

Product Name :
Fundamentals of Statics**Product Code :**
ALABS-A165-022**Description :****Fundamentals of Statics**

The experimental unit demonstrates fundamental principles of statics such as the equilibrium of forces and moments, resolution of forces, the law of levers, and more. The base element is an upright panel which can be set up in portrait or landscape orientation. Feet enable the panel to stand on a laboratory bench. All parts required for the experiment can be quickly attached to the rails around the edges. The imprinted line grid and grid-marked lever rods permit precise assembly. The lengths marked on the grid make it easy to define angles. A wide range of mountings, such as cables, rods, pulleys, torque discs, pivot bearings and the like, can be easily fixed in place and combined. Ball bearings integrated into the panel permit low-friction torque experiments. The versatility of the statics experimental unit helps students to explore their creativity in developing their own experiments. Large-format force gauges are particularly well suited to demonstration purposes. The adjustable transparent dial enables input loads, such as dead-weights, to be taken into account. As a special teaching aid, it is possible to write directly on the panel with erasable markers. Markings, sketches and comments can be added to supplement the experiments. The various elements of the experiment are clearly laid-out and held securely on a

tray. Multiple trays can be stacked as a space-saving storage option. Three supplementary sets are available to extend the scope of experimentation of the statics unit, providing additional experiments relating to the inclined plane, friction, pulley blocks and gear wheels. The well-structured instructional material sets out the fundamentals and provides a step-by-step guide through the experiments.

Specification:

1. Experimental setup to demonstrate simple, planar force systems
2. Panel for easy mounting of various experimental components
3. Panel with imprinted 50mm line grid and facility to write on using erasable marker
4. Lever rods with 50mm grid
5. Wide range of mountings: cables, rods, pulleys, torque discs, pivot bearings and the like
6. 2 weight sets, each with 4 weights
7. Force gauges for tensile and compressive forces, with large-format display
8. Transparent dial on force gauge rotatable
9. Tray for the components



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