



Rotary Abrasion Tester Single & Dual Wheel

Standards: [ASTM D1044](#), [ASTM D3884](#), [ASTM D4060](#),
[ASTM F1978](#), [DIN 53754](#), [DIN 53799](#), [DIN 53109](#), [DIN 52347](#),
[ISO-5470](#), [ISO-7784-2](#), [ISO 9352](#)



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Description

GenRotary is NextGen's Rotary Abrasion Tester is widely used to evaluate wear resistance. It can conduct tests on a wide range of materials such as: cloth, paper, paint, plywood, leather, tile, glass, rubber etc. It tests the specimen by rotating it while in contact with the grinding wheel and applying the required pressure. The Loss of weight reflects on the change in weight of the specimen.

The unit also comes standard with an intelligent power failure recovery function.

The test applies to material thicknesses between 6.35mm to 40mm. A flat square or round specimen of roughly 100mm is mounted on the system which rotates at a fixed speed vertically. Rotary's wheels are lowered onto the material at a specific pressure. The X pattern of abrasion produced by the double rotary action allows for an accurate identification of the materials' wear and tear. The Rotary abramer comes standard with a full range of auxiliary weights, specimen holders, abrasive wheels, wheel refacer and vacuum unit.

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Technical Specifications of Rotary Abrasion Tester Single Wheel

Specimen Size (Outer Diameter)	108mm ID:8mm ,3mm
Abrasion Wheel	2"(max.45mm), 1/2"(W)
Wheel Center Distance	63.5mm
Rotating Speed	60/72 rpm
Loads	250g, 500g, 1000g
Counter	LCD Touch screen, 0-999,999 Automatic shutdown
Wheel and Specimens disk center space	37-38mm
Machine Size (L*W*H)	20.86" x 12.60" x 12.20" 53cm x 32cm x 31cm (Including vacuum cleaner)
Weight (kg)	40 lbs / 18kg (Excluding vacuum cleaner)
Power	AC110V / AC220V/50Hz
Wear index calculation formula	Abrasion loss weight/test turnover number x1000



Rotary Abrasion Tester Dual Wheel



The dual wheel abrasion tester is suitable for testing a variety of materials such as fabrics, paper, coatings, plywood, leather, floor tiles, glass, and natural plastics, among others. The testing procedure involves positioning a rotating specimen between a pair of wearing wheels and applying a specified load. As the test material rotates, it impels the wearing wheels to cause abrasion on the test material. The weight loss resulting from the wear is determined by the difference in weight of the test material before and after the test.



Watch Video



Watch the Rotary Abrasion Tester Single & Dual Wheel product video.

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Rotary Abrasion Tester Dual Wheel Features

- **Unique wear process:**

The distinctive wear process entails placing the test material on a turntable, where two grinding wheels exert a specific weight on the material to induce wear. As the material wears, the surface goes through all-around particle abrasion, forming a complete circular pattern. The grinding wheel spins along with the spinning sample plate, causing them to move against each other, which gradually wears away the material.

- **Simulating Real-World or Standard Testing Conditions:**

This testing machine can mimic real-world usage conditions or follow specific testing standards. It offers the flexibility to choose from different wear materials and accessories for various tests. Moreover, it allows you to select from two speeds (60 and 72 revolutions per minute) and three different loads.

- **Vacuum Cleaning for Removing Debris:**

A vacuum pump's suction arm is connected to an adjustable part at the back of the machine through a hinge. This allows you to easily adjust the height to match the thickness of different samples.

Technical Specifications of Rotary Abrasion Tester Dual Wheel

Specimen Size (Outer Diameter)	108mm ID:8mm
Abrasion Wheel	2"(max.45mm), 1/2"(W)
Wheel Center Distance	63.5mm
Rotating Speed	60/72 rpm, adjustable
Loads	250g, 500g, 1000g



Counter	LCD Touch screen, 0-999,999 Automatic shutdown
Wheel and Specimens disk center space	37-38mm
Distance between test piece and vacuum cleaner	3mm
Machine Size (L*W*H)	35.5" x 27.5" x 16.5" 90cm x 70cm x 42cm
Weight	132lbs / 60kg
Power supply	AC 110V, 10A

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