

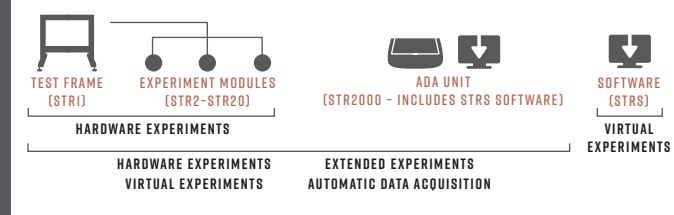
# STRUCTURES

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 TecEquipment's powerful Structures software which provides automatic data acquisition (ADA). To complement laboratory learning, experiments can also be performed virtually, using only the software.



TECEQUIPMENT



## 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 STR19

### DEFLECTIONS AND STRESS STRB

- 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


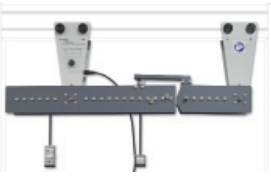
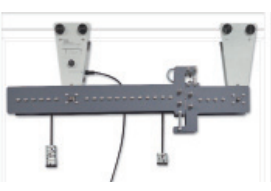







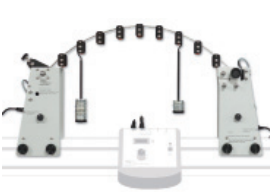

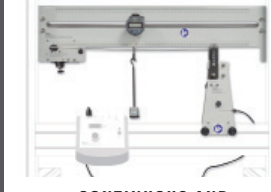


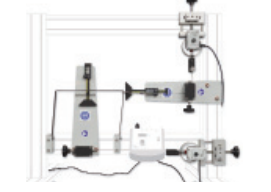
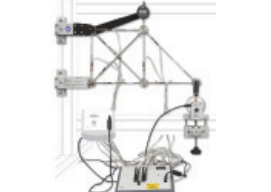
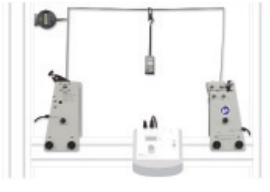
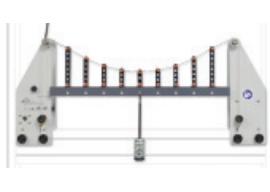

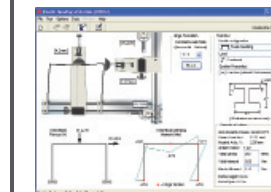
### MOMENTS STRD

- BENDING MOMENTS IN A BEAM STR2
- SHEAR FORCE IN A BEAM STR3
- BENDING MOMENTS IN A PORTAL FRAME STR20

### TORSION STR E

- TORSION OF CIRCULAR SECTIONS STR6
- UNSYMMETRICAL BENDING AND SHEAR CENTRE STR7

EXPERIMENT MODULES

 TEST FRAME STR1	 BENDING MOMENTS IN A BEAM STR2	 SHEAR FORCE IN A BEAM STR3	 DEFLECTION OF BEAMS AND CANTILEVERS STR4	 BENDING STRESS IN A BEAM STR5	 TORSION OF CIRCULAR SECTIONS STR6	 UNSYMMETRICAL BENDING AND SHEAR STRESS STR7
 PIN-JOINTED FRAMEWORKS STR8	 THREE-PINNED ARCH STR9	 TWO-PINNED ARCH STR10	 FIXED ARCH STR11	 EULER BUCKLING OF A COLUMN STR12	 CONTINUOUS AND INDETERMINATE BEAMS 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	 STRUCTURES SOFTWARE STRS

