The Structures range consists of teaching equipment for understanding basic structural principles, focusing on beams, bridges and cantilevers for students of mechanical, civil and structural engineering. The 19 desk-mounted experiment modules can be used stand alone or with TecQuipment’s powerful Structures software which provides automatic data acquisition (ADA). To complement laboratory learning, experiments can also be performed virtually, using only the software.

RECOMMENDED STRUCTURES PACKAGES:

ARCHES, BRIDGES AND TRUSSES STRA
- Pin-jointed Frameworks STR8
- Three-Pinned Arch STR9
- Two-Pinned Arch STR10
- Fixed Arch STR11
- Redundant Truss STR17
- Simple Suspension Bridge STR18

DEFLECTIONS AND STRESS STR8
- Deflection of Beams and Cantilevers STR4
- Bending Stress in a Beam STR5
- Continuous and Indeterminate Beams STR13
- Curved Bars and Davits STR14
- Frame Deflections and Reactions STR18

FAILURE STRC
- Euler Buckling of a Column STR12
- Plastic Bending of Beams STR15
- Plastic Bending of Portals STR16

MOMENTS STRD
- Bending Moments in a Beam STR2
- Shear Force in a Beam STR3
- Bending Moments in a Portal Frame STR20

TORSION STRE
- Torsion of Circular Sections STR6
- Unsymmetrical Bending and Shear Centre STR7