

FLEX TRIM CASE

Nr. 5 November 2008

Page 1

Danish food manufacturer:

New cleaning solution for dry roller with sanding system from Flex Trim

The company, KMC, produces potato flakes and is cleaning the machines with Flex Trim sanding system.

After inspiration from the wood- and furniture industry a new solution has resulted in time saving and simple cleaning process for the dry rollers, where the potato mass is made to dried flakes.

The customer

KMC is a big Danish manufacturer of food ingredients based on potatoes – f.x. starch, but specially dried potato flakes, which is the ingredient for preparation of potato chips and similar food products.

The company has about 200 employees and exports 91% of its products for further processing in more than 72 countries world wide.

The task – cleaning of dry roller

The production of potato flakes goes on by peeling, boiling and mashing the potatoes. After that the potato mash is pressed and dried into big, thin flakes by means of a heated roller.

The potato mash is pulled up in a thin layer around the dry roller – like rolling out a lump of dough with a rolling pin. The hot iron surface on the dry roller (180 Celsius degrees) dries the potato mash to a big flake, which after this is falling down into vessels, where it lands and breaks into small pieces.

On the surface of the dry roller is formed a sticky layer of residue potato mash and a frequent cleaning is necessary. Every 3rd week the dry rollers are cleaned with water, but with bigger time intervals a heavier cleaning is demanded. Here the dry rollers must be sanded to be clean for potato mash.

Normally this cleaning process takes place by leading massive equipment down through the roof, which is a very sweeping work and requires that the production must be closed down for longer time.

KMC wanted to avoid this very comprehensive cleaning process and then a close partner got the idea to use a sanding solution from Flex Trim. It was the local plumbing company who knew Flex Trim from the wood- and furniture industry. This plumbing company had already worked out a lot of different solutions for KMC and with a creative way of thinking Flex Trim was contacted regarding the possibilities for a new cleaning solution.

SUBJECT:

Cleaning of dry roller in potato industry



Potato turns to be dried flakes in the dry roller.



Under the dry roller the new cleaning equipment is placed with the sanding head from Flex Trim, which sands the roller clean for dried layer of potato mash.



The Flex Trim sanding head is mounted under the dry roller supported by a girder made of iron.

FLEX TRIM CASE

Nr. 5 November 2008

Page 2

The solution

A technician from Flex Trim visited KMC and made a test sanding with a MiniFlex sander machine, which is a hand tool. The leader of the production on the fabric was very excited about the result. The sanded areas on the dry roller were now total clean and they were still clear long time after the test sanding.

The plumbing company mounted some fittings under the dry roller in both ends and manufactured a grinder of iron with the same length as the dry roller. The grinder works as a support for the sanding head, which is mounted above the grinder and sands the surface of the dry roller.

The speed and pressure of the sanding head is adjustable, which ensures a uniform sanding.

All the equipment together is mobile and can be mounted as needed.

Benefits for the customer

Timesaving and simple cleaning process

First of all the new cleaning solution means saving of time and for KMC it has also has great importance that the company now owns the equipment and is able to do the cleaning without calling for external service, which had been necessary so far.

With the new solution it is simple to carry out a thorough cleaning and it can be done in only 2 days with 2 men working.

Long lifetime of sanding materials

During the first cleaning with sanding system from Flex Trim, KMC has cleaned 2 dry rollers, where the sanding head turned 20 times around on each dry roller.

Besides the perfect cleaning result another benefit by using the Flex Trim sanding system is that the sticky potato layer that is removed by the sanding not is being heated up or sticks to the abrasive. For that reason the abrasive in the sanding head has a long lifetime and wear is still not visible.

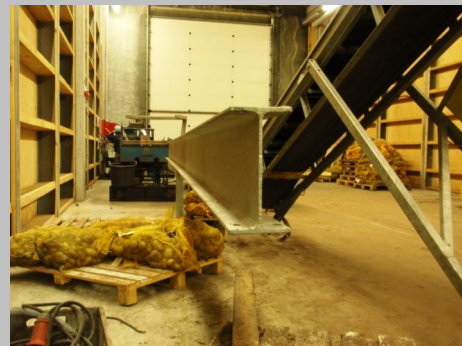
In addition to this the polished and smooth surface means that the potato flakes easier release from the dry roller and goes faster further on in the process.

For KMC of course it has been a kind of investment to acquire the equipment for the new cleaning solution. But according to the production manager there is no doubt about that, with the benefits as mentioned, the solution will be paid.

With this Flex Trim has yet another time proofed to live up its slogan – also in alternative industries: **"Quality – not only on the surface"**.

SUBJECT:

Cleaning of dry roller in potato industry



A local plumbing company is behind the implementation of the new cleaning solution and has manufactured the grinder and fittings for mounting of the sanding head from Flex Trim.



Production manager at KMC, Mr. Aksel Heltoft, states that he is very excited about the sanding solution from Flex Trim for cleaning of the dry rollers. He also estimates that the investment will be paid on the long run.



The end-product is potato flakes in small pieces, which is exported for further processing in food industry and production of potato chips world wide.