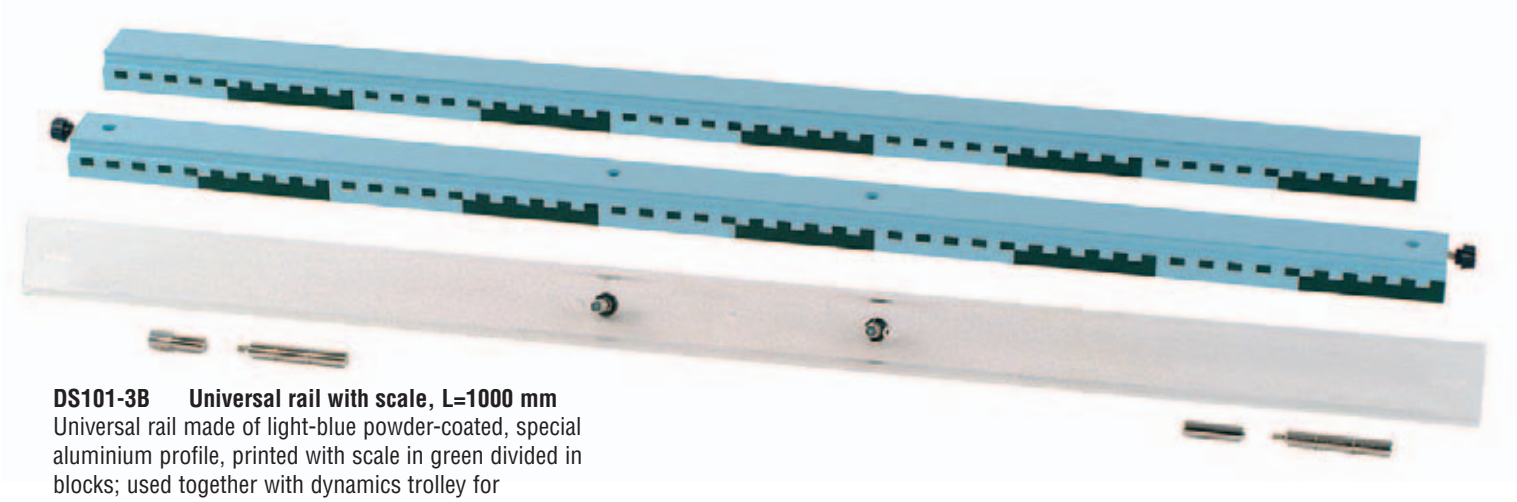
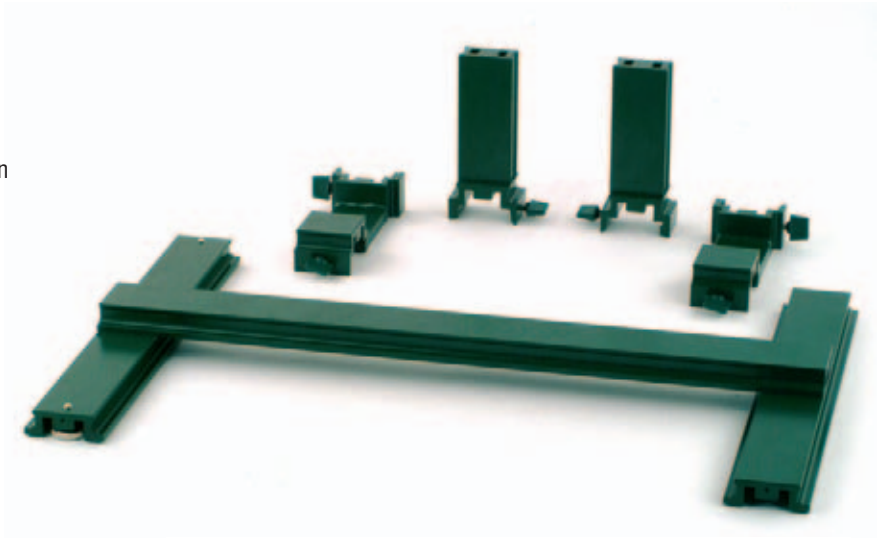


DS101-3B Universal rail with scale, L=1000 mm
Universal rail made of light-blue powder-coated, special aluminium profile, printed with scale in green divided in blocks; used together with dynamics trolley for demonstrations, DM300-2A, or as track for ball bearings 60 mm in diameter, DM360-ff

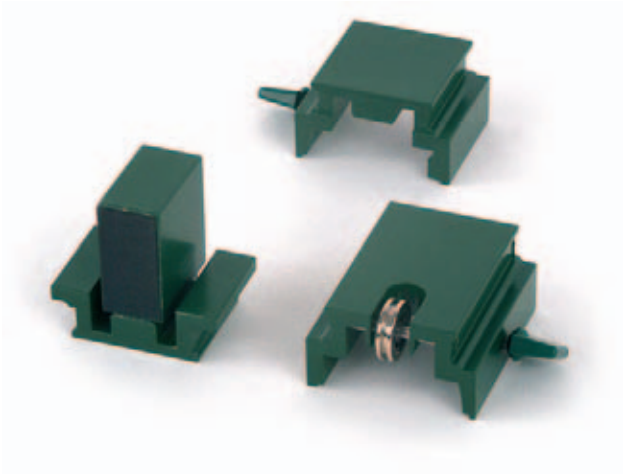
DS101-4B Universal rail with scale and holes, L=1000 mm
Model as DS101-3B, yet with four additional vertical holes for inserting and fastening the supports of the flexible acrylic track, L=1000 mm

DS101-2A Flexible track, acrylic, L=1000 mm
For use in experiments on non-uniform motion, conversion of "potential to kinetic energy" and "up- and downhill motion" of a trolley or ball bearing; Flexible acrylic panel, 54 mm in width, with longitudinal grooves for dynamics trolley for demonstrations

DS101-3A Supports for fastening flexible track, set of 2
Two rods with engraved graduations for continuously variable adjustment of the angle of inclination of the ends of the flexible acrylic track, DS101-2A, on the stand rail with scale and holes, DS101-4B
Dimensions: D=10 mm, L=110 mm



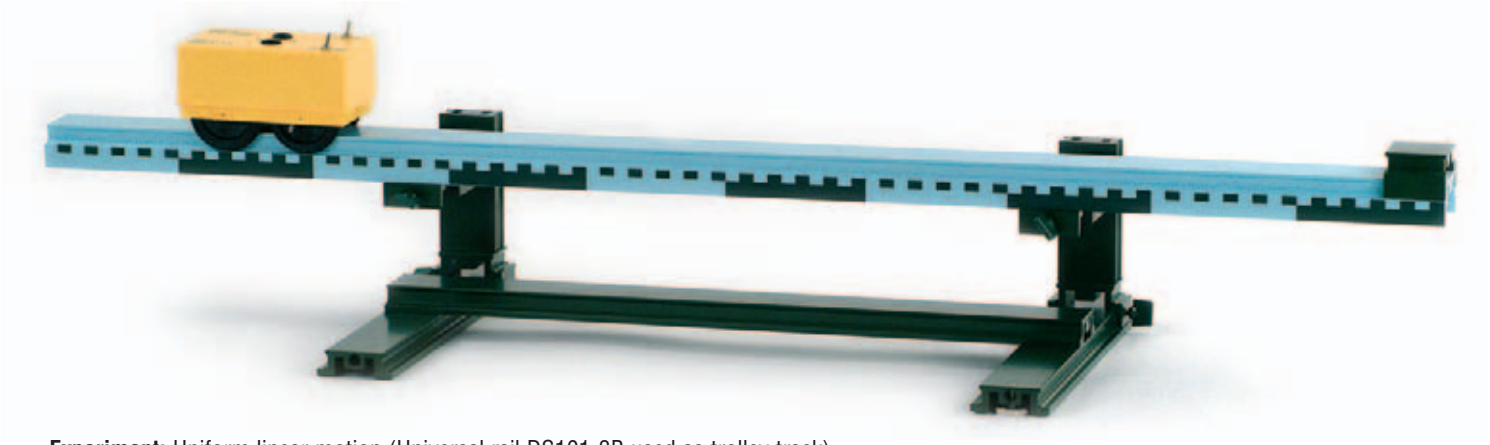
For fixing universal rails when used as trolley tracks:
DS101-1G Support base, large, L=500 mm
DS103-4G 2x Rail support stand, vertical, H=101 mm
DS105-4G 2x Rail holder



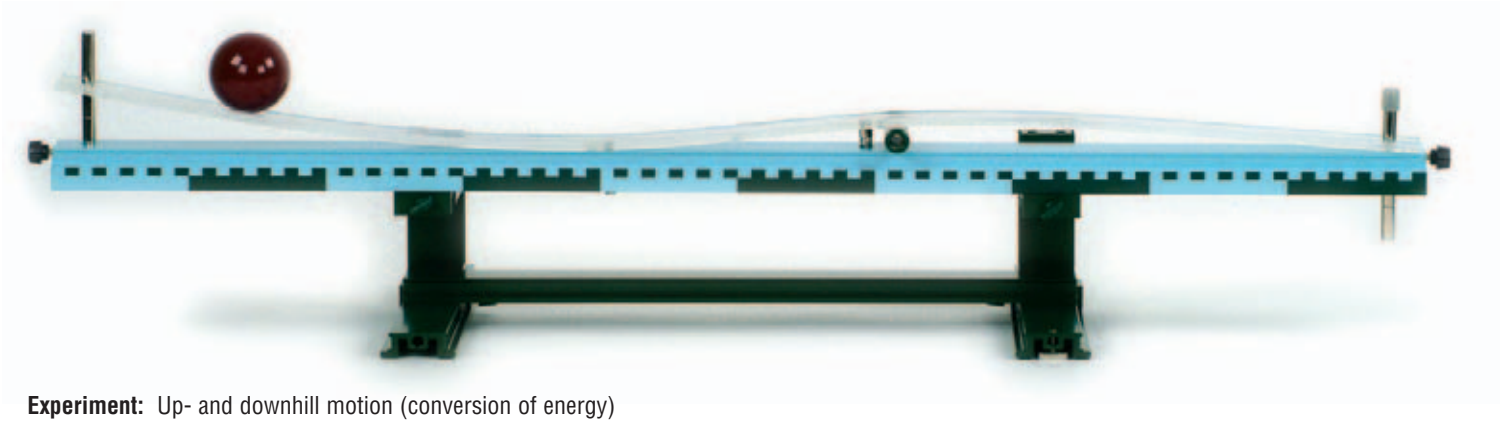
DS102-2G Clamp saddle
As means of braking dynamics trolley DM300-2A

DM361-1K Ball stopper on base
Aluminium block with rubber pad mounted on rail base, made of special aluminium profile, used as stopper at end of track, mounted and fixed on support rail when used as a track

DS104-2G Sliding saddle with pulley
Special aluminium profile, pulley with groove on ball bearing, one clamping screw; for mounting at the end of a support rail or for extending support rails DS101ff in conjunction with rail connector DS101-2G when used as a track



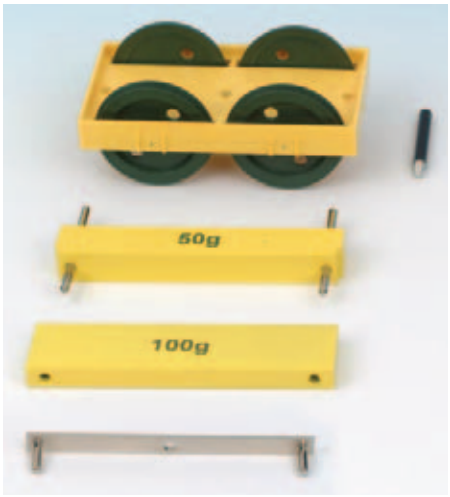
Experiment: Uniform linear motion (Universal rail DS101-3B used as trolley track)



Experiment: Up- and downhill motion (conversion of energy)
Universal rail DS101-4B with flexible track DS101-2A, supports DS101-3A and ball DM360-5R

Experiment:
Up- and downhill motion
(conversion of energy)
Universal rail DS101-4B with
flexible track DS101-2A, supports
DS101-3A and trolley with motor
DM300-1A

Experiment: Up- and downhill motion (shown on the demonstration board DS602-2A)



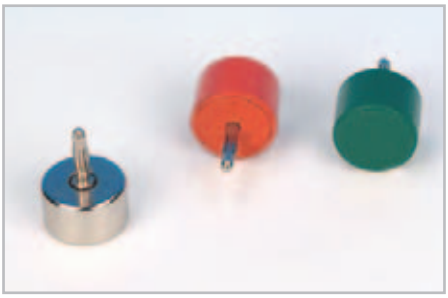
DM300-2A Dynamics trolley, demo, 50 g
Trolley body and wheels of ABS plastic, runs with very little friction, 4 mm holes at the ends for attaching devices with 4 mm plugs, 2 mm hole for attaching string with plug DM310-2S, two holes on the side for fastening weights DM325ff, one centred, tapped hole for screwing in turret DM300-1T
Dimensions of trolley body: 120x66 mm
Weight: 50 g

DM300-1T Turret for trolley
Metal pin with threaded end for holding slotted weights DM120-ff on dynamics trolley DM300-2A; dimensions: 6x50 mm

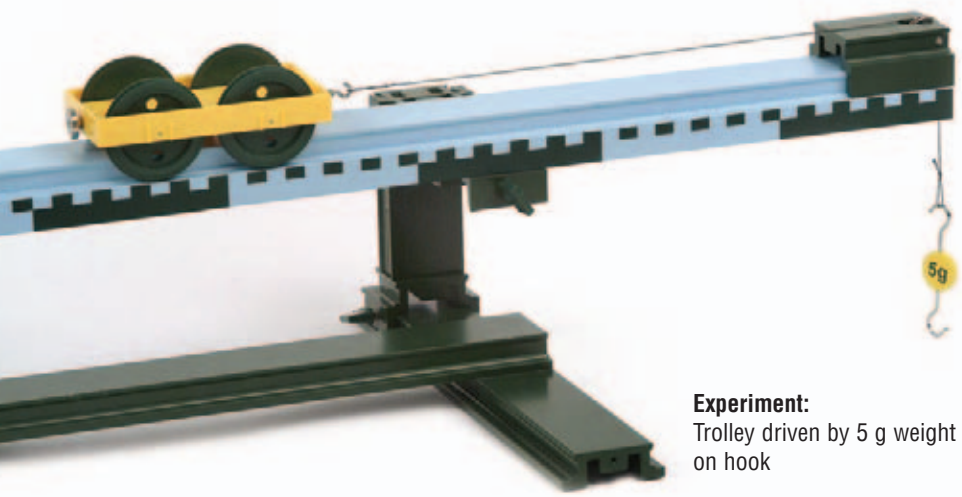
Additional weights for dynamics trolley DM300-2A:
DM325-20 Additional weight 20 g
DM325-50 Additional weight 50 g
DM325-01 Additional weight 100 g

Not shown:
DM310-2S String with plug for trolley
2 mm plug with string; string length: approx. 110 cm

DM300-1A Trolley with motor
Body and wheels of ABS plastic; built-in, battery-powered motor (two 1.5 V mignon cells included); ON/OFF switch as well as switch for selecting two speeds; two 4 mm safety jacks for external power supply or for connecting solar panel accessory DM311-1S providing solar power. For describtion please see page 246.
Dimensions: 124x69x85 mm



DE411-2G Round magnet with plug, green, D=26 mm
DE411-2R Round magnet with plug, red, D=26 mm
DE411-3M Metal cylinder with plug, unpainted, D=26 mm
(see following page for use of these devices)

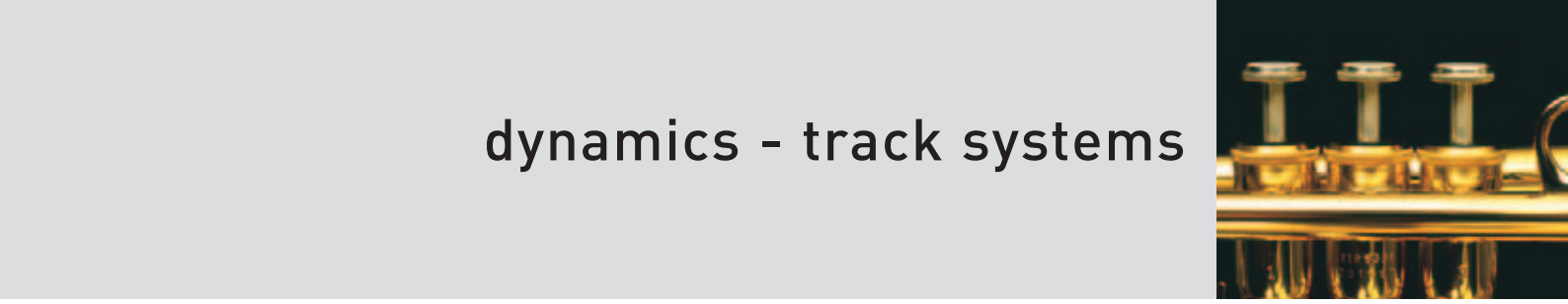


Experiment:
Trolley driven by 5 g weight on hook

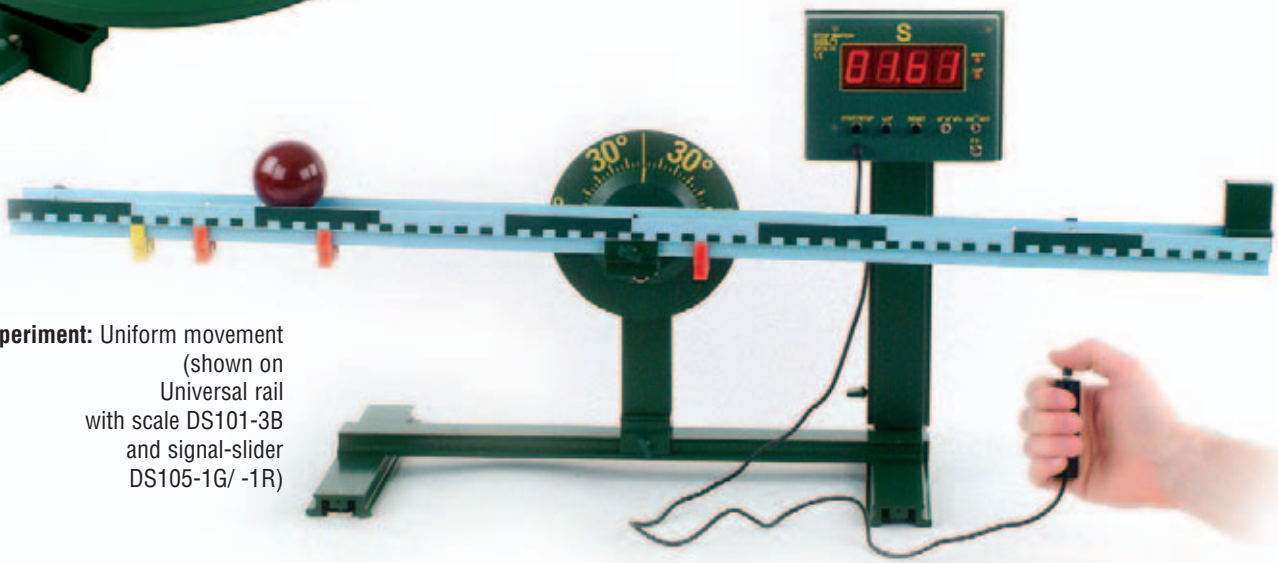
Weights for driving trolley:
DM120-1A Weight on hook 2 g
DM121-1A Weight on hook 5 g
DM121-1N Weight on hook 1N
(see following page for use of these devices)

Launcher magnetic:
DS102-3B Clamp saddle with fixing screw
DM281-2M Round magnet with plug, D=13 mm
DM281-1H Hook with plug
(see following page for use of these devices)

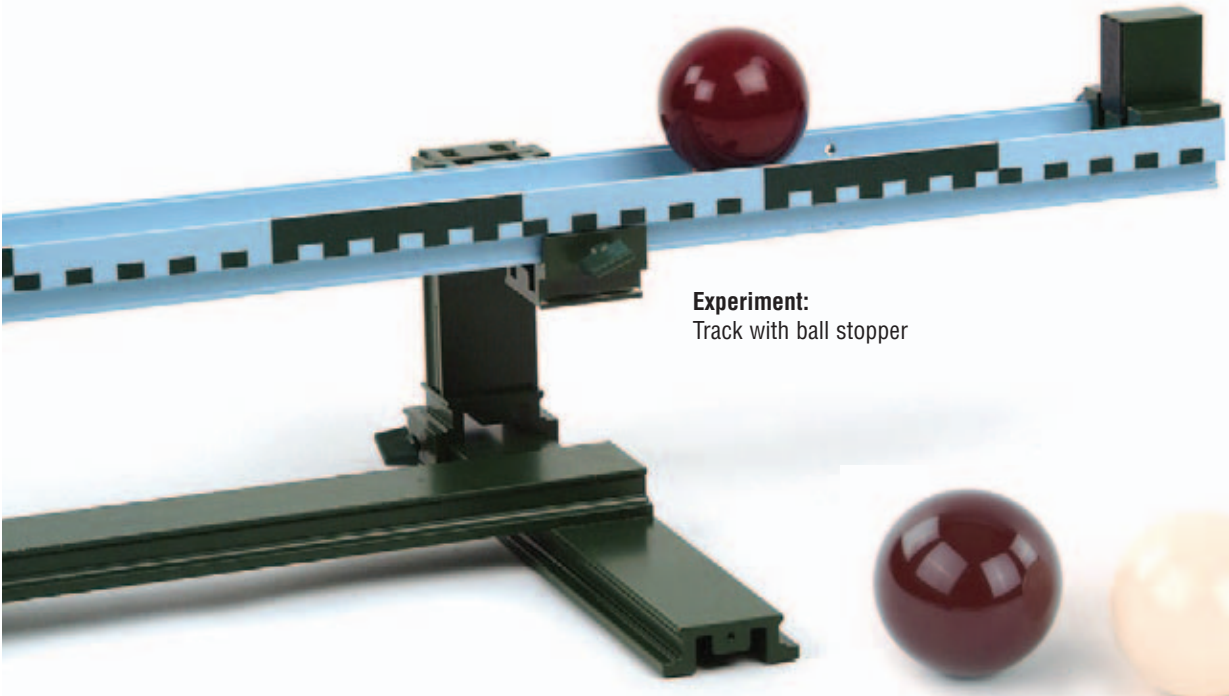
Electromagnetic launcher and drive accessories:
DS102-3B 1x Clamp saddle with fixing screw
P3911-2R 1x Coil with 800 turns, blue
P3911-2G 1x Iron core, slotted with screw
P7100-1A 1x Cord, 30 m roll, high tensile strength
P3310-7S 2x Connecting leads, 4/2 mm
P3711-1F 1x Screw, short
Metal screw with M3 thread, head D=10 mm
DM281-2K 1x Plug with contact plate
DM281-1H 1x Hook with plug
DM121-1A 1x Weight on hook 5 g



DS107-3D Track holder, rotatable, with degree scale
For holding and rotating support rails by means of rail support stand DS103-ff and clamp saddle DS102-2G; aluminium disk attached to saddle made from special profile, with clamping screw for mounting on rail support stands DS103-ff using clamp saddle DS102-2G, on vertically arranged support rails or on the assembly panel DS602-2A
D=160 mm, green powder-coated, printed with degree scale in yellow
Scale: 0° to 90°, left and right, in 5° graduations



Experiment: Uniform movement (shown on Universal rail with scale DS101-3B and signal-slider DS105-1G/ -1R)

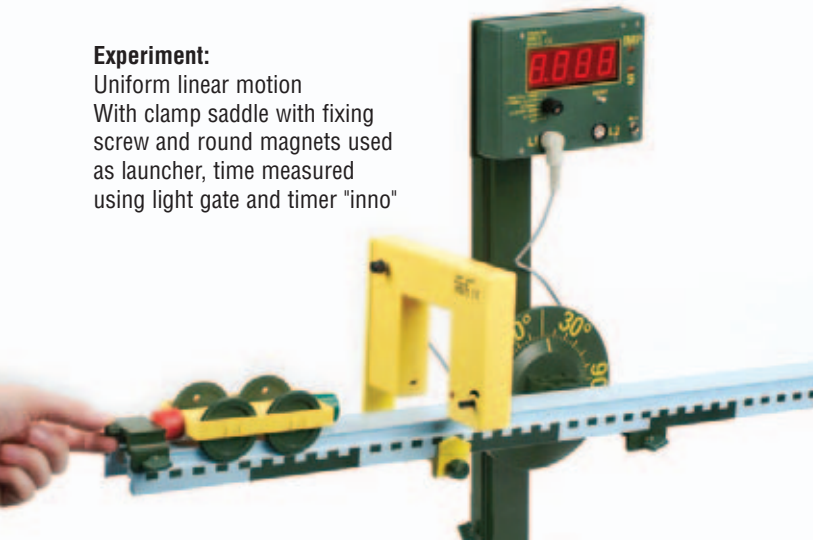


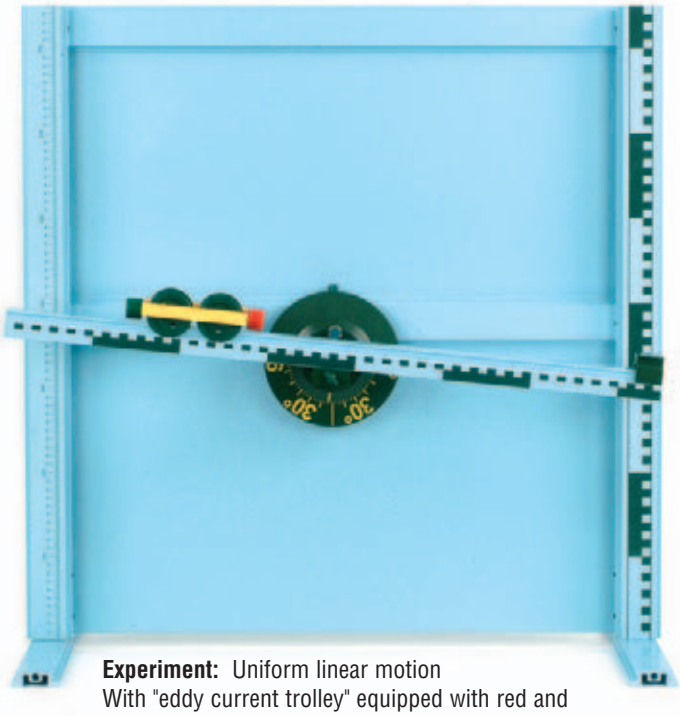
Experiment:
Track with ball stopper

DM360-5E Ball, steel, D=60 mm
DM360-5R Ball, plastic, red, D=60 mm
DM360-5W Ball, plastic, white, D=60 mm

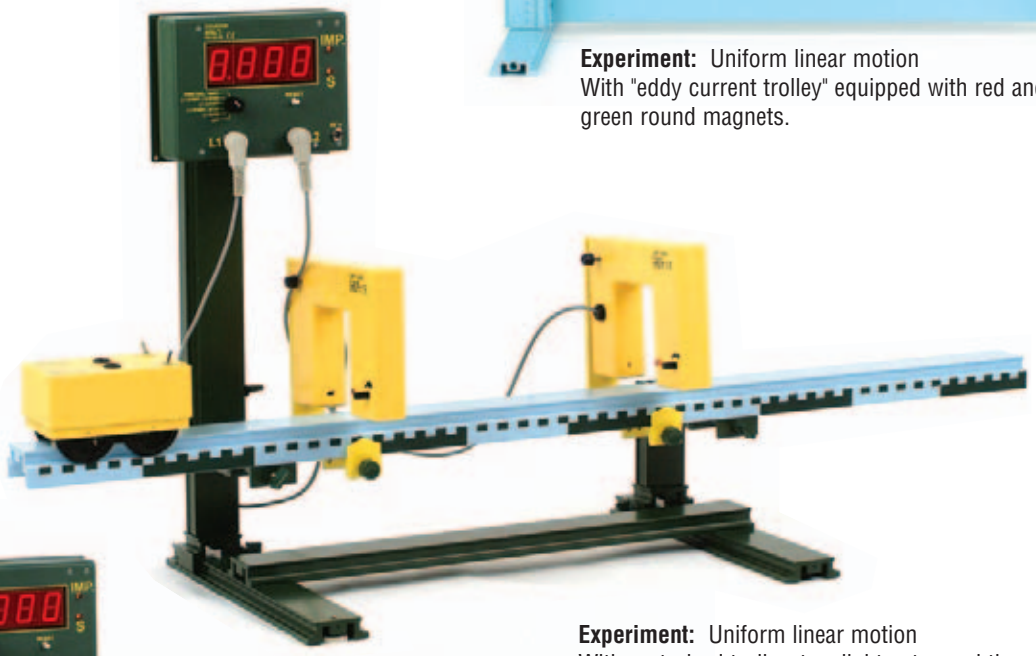
dynamics - track systems

Experiment:
Uniform linear motion
With clamp saddle with fixing screw and round magnets used as launcher, time measured using light gate and timer "inno"



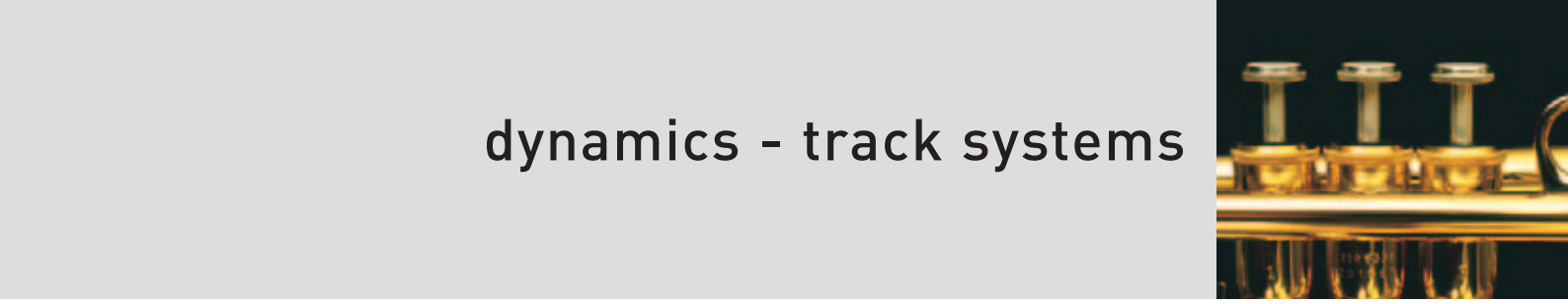


Experiment: Uniform linear motion
With "eddy current trolley" equipped with red and green round magnets.



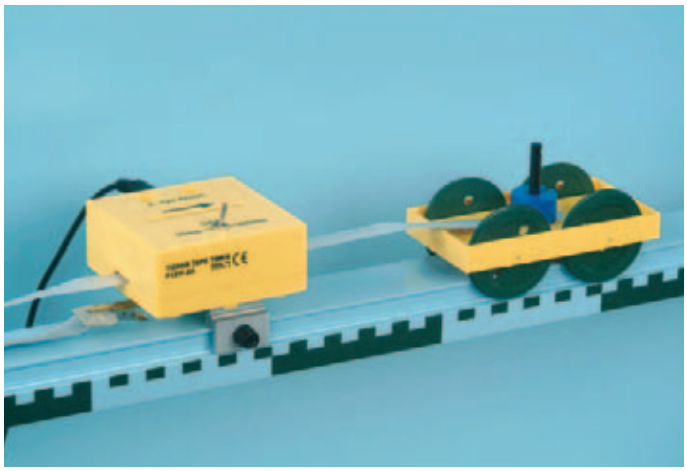
Experiment: Uniform linear motion
With motorized trolley, two light gates and timer "inno"

Experiment: Uniformly accelerated motion
With launcher and weight on hook for driving trolley, time measured using two light gates and timer "inno"

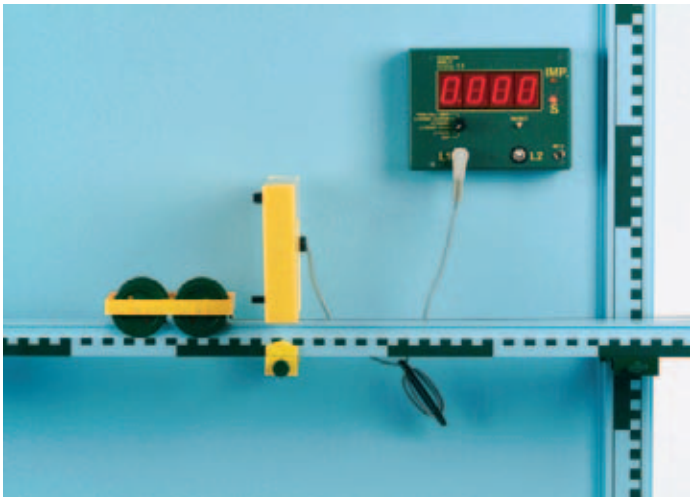


Experiment: Uniformly accelerated motion
With electromagnetic launcher and weight on hook for driving trolley, time measured using launcher, light gate and timer "inno"

Experiment:
Non-uniform linear motion, measurement of average velocity using stopwatch "inno"



Experiment: Uniformly accelerated motion
Time measured using ticker tape timer
(for technical description see page 60)



Experiment: Uniformly accelerated motion
Experiment on assembly panel using timer "inno"