

# ABRASION TESTING MACHINE

EN

ASTM  
D5963

DIN  
ISO  
4649

Automated testing device for determining the abrasion resistance of elastomers in the material loss process.



With the abrasion testing machine, you can determine the abrasion resistance of elastomers, by measuring the material loss under abrasive loads. Depending on the mode, the testing device guides the rigid or rotating material specimen, with a defined contact pressure over a rotating emery sheet, thus exposing it to abrasive stress. The emery sheet, conditioned beforehand through the use of a reference elastomer sample, guarantees the controlled wear of the test specimen. The material loss of the specimen, determined through the weight before and after the test, offers information on the abrasion resistance of the elastomer. Depending on the requirements, the stress on the specimen can be changed along the length of the abrasion path, optionally at 20 or 40 meters. We highly recommend you attach your own industrial vacuum cleaner to ensure a clean emery sheet during the abrasion process. Optionally, the machine is available with a tempered drum (RT up to 100°C) to measure the abrasion resistance under real conditions at the abrasion area.

## MEASURING METHODS

Abrasion resistance, method A with a stationary, non-rotating sample

Abrasion resistance, method B with rotating sample

Abrasion path can be changed at 20 or 40 meters

Abrasion resistance, method A or B with tempered drum

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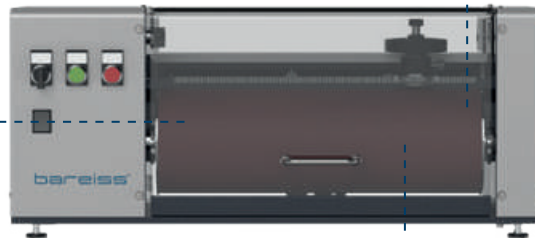
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## MAIN CHARACTERISTICS

Quick release holder  
for round specimens



Protective hood that can  
be lowered for the  
protection of the operator

Optional:  
tempered drum for  
measurements on the  
real abrasion area

Simple conditioning of the  
emery test sheet

The cleaning device has an  
adapter that connects to your  
own industrial vacuum cleaner





Use this receptacle for the vacuum  
cleaner which will automatically turn  
on when the machine is running.

Extensive range of accessories  
for clean processes

## TECHNICAL SPECIFICATIONS

 **Measurements** W x D x H: 760 x 360 x 320 mm

 **Weight** Basic Body 50 kg

 **Weight** Optional heating unit 25 kg

## SCOPE OF DELIVERY

Abrasion testing machine with protective cover

Specimen holder with weight support for round specimens  
Ø 16,2 mm

Operating manual

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## ACCESSORIES



### Increase of the sample pressure force by 10 N

The additional pressure force can increase the frictional load on an abrasion specimen.



**Abrasion steel sample** serves to the conditioning of the emery sheet of your abrasion testing machine.



**Circular cutting device**  
Ø 16,2 mm



**Vacuum cleaner** attaches to the cleaning device



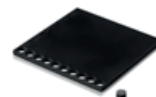
**Electronic analytical balance**



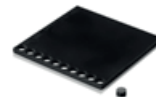
**Dust cover**



**Replacement brush** attaches to the cleaning device



**Reference elastomer according to ISO 4649, method A** (non-rotating test specimen)



**Reference elastomer according to ISO 4649, method B** (rotating test specimen)



**Set of test emery sheets, unverified, 474x402 mm, including 1 roll of double-sided adhesive tape**



**DAKKS calibration certificate** according to DIN EN ISO/IEC 17025

## REFERENCE

With this abrasion testing machine, the material loss of an elastomer specimen can only be determined at room temperature. To test the abrasion resistance of a material under the influence of temperature, we recommend using our Q abrasion testing machine. This is equipped with a quartz heater, allowing for the abrasion drum to be heated up to 100° C.

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).