edibon

Engineering and Technical
Teaching Equipment

Rigging Training Unit

RGT

www.edibon.com
⤷PRODUCTS
⤷7.- MECHANICS

INTRODUCTION

Nowadays, in any industrial plant, machines are required to be transferred from one place to another, since they are usually built for special applications, being all of them different. Due to their weight, which is not evenly balanced on the machine supports, and their shapes, often asymmetrical, the rigger may have difficulties to move them. So, for a safe and efficient machine transfer, riggers need to be highly skilled and qualified.

GENERAL DESCRIPTION

The Rigging Training Unit, "RGT", has been designed for the study of techniques to move loads of various shapes, sizes and types safely.

The unit consists of an adjustable height gantry frame made of welded steel and beam attachment points.

The unit includes different devices such as pins, ropes, slings, chains, bars and tools to move and install machines, assemble the gantry crane, lift various shaped construction materials, lift hand powered and power lifting mechanisms, moving a machine using a double-chain sling, etc.

Besides, the student can perform safety inspections on all lifting apparatus equipment.

SPECIFICATIONS

The unit includes wheels to facilitate its mobility and brakes to immobilize it.

"I" beam gantry, designed to fulfill OSHA and CMAA standards, with adjustable height from 85 in to 120 in.

Two trollies to store material.

Electric hoist with a 1 ton lifting capacity.

Endless chain manual hoist with a 1 ton lifting capacity.

Two block and tackle systems made of steel shell and fiber rope with 800 lb. lifting capacity. They are mounted in the gantry frame and allow for safe movement in all directions within the space of the unit.

Steel floor plate, 36 in x 48 in x 0.25 in.

"I" beam, 48 in long x 6 in wide.

Steel pipe with lifting hooks, 3 in x 3 in x 48 in.

Four steel rods, 0.625 in diameter x 36 in long.

Spreader beam adjustable from 72 in to 96 in.

Two 75 lb. steel weights with lifting hook.

Wood crate, 48 in x 48 in x 48 in.

Two sling protection pads.

Two wire mesh slings.

Two nylon slings, 72 in long.

Hydraulic jack with 2 Ton lifting capacity.

"J" bar.

Pry bar, 72 in long.

Come-A-Long.

Extension cord.

Load fitting kit.

Sling kit.

Manuals: This unit is supplied with the following manuals: Required Services, Assembly and Installation, Starting-up, Safety, Maintenance & Practices Manuals.
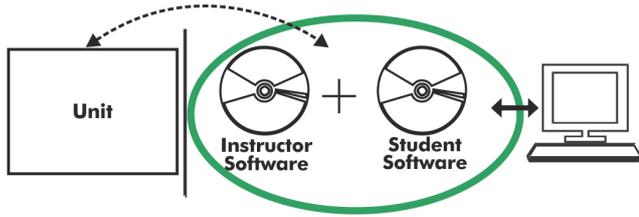
EXERCISES AND PRACTICAL POSSIBILITIES

1.- Building a sling.

2.- Assembling the gantry crane.

3.- Installation of a wedge socket.

4.- Lifting hand powered and power lifting mechanisms.

5.- Study of lifting devices: slings, pins, rope, etc.

6.- Lifting various shaped construction materials.

7.- Lifting an unbalanced load.

8.- Lifting a machine using a hydraulic jack.

9.- Lifting an unbalanced machine using lifting hooks.

10.- Performing safety inspections on all lifting apparatus equipment.

11.- Moving and installing machines using a double-chain sling, polyester slings, roller pipes, etc.

DIMENSIONS AND WEIGHTS

RGT:

- Dimensions: 3000 x 1700 x 3000 mm approx.

(118.10 x 66.92 x 118.10 inches approx.)

RGT/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.
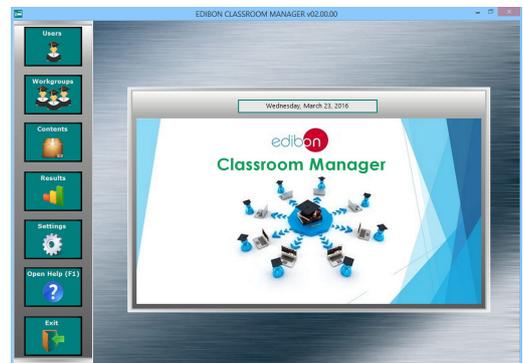
Instructor Software

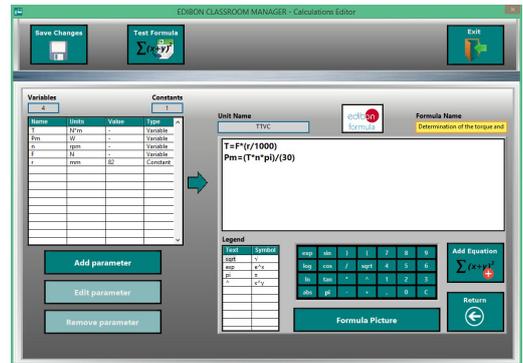### - ECM-SOF. EDIBON Classroom Manager (Instructor Software).

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.
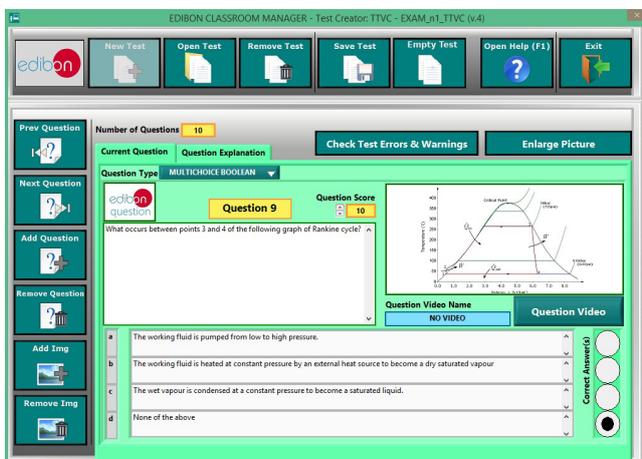
Innovative features:

- 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.
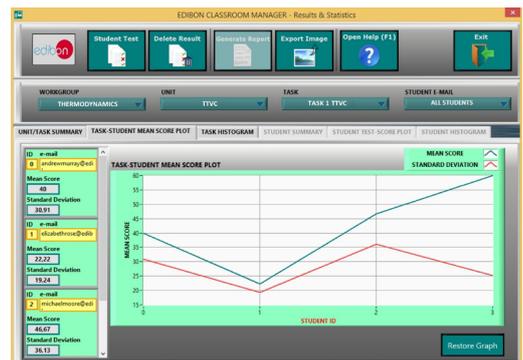- Report generation, User Progression Monitoring and Statistics.

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

- 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.
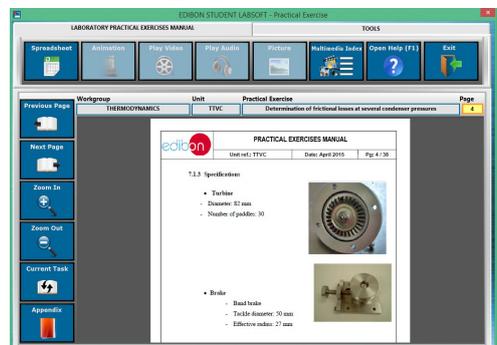
Innovative features:

- 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.

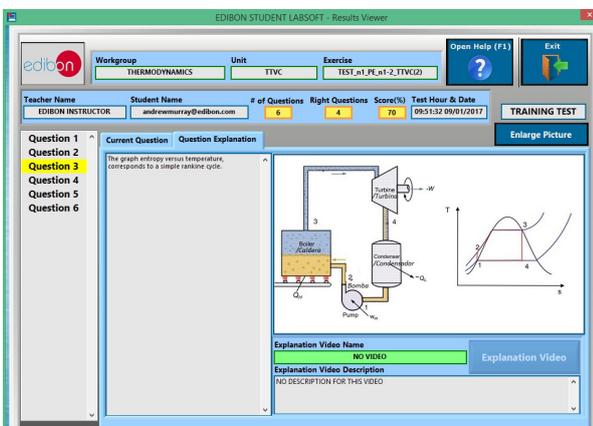For more information see **ICAI** catalogue. Click on the following link:
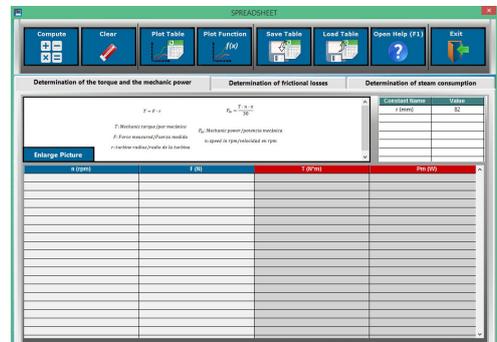www.edibon.com/en/files/expansion/ICAI/catalog

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.

edibon
INTERNATIONAL

C/ Julio Cervera, 10-12-14. Móstoles Tecnológico.
28935 MÓSTOLES. (Madrid). ESPAÑA - SPAIN.
Tel.: 34-91-6199363   Fax: 34-91-6198647
E-mail: edibon@edibon.com   Web: **www.edibon.com**

REPRESENTATIVE: