

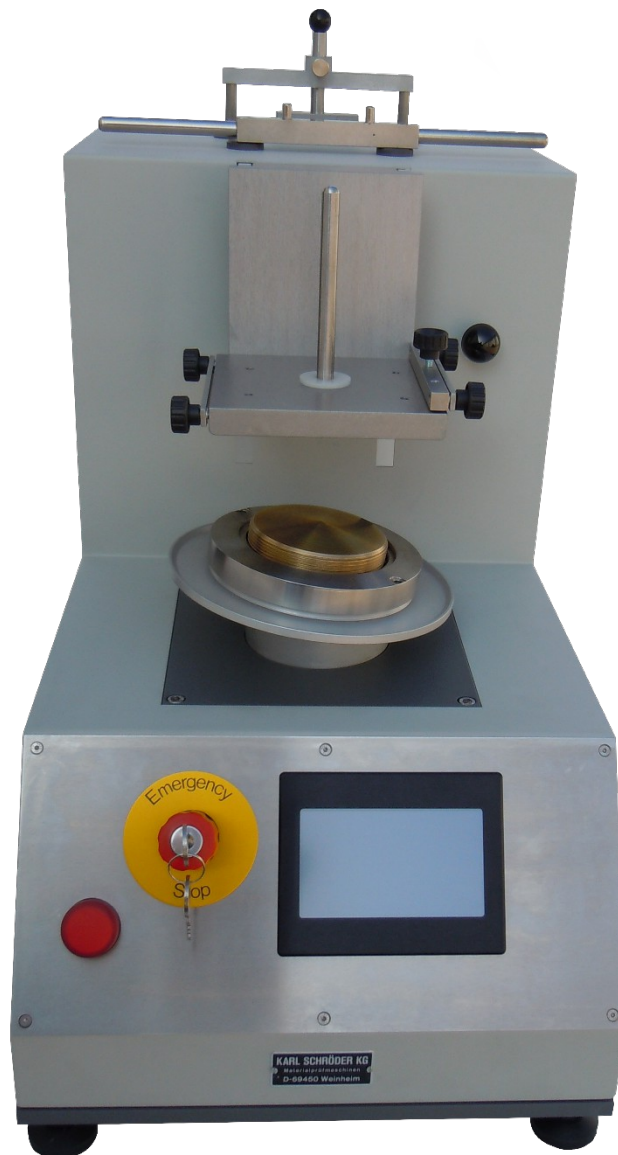
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# User Manual

## Abrasion tester Schopper System



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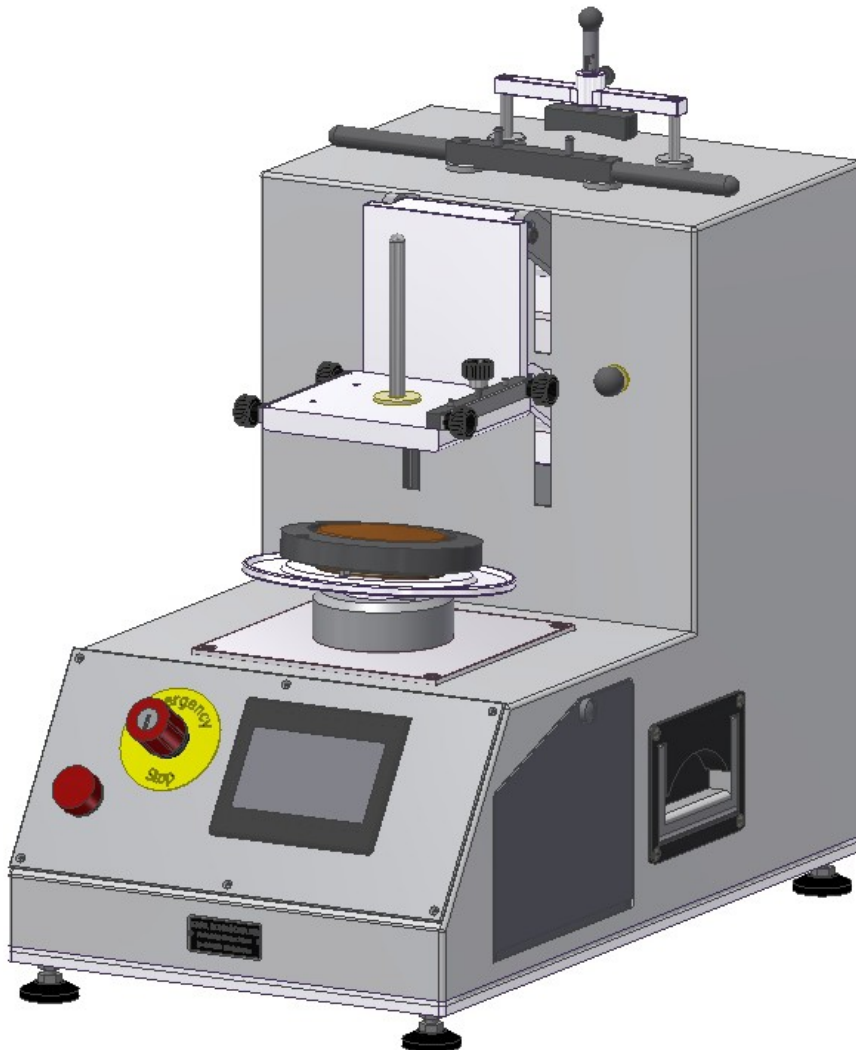
## Summary

Brief description.....	3
Operational controls .....	4
Supplies.....	4
General information.....	5
Safety instructions.....	5
Initial operation.....	6
Installation.....	6
Electrical plug.....	6
Usage.....	6
Operational description.....	7
Operation.....	7
Setting the overall number of revs.....	9
Setting the partial number of revs.....	9
Maintenance and servicing.....	11
Technical data.....	11
Instructions for clamping the sample.....	12
Instructions for clamping sandpaper.....	14
CE-Erklärung.....	15

## Brief description

The abrasion tester Schopper System is used to determine the wear of textiles according to System Schopper. It consists of the following components

- frame with carry handles
- front panel with operational controls
- mounting head support
- load-table

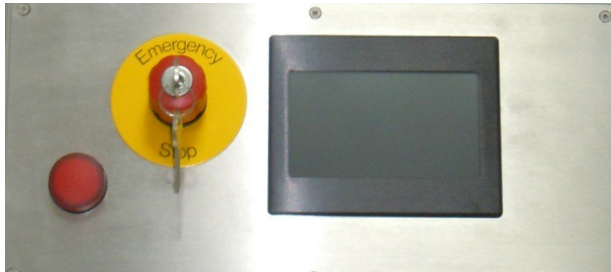


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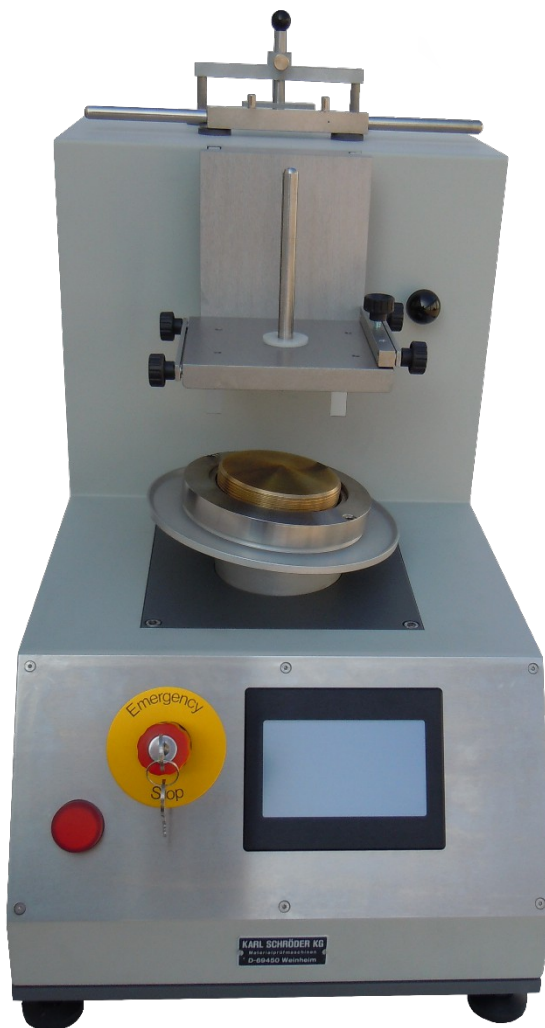


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## Operational controls



## Supplies



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## **General information**

The abrasion tester is made to be used in enclosed rooms and at temperatures between +10°C (+50°F) and +40°C (+104°F).  
Moisture >60% rel. humidity @ 30°C (+86°F). Bedewing is to be avoided.  
Operations have to be done by trained personnel.

## **Safety instructions**

Please read the following safety information attentively in order to prevent any harm to people or products.

Please check when connect the device to the receptacle that the correct voltage is used.

If you presume any mistakes, please shut the device down and call your security in charge.

Only skilled employees or the service station are allowed to perform maintenance work and repairs.

You have to observe the regulations of the industrial injuries corporation, the technical supervisory association and the effective company-internal safety regulations.

You have to unplug the line cord when you're working at the electronic of the device.

Do not touch the rotating mounting head. There is the possibility of capturing clothes.

## Initial operation

### Installation

After unpacking the abrasion tester put it on a plain surface. It doesn't need to be aligned. The device may be carried by two persons using the two handles.

### Electrical plug

The abrasion tester has to be attached to a fused wall outlet (115/240V) with its power cable. There are two microfuses and the main switch at the back side of the tester. Check value of the fuses. Integrated are 1,6A MT to connect to 240V. If the supply voltage is different the fuses had to be changed. (See Technical data )



### Usage

The abrasion tester is especially constructed to determine the wear of textiles according to System Schopper and is to be used in the intended modality (see the section operation).

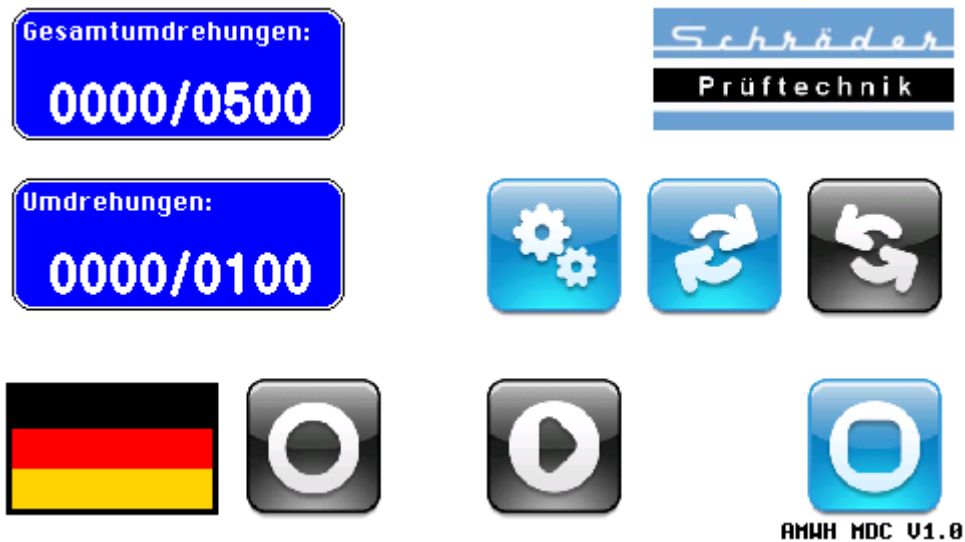
The maintenance has to be done by trained operators corresponding to the operations described in the section maintenance and servicing.

## Operational description

The abrasion tester determines the resistance of textiles to wear against rubbing with emery paper. For this purpose a sand paper, clamped at the load table, scrubs on the specimen fixed in the retaining jig.

## Operation

After turning the main switch at the backside of the tester, the screen displays the company logo. After an internal self-test the user menu appears. The menus are designed with symbols and self-explanatory. By touching the flag-button the display-speech is to be chosen.





At the touch screen the current settings are displayed. The most recently used values are stored when switching off and therefore preset. Active buttons are blue, inactive buttons are gray.

To change the settings of the course the indicators must be touched. The software will then switch into the respective setting menu.



Toggle between manual- and automatic-operation. In the illustrated display automatic operation is set.



Display for left-hand motion. According to the image, the tester would start with left-hand motion.



Display for right-hand motion. Currently not active.



Start the test procedure



Stop the test procedure

After reaching the partial number of revs the Abrasion tester automatically switches to the other direction. When set manual operation the machine stop and the other direction of rotation must be activated by pressing the respective button. After reaching the set overall number of revs the machine stop and the testing process is completed.

At any time the test can be stopped by pressing the emergency stop button or the STOP button on the touch screen.

The effects however vary. While touching the STOP button on the touch screen, the testing process can be continued by touching the START button. The EMERGENCY STOP button interrupts the power supply to the control unit and when switched on again, the, in the previous procedure, reached values are lost.



## Setting the overall number of revs

After touching the display panel of the overall number of revs (Gesamtdurchläufe) the software will skip into the setting menu.



By touching the button  or the  -button the respective number will be increased or decreased by one.



Store the set value and exit the setup menu



Set the default values

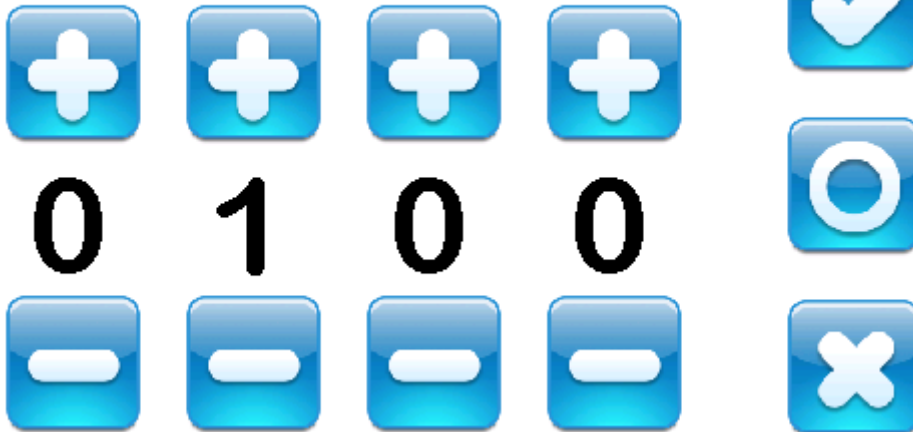


Cancel the operation and return to main menu

## Setting the partial number of revs

After touching the display panel of the partial number of revs (Teildurchläufe) the software will skip into the setting menu.

## Teildurchläufe:



By touching the button  or the  -button the respective number will be increased or decreased by one.



Store the set value and exit the setup menu



Set the default values



Cancel the operation and return to main menu

## Maintenance and servicing

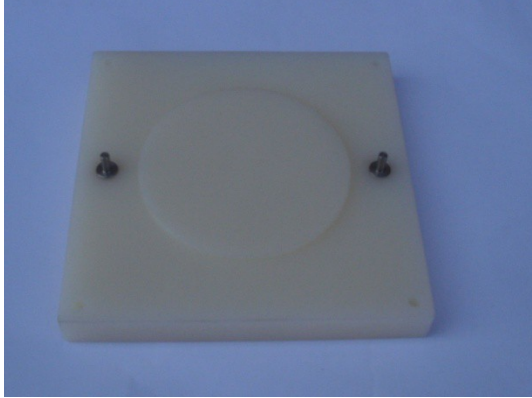
The frame is to be cleaned with a damp cloth. Scouring detergents mustn't be used. *Attention!* The display has to be cleaned only with a soft cloth without any compressive forces.

The gearwheels has to be checked according to the relativ frequency of usage. If there's a requirement of regreasing, customary grease has to be used.

## Technical data

dimensions w x d x h	325 x 565 x 560 mm
weight	35 kg
electrical power supply:	115 / 240V, 50 / 60 Hz alternate
fuses	2x 1,6A MT (240V) integrated 2x 2,5A MT (115V) (mainfuse, at the backside within the fuse drawer)
power consumption	130 W
loudness	< 67 db
number of revs	75 1/min +/-5 1/min
taperangle	166°
declination of mounting head support	7°
test-size	100 cm <sup>2</sup>
test-area	50 cm <sup>2</sup>
loads	50g, 100g, 250g, 500g, 1000g, 1500g
arc height measuring device	0 mm bis 10mm adjustable

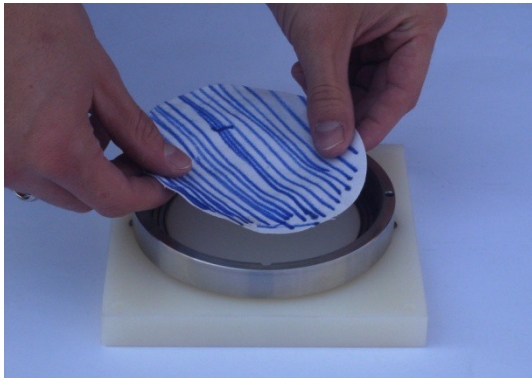
## Instructions for clamping the sample



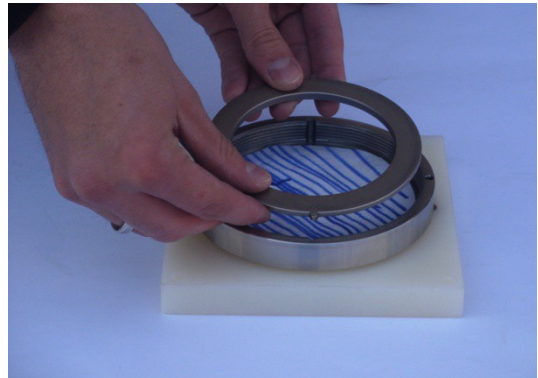
**Step 1:** Screw base plate on the table. Use the four holes.



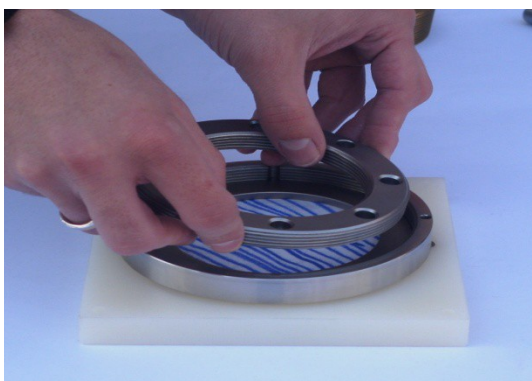
**Step 2:** Lay outer clamping ring onto the base plate.



**Step 3:** Put specimen into outer clamping ring.



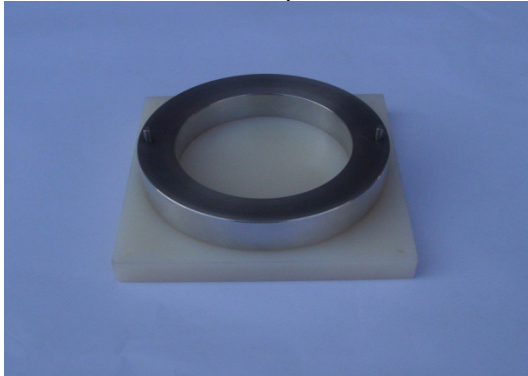
**Step 4:** Insert thrust ring. Please consider right position of retaining lug.



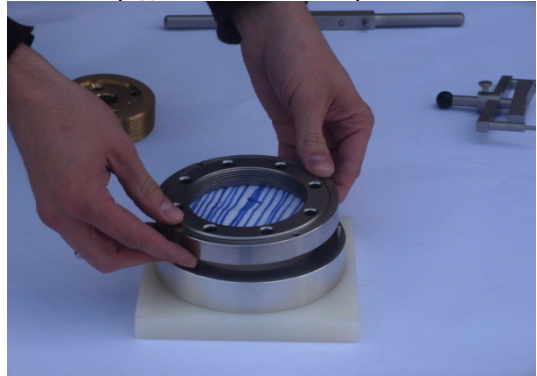
**Step 5:** Put in inner tension ring.



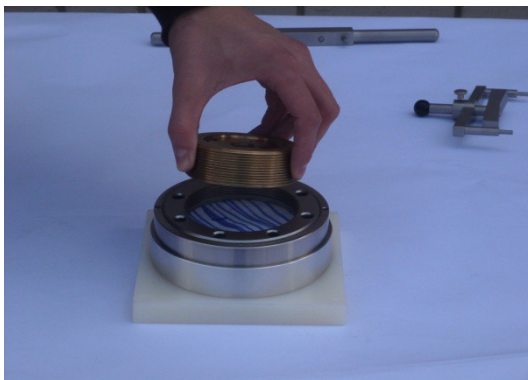
**Step 6:** Tighten up the clamping ring with the clamping spanner.



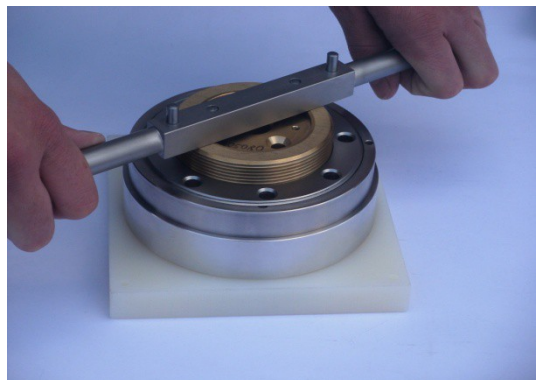
**Step 7:** Lay the spacer on the base plate. It will be fixed by the pins in the base plate.



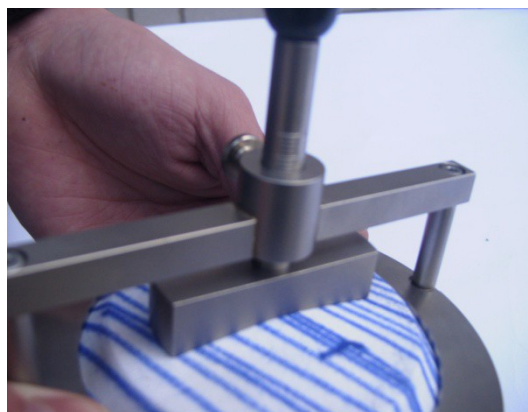
**Step 8:** Put on the specimen holder. Consider that the holes in the specimen holder are suitable to the pins in the spacer.



**Step 9:** Put the mounting head in the inner clamping ring.



**Step 10:** Screw the mounting head in the inner clamping ring.



**Step 11:** Mounting head is screwed into the clamp until the required arc height of the samples is reached.

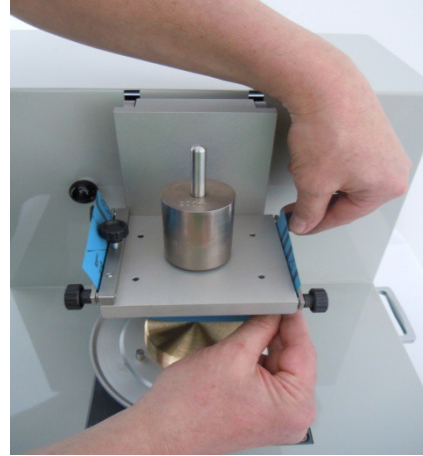
Value is calculated by dome height + sample thickness



## Instructions for clamping sandpaper



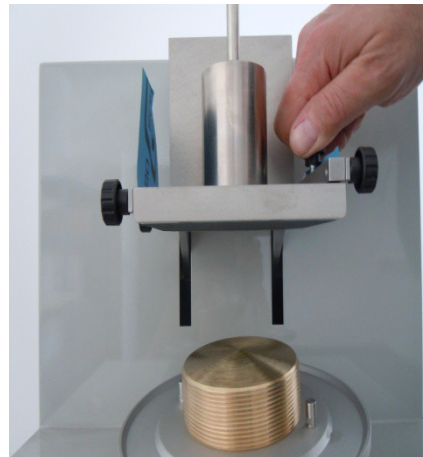
**Step 1: Insert the sandpaper in jig.**



**Step 2: The sandpaper left and right insert.**



**Step 3: Sandpaper with set screws tighten on both sides.**



**Step 4: Secure with the clamp screw, the sandpaper.**



**Step 5: The jig with the clamped sandpaper carefully on the taper.**

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**CE-Erklärung**

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**EG-Konformitätserklärung**  
 DECLARATION OF CONFORMITY

**Dokument-Nr./ Document.No.:** 305684\_CE  
**Hersteller/ Manufacturer:** HK-Konstruktion, Hermann Kmapfl  
**Anschrift / Address:** Käsackerweg 7, 69469 Weinheim

**Produktbezeichnung/ Product name:** Rundscheuerprüfer System Schopper  
**Typ / Type:** RSP  
**Bestell-Nr / Order No.:** 305684

Das bezeichnete Produkt stimmt mit den Vorschriften folgender Europäischer Richtlinien überein, nachgewiesen durch die vollständige Einhaltung folgender Normen:  
 The above mentioned product has been manufactured according to the regulations of the following European directives proven through complete compliance with the following standards:

Nr. / No.	Richtlinie	Directive
2006/95/EG 2006/95/EC	Elektrische Betriebsmittel zur Verwendung innerhalb bestimmter Spannungsgrenzen - Niederspannungsrichtlinie	Electrical equipment for use within certain voltage limits - Low Voltage Directive -
<u>EN/Norm/Standard</u> EN 61010-1 : 2011	<u>IEC/Deutsche Norm</u> IEC 61010-1 : 2010	<u>VDE-Klassifikation/Classification</u> VDE 0411-1 : 2011-07
2004/108/EG 2004/108/EC	Elektromagnetische Verträglichkeit - EMV - Richtlinie	Electromagnetic compatibility -EMC directive
2006/42/EG 2006/42/EC	Geräte- und Produktsicherheitsgesetz -Masschinenrichtlinie-	Supply of Machinery Regulations -machinery directive-

Diese Erklärung bescheinigt die Übereinstimmung mit den genannten Richtlinien, beinhaltet jedoch keine Zusage von Eigenschaften. Die Sicherheitshinweise der mitgelieferten Produktdokumentationen sind zu beachten.  
 This declaration certifies compliance with the above mentioned directives but does not include a property assurance. The safety notes given in the product documentations which are part of the supply, must be observed.

Geschäftsführung: 15.07.2011  
 Datum

Unterschrift