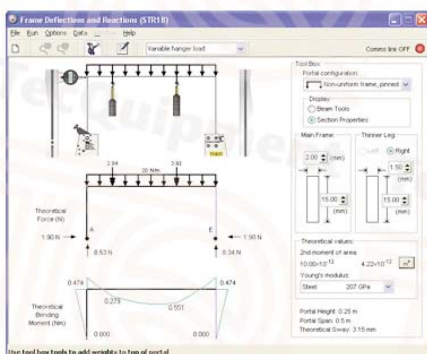
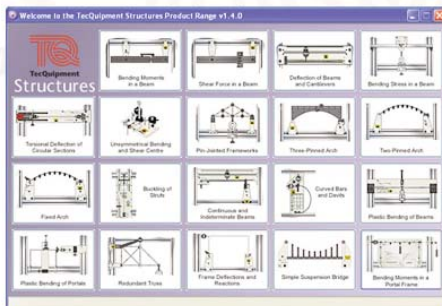


Structures

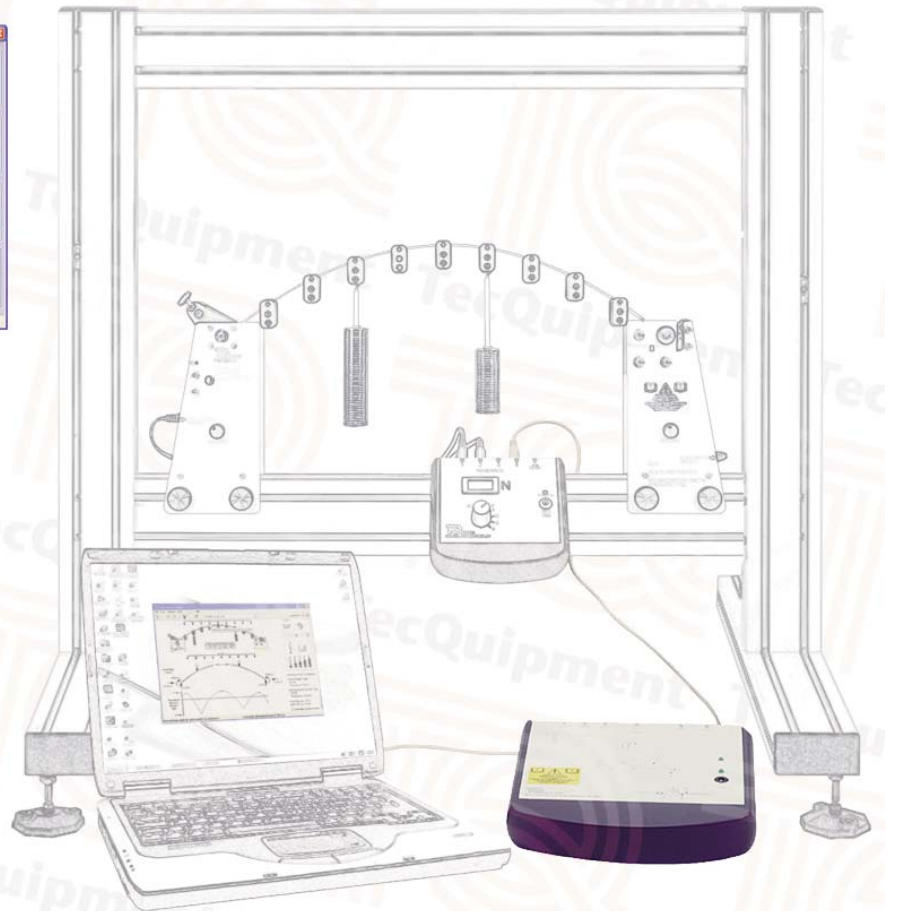
STR2000

Automatic Data Acquisition Unit

Connects any of the Structures range experiments to a computer – includes TecQuipment's Structures Software for automatic data acquisition and virtual experiments



Screenshots of TecQuipment's Structures Software (included with the STR2000)



The STR2000 computer interface unit shown transmitting data from one of the Structures hardware experiment modules to the Structures Software

- Computer interface and TecQuipment's Structures Software (STRS) to display and collect data from any of the experiment modules in TecQuipment's Structures range (STR2 to STR20)
- Includes TecQuipment's powerful Structures Software to do two things: display and collect data, and allow 'virtual' simulated experiments
- Interface unit links to load cells and other instruments in the Structures range to send data to a suitable computer
- Allows students to compare results from actual experiments with results from simulation software
- Simple connection to most modern computers – no need to add any extra circuit boards
- Fully automatic – needs no adjustments or complicated set-up procedures on your computer

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- An ISO 9001 certified company

STR2000

Automatic Data Acquisition Unit

Description

The Automatic Data Acquisition Unit is an interface box with software that connects experiments from the TecEquipment Structures range to a suitable computer (computer not included). It allows data logging, analysis and extra 'virtual' simulated experiments. It accepts inputs from a digital force display, a digital strain display, an angular sensor and digital deflection indicators. It converts these inputs into the correct data signals for the computer. The software can then analyse the data and create tables and charts. The software can also simulate experiments which students can perform using the hardware, so they can compare simulated and real results.

Standard Features

- Supplied with comprehensive user guide
- Five-year warranty
- Made in accordance with the latest European Union directives

Essential Ancillaries

- Suitable Computer

Ancillary For:

- Bending Moments In A Beam (STR2)
- Shear Force In A Beam (STR3)
- Deflection Of Beams & Cantilevers (STR4)
- Bending Stress In A Beam (STR5)
- Torsion Of Circular Sections (STR6)
- Unsymmetrical Bending And Shear Centre (STR7)
- Pin Jointed Frameworks (STR8)
- Three-Pinned Arch (STR9)
- Two-Pinned Arch (STR10)
- Fixed Arch (STR11)
- Buckling Of Struts (STR12)
- Continuous And Indeterminate Beam (STR13)
- Curved Bars And Davits (STR14)
- Plastic Bending Of Beams (STR15)
- Plastic Bending Of Portals (STR16)
- Redundant Truss (STR17)
- Frame Deflections And Reactions (STR18)
- Simple Suspension Bridge (STR19)
- Bending Moments In A Portal Frame (STR20)

Essential Services

Electrical supply:

100 VAC to 240 VAC, 1 A, 50/60 Hz, with earth

Bench Space Needed:

300 mm x 300 mm (this is additional to the space needed for your Structures Experiment (STR2 to STR20)).

Operating Conditions

Operating environment:

Laboratory

Storage temperature range:

-25°C to +55°C (when packed for transport)

Operating temperature range:

+5°C to +40°C

Operating relative humidity range:

80% at temperatures < 31°C decreasing linearly to 50% at 40°C

Specifications

Nett dimensions and weight:

230 mm x 220 mm x 40 mm, and 1.5 kg

Packed dimensions and weight:

0.02 m³ and 2.5 kg

Software:

Supplied on CD-ROM for installation onto a suitable computer with a Microsoft® Windows® operating system.

Minimum computer specifications needed:

- Microsoft® Windows® 2000, XP, Vista or Windows 7 operating system
- VGA monitor capable of at least 16-bit colour at 800 x 600 resolution
- 40 MB available hard drive space
- 2 x USB port (1 for communications and 1 for software key - 'dongle')
- CD-ROM drive

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innovation.

integration.

infoWERK is a leading expert in the development of eLearning courseware, learning system solutions, teaching and AV equipment.

Furthermore infoWERK is the representative and system integrator of "TecQuipment".

TecQuipment is one of the global leaders in technical teaching equipment for engineering. If you are interested in one of TecQuipment's products feel free to contact us at:



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