

Unter <http://www.sme.org/cgi-bin/get-item.pl?DV03PUB25&2&SME&> kann auf einen Ausschnitt aus einer DVD der „Society of Manufacturing Engineers“ (SME) zugegriffen werden. Der Ausschnitt ist ca. 2 Minuten lang und veranschaulicht Nutzung und Funktionsweise einer Bügelmessschraube. Nachfolgend finden Sie das Skript zu dem Videoclip.

Under <http://www.sme.org/cgi-bin/get-item.pl?DV03PUB25&2&SME&> you can access a sample clip from a DVD by the Society of Manufacturing Engineers (SME). The sample clip is about 2 minutes long and describes use and function of a micrometer. Here you find the script to the video clip.

## Micrometers

Micrometers are produced in various precisions, both in metric and English units. In every case it is the thread pitch of the spindle screw that makes each type different. The thread pitch is the distance between two adjacent thread crests. In this example, the thread pitch of the micrometer spindle screw is precisely 0.5mm. Each revolution of the thimble moves the micrometer spindle one half millimetre.

The micrometer has a reading line on the sleeve. The vertical graduations on the top of the reading line each represent a single millimetre. The vertical graduations below the reading line indicate half millimetres.

The bevelled edge of the thimble is graduated into 50 divisions. Since a single revolution of the thimble moves the spindle 0.5 millimetres, each thimble graduation equals 1/50 of 0.5 millimetre or 1/100 of a millimetre.

The thimble is rotated and the spindle advanced until the feature is held between the anvil and the spindle face. To read this micrometer, add the number of millimetres and half millimetres visible on the sleeve to the number of hundredths of a millimetre indicated by the thimble graduation which coincides with the reading line on the micrometer sleeve.