



Description:

- Indenter hardness test is a vital component, the accuracy and quality of the indenter is an important factor to ensure the accuracy of the indication.
- due to the different test methods, indenter have different materials, different geometries and different accuracy requirements.
- According to the manufactured Materials, Indenter can be divided into: steel, carbide, artificial corundum and natural diamond.
- According to the shape can be divided into: spherical, conical, cylindrical, positive angle of vertebral and vertebral diamond.
- According to the test methods can be divided into:
 - 1) Brinell: diameters 10mm, 5mm, 2.5mm, 1mm carbide ball indenter.
 - 2) Rockwell: a diameter of 1.588 and 3.175, 6.35, 12.7 quenching cargo carbide ball or ball diamond indenter cone angle of 120 °.
 - 3) Vickers is the opposite angle of 136 degrees plus or minus 5 ° of being surrounded by pyramidal diamond indenter.
 - 4) Scratch hardness tester is a 90 °, 120 ° conical diamond indenter.
 - 5) Shore hardness is a diamond cylindrical drift.

Indenter in Rockwell Hardness Tester:

Indenter in Rockwell Hardness Tester					
Indenter	Diamond Indenter	Ball Indenter			
specification	120°	1/16"	1/8"	1/4"	1/2"
Compatible machine	Rockwell hardness tester, Superficial Rockwell hardness tester, Twin Rockwell hardness tester, Plastic Rockwell hardness tester Universal Hardness Tester				

Indenter in Brinell Hardness Tester:

Indenter	Indenter in Brinell Hardness Tester			
specification	φ10mm	φ5mm	φ2.5mm	φ1mm
Compatible machine	Brinell hardness, Low Load Brinell Hardness Tester			

Indenter in Vickers / Knoop / Micro Hardness Tester:

Indenter	Indenter in Vickers		Indenter in Micro	Indenter in Knoop	
Compatible machine	Vickers Hardness Tester	Universal Hardness Tester	Micro Hardness Tester	Knoop Hardness Tester	Twin-indenter Hardness Tester