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**Product Name :**  
Computerized Cam Analysis

**Product Code :**  
SCHOOL-DYM86002



**Description :**

Computerized Cam Analysis

**Technical Specification :**

The Computerized Cam Analysis unit allows the dynamic investigation of a cam mechanism at various speeds. Four typical cams with corresponding engaging members are compared in terms of their motion behavior. The valve is simulated with a mass and a spring. A recorder synchronized with the cam member records the actual elevation curve of the cam mechanism. A speed-controlled drive motor with a large flywheel generates a speed as constant as possible. The open design means that the motion is clearly visible in every detail. The experimental unit is intended for demonstration in engineering education. A transparent protective cover ensures safe operation. It is not suitable to be used as a test bench in the field of endurance testing/tribology. **FEATURES:** Comparison of the elevation curves of different cam-member shapes Comparison of elevation curves with theory Four different cam members, two different engaging members Influence of spring stiffness and mass on the dynamic behavior Determine the limit speed and compare with theory Influence of moving mass on the motion of cam member/plunger Influence of return-spring stiffness and preload on the motion of cam member/plunger Record elevation curves of cam mechanisms **SPECIFICATION:** Cam-shaped cam members: tangent cam, hollow cam, 2 circular arm cams with different head radius 2 different engaging members: flat receiver with plunger or rolling receiver with plunger 3 interchangeable return springs and spring preload Oscillating mass can be increased with 5 additional weights Optical speed sensor Transparent protective cover for safe operation Recorder: toothed belt drive Drive motor : DC asynchronous motor with frequency converter Power: 250W Speed: 60...670min<sup>-1</sup> Cam-shaped cam member : Stroke, each: 15mm Opening angle, each: 140° Spring stiffness : Hard: 5,026N/m Medium: 2,601N/m Soft: 613N/m Masses : Additional masses supplied with different weights Power required for operation : 230V, 50Hz, 1 phase 230V, 60Hz, 1 phase; 120V, 60Hz, 1 phase

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