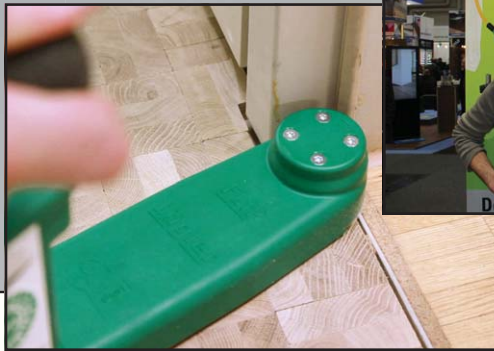


# FLIP®

## DIREKT

No. 1 / 2014



### THE FLIP®

The FLIP® in focus.  
Learn more about the most versatile Edger on the market.  
"Tested and certified for wood dust" different attachments suitable for multiple applications.

Our competition to change the attachment

Short attachment

Corner attachment

Long attachment

Proper machine setup

Save time and money with Velcro sand paper

Easier way to remove old or thick finish coats such as shellac

HUMMEL® for left-handers

## OUR COMPETITION TO CHANGE ATTACHMENTS ON THE FLIP®

At DOMOTEX this year we held a competition with the FLIP®. The contest was to change from the short to the corner attachment manually.

One winner each day for the entire three day show. The fastest each day won a FLIP®.

### The three winners and their winning times for the competition:



**Pic. 2** Company Hanseparkett GmbH, Hamburg-Sinstorf.



**Pic. 3** Company Fagus Naturbaustoffe GbR, Boffzen.



**Pic. 1** Company Lothar Gotto Bodenbau, Lebbach.

### Show us how fast you can change the attachment on the FLIP® at the NWFA convention in Nashville:

The average person would need a little more than one minute to change from the short attachment on the FLIP®. During our competition a contractor from the company Fagus was able to do it in 42 seconds (Pic. 3)! The other two winners were able to do it in 57 seconds from the company Lothar Gotto and 46 seconds for the company Hanseparkett.

All the competitors had a lot of fun and showed that changing the attachment is no big deal. Especially considering the time you might spend scraping corners on a job.

The competition was a lot of fun and very successful. So much fun in fact that our own LÄGLER® team held a companywide competition and had a winner that did it in under 40 seconds!

The next competition will be at the NWFA convention in Nashville if you want to try your luck.

## SHORT ATTACHMENT FOR THE FLIP®

The standard version of the FLIP® comes equipped with the short attachment. This version outsells the others by nine to one. The short attachment is ideal for the bulk of your edging including confined areas.

### Fast and handy

The length of the short attachment is 150 mm (5.9 inch). The short and compact setup of the FLIP® is much more agile than with the long attachment.

In combination with the ergonomic handles, the machine is ideal for standard edging.

[FLIP® - Video \(Edges\)](#)



**Pic. 4** The FLIP® with short attachment and additional lights.

## THE FLIP® CORNER ATTACHMENT

Sanding corners is more demanding than normal edging. The standard edger disc is too large in diameter to even get close. The alternative is a triangle shaped power tool or scraper. Both take too long.



**Pic. 5** Ideal application for corner attachment.

[FLIP® - Video \(Corner\)](#)

### Engineered for sanding corners

With the FLIP® corner attachment blending the corners, edges and field is fast and easy. The perfect match of size (61 mm or 2.4 inches) and speed (7750 rpm) makes it the ideal tool for corners and spindles. The slim form of the corner attachment and the small diameter of the disc reaches most tight spaces while remaining aggressive.

The corner is sanded **without the need for additional pressure** against the clock.

## LONG ATTACHMENT FOR THE FLIP®

The long attachment with a length of 315 mm (12.4 inch) is the perfect tool of choice for deep toe kicks or built in cabinets. In addition it can be used for very fine sanding.

### Working with the long attachment

Due to its length the long attachment is perfect to sand under stair treads, built in shelves or old radiators (Pic. 6).

Changing the attachment is just as fast and easy as our competition shows.



**Pic. 6** The FLIP® with long attachment sanding under a built in shelf.



**Pic. 7** With long attachment the FLIP® can be used for fine sanding.

### Fine sanding with the long attachment

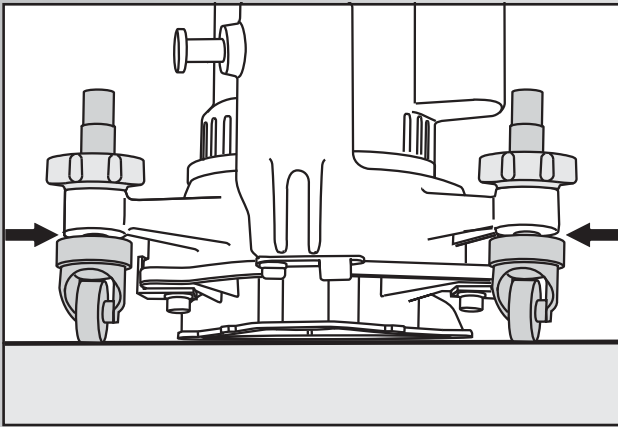
The distance between the wheelbase and sanding disc is the relevant factor for the actual sanding behaviour of the FLIP®.

The consequence of the angle change, operating the FLIP® with the long attachment set to the short attachment, results in much finer sanding.

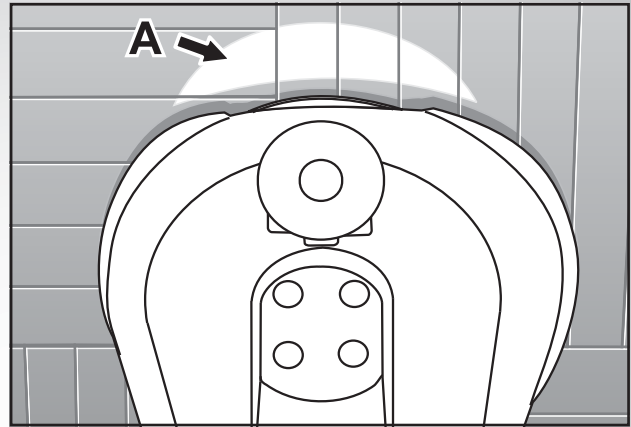
The sanding disc will touch more surface. Efficiency drops due to lower pressure but the sanding result is much finer.

To get the same performance with the long attachment as with the short you need to readjust the wheels of the FLIP® (see page 5, *How to setup the FLIP®*).

## HOW TO SETUP THE FLIP®



**Pic. 8** Setting the FLIP® flat for fine sanding with short attachment.



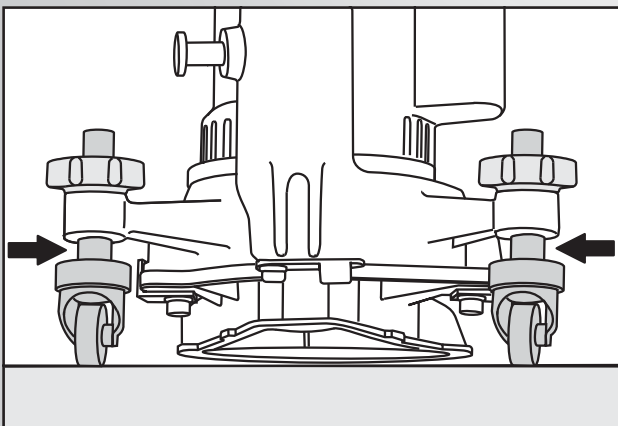
**Pic. 9** Big sanding surface (A) and low aggressiveness.

### Possible setup and consequences

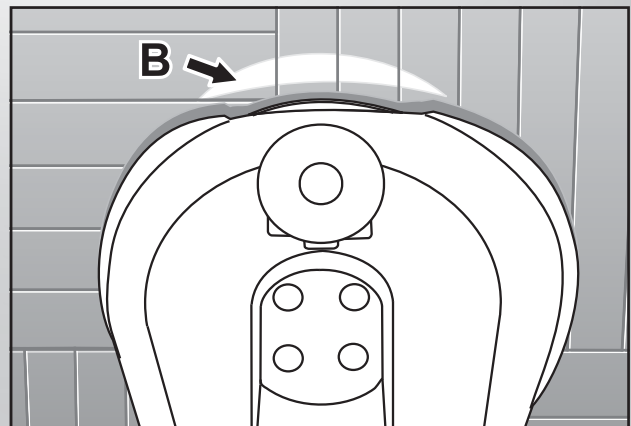
A **flat setup** with the short attachment increases the contact area of the sanding disc and reduces sanding pressure as opposed to a steep setup. Therefore it is possible to change to finer sanding without changing grit.

**By changing from the short attachment to the long without altering the setup you get the same effect** (see page 4, *Long attachment for the FLIP®*).

For aggressive sanding with the long attachment you have to set the FLIP® to a steeper angle.



**Pic. 10** Steep setup for short attachment for rough sanding.

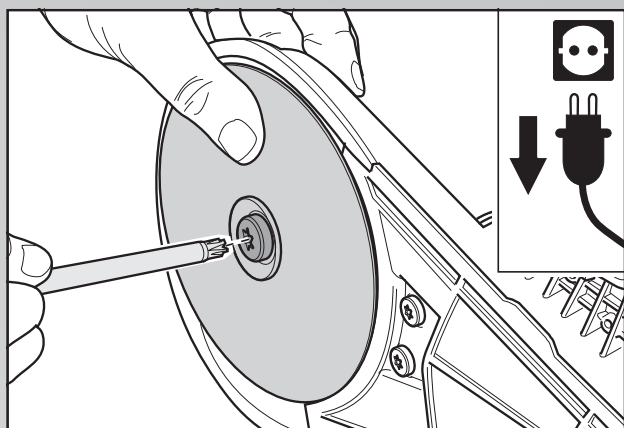


**Pic. 11** Small sanding surface (B) and high aggressiveness.

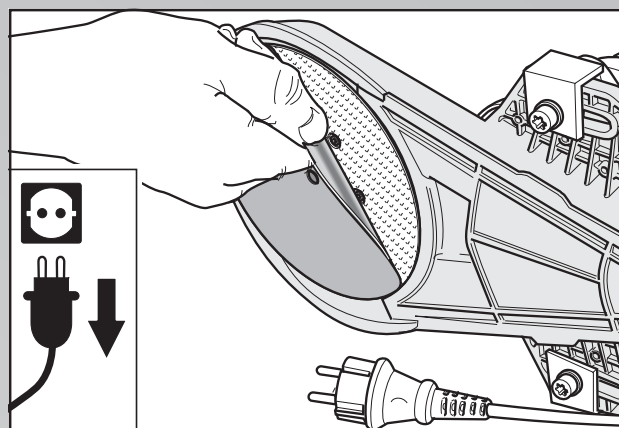
For sanding old floors with thick coats of paint or finish, use the **short attachment** and a **steep setup** (Pic. 10). The sanding surface is small and therefore the FLIP® is more aggressive (Pic. 11).

## SAVING TIME WHILE CHANGING THE SANDING DISC

The purchase price of a sanding disc is only a part of the actual cost on a job. In order to test the real world difference in handling costs between regular sand paper and Velcro we at LÄGLER® compared the two versions.



**Pic. 12** Screw on paper disc.



**Pic. 13** Velcro sanding disc.

## TIME NEEDED TO EXCHANGE A SANDING DISC

The sanding discs were attached according to the FLIP® manual. A screw on paper disc must be unscrewed and exchanged for a new one. Then the disc must be centred and fastened with the tool (Pic. 12). The Velcro disc is simply pulled off (Pic. 13) and the new one is locked in.

In order to get a good average, three different operators (A, B, C) were timed during three attempts. Pic. 14 shows the results of the test. Naturally the amateur operator A needed longer than subject B and C. On average it took more than half a minute per change for the screw on paper disc.

Test	Screw on paper disc			Velcro sanding disc		
	Operator A	Operator B	Operator C	Operator A	Operator B	Operator C
Test 1	36,6 s	31,8 s	27,1 s	12,7 s	9,1 s	8,6 s
Test 2	36,5 s	28,9 s	30,6 s	11,9 s	10,2 s	8,3 s
Test 3	38,7 s	30,2 s	26,4 s	10,8 s	8,3 s	10,0 s
Average Test 1 - 3	37,3 s	30,3 s	28,0 s	11,8 s	9,2 s	9,0 s
Total average	31,9 s			10,0 s		

**Pic. 14** Results of the test „exchanging sanding discs“.

## LIFE OF A SANDING DISC

The cost of standard screw on paper discs with aluminium oxide from reliable producers are about half the price compared to LÄGLER® Velcro sanding discs.

On the other hand the life of this sanding disc is only half compared to the Zirconia Velcro sanding disc from LÄGLER®.

Cheap off brand products are even worse.



Pic. 15 Closed up screw on paper disc with short life-time.

Double life, off sets the lower initial price on the screw on paper discs, this means less inventory, less material on site and a much more consistent sanding due to the higher quality of the Velcro sanding disc.

## CONCLUSIONS FROM THE TEST

On average, changing a screw on paper disc takes three times as long as changing a LÄGLER® Velcro sanding disc. With the reduced life of the paper disc being half, the total time needed on the job site is six times longer than with the Velcro sanding disc.

According to our test you can save 80 % of the time needed to exchange to a LÄGLER® Velcro sanding disc.

**Longer life with Zirconia sanding disc and shorter change times are responsible for the lower total cost!**

### To change is worth it

Certainly lower total cost, easier handling and changing without the need of a tool are a plus.

Technically the LÄGLER® Zirconia Velcro sanding disc gives you a better quality finish with lower operating temperature in the sanding process.



Pic. 16 Screw on cheap aluminium oxide paper disc.

## REMOVING OLD PAINT AND THICK COATING FROM THE EDGES



**Pic. 17** Old coat (from shellac) on old floorboards.

### Tests at LÄGLER® removing old coats

To find the best way to get the job done, different grits, machine setups and multiple ways of sanding were tested. Working our way backwards from a steep to a flat setup we found a point where old coating is only heated up and no longer removed.

Soon the right combination between grit, setup and sanding process was found.

### Problems with remodel jobs on old floors

Sanding old thick coatings with an edger quite often ends with the old finishes becoming sticky on the floor. This happens when the wrong choice of grit, wrong machine setup and too much pressure is applied, results in the old finish heating up and getting sticky.

The paper sanding discs grit often breaks down and closes up rapidly and creates even more heat.



**Pic. 18** Bad choice of grit and setup.



**Pic. 19** How to remove old thick coating (for example old shellac).

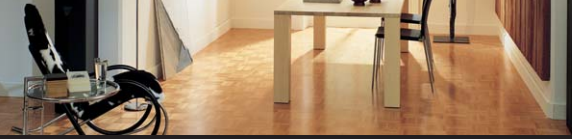
### How to prevent the sanding disc from loading

For the removal of old thick coatings you should use a coarse grit and steep setup on the FLIP®.

Guide the FLIP® fast in long motions over the floor. If possible slice the top coat off, working from the clean area into the finish.

Using LÄGLER® Velcro sanding discs with silicon carbide in grit 16 or 24 (see page 7).





## THE HUMMEL® FOR LEFT-HANDERS



**Pic. 20** Operating elements at left-handed HUMMEL®

**Left-handers are no longer excluded from using a HUMMEL®**

10 to 15% of all Europeans are left-handed. Since we log all requests from our participants in the PST® seminars in writing, we decided to make a left-handed HUMMEL® because we received many requests from our contractors asking for a solution. Choices are to retrofit your current machine or if you share the machine, exchange the guide tube complete.

Right and left-hand HUMMEL® are the same price.

## NEWS – EXHIBITIONS

### NWFA Wood Flooring Expo in Nashville, Tennessee

Since 1990 LÄGLER® has taken part in the NWFA convention, the most important exhibition in the wood flooring for North America.

This year's convention is from the 16th to the 19th of April in the Music City Center in downtown Nashville.

Visit us at booth #817 and compete for a brand new FLIP®.



## LOOKING BACK ON DOMOTEX 2014 IN HANOVER



**Pic. 21** The LÄGLER® booth on DOMOTEX in Hanover.

### DOMOTEX from our view

Every year we have hundreds of visitors we are able to meet in our booth. Customers are able to sand in our booth and talk shop. Many were excited to compete in the FLIP® attachment competition.

The other main focus was the new sanding manual. Currently available in German and English with many other languages to arrive soon.