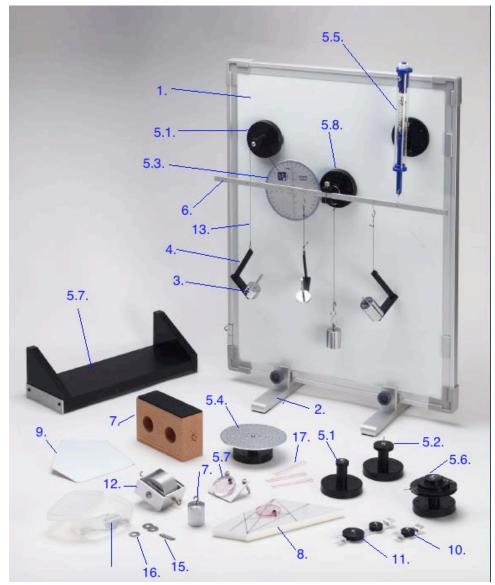




F01 Mechanics of machinery set



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Experiments:

- 1. Static equilibrium forces combination, force decomposition.
- 2 Torque balance- parallel force of plummet, lever experiment on the different/same side, multiple torque, wheel & axle, the center of mass & gravity.





- 3 Force of inclination-maximum static friction, coefficient of static friction, coefficient of dynamical friction and pulley system.
- 4 Pulley- single/double sheave pulley, the comprehensive experiment of pulley.
- 5 A variety of comprehensive experiments for practical application.
- 6 Hooke's law.
- 7 Single Pendulum.

Specifications:

- 1. Magnetic whiteboard 40cm x 53 cm x1
- 2. Aluminum legs for fix whiteboard x2
- 3. Weight group 20g x10
- 4. Metal mass hanger x3
- 5. Magnetic mounting set with durable plastic structure and fixed 6 NdFeB magnets
 - Precision Pulley with bearing φ=16mm x2
 - Precision Pulley with bearing φ=27mm x1
 - Aluminum Degree scale φ=100mm x1
 - Aluminum Torgue wheel φ=100mm x1
 - Accurate force scale 250g/2.5N X1
 - Three step pulley with bearing $\phi=20/40/60$ mm x1
 - Inclined plane L=28cm with angle indictor x1
 - Lever fixer x1
- 6. Aluminum lever L=40 cm and every 2 cm have a small hole for pendant use. X1
- 7. Friction wooden block one side with EVA sheet , 11x7x4cm with two couch for two 100g weights x1
- 8. Plastic stabilizer plate with angle indictor x1
- 9. Five-sided metal plate x1
- 10. Single pulley x1
- 11. Double pulley x1
- 12. Removable block 153g x1
- 13. Fishing thread x1





- 14. Ring x1
- 15. Metal ping x4
- 16. Metal hook x3
- 17. Vertical guage x3