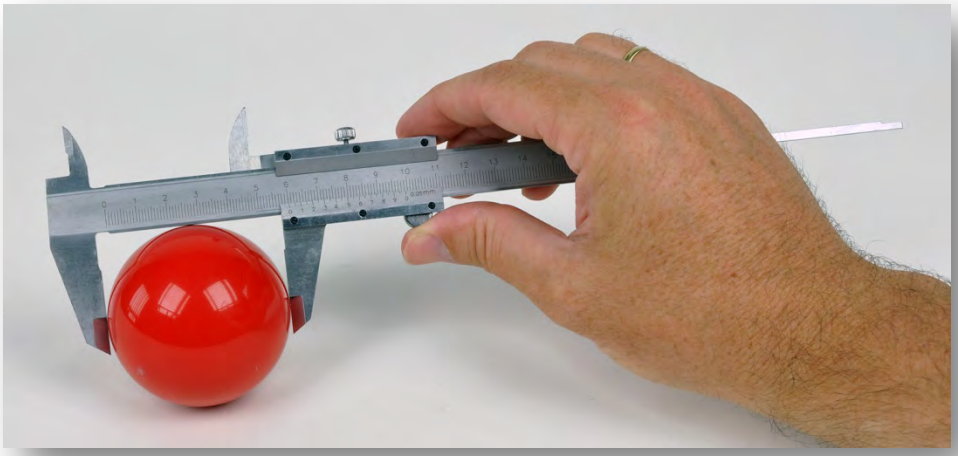
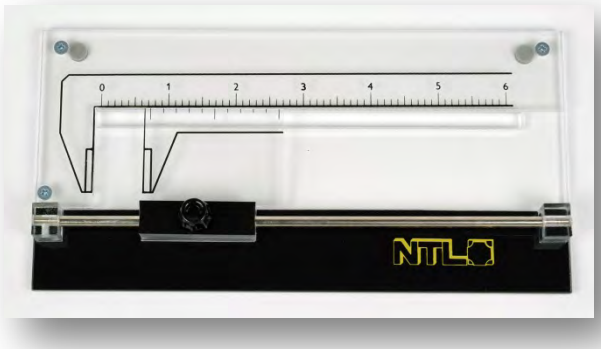
MEASURING LENGTH – VERNIER CALIPER

MED 01.01



Material:

Item-no.	Qty.	Description
DG100-1L	1	Vernier calliper, metal
Optionally: P1100-2B	1	Vernier calliper, plastics
Or: DF120-1S	1	Calliper - model, Overhead-model



© Fruhmann GmbH, Austria

MEASURING LENGTH – VERNIER CALIPER

MED 01.01

Purpose
Measurement of length, inner diameter and depth.

Experiment
Outer lengths are measured between the lower legs, inner lengths by sliding apart the upper measuring tips and depths with the rod emerging at the end.

First the whole mm are determined, which are before the first graduation of the "Nonius". Then you determine which graduation mark of the “Nonius scale” coincides with a mm graduation mark, this gives the number of tenths-mm for the plastic Vernier calliper or the number of the twentieth-mm for the metal Vernier calliper

Measurement suggestions
Thickness of screws, a ruler or a notebook inner diameter of a plastic tube, depth of hole

Explanation
The DF120-1S Overhead function model can be used to explain the Nonius. If 9 mm are divided into 10 parts, then such a part has a length of 9/10 mm - therefore the slide must be moved 1/10 mm so that the first graduation coincides with the first mm-graduation.

Note
The Vernier calliper is used particularly frequently in metalworking companies.

© Fruhmann GmbH, Austria