



Tesca Portal Frame Unit has been designed to determine the deflection at the load point for a rectangular portal frame subjected to horizontal and vertical loads. The system is formed by a frame attached to a rigid base and loads can be applied by mass hangers and a range of masses or weights. The horizontal and vertical deflections of the frame can be measured by means of dial gauges.

### Specifications

- Anodized aluminium and steel structure.
- Steel portal frame.
- Dial gauge:
  - Range: 0-10 mm. (0 - 0.4 inches).
  - Accuracy: 0.01 mm. (0.0004 inches)
- Cord with a hook.
- Hanger.
- In order to carry out some of the practices with Tesca Portal Frame Unit, 1 set of weights "B type" are required. (See section "required accessories").
- Manuals: This unit is supplied with the following manuals: Required services, Assembly and Installation, Starting-up, Security, Maintenance and Practices Manual.

### Experiment Possibilities

- To determine the experimental value of the deflection at the load point for a rectangular portal frame subjected to a vertical load.
- To determine the experimental value of the deflection at the load point for a rectangular portal frame subjected to a horizontal load.
- To compare the theoretical and experimental results.

### Required Accessories

Set of weights:

- 6 weights of 200 gr.
- 6 weights of 100 gr.
- 2 weights of 50 gr. .
- 2 weights of 20 gr. .
- 2 weights of 10 gr. .
- 1 support hook of 100 gr. .

Note: Specifications are subject to change.

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