

Rotational Abrasion Tester

BGD 523 Rotational Abrasion Tester is applicable to determine abrasion resistance performance of various coatings. It is also used to determine abrasion resistance of paper, plastic, textile fabric, decorations, etc.

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 30sq.cm

The degree of abrasion for the specimen also depends on the load force (500g, 750g or 1000g on each arm) being acted onto the axial of the 2Arms, which has a load pressure of 250g

It confirms 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.
- ◆ Equipped with S-11 Resurfacing medium disc from Taber company
- ◆ Equipped with a pair of standard abrasive rubber wheel CS-10 or CS-17 from Taber company

Main Technical Parameters:

- ★ Platform speed: $60 \pm 2r/min$ or $72 \pm 2r/min$
- ★ Range of count: 0 ~ 9,999 times
- ★ Specimen size requirement: $\Phi 100 \times \Phi 8$ (center hole) $\times 3mm$
Thickness: BGD 522 $\rightarrow 20mm \sim 25mm$; BGD 523 $\rightarrow 0 \sim 5mm$
- ★ Dimension of abrasive sheet: $\Phi 50 \times \Phi 16$ (center hole) $\times 13mm$
- ★ Load weight: 500g-750g-1000g
- ★ Main motor power: 25W 220V 50Hz
- ★ Overall Size: 260 \times 410 \times 280mm (L \times W \times H)
- ★ Net Weight: 20KG
- ★ **Ordering Information:**
 - BGD 522---Rotational Abrasion Tester (for wood)
 - BGD 523---Rotational Abrasion Tester (for paint film)
 - CS-10---Taber Abrading Wheels (For Organic coatings, plastics, textiles, leather)
 - CS-17---Taber Abrading Wheels (For Anodized aluminum, powder coatings, ceramics, plastics and enamels)
 - CS-11---Taber Resurfacing Disc (150 grit abrasive paper, typically used for refreshing resilient wheels. 100 mm diameter with a 6.35 mm center hole, 100 pcs)
 - BGD 1368---180 # Emery cloth stripe (pack of 100)
 - BGD 1372---Fixing ring for soft specimen.
 - BGD 2601---Glass Panel with circular hole (pack of 100)
 - BGD 2328---Aluminum Panel with circular hole (pack of 100)
 - BGD 2339---Standard Zinc Panel for calibration (pack of 10)

