE. EDIBON Practical Exercise Program Package Main Screen



ERS. EDIBON Results & Statistics Program Package - Question Explanation



ECAL. EDIBON Calculations Program Package Main Screen

* Specifications subject to change without previous notice, due to the convenience of improvement of the product.



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REPRESENTATIVE:

