

# ABM - DIN ABRASION TESTER

EN

ASTM  
D5963

DIN  
ISO  
4649

The Bareiss ABM is a DIN abrasion tester ideal for assessing rubber resistance to abrasion by weighing the volume loss of the specimen. The model comes with optional feature such as real time auto-cleaning or specimen heating.



Rubber products such as tires, shoe soles, conveyor belts are all prone to abrasive wear and therefore their physical ability to resist such wear determines their operational lifetime.

The Bareiss DIN abrasion tester is built to conform to both DIN and ASTM standards. The principle of the test is to run a piece of weight-defined specimen across a rotating drum covered with a sheet of P60 abrasive paper at a traveling distance of 20 or 40 meters. The loss of the specimen volume is calculated by weight loss before and after the test. The specimen holder can stay stationary or rotate depending on the preferred test method.

## TEST METHODS

Method A with stationary specimen

Method B with rotating specimen

Traveling distance at 20 or 40 meters

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A

Features real time auto cleaning. It helps reduce the specimen debris by brushing it off the drum and sucking it away with an attached vacuum cleaner. With a push of one single button can switch on/off both the ABM and the vacuum cleaner.



#### Cleaning device

mounted on top of the drum and can effectively brush off excessive debris while the test is being performed.



#### Vacuum cleaner

commercial or industrial grade. Can be purchased separately from Bareiss or a local supplier.

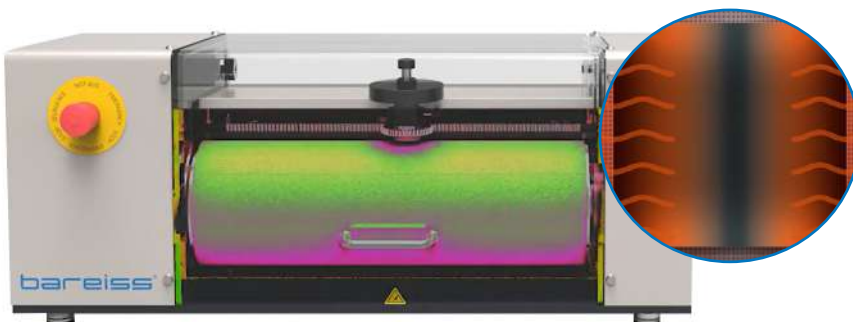


#### Bristles

10 extra replacement bristles. The bristle can be easily exchanged by the machine operator.

B

Features heated drum up to 100° C for simulating rubber resistance to abrasive wear in high temperatures.



#### Heater

The heater consists of a controller and a drum heating technology which can effectively crank up the temperature up to 100°C.

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## ACCESSORIES



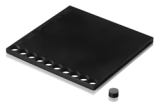
### Conditioning steel block

This steel block is used to adjust the coarseness of the abrasive paper.



### 10 N dead weight

This additional 10N dead weight is to apply additional friction during the test. This would only be necessary for a specific test method.



### Reference rubber sheet

**ISO 4649** Used as reference tests for checking if the abrasive paper has been properly conditioned. Non-rotating and rotating options available.



### Circular cutting device

This is a perfect cutting device to precisely cut your specimen into the right size  $\varnothing$  16,2 mm.



### Abrasive paper set

Consists of 5 sheets of P60 grade abrasive paper and a roll of heat-resistant tape.

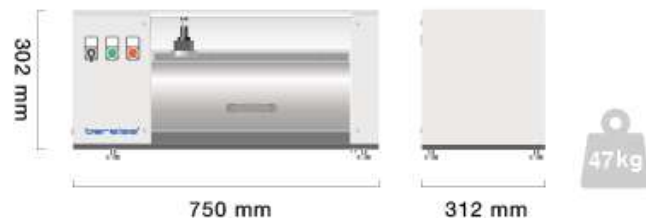


### DAkks calibration certificate

The official calibration certificate which conforms to DIN EN ISO/IEC 17025.

## SPECIFICATIONS

<b>Contact load:</b>	N 2.5 to N 20,0
<b>Drum diameter:</b>	150 mm
<b>Drum circumference:</b>	460 mm
<b>Testing distance:</b>	40 or 20 mm
<b>Rotating speed:</b>	0.32 m/s
<b>Specimen size:</b>	$\varnothing$ 16 mm/t=6 mm
<b>Testing angle:</b>	3°
<b>Abrasive paper grit:</b>	P60



MADE IN GERMANY SINCE 1954.

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The accreditation is valid for the scope listed in certificate D-K-15206-01-00 (mechanical measurands in the range of hardness).