

Cart Friction Pad

(Order Code PAD-VDS)

The Cart Friction Pad provides adjustable friction for use with green metal Vernier Dynamics Carts. It can be used on any flat surface or, for best results, with the Vernier Dynamics Cart and Track System (order code VDS) to study the effects of friction.

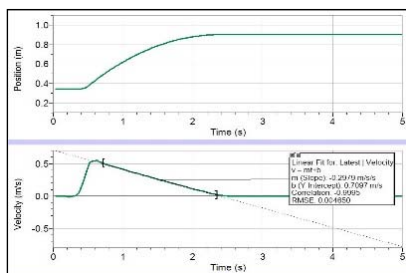
This accessory is not compatible with plastic carts. For plastic carts, use the Friction Pad DTS (order code PAD-DTS).

Attach the Cart

The Cart Friction Pad attaches magnetically to either end of a Vernier Dynamics Cart. Use the **thumb screw** to adjust the amount of 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 large 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

- Use the Friction Pad in conjunction with Cart Fan (order code FAN-VDS) to study the interaction between the fan's force and the force due to friction.



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