



Key Features

- The Shear Force and Bending Momentum Unit is formed by an aluminum and steel structure that allows us to perform a mechanical study of different structures
- An articulated structure makes it possible to convert the application of one vertical force into both a bending moment and a shearing force on the beam. Both effects are created by the use of a set of weights that balance the system using a double-pulley system
- The different points in which the force can be applied make it possible to study the different reactions of the beam, allowing us to compare the experimental and theoretical results

Technical Specifications:

- Bench-top unit
- Anodized aluminum frame and panels made of painted steel
- The unit mainly consists of:
 - Double -pulley system which allows us to achieve equilibrium of the bending moment on the beam
 - Double -pulley system which allows us to achieve equilibrium of the shear force on the beam
 - Different application points for the loads
 - A rule made in methacrylate that allows us to equilibrate the system with the absence of weights before beginning each experiment
 - Three hooks made of steel to hang weights
 - Should supplied with following required elements:
 - Brass Hook and Mass Set 2 Kg

List of Experiments:

- Study of cantilever beams subject to loads at different points

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



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- Demonstration of the shear force as the algebraic sum of the transverse components of the forces to one side of the section
- Demonstration of the bending moment as the algebraic sum of the moments of the forces to one side of the section
- Study of the equilibrium and the applied balancing forces when the applied masses are varied

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