



Electronic console

GENERAL DESCRIPTION

The Simple Balancing Unit (MES) developed by EDIBON is a unit to study and analyze the oscillations and vibrations and how to eliminate or diminish them.

This unit is sustained by anodized aluminum profiles on which are mounted steel panels. This gives to the unit stability and lightness.

The MES unit is basically formed by a shaft mounted on bearings. This shaft is coupled by pulley to an electrical motor with variable speed that will make it turn. The whole is fixed to the support structure by means of springs which make the unit oscillate in case there are vibrations or forces without being balanced.

This shaft has 2 discs coupled: one of them is the pulley, and the other is a graduated disc. The disc have drills to proceed, through fixing the masses, to the system destabilization and then to its subsequent balancing.

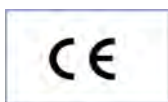
A ruler can be used in the MES Unit to see easily the measurement of the system displacement with a needle placed at the right side of the unit.

The unit is supplied with an Auxiliary Module for the electrical supply and the motor speed control.

The unit is completed with a set of sector masses and weights of different values for doing the experiments.



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 mounted on a structure made of anodized aluminum profiles, with a painted steel panel and with legs.

All the elements of the MES unit are made of aluminum, stainless steel and treated steel.

This unit has:

An electrical motor with variable speed which can reach 8300 r.p.m.

It has a transmission through pulley and a belt from the motor to the shaft.

An aluminum external disc, that we will name Graduated disc. It has a diameter of 150 mm. The disc have drills to proceed, through fixing the masses, to the system destabilization and then to its subsequent balancing.

The unit is completed with a set of sector masses and weights to do the practices.

Auxiliary module for the electrical supply and the motor control. At its back, there are connections and at its front part it has a potentiometer to control the speed of the motor.

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

EXERCISES AND PRACTICAL POSSIBILITIES

- 1.- Demonstrations and experiments in the balancing of coplanar rotating systems.
- 2.- Balance in a single plane of revolution.
- 3.- Observe the effects on oscillations of various conditions of balance.

REQUIRED SERVICES

-Electrical supply: single-phase, 220V./50Hz or 110V./60Hz.

DIMENSIONS AND WEIGHTS

MES:

Unit:

- Dimensions:

450 x 550 x 600 mm. approx.

(17.72 x 21.65 x 23.62 inches approx.).

- Weight: 25 Kg. approx.

(55 pounds approx.).

Auxiliary module:

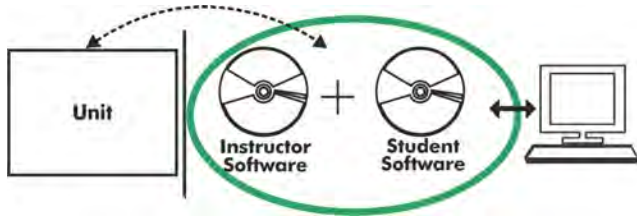
- Dimensions: 310 x 220 x 145 mm. approx.

(12.2 x 8.66 x 5.71 inches approx.).

- Weight: 2 Kg. approx.

(4.4 pounds approx.).

MES/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.

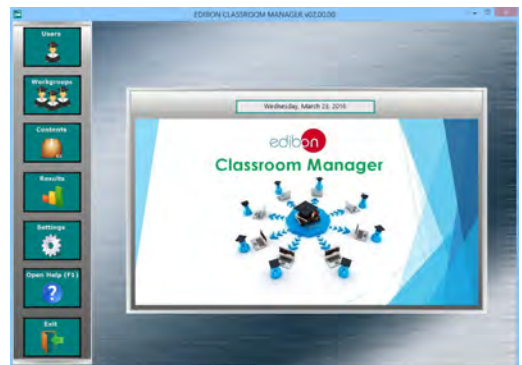
Instructor Software

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

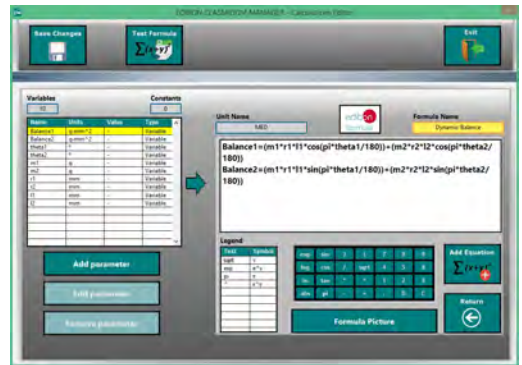
ECM-SOF is the application that allows the Instructor to register students, manage and assign tasks for workgroups, create own content to carry out Practical Exercises, choose one of the evaluation methods to check the Student knowledge and monitor the progression related to the planned tasks for individual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

Innovative features:

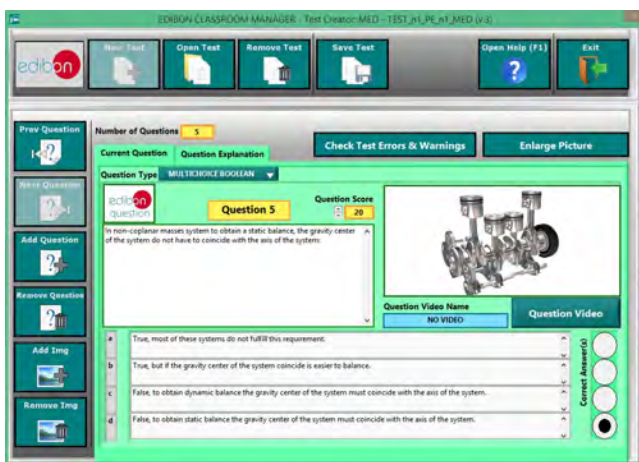
- User Data Base Management.
- Administration and assignment of Workgroup, Task and Training sessions.
- Creation and Integration of Practical Exercises and Multimedia Resources.
- Custom Design of Evaluation Methods.
- Creation and assignment of Formulas & Equations.
- Equation System Solver Engine.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

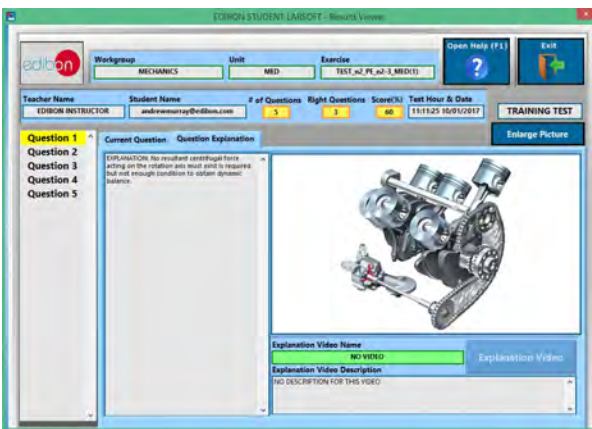
www.edibon.com/en/files/expansion/ICAI/catalog



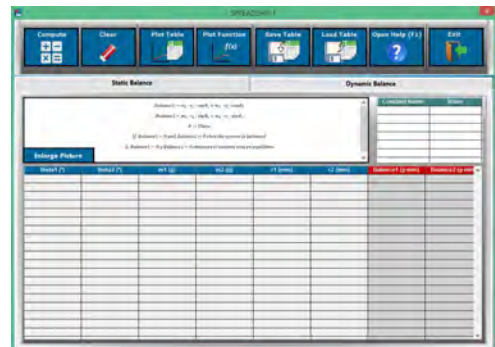
ESL-SOF. EDIBON Student LabSoft (Student Software)
Application Main Screen



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.



C/ Del Agua, 14. Polígono Industrial San José de Valderas.
28918 LEGANÉS. (Madrid). ESPAÑA - SPAIN.
Tel.: 34-91-6199363 Fax: 34-91-6198647
E-mail: edibon@edibon.com Web: www.edibon.com

Edition: ED01/18
Date: January/2018

REPRESENTATIVE:

