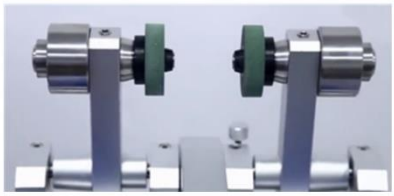
Rotary Abrasion Tester



Introduction

Rotary abrasion tester is designed for determining the resistance of cloths, paper, paints, plywood, leather and natural rubber to abrasion. Resistance to abrasion is defined as the ability of a material to withstand mechanical action such as rubbing, scraping, or erosion. The test is made by abrading the specimen against the sand wheel.

The principle of abrasion derived by the test sample, turning on a vertical axis, against the sliding rotation of 2 Abrading Wheels. The wheels are driven by the sample in opposite directions about a horizontal axis displaced tangentially from the axis of the sample One of the abrading wheel rubs the specimen outward toward the periphery and the other wheel, inward to the centre. The area of abrasion from a pattern of crossed arcs of about 30cm².

The degree of abrasion for the specimen also depends on the load force 500g, 750g or 1000g on each arm being acted on the axial of the both arms, which has a load pressure of 250g.

Standard according to DIN 52347 53109 53754 53799, ISO 5470, 9352, 3573, 4586-2, 7784-2, ASTM C217, D1044, D3389, D4060, D5342

Feature

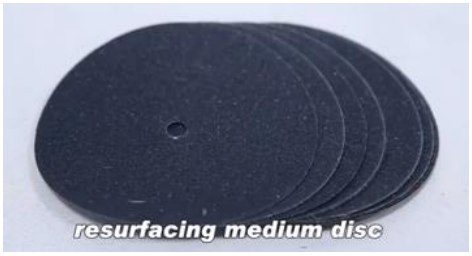
*Can select many different sorts abrasion medium for different tests.
*Specimen turntable speed control options of both 60 rpm and 72 rpm.
*LCD display for accurate and convenient setting and monitoring to the whole test.
*Three different precise stainless steel weights 500g, 750g, 1000g ensure the different requirements for different loads. Weights are marked to show total load on each wheel. This marking includes the weight of the abrading arm 250 grams
*Abrading arms and fixing sleeve of abrading wheel have been calibrated and balanced before leaving factory.
*A vacuum system is included and equipped with cleaner to move the loose abrading's or any dirt
*A precision vacuum nozzle adjustment control allows the height to be modified for accommodating varying specimen thickness.

*A Quick Release Mounting Hub permits quick wheel mounting without the need of a locking nut.

Specification

Model	EI-RA100-10	EI-RA100-17
Application	Wood	Paint film
Abrading wheels	Rubber abrasive wheel	CS-10 / CS-17
Platform speed	60 rpm & 72 rpm, Selectable	
Cycle Timer	0 – 9999 cycles	
Specimen sizes	Ø130 / 100x100mm	Ø100
Abrasive sheet	Abrasive strip	Ø50
Load weights	500g, 750g & 1000g	
Rate power	25w	
Rate voltage	240v 50Hz	
Dimension	260x410x280mm	
Weight	20kg	

Standard accessories: Taber abrading wheel x2, Six loading weight, glass plate x5, vacuum cleaner, power cord, operation manual, calibration certificate.	
Optional Accessories	
CS-10 Taber Abrading wheels	Suitable for organic coatings, plastics, textiles, leather and paper products.
CS-17 Taber Abrading wheels	Suitable for anodized aluminum, powder coatings, ceramics, plastics and enamels.
S-11 Taber Resurfacing disc	Used for refreshing resilient wheels. Ø100mm (pack of 100)
Part 1368	180# Emery cloth strip (pack of 100)
Part 1372	Fixing ring for soft specimen
Part 2601	Glass panel with circular hole (pack of 100)
Part 2328	Aluminum panel with circular hole (pack of 100)



abrasive strip for wood