



**Pencil Hardness Tester**  
 Manufactured under  
 ISO 9001 Quality Management System

# Pencil Hardness Tester

Use this simple tool to determine the hardness and scratch resistance of a coating. A pencil of known hardness is held at a 45° angle and moved across a coated surface at 1mm/s while applying a known pressure (7.5N / 1.68lbf / 750g).

The resistance of a coating (also known as its pencil hardness) is indicated by the grade of the hardest pencil that does not permanently mark the coating. See the table below for a list of ranking of pencils by hardness.



### ► Features

- Easy to use
- All manual
- Low Cost

### ► Technical Specifications

Pressure of Pencil Tip 7.5N / 1.68lbf / 750g

45° angle between pencil and surface to be tested

Tested surface is touched at three points – 2 rollers, and pencil tip

14 pcs. Mitsubishi brand pencils, from 6H to 6B

Standards: ASTM D3363 and ISO15184

Model No.	Pressure
CA-22110	5 N / 1.1 lbf / 500g
CA-22120	7.5N / 1.68lbf / 750g (most popular)
CA-22130	10 N / 2.2 lbf / 1000g

### ► Hardness Ratings

