

Narika product name:

Mechanical Energy equipment DE-45Y

Product Description:

Pile-driver type equipment for mechanical energy conservation related experiments

Catalog Number:

C15-2352-W0



Keywords:

- Kinetic energy
- Potential energy
- Theory of mechanical energy conservation



Benefits to users:

- To all users:
 - Narika's "Speed Measurement Light Gate" (BeeSpi V, S77-1321-W0) comes with the product make it possible to directly measure the velocity of the weight at the moment of impacting the pile.
- To teachers:
 - Better storage.
 - Small enough for better efficiency of experiments.

Overall advantages to users:

- Easy to confirm and understand the theory of mechanical energy conservation.
- By changing the height of dropping position of the weight, it is easy for students to aware that graphs they draw based on the actual measurement data (the depth of pile and height of dropping position) can be shown in the form of linear function, according to which they confirm the relationship between kinetic energy and potential energy as the theoretical formula ($K=mgh$).
- By changing the height of dropping position of the weight and measuring the velocity of the weight impacting the pile, it is easy for students to aware that graphs they draw based on the actual measurement data (the measured velocity and the height of dropping position) can be shown in the form of quadratic function curve, according to which they confirm the relationship between the height and velocity as the theoretical formula ($h=V^2/2g$).

Specifications

- Size: Entire height: 620mm, Main unit (pile driver): 80 x 70mm
- Accessories: ①Weight (3 types: Ratio by weight = 1:2:3), ②C-clamp, ③"Speed Measurement Light Gate" (BeeSpi V, S77-1321-W0)