



DIREKT

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NEWS

Adjustable light for the FLIP®

Starting at DOMOTEX Hanover, we will introduce a new light for the FLIP® as an accessory.

Suggestions and ideas from our customers lead to the new light. During extensive testing in our PST seminars, the votes for the current version were overwhelmingly positive.

An adjustable LED-flashlight with focusing ability is the best solution for edging.

The light will fit on all FLIPS. You can even add two lights.



Pic. 1 The new light for FLIP®

IMPORTANT EVENTS 2013

We will start 2013 with DOMOTEX in Hanover from the 12th to 15th of January. Please visit us in exhibit Hall 7 booth # B 43.

In April we will be at the NWFA convention in Dallas, Texas from the 2nd to 5th of April. Be sure to stop by our booth # 803.

DOMOTEX

Hanover
Jan. 12-15 2013
Hall 7, booth #B43

THINK BIG

WOOD FLOORING EXP NWFA

2013

April 2-5 | Dallas, TX

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HUMMEL® Nr. 8274

1 pcs	120.40.00.100 Sanding drum.....
1 pcs	100.45.00.100 Drive Unit, complete.....
2 pcs	100.05.00.200 Lateral wheels.....
1 pcs	100.18.00.300 Rear wheel, complete.....
1 pcs	100.01.01.100 Bumper felt.....
1 pcs	100.01.02.100 Sealing felt.....
1 pcs	000.70.10.067 V-belt.....
1 pcs	000.70.17.092 V-belt.....
.	.
.	.
180 min	Repair.....
15 min	Safety and performance test.....

9 mio square feet

From the life of a HUMMEL®

Born in 1989 in Frauenzimmern, Germany, working every day.

Spare drum in **2001**. Complete overhaul **11/3/2010** in 180 minutes while the owner did a day seminar **PST (Premium Sanding Training)** in Frauenzimmern.

At the age of 65 the owner will retire in **2019**. Until then the HUMMEL® will do another 4.5 mio square feet and be sold on ebay at the age of **30 years** to a newcomer.



Pic. 2 HUMMEL® 1989 model

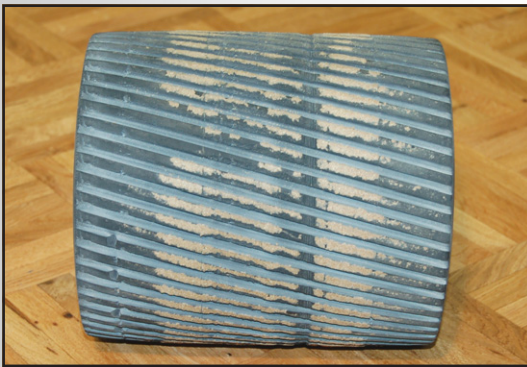
DO YOU REMEMBER ...?

... our article about the HUMMEL® which sanded more than 1 million m² (9 million sq. feet) and was overhauled in our repair facility? This machine is still working every day.

The longevity of our machines is well known around the world. To this day there are thousands of machines that have been on duty for over 30 years.

MOST IMPORTANT IS REGULAR MAINTENANCE

For your HUMMEL® to be a reliable partner at all times, regular maintenance is a must. We engineer the HUMMEL® to be extremely robust and all assemblies are designed to last a lifetime. Regular maintenance keeps your machine operating and saves money when it comes to preventable issues. Maintenance also helps to keep your quality level above the competition. That's where the LÄGLER® philosophy comes in.



Pic. 3 Worn out sanding drum

For machines built after 1988 all spare parts are available at all times. With a simple upgrade, those models comply with the current rules concerning safety, vibration, dust and noise levels. To help us serve you better, please register your machines by pushing the button below and filling out the form.

[To machines click here](#)



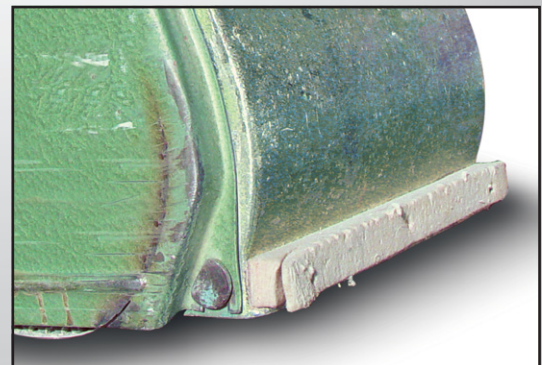
Pic. 5 Old rear wheel has to be replaced

LÄGLER® Philosophy

THE SUPPLY FOR SPARE PARTS HAS TO BE FUNCTIONING EVEN AFTER DECADES!

For example: A HUMMEL® sanding drum from 2012 must fit on a 1969 model.

[Go to LÄGLER® Direkt 04 / 2011](#)



Pic. 4 Worn out bumper felt and sealing felt

Repair or new investment?

HUMMEL® has been continually improved over the years. No matter how big or small we look at every aspect of performance. Whether it is better dust pickup (<1 mg/m³, since April 2012) or new wheels.

Especially with models built before 1988, you should consider investing in a new HUMMEL®. When maintenance costs can exceed the price of a new one.

TESTING OF SAND PAPER AT LÄGLER®

Normally machines, people and the floor are the focus. Sand paper is considered a necessary evil. Buying price is the most common factor considered. Check out the tests done at LÄGLER® and find out more technical reasons for quality sand paper.

TESTING

Material from several different manufacturers we used for the test. We looked at efficiency, life and quality of the finished product. The basis for the test was our own projects and results from several hundred PST-seminars. The actual testing area was 36 m² (324 sq. ft) in our training centre.

Rules

The testing area was White Oak parquet. Sand paper was Zirconia from all manufacturers and one Ceramic product for control. To emulate real life, grits 60, 80 and 100 were used.

All tests were repeated several times. The test machine was a 2012 TRIO.



Pic. 6 Different test material



Pic. 7 During the testing

Construction of the sand paper

All of the backing material was similar, D-paper, E-paper and X-cloth, depending on manufacturer. The binding systems were all synthetic resin.

The mix of sanding materials depends on the manufacturer. LÄGLER® sand paper is 60% Zirconia to 40% Aluminium oxide. Zirconia has strong cutting and long life attributes. Aluminium oxide has very good hardness.

Actual testing

All tests were performed by experienced LÄGLER® technicians. To make sure the comparison was realistic; the same person did the sanding for all tests. Several runs per paper were done under the same conditions in a defined timeframe. Efficiency was determined by weighing the dust volume.



Pic. 8 Weighing with a tested balance

SUMMARY

Several weeks of floor sanding proved our assumptions to be true. An optimized mix of Zirconia and Aluminium oxide with the proper backing material led to optimal efficiency on the rough grit and superior sanding on the fine grits.

RESULTS

The spreadsheet shows the results in respect to efficiency, buying price, life span and over all cost. In order to keep the results anonymous, LÄGLER® sand paper was set at **100**. Below **100** means lower buying price and over **100** means higher cost.

Sand paper	Grid	Efficiency	Buying price	Life	Cost per m ²	Total cost per m ²
LÄGLER® (Zirconia)	K 60	1.84 kg	100	ca. 50 m ²	100	100
	K 80	1.43 kg	100	ca. 45 m ²	100	
	K 100	0.68 kg	100	ca. 40 m ²	100	
Manufacturer A (Zirconia)	K 60	1.43 kg	87.0	ca. 40 m ²	108.7	113.2
	K 80	0.98 kg	87.7	ca. 35 m ²	112.8	
	K 100	0.83 kg	88.5	ca. 30 m ²	118.0	
Manufacturer B (Zirconia)	K 60	1.44 kg	103.2	ca. 35 m ²	147.4	172.9
	K 80	1.03 kg	115.3	ca. 30 m ²	172.9	
	K 100	0.86 kg	124.0	ca. 25 m ²	198.4	
Manufacturer C (Zirconia)	K 60	1.08 kg	91.8	ca. 25 m ²	183.5	216.2
	K 80	0.72 kg	94.3	ca. 20 m ²	212.1	
	K 100	0.51 kg	94.9	ca. 15 m ²	253.2	
Manufacturer D (Ceramic)	K 60	1.46 kg	168.0	ca. 40 m ²	210.0	212.6
	K 80	1.27 kg	163.7	ca. 35 m ²	210.5	
	K 100	0.90 kg	163.0	ca. 30 m ²	217.4	

Pic. 9 Comparison of different sand papers

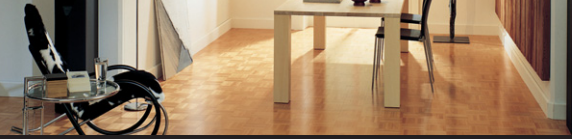
Strengths of LÄGLER® sand paper

LÄGLER® sand paper performs the best on the lower grits. The heavy cut is needed to flatten the floor. The fine grits require an exacting even cut for the optimal appearance. The high content of Zirconia in LÄGLER® sand paper is the determining factor for long useable life. Consistent cutting over a long period makes for a predictable finished product. Efficiency + buying price + cutting life = quality of finished product at reasonable cost.



Pic. 10 After the tests

Ceramic sand paper performed very well on the fine grits, but in the end was too expensive considering price and useable life of the product.



IMPRESSUM

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MERRY CHRISTMAS!



We would like to thank you for choosing LÄGLER® and appreciate the great trust placed in our products. All of us at LÄGLER® are committed to helping you create wood floor masterpieces with the best in floor sanding technology.

Wishing you and your family a Merry Christmas, restful holidays, great health, happiness and success in 2013, both personally and professionally.

Karl Lägler with family and staff



www.laegler.com

AMNESTY INTERNATIONAL



This year we support **Amnesty International** with a donation.

Want to know more, check www.amnesty.com

**We are closed from
December 22nd 2012 to
January 6th 2013**

FROHE WEIHNACHTEN · MERRY CHRISTMAS · JOYEUX NOËL · BUON NATALE · FELIZ NAVIDAD · С РОЖДЕСТВОМ

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