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[Kinematics Kit](#)

[0201010300](#)



[Kinematics Kit](#) is used for qualitative and quantitative study of Motion laws such as uniform motion and variable motion with a 100cm length, 16mm width 'U' shaped grooved track for smooth movement of spheres. The track includes an 25cm length inclined section and a 75cm length straight section. This Kinematics Kit is mainly made of an aluminum alloy with a 90cm yellow scale divided into nine equal parts. The photogates on the straight track can be freely moved to any position and can be easily read against the bright yellow scale. The track is fixed on a solid bracket and can be easily adjusted to true level by means of the two leveling bolts on the bracket. A special photogate

pair and electromagnet pre-wired to a cable harness are supplied, making electrical setup simple. Just plug the harness into the rear panel of a [digital timer \(download\)](#).

A steel ball in 22mm diameter is attracted by an electromagnet, which can be moved to any position on the inclined track. The ball is released by a switch on the [digital timer \(download\)](#) to allow motion on the track. During its scroll, the [digital timer \(download\)](#) captures the speed and motion time to the first photogate and the speed and time to pass through the next. The steel ball which is caught in a catcher (net) at the end of the track.

This [Kinematics kit](#) includes a rugged aluminum alloy track with Scale, an electromagnetic ball release, a pair of photogates on a long cable harness, a steel ball, a catcher, and an instructional manual. Required by not included: [Digital Timer with Photogates\(download\)](#).

Kinematics kit

Main Technical Parameters

Kinematics Kit	Specification
SKU	0201010300
Overall length of the track	100cm
Overall length of inclined section	25cm
Overall length of straight section	75cm
Power of electromagnet	DC 6 V
Diameter of steel ball	22mm

*Products and configuration list described herein are subject to changes without notice.