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[Dynamic Track with Support Rod](#) [Investigating Force, Mass and](#) [Acceleration by Dragging Paper Tape](#) [0201010310B](#)



[Dynamic Track with Support Rod](#) 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 with Support Rod](#) 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 with Support Rod](#) 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 trolley runs straight with a minimum of friction.

The track is made of aluminum alloy with a length of 1000mm and a width of 70mm. One end of the track is equipped with an electric spark timer frame

with a fixing screw, a clamp 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 ϕ 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 thickness clamping capacity of the table clamp is not less than 50mm, and the depth clamping capacity is 40mm.

The support rod is made of ϕ 10mm round steel and the pole can be adjusted in height within 260mm. The inclination of the track can be adjusted by the screw on the clamp after the support rod is inserted into the socket on the clamp.

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

Usually used together with the spark timer.

This Dynamic Track with Support Rod comes with a track, a trolley, a weight bucket, a table side clamp, and a support rod.

Dynamic Track with Support Rod

Main Technical Parameters

Dynamic Track with Support Rod Investigating Force, Mass and Acceleration by Dragging Paper Tape	Specification
SKU	0201010310B
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
Trolley	
Size	110 x 70 x 30mm
Weights	$200g \pm 6g$
Clamp	
Thickness clamping capacity	50 mm
depth clamping capacity	40 mm
Support rod	

Diameter	10 mm
Length	260 mm
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.