



Material:

Item-no.	Qty.	Description
DS101-1G	1	Support base, large, L=500 mm
DS093-04	1	Sliding saddle "Sepp", H=40 mm
DS300-50	1	Support rod, squared, L=500 mm, 12x12 mm
DS400-3K	1	Bosshead cross-pattern, Demo, green
DS204-2L	1	Bearing pin with clamp insert
DM221-1H	1	Lever rod, metal, L=1000 mm
DM220-3B	2	Scale pan with handle
DM120-1E	1	Balance weights set, 1g - 1000 g
DM115-1A	1	Lead (tare) shot, 250 g

Purpose

Determination of masses by comparison with known masses (Balance weights set).
Application example for the two-sided lever (see MED 03.07).

Preparation

Place the sliding saddle in the centre of the large support base;
afterwards mount the support rod in the sliding saddle.

Fix the cross-patterned bosshead at a height of 30 cm on the support rod.
Remove the bearing pin from the clamp insert and insert the bearing pin in the upper hole of the lever rod. Afterwards place the clamp insert over the bearing pin again and mount it on the cross-patterned bosshead.

Make sure that the bearing pin with clamp insert does not block the lever rod in any way.

Now the scale pans can be hung to the ends of the lever rod.

Experiment

With the help of the balance weights set the mass of various objects can now be determined.

Note

Such balances are used as precision balances at Goldsmiths or pharmacy stores.