

Pencil Hardness Tester



Model: HT-6510P

Introduction

Coating hardness is the necessary measurement for the performance of coatings. This instrument applied the Pencil Scratch Method. It is a fast and economical way to determine the film hardness using the drawing lead core or the pencil core. The pencil scratch method for coating hardness testing is a common method in the world since the 1980s. In China, this test method has also been promoted to the coating research and industrial production. The instrument is used both in laboratory and on site.

Principle

The instrument applies mechanical measurement. Keep three point touch the coating (two wheel, a pencil core), and a 45 degree angle between pencil and test surface. Push the instrument sliding, pencil draws the corresponding track in the coating. In the change of different pencil marks, the hardness value of the film can be determined.

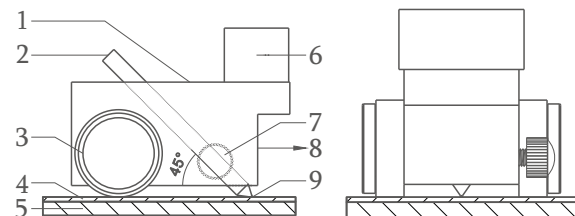
Standards

《GB/T 6739-96》 Coating Hardness Pencil Test Method
 《ASTM D3363-00》 Standard Test Method for Determination of Coating Hardness by Pencil Test Method
 《GB/T 1727-92》 General Method for Preparing Film

Specifications

Load Weight	1000g / 750g / 500g
Measurement Angle	45°
Three Touch Points	Two Wheels, a Pencil Core
Scratch Speed	About 1mm/s
Standard Configuration	Pencil Hardness Tester
	1000g Weight
	750g Weight
	13 Pencils (6B-6H)
	Eraser
	Knife
	Horizontal Pad Block
	Sandpaper

Structure Description



- 1 - Horizontal Mark
- 2 - Pencil
- 3 - Wheel
- 4 - Coating
- 5 - Base Material
- 6 - Weights
- 7 - Screw
- 8 - Moving Direction
- 9 - Pencil Core