



## Simultaneous launcher with spheres scn-F002G

## **Function**

Intended for experimental study, physics laboratory, natural science laboratory, carrying out physics experiments on: Kinematics. Horizontal launches and decomposition of parabolic motion into two simultaneous rectilinear motions. Horizontal launches from the same height. The measure of the range, on the ground plane, of a launch with initial velocity v1 and height h. The measure of the range, on the ground plane, of a launch with initial velocity v2 and height h. The measure of the range, on the ground plane, of a launch with initial velocity v3 and height h. Comparing the ranges obtained in launches with different initial speeds. Time of flight does not depend on the horizontal component of velocity in a horizontal launch. Comparing the flight time of the projectile launched from a height h and velocity v1, with the time in free fall from a height h. Comparing the flight time of the projectile launched from a height h and velocity v2, with the time in free fall from a height h. Parabolic motion decomposed into two simultaneous rectilinear motions, a horizontal MRU and a vertical MRUV, etc.

## **Knowledge areas**

Physics

## Level

High school

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