Product Name : Product Code : Methods To Determine The Elastic Line TN954 **Description :** Methods To Determine The Elastic Line **Technical Specification :** Methods To Determine The Elastic Line The unit is perform the following experiments and investigations: Learning Objectives / Experiments: Elastic lines for statically determinate or indeterminate beams under load Determination of the elastic line of a beam by the principle of virtual work (calculation) Mohr's analogy (area moment method devised by mohr; graphical representation) Application of the principle of superposition Determination of the deflection of the beam Angle of inclination of the beam comparison between calculated and measured values for angle of inclination and deflection Specifications: Comparison of different methods to determine the elastic line Statically determinate or indeterminate beam 2 supports with clamp fixing, optionally as articulated support with measurement of angle of inclination or clamp fixing 1 articulated support with force gauge Device to generate a bending moment Dial gauge with generation of moment to measure the angle of inclination

Dial gauge to record the deformations of the beam Weights to subject the beam to point loads or moment Weights to determine the clamping moments on the supports with clamp fixings Storage system to house the components Experimental setup in the included mounting frame Technical Data: Beam Length: 1000mm Cross-section: 20x4mm Material: steel Weights 7x 1N (hanger) 28x 1N 21x 5N Measuring ranges Force: ±50N, graduation: 1N Travel: 0...20mm, graduation: 0,01mm **Dimensions and Weight** Length x Width x Height: 1170x480x178mm (storage system) Weight: 42kg (total) Mounting Frame Specification: Frame for mounting of experiments in statics, strength of materials and dynamics Sturdy sectional steel double frame, welded Easy, exact mounting of all components by precision clamp fixings Stable on laboratory desktops or workbenches Frame supplied disassembled Technical Data: Mounting frame made of steel sections Frame opening Width x Height: 1250x900mm Section groove width: 40mm **Dimensions and Weight** Length x Width x Height: 1400x400x1130mm (assembled) Length x Width x Height: 1400x400x200mm (without mountings)

Weight: 32kg.

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