



Material

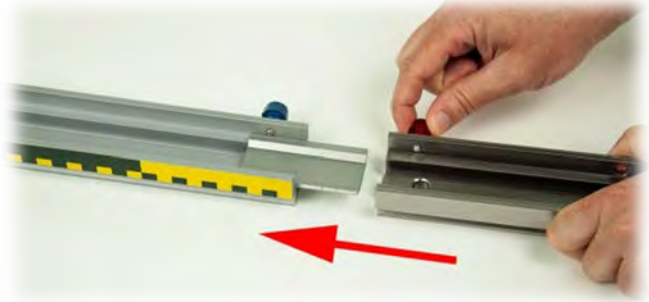
Item-no.	Qty.	Description
DS101-3B	1	Stand rail with scale, L=1000 mm
P7210-5C	1	Stand rail NTL, L=300 mm, SE
P5310-1S	1	Rail bond SE, universal
DS102-2G	1	Clamp saddle
DS103-1H	1	Holder for guide rail
DM362-1E	1	Baffle block
DM300-3A	1	Trolley with variable speed

Purpose

To show that a reference system is necessary to describe a movement.

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Connect the 100 cm stand rail and the 30 cm stand rail with the support of the rail bond as shown on the image below; afterwards mount the clamp saddle on the left side of the combined track.



Fix the holder for guide rail on the right side of the track and attach the baffle block to this holder; afterwards place the track on a stable surface.

Experiment

Place the trolley with variable speed on the track at different positions.
How can the place where the trolley is be defined?

One example would be through the distance from the end of the track.

Let the trolley drive slowly. The change of location (movement) can be described by the changing of the distance from the end of the rail (or beginning).

Way = change of location = way after - way before

Note

Other types of movement (such as the rotational movement / circular movement or the oscillation / oscillation movement) could also be presented, however it is always important to choose a suitable reference system..