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## [Dynamic Track Investigating Newton's Second Law by Dragging Paper Tape](https://www.edusupports.com/) [0201010310A](https://www.edusupports.com/)



Dynamic Track is designed for students to investigate or experimentally determine the relationships between force, mass, and acceleration. It provides an economical and convincing method to discover Newton's Second Law. Dynamic Track also can be used to carry investigations into momentum,

elastic collisions, transfer of energy, straightforward periodic movement and etc. The results produced by this Dynamic Track is repeatable, collect and reliable on every occasion due to its distinctive style and prime quality. The smooth guide of the Aluminum alloy track ensures that the Dynamic Cart runs straight with a minimum of friction.

The Dynamic track is made of aluminum alloy with a length of 1000mm and a width of 71mm. One end of the track is equipped with an electric spark timer frame with a fixing screw, two adjusting screws for adjusting the inclination of the track, and a spring plate for stopping and releasing the trolley. The other end of the track is equipped with a plunger for catching the trolley and a  $\phi$  30mm pulley to guide the traction line. The pulley angle is adjustable.

The body of the trolley is made of ABS engineering plastics and the wheels are made of metal materials. The trolley has a compartment on its top to hold additional weights. The front end of the trolley is attached with a hook, and the rear end is provided with a paper tape clip. The front of the trolley is equipped with a brake calliper that matches with the plunger at the end of the track. The overall size of the trolley is about 110 x 70 x 30mm, and the weight of the trolley is  $200g \pm 6g$ .

The plastic weight bucket is attached by a hanging thread. the overall size is about  $\phi 30 \times 40$ mm, and the weight of the bucket is  $12g \pm 1g$ .

Usually used together with the spark timer.

This Dynamic track comes with a track, a trolley and a weight bucket.

### **Dynamic Track Investigating Newton's Second Law by Dragging Paper Tape**

#### **Main Technical Parameters**

|   |                        |
|---|------------------------|
| <u>Dynamic Track</u> Investigating Newton's Second Law by Dragging Paper Tape | Specification          |
| SKU   | <u>0201010310A</u>     |
| Track With Pulley   |                        |
| Length of the Apparatus   | 1100 mm                |
| Length of the Track   | 900 mm                 |
| Width of the Track  | 70 mm                  |
| Width of the Guide  | 52 mm                  |
| Dynamic Cart  |                        |
| Size  | 110 x 70 x 30 mm       |
| Weights   | 200g                   |
| Bucket  |                        |
| Material  | Plastic                |
| Size  | $\phi 30 \times 40$ mm |
| Weight  | $12g \pm 1g$           |

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