



# INTRODUCING THE NEXT GENERATION STRUCTURES RANGE

The next generation Structures range from TecQuipment is compact, robust and offers a clearer demonstration of experiments. It builds on the tried and tested modular technology but is easier to set up and use, taking performance to the next level.



EXPERIMENTS FIX EASILY  
TO THE PLATFORM

MODULAR SYSTEM

SIMULATION AND DATA  
ACQUISITION SOFTWARE **V-DAS<sup>®</sup>**  
ONBOARD

LIFTING HANDLES

STURDY DESKTOP PLATFORM

USB INTERFACE HUB

ADJUSTABLE FEET

LOW CENTRE OF GRAVITY



## ROBUST AND COMPACT

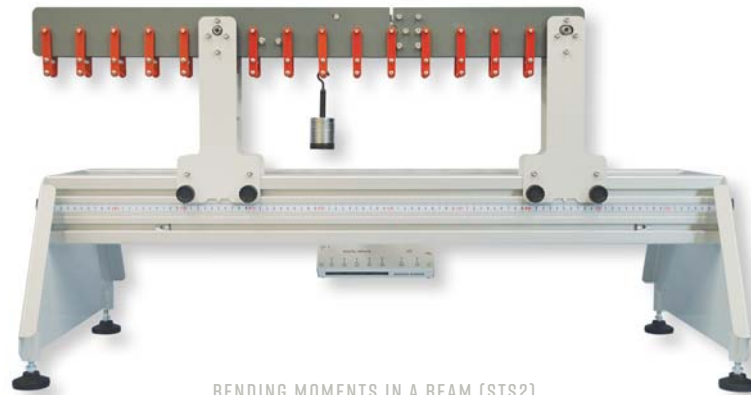
- The new platform-based mounting frame (STS1) is solid and stable, allowing easy viewing of experiments from all angles: perfect for use by groups of students and for longer range viewing in classroom demonstrations.
- The small footprint and low-level frame unit mean that minimal space is required for storage.

## EASY TO USE AND SET UP

- The powerful data acquisition and simulation Structures software, supplied on USB, allows students to carry out further experimentation using virtual variables.
- The USB interface hub means this entire range has VDAS® Onboard, and directly connects to a computer running VDAS® software that is available to download free from the TecQuipment website.

## COMPREHENSIVE LEARNING OF STRUCTURES PRINCIPLES

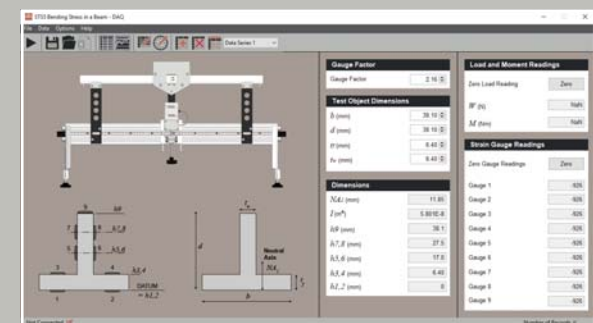
- The 21 experiment modules mount on the platform-based frame to teach basic structural principles relating to beams, bridges, cantilevers, arches, struts, davits, weight, reaction, moment, shear force and torsion.



BENDING MOMENTS IN A BEAM (STS2)

## AVAILABLE EXPERIMENT MODULES

- Bending Moments in a Beam (STS2)
- Shear Force in a Beam (STS3)
- Deflections of Beams and Cantilevers (STS4)
- Bending Stress in a Beam (STS5)
- Torsion of Circular Sections (STS6)
- Unsymmetrical Bending and Shear Centre (STS7)
- Pin-Jointed Frameworks (STS8)
- Three-Pinned Arch (STS9)
- Two-Pinned Arch (STS10)
- Fixed Arch (STS11)
- Euler Buckling of Struts (STS12)
- Continuous and Indeterminate Beams (STS13)
- Curved Bars and Davits (STS14)
- Plastic Bending of Beams (STS15)
- Plastic Bending of Portal Frames (STS16)
- Redundant Truss (STS17)
- Frame Deflections and Reactions (STS18)
- Simple Suspension Bridge (STS19)
- Bending Moments in a Portal Frame (STS20)
- Suspended Beam Bridge (STS21)
- Equilibrium of a Simply Supported Beam (STS22)



VDAS® SOFTWARE