

# Friction Pad DTS

(Order Code DTS-PAD)



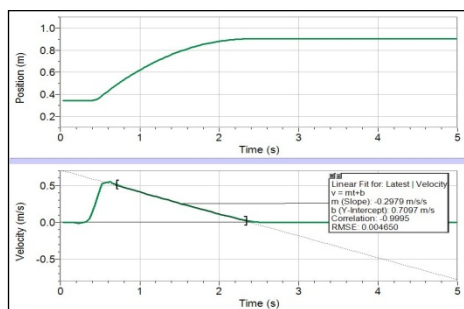
The Friction Pad DTS is a variable friction mechanism for use with the plastic Vernier Standard Cart or the plastic Vernier Plunger Cart. It can be used on any flat surface or, for best results, with the Vernier Dynamics Cart and Track System (order code DTS) to study the effects of friction. The Friction Pad DTS is not compatible with older metal carts; for those carts use the Cart Friction Pad (order code PAD-VDS).

## Assembly

Remove both collision tabs from one end of the cart. Insert the Friction Pad DTS into the exposed slots. Use the thumb screw on the Friction Pad DTS to adjust the friction.

## Sample Experiments

- Use a Motion Detector to study the accelerated motion of a Vernier Dynamics Cart rolling up and down an inclined plane. Set the Friction Pad so that a small friction is applied and repeat the experiment to observe the change in motion. Repeat the experiment with larger frictional forces.
- Use a Motion Detector to study the motion of a Dynamics Cart as it is pushed across a horizontal surface. Attach the Friction Pad and repeat the experiment. How did friction change the motion?



*Cart moving away from the Motion Detector and slowing down*

## Warranty

Vernier warrants this product to be free from defects in materials and workmanship for a period of five years from the date of shipment to the customer. This warranty does not cover damage to the product caused by abuse or improper use.



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