# impressive

ISSUE 1/2015

## Effectively reduce felt wear

**Heimbach-TASK shows how you can save money**

## Primoselect in packaging production

**The new fabric design now providing benefits in the packaging sector**

## Welcome Paper Pete

**Our new "colleague" gives tips on best practise based upon practical experience**

## Dryers Club in Spain

**The dryer section on the international stage**

## Grade conversion in record time

### Blue Paper converts machine for packaging

Responding to changing consumption patterns in paper and board, our customer Blue Paper SAS, Strasbourg/France converted production from LWC to corrugated paper and test liner – in just nine months! **See the interview on page 8** to find out more about how this major project was handled and the role played by Heimbach.

# Welcome dear reader,

I would like to welcome you to the first impressive of the New Year.

As consumption of packaging papers continues to increase – in no small part due to the boom in online shopping – it will certainly be of interest to you to read how our French customer Blue Paper was able to convert its PM1 from LWC production to corrugating and testliner in record time. We asked relevant questions to mill management and present the answers from the interview.

In our new section "Practical tips for best practise" "Paper Pete" gives tips and tricks for your daily work. The first instalment in this series is the topic "Installing seam felts" on pages 12-14. Speaking of best practise reports; read our recent case study that explains how felt wear on the paper side can be reduced.

You – like us – will certainly be pleased that we were once again able to strengthen our team and further improve our customer service. Get to know a little more about Markus Fladt from the TASK department and Frank Barthel from product management.

And for all fans and members of our Dryers Club, we take a look back at the first international event. We held a seminar in Burgos, Spain, that was voted a great success by all participants.

Have fun reading,

Peter Hess

Managing Director





In profile

# Family, fish, football

## TASK service technician Markus Fladt is a true team player, professionally and in private

*Markus Fladt: Welcome back to Heimbach team.*

What do fish and football have in common? Little, one might think at first glance. One has a rather soothing effect, the other much more stimulating: One thinks of so many football fans who always believe that they know more than the referee and act as if they themselves were on the pitch. For Markus Fladt, Technical Service Specialist at Heimbach, these two hobbies are not opposites; he considers his **enthusiasm for 1. FC Köln** and his passion for fishkeeping both hobbies that offer him a good balance to his professional life. **The trained papermaker** has been back in the TASK team since last August and, as a service technician, is often travelling. "Again," because he originally joined the Heimbach workforce in 2007 and has now returned after a short term at another company: "To me it is important to learn new things," says the 42-year-old, who has continued further education whilst in full-time employment to become an **industrial foreman and also an accredited technical management expert**. Privately Markus Fladt is a true family man. He spends time with his wife and two sons (12 and 14 years old), taking care of his house and garden and **enjoys all outdoor activities** – his favourite pastimes being long walks and runs through the countryside.

# In the premier league or nowhere…

## Product manager Frank Barthel sets high demands on quality

It has to be the premier league – Frank Barthel will not settle for anything less. This applies both professionally, where as a **product manager for Pressing, Belting & Drying** he is responsible for the very best quality, and in private. As an avid fan of the Düren-based men's volleyball team **SWD powervolleys** he attends home games as often as possible and also travels to one or two away games: "**I am fascinated by the athletic interplay** and enthusiasm that the team displays," said the 25-year-old amateur athlete who values exactly the same properties with colleagues at work. This is because, as a product manager, he is always **up close and personal with the development of new products** the reliability of which customers will later depend on. Precision, clever ideas and the knowledge of customer needs play an important role here. Frank Barthel brings considerable experience with him despite his young age. Immediately after graduating from high school in 2008, he began a **dual degree course in paper technology** (B.Eng.) in Karlsruhe and at Voith gained knowledge on commissioning and optimization of paper machines, R & D and investment planning. After successfully completing the courses in 2011 Mr. Barthel came to Heimbach in the summer of 2014 by way of two other professional positions. In November he moved from his initial position as a trainee in the TASK team to product management. **A pretty athletic development** and we think that sits well with Heimbach's quality standards, namely to always play in the premier league.

*Premier league player for Heimbach: Frank Barthel.*

**INFOBOX**

**AT A GLANCE**

Machine width: 935 cm
Paper grade: Newsprint
Machine speed: 1,500 m/min
Position: 3rd press
Problem: Felt wear/sheet breaks
Solution: Lift the doctor blade

# On the track of felt wear

## The "detectives" from TASK solve a tricky problem

*When the following phenomenon occured on one of our customer's machines it was initially a mystery – even to the highly experienced Heimbach TASK team. Numerous sheet breaks began to occur associated with wear on one of the felts. The abnormal wear took place on the paper side of the felt. This was puzzling as nothing had been changed on the machine with regards to felt type, process, chemicals or raw materials.*

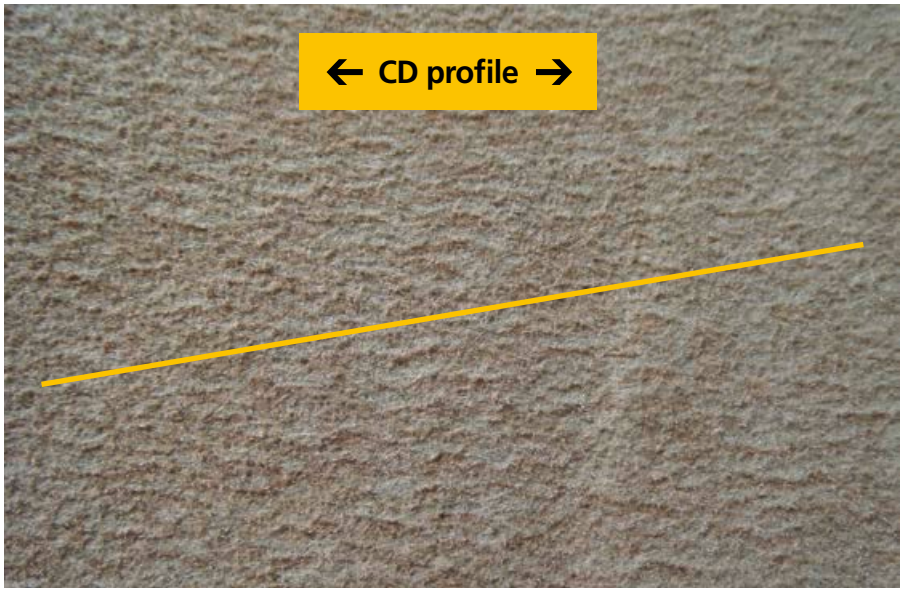
However, the fact was: The felt could run a period of four weeks production without problems, and then the number of breaks began to increase. The performance of the paper machine deteriorated making it necessary to reduce production speed. Time had come to ask for some professional advice. **Experts from the Heimbach TASK group** were called in to analyse the situation.

"We analysed samples of all used felts in our laboratory for wear," said Ralf Schuster, Technical Service Specialist, explaining the approach used. "The investigation revealed that the paper side was worn and displayed a bizarre pattern. What we found looked almost like a **landscape of mountains and valleys** – with angles up to 20°. A beautiful sight when you are traveling through the countryside, but totally out of place in this context."

**Taking a close look – with an eye for detail**

Now the search for the root cause: Could friction on the rolls or contact between the felt and another machine component on the paper side be the reason for the irregularities? Or maybe slippage or speed differences? Several general investigations conducted on the paper machine brought no results. Only **after further detailed on-site analysis** did it become clear that the speed measurements on the felts, guide rolls and press rolls showed a variance.

"We found speed differences either side of the outer paper guide roll of 3 m/min!" said Schuster. "Over one week this would be the **equivalent of applied friction over a distance of 30 km** – no small matter!"




*Felt sample analysed in our laboratory: Surface appears "creped".*

*Ralf Schuster: Solved the problem for the customer.*

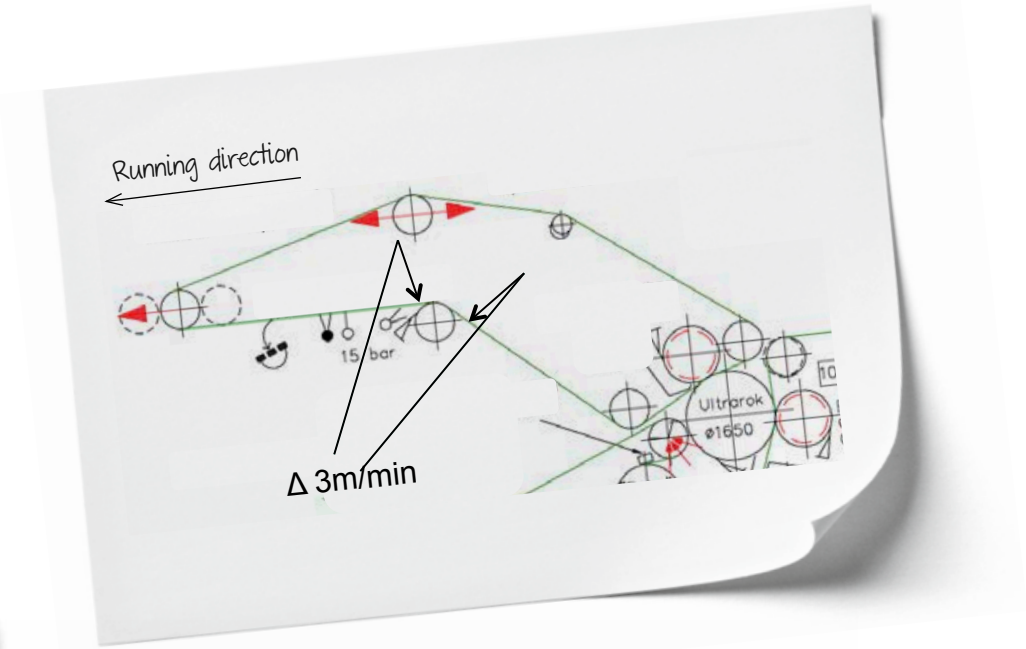
The resulting questions that were **examined in detail** by the Heimbach TASK team were:

- Could the varying temperature of the roll bearings indicate a possible bearing damage? (front side 83° C, drive side: 66° C, difference 17° C)?
- Are the doctor blades aligned at the correct angle to the roll surface?
- Are the doctor blade and roll cover properly adjusted to each other?
- Has the standard life of the doctor blade been taken into consideration?
- Or does the speed difference simply arise from a sum of all the aspects mentioned here?

**Demonstrating the insight of the team**

"One approach that we proposed to the customer at this point of the discussion was to **lift the doctor blade of the felt guide roll on paper side in this machine position** in order to avoid any possible braking effect on the roll," described Schuster regarding the procedure. "First, the customer changed the guide roll on paper side and left all other settings as before. This brought no improvement. When the customer then took up our suggestion to lift up the doctor blade, **the improvement was immediate**."

"There were no complications at all during the next production run demonstrating that this setup could be successfully used for future production," Schuster said in conclusion. "The felt is no longer subject to such high wear and the customer is thoroughly delighted with the result." And the Sherlocks in the Heimbach TASK Group have successfully solved another case!




## Did You Know?

**Just chicken feed – or maybe not?**
**Ikea switches from pallets to cardboard**

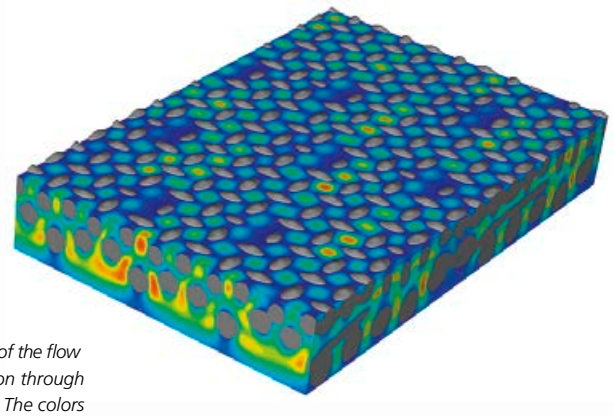
Good news for the environment and also for all packaging manufacturers: The Swedish furniture giant IKEA has decided to convert all its wooden pallets to cardboard material. The business benefits are obvious:

- Up to 20% economies in lorry transport since return transportation is avoided because the pallets are disposed of as waste paper and therefore recycled.
- The loading volume of trucks can be optimised as the cardboard pallets use less space than their wooden counterparts.
- In addition, savings can be made not only with truck transport, but also train and ship transport can be reduced.

In addition to these benefits there will be a **reduction of 75,000 tons in $CO_2$ emissions**. A good thing, or, as it says on the IKEA website: "Brown cardboard is one of our best friends – it saves money and protects the environment." There's nothing to add to that, except: **for Heimbach** brown cardboard is also "one of our best friends!"

# Power for Packaging

## Primoselect: Adding value for packaging producers



*Computer model of the flow velocity distribution through a forming fabric. The colors represent the predicted speed of water flow through the fabric: from dark blue (= zero velocity – no flow due to the presence of the textile structure) through light blue/green/yellow and finally red (fast).*

*E-commerce allows the packaging industry to boom. But with that, the pressure to remain competitive also increases. Heimbach provides efficiency for manufacturers of packaging papers with its clothing solutions. In particular with Primoselect, the versatile, patented 24-shaft fabric, which is already helping to save time, energy and costs in the forming section.*

Do you actually know someone who has never shopped online? We have asked our colleagues and get a clear answer: Whether clothes, books, electronics or household goods – almost all respondents regularly go shopping on the Internet. Everything is convenient, easy and usually very fast. Our own survey is confirmed by various studies. The German Federal Association for Information Technology, Telecommunications and New Media (BITKOM) found in 2013 that: **Nine out of ten internet users in Germany buy from the Internet**. 40% of them on a regular basis, i.e. more than ten times a year. Also, according to the German E-Commerce and Distance Selling Trade Association (bevh) interactive trade has returned to long-term growth: After a decline in the 2nd quarter of 2014 the consumer survey for Q3 exhibited a re-growth of 2.0%.

**Overcome market challenges**

As e-commerce is so much in vogue, this of course has a direct impact on the production of packaging papers: The new shoes, the smartphone, the detective stories from the bestseller list – they all need to be delivered in sturdy cardboard packaging in order to arrive undamaged at the customer. The German Pulp and Paper Association (VDP) reports **a growth in packaging papers and cardboards of 1.2%** for 2014, compared to the previous year. The market for packaging therefore really is booming as well as the competitive and cost pressures. This means, **increase performance**!

**Set the course right from the start**

Paper makers who use Primoselect forming fabrics benefit from the very open structure of this patented 24-shaft fabric, which is used by paper makers in several ways: The **flexible forming fabric**, which is characterized by a single binding thread and very low calliper, ensures both a **high drainage** capacity and **reduced energy consumption**. This represents a major competitive advantage particularly in the energy-intensive production of brown paper. The optimum runnability of Primoselect offers other

## INFOBOX

### Case study 1

Former: Multi Fourdrinier
Belbond: Primoselect.SF+
Speed: 400 m/min.
Width: 6.00 m
Paper grade: Cartonboards

- Increased efficiency of the high-pressure shower (pressure reduced from 20 to 15 bar)
- Water and energy saving
- Improved former hygiene

### Case study 2

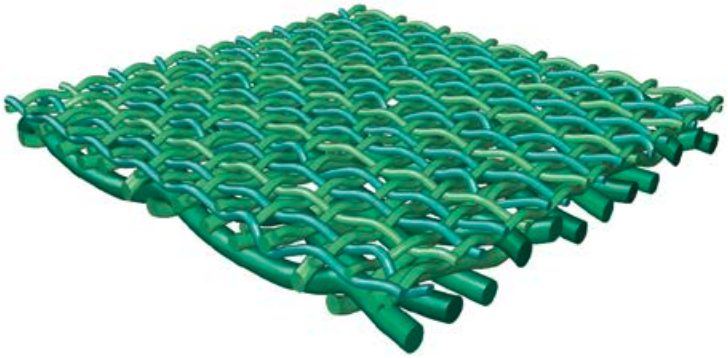
Former: Gapformer
Inside fabric: Primoselect.F
Speed: 780 m/min.
Width: 8.00 m
Paper grade: Test liner

- Less wear due to open structure
- Energy savings
- No water carrying
- No marking

### Case study 3

Former: Duoformer Base
Bottom fabric: Primoselect.HD
Speed: 1.150 m/min.
Width: 6.00 m
Paper grade: Corrugating Medium, Test liner

- + 2 % dryness after fabric vacuum roll
- No water and fibre carry
- Clean machine peripherals
- No misting
- Straight running
- Less elongation



*Primoselect cross section:*
*low pore volume and low fabric calliper.*

benefits: Increased fabric lifetime can lead to reduced downtime and subsequent reduced costs. Running time of forming fabrics is always a critical issue in packaging paper production and higher yarn diameters on the machine side of Primoselect fabrics makes these designs significantly more durable than comparable SSB fabrics. As a result, **down-time and costs are minimized**.

**Quality is the be-all and end-all**

Last but not least, as the English say, the wide variety of grades and types of packaging papers must be taken into account since, depending upon the application, packaging and brown papers have to fulfill very different requirements: they must always be **durable and sturdy**, but sometimes they are white and smooth, sometimes rough and rugged. Whether waterproof or grease-proof, fine cardboard or kraftliner, whether packaging paper, corrugating medium or folding boxboard – the variety is extremely wide and so are the **demands on the fabrics and felts** used in these machines: Primoselect scores highly here due to its great flexibility, which allows for precise adjustment depending upon customer needs. In addition Heimbach customers can count upon the fact that these fabrics are relatively **easy to clean, allowing efficient removal of dirt and contamination.** This is a key element as the quality of waste and recycled paper now used have a tendency to decrease in quality.

So the only remaining question would be: What about the one consumer in ten, who has no confidence in e-commerce? Well, we can be sure that he will buy directly from a retail outlet – where packaging paper would again play an important role in both protecting the product and promoting a sale. And we come back again to the many and various demands on the packaging industry...


*From right to left: Carsten Bruns, Laurent Schmitt (Blue Paper), Jean Kuster (Heimbach).*

# Well-equipped for the future

## Paper manufacturer Blue Paper is converting to packaging paper

*Packaging paper is becoming more and more important around the world, in no small measure due to growth in e-commerce and this in turn increases the demand for brown paper. Within Heimbach's own customer base companies are in the process of filling this growth market and in some cases are changing their production to a variety of packaging paper grades: Our customer Blue Paper SAS in Strasbourg, France, started to convert its paper machine from LWC to fluting and testliner more than a year ago and has since become a forerunner in the industry.*

*We were privileged to accompany this enormous project as supplier of clothing for forming, press and dryer sections and are now interested in finding out how far this plan, unique so far, has been put into practice. Laurent Schmitt, Production Manager, and Carsten Bruns, Senior Process Engineer, explained to us in an interview how this conversion went and where Blue Paper stands at the moment.*

**impressive**

***The conversion of PM1 to fluting was surely no walk in the park. What were the three biggest challenges?***

**Carsten Bruns**

The time frame that we set ourselves was more than ambitious: We started the conversion in March 2013 and produced our first good paper as early as December. We owe the fact that we have been able to convert to a completely different paper grade within less than a year to the good collaboration with our supplier, but first and foremost to the exceptional commitment of our team.

**Laurent Schmitt**

Our colleagues had to learn to work with a **completely new method of stock preparation**. That was not exactly easy. The question was: How well are our people going to get on with the new paper grade? This was a learning process, which certainly benefitted from our experience in the year 2000: At that time (when the company was still part of the Finnish UPM Group, editor's note) the production was converted from newsprint to LWC magazine paper.

Finally there was the question of paper quality: Will it meet our expectations? Today we can answer this with a clear "Yes". From the start handling the machine was not a problem. **The start-up went well, the**

**results are very promising**. At present we are optimistic that we can continue this progress through 2015.

**impressive**

***Why did the conversion have to be so swift and where does Blue Paper stand today with a view to your competitors?***

**Laurent Schmitt**

The packaging business shows better figures than graphics, and competition amongst paper manufacturers is strong in this area. Many will catch up or are already in the process of converting their production. **But our swift conversion has given us a real time advantage**. This means that we are competitively well equipped and that we can now put our energy into optimising our productivity.

**impressive**

***What role did Heimbach play in the whole restructuring process?***

**Laurent Schmitt**

Many years before founding Blue Paper we had already worked with Heimbach and we've known our Heimbach contact Jean Kuster since the 1990s. Our employees are very familiar with the products from Düren, in particular the press felts, and we appreciate the quality and service provided by Heimbach.

**impressive**

***How did you proceed regarding the choice of suppliers? What demands did you have?***

**Laurent Schmitt**

We kept our enquiries deliberately very open and wanted to find out what solutions for our very specific demands potential suppliers would come up with. Heimbach foresaw our own expectations and chose the principle of nip dewatering. It was not just the choice of product but the coherent overall concept that convinced us from the beginning.

**impressive**

***Where, in your opinion, lie the greatest advantages of nip dewatering?***

**Laurent Schmitt**

First of all, with nip dewatering **we achieve a high dryness** and the hydraulic pressure does its bit. That is absolute world class. Second, thanks to the excellent nip dewatering values we are even able to run without Uhle boxes and turn off the vacuum pumps.

"Our employees appreciate the quality of Heimbach."

*Blue Paper SAS in Strasbourg/France.*

*PM1.*

*The Blue Paper experts gladly provide information.*

This saves costs and optimises the runability of the press felts. Finally, the cherry on the cake, due to the increased dry content, we experience less sheet breaks and a better overall performance.

**Carsten Bruns**
The felts, e.g. the Atromaxx we use here, provide fast start-up characteristics, so that the machine is able to reach normal production speed in only a few hours. Furthermore, the felts are robust and run reliably and cleanly. To date we were able to run the press felts without any chemical cleaning because of the lower contamination level.

**impressive**

***So you are happy overall with the collaboration?***

**Carsten Bruns**
Yes, the whole package – technology, concept, service and price – is just right: We were convinced from the beginning that Heimbach had the right idea. **We started immediately with the right set of clothing**. That shortened the learning phase considerably. However, what was also important to us: If the first designs had not been quite perfect we would definitely have found alternatives within the Heimbach product portfolio.

**impressive**

***Heimbach is privileged to supply clothing for forming, press and dryer sections of your machine. Where are the advantages for you?***

**Laurent Schmitt**
Let's look at it like this: When a start-up has to be dealt with, you need first of all the right partner and secondly that partner has to be in a position to offer the appropriate products. The fact that Heimbach could supply us in all sections was a help. It was not a must, but it helps to have less suppliers to deal with when you have so many other topics to care about during a start-up phase. With less contacts, you have faster decisions.

**Carsten Bruns**
And this is true particularly in our case because our time frame was so tight anyway. This has certainly contributed to the timely success of our project.


*Carsten Bruns (left) and Laurent Schmitt (right) discuss details of the conversion.*

**impressive**

***What are the next steps?***

**Laurent Schmitt**

We've basically finished the conversion and we are proud of what we've achieved in such a short time. But there is still a lot to do. Now the focus is on more efficient production.

**Carsten Bruns**

This means: achieving better paper quality, optimizing energy consumption, minimizing machine downtimes. And let's not forget that in a sense we are only a year old! Our ambition is to grow from "good" to "even better".

**impressive**

***Many thanks for the informative exchange!***


## Blue Paper SAS, Strasbourg/France

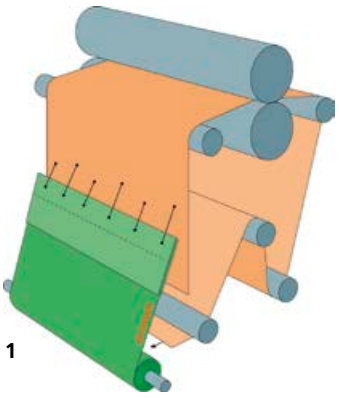
- Joint Venture between Klingele Group (D) and VPK Packaging Group (B)
- Investment for machine rebuild (width at reel 8.54 m): 100 Mio. Euro
- 140 employees, Production over 300.000 t/year fluting/liner
- Grammages 70 to 135 g/m², 100 % waste paper

# Welcome Paper Pete

## Our new "colleague" gives tips on best practise from practical experience

*No question, dear paper maker, you are the experts in your field. But sometimes it may be helpful to pick up the odd trick from other professionals. Paper Pete, our new "employee" is just the person for the job. In future he will speak up with some practical information on certain technical issues that may affect your everyday working life. Paper Pete has many years of experience around paper machines and fabrics. He has eyes and ears everywhere, picks up on everything worth knowing and gets smarter every day. So we can all look forward to technical details on fabrics, felts, equipment, maintenance, etc. Paper Pete does his best to leave no question unanswered. And if this is not the case Paper Pete's colleagues from the product management, sales and TASK departments are always on hand with help and advice.*

In today's part of our new series Paper Pete gives tips for the correct and simple method to install seam felts. Heimbach CONNECT seam felts are ideally suited for use in the press section. They are suitable for the production of almost all paper grades and are characterized by high



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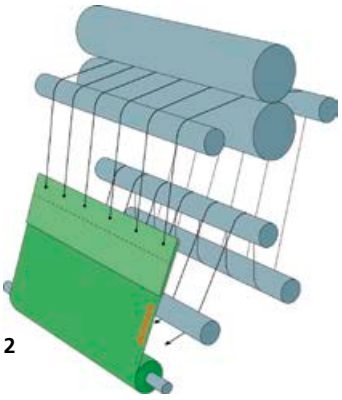

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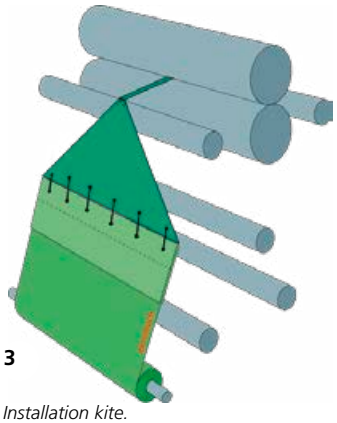

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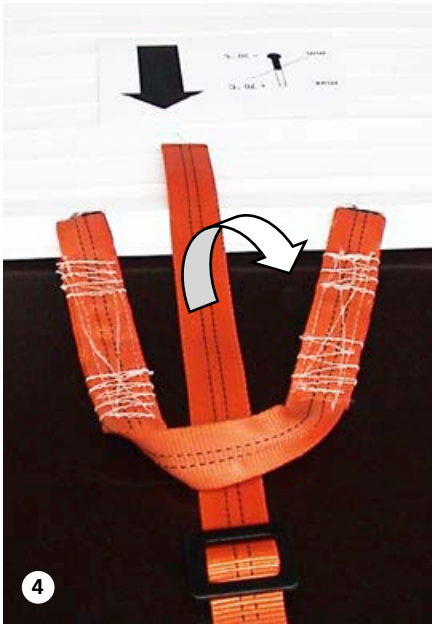
*Installation kite.*



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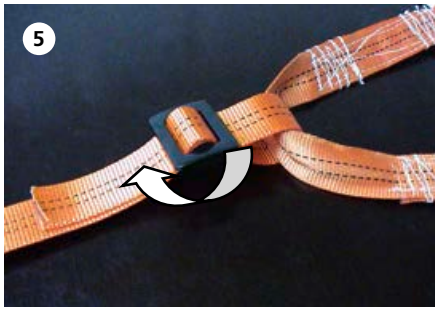

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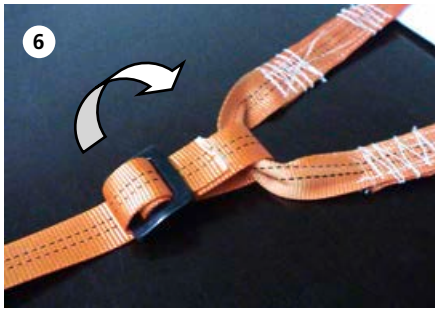

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## Best practise from practical experience

**efficiency, savings potential and good running performance**. Heimbach seam felts are always supplied in special packaging with clear instructions for opening and installing on the machine.

**Starting in pole position**

Once the felt is in the position for unwinding there are **different options for installation**. "The new felt can be attached to the old felt using ropes. However, with wide felts it is advisable to use a 'kite', a special installation aid" says Pete Paper *(see Fig. 1-3)*. "Then pull the seam felt either in the running direction, which is the standard method, or against the running direction – especially in upper felt positions where a crane or special installation device is used." "**Do not skimp on care**, because the proper installation of the seam felt always has a positive effect later when closing the seam. If the seam felt is installed by hand (using ropes), it is important to respect the orientation of the **unwinding device** and to ensure that the felt is pulled in straight and parallel.

**Using a kite made easy**

When **installing the seam felt using a kite** proceed as follows:

- Observe the arrow indicating the running direction! It does not necessarily have to be the same as the installation direction, because the felt can be installed in the opposite direction to the running direction.
- Connect the kite! This should establish a stable and at the same time flexible connection. This enables the strap to be used many times.
- There is no further knotting required providing a very thin connection *(see Fig. 4-6)*.

"Once you get the hang of it, **installing a seam felt with the help of a kite is a significant easing of effort**" recommends Paper Pete. "The protective cover should only be removed when both ends of the seam felt are brought together perfectly positioned for seam closing. Then open the stitching row attached on the lead-in piece at the position indicated by the yellow scissors symbol and remove all installation aids in one step *(see Fig. 7)*.


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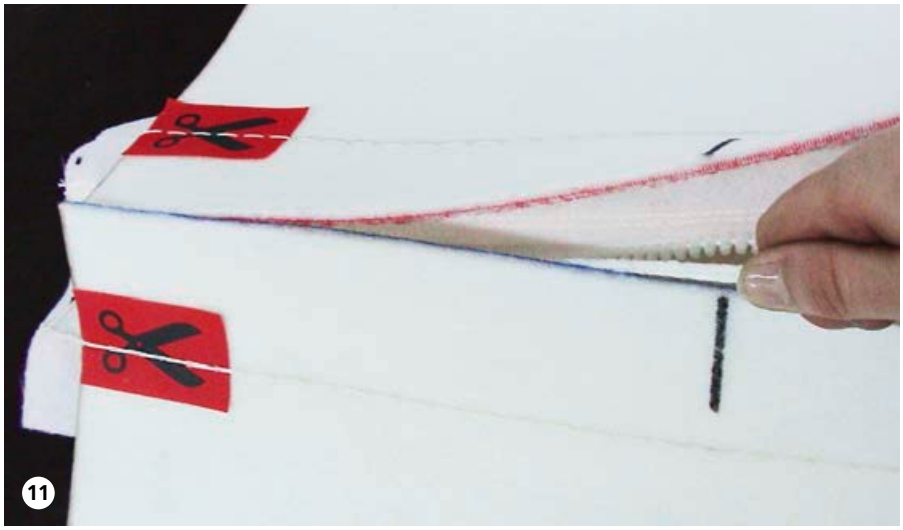
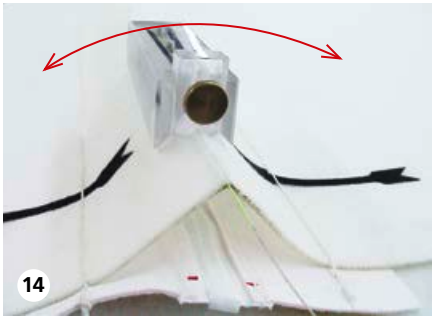
**We will also show you how to apply the brake!**

**A braking assistance** is useful in the upper felt position. It is used to prevent the seam felt from unintentionally falling down. To release the velcro bands (please do not open!) **open the stitching row again at the yellow scissors symbol**. With this method the Velcro bands stay on the pole and do not fall uncontrolled through the machine. Please only ever open the stitching row from the side which is marked by the **yellow scissors symbol** *(see Fig.10)*.





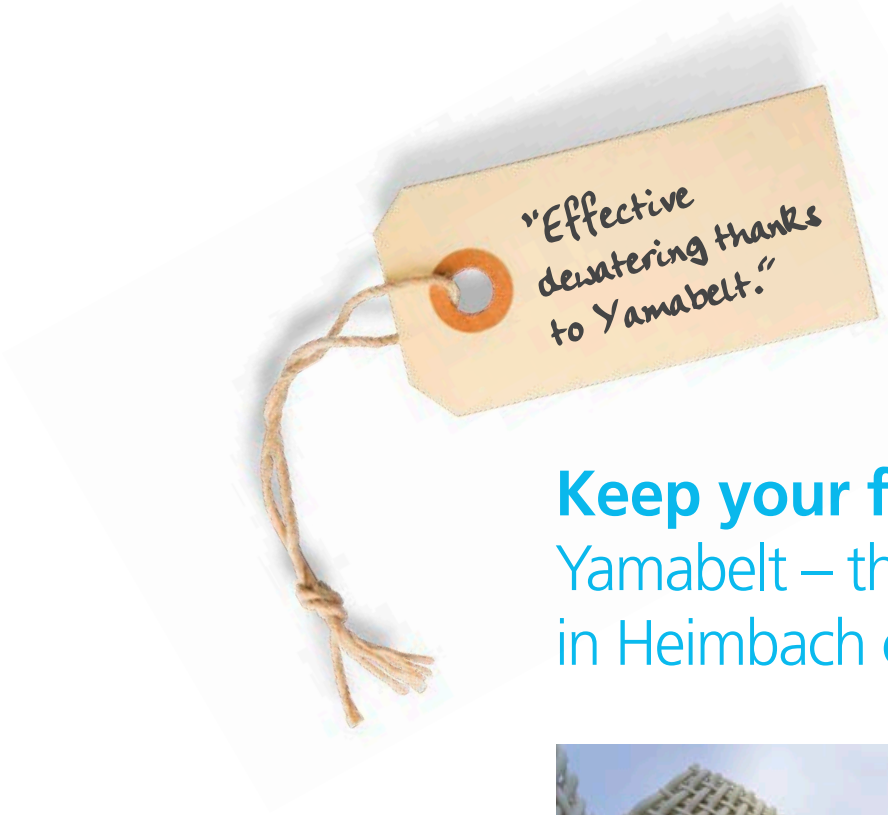

**Zip up – strip away!**
Both ends of the seam should be dry and lie flat without waves. Once this is achieved the zipper is closed by pulling the short yarn attached to the zipper and the protective strip can be removed *(see Fig. 11)*: "Don't forget! **Parallelism and flatness are important**," says Paper Pete. Now bend over the ends of the protective seam wires at both felt ends before pulling them out. Please keep the protective seam wire straight when pulling out. "The best way to handle the **seaming tool** is as follows: Don't turn it sideways, just slide in the tool and **push forward with gentle pressure**. Then the seam will close almost by itself," advises Pete *(see Fig. 12-14)*.

**On the home straight**
Please don't forget to release the brake before you **pull the seam wire out of the pintle wire case**. After closing the seam, please check again carefully:

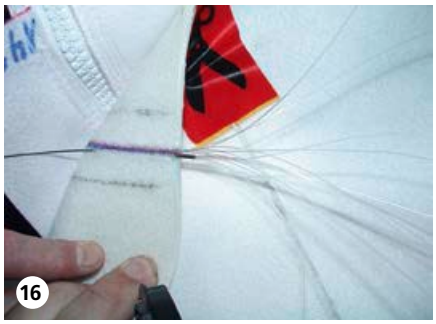
- Push your finger in the resulting tent.
- Feel along the seam with your fingernail to detect any eyelets that may have been missed.
- Nothing to be found? Perfect!

Only now the zipper can be removed by opening **the stitching row indicated by the red scissors symbol**. Then fix the steel edges of the seam wires by inserting the pintle back into the trailing end by approximately 5 cm. Bending the edge of the felt enables the seam wire to be pushed through the felt and easily tighten up to the stop (if necessary, pull the seven wires run through individually, but please do not use too much force *(see Fig. 15-17)*. Then remove the **zip fastener under the seam** and all other tools from the machine *(see Fig. 18)*.

**Good luck! Your Paper Pete.**




# Keep your feet dry!
## Yamabelt – the new district in Heimbach city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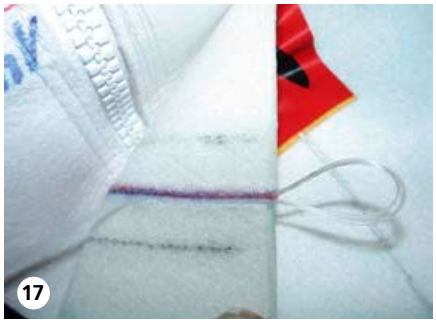
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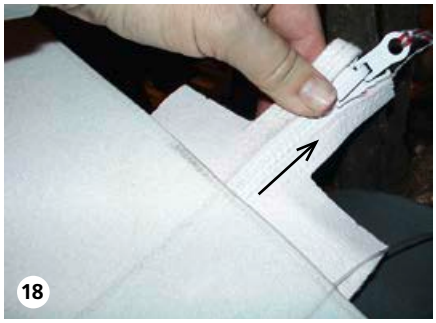
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*„Bridge technology" a little different: Yamabelt complements our popular Heimbach City.*

New York, Rio, Tokyo: Great cities are growing incessantly – and so of course is the Heimbach City! Our special kind of paper town is slowly becoming a metropolis, and the **Yamabelt District** adds another advertising motive to our creative imagery. Yamabelt is the all-rounder for the shoe press. The belt significantly improves dewatering leading to substantial energy savings due to the increased dry content. In our Heimbach City the oversized Yamabelt creates a bridge to the other side of the road. This ensures that Heimbach customers always keep their feet dry whilst the body of water flows through the city. With such effective dewatering it is almost possible to go diving!


*The venue: Hotel abba BURGOS.*

*A deserved break and time to chat after the first theoretical part.*

# ¡Viva España!

## Many practical tips on hand at the first Dryers Club held in Spain

Participant appraisal:
"I learned a lot of things that I will take back to the mill, theoretical as well as practical."

*The distance from Heimbach in Düren to Burgos in Spain is almost 1,500 kilometers. Anyone who so wishes can travel the entire route "on foot" following the ancient paths of the pilgrims. This is because the Spanish provincial capital of Burgos lies directly on the St. James Way to Santiago de Compostela, and this is where the first "Dryers Club" took place on Spanish soil on the 23rd and 24th of October last year.*

Fortunately the journey of the participating paper makers travelling from all over Spain and Portugal to Burgos was not quite so exhausting. This time the event was organized by Heimbach Ibérica in cooperation with our partners Kadant and Solenis. Following two Dryers Club events held in Germany, the seminars are becoming increasingly international. Over the two-day event the 26 participants learned many interesting facts about the dryer section of the paper machine in **technical conferences and practical workshops**. After a short welcome and introduction by marketing executive Didier Verhaert there were three short keynote speeches and then it was down to business: Robin Moritz and Joaquin Biera elucidated on Kadant **cleaning systems and technologies**. "Passivation in the drying section" was the follow-up topic by Jorge Ribeiro from Solenis. Ruben Mosquera, Product Manager at Heimbach Ibérica, concluded this first sequence with a **root cause analysis on types of wear** and spoke about the influence that the design of the dryer has on the effectiveness of cleaning systems.

**Interesting facts about technology and cost**

The guests had a first opportunity to interact with each other and with experts during the coffee break that followed. "The atmosphere was very laid back and Heimbach staff was on hand to answer any questions," was one of the first reactions from the participants. Suitably refreshed, the journey continued. The focus shifted from technical to more commercial aspects. Ernesto Martinez, Heimbach TASK, spoke on the key topic "**Cost control and dryer fabrics**" using specific and relevant case studies. Joaquin Rodriguez from Kadant

Participant appraisal:
„Both the theoretical and practical parts were very close to the daily work of papermaking."

## ¡Gracias!

Many thanks to our partners whose kind support made the Dryers Club in Spain a great success:

- Kadant M-Clean AB, Sweden,
- Kadant Lamort S.A., France,
- Solenis Switzerland GmbH, Switzerland.

And of course a big thank you to all employees of Heimbach Ibérica SA who thanks to great efforts both on stage and behind the scenes, contributed greatly to the success of the event.

spoke knowledgably on the subject of how to get greater **energy efficiency in the drying section**.

Ruben Mosquera closed the first day of the seminar with remarks on the topic "Requirements for dryer screens" with regards to **load capacity, air and water carrying**. The attentive listeners were rewarded with an exquisite culinary end to the evening.

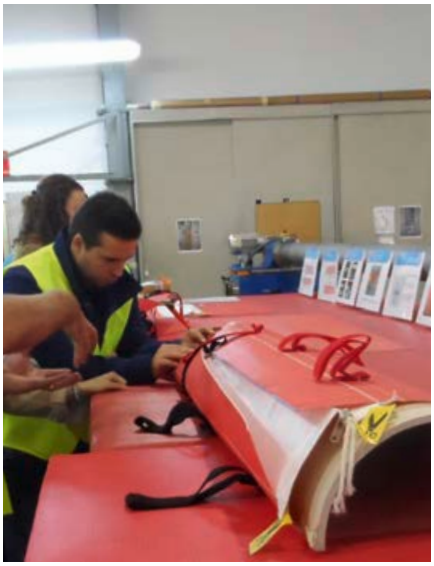
**Best practise from practical experience**

On the second day participants were given the opportunity to get "hands on" within the factory at Heimbach Ibérica. After a welcome and safety briefing **holes were sewn, edges welded, installation and**

Participant appraisal:
"It was really great. My expectations were exceeded. I would like to come again and bring other colleagues with me."

*Practical exercises on dryer fabrics under professional supervision.*


*The working group repairing a damaged dryer fabric.*



*Seaming aids in the practical test.*

**seaming aids tried out** in small working groups and many tips and tricks for everyday working were shared along the way. Here skill and patience were needed, but faces that began the day with perplexed frowns were replaced by satisfied and knowing expressions. One participant commented, "I can take away with me a lot of knowledge for my operation, both the theoretical and practical part were **very close to the everyday work** of the papermaker," and another added: "We have received **a lot of practical advice**, the seminar was well matched to our needs." Before driving to one final group lunch and the end of the event the papermakers made their own pilgrimage through the production building and received a comprehensive **insight into the Heimbach Ibérica production facility**. Each participant made their individual way home – hopefully not on foot. We look forward to seeing you all again soon and say **"¡Gracias y hasta la próxima!"**

## INFOBOX

Heimbach Ibérica S. A. was established in 1970 as a branch factory and supplies the markets in Spain, Portugal and Latin America with fabrics for all paper machine positions.

# Impressions from "Dryers Club"



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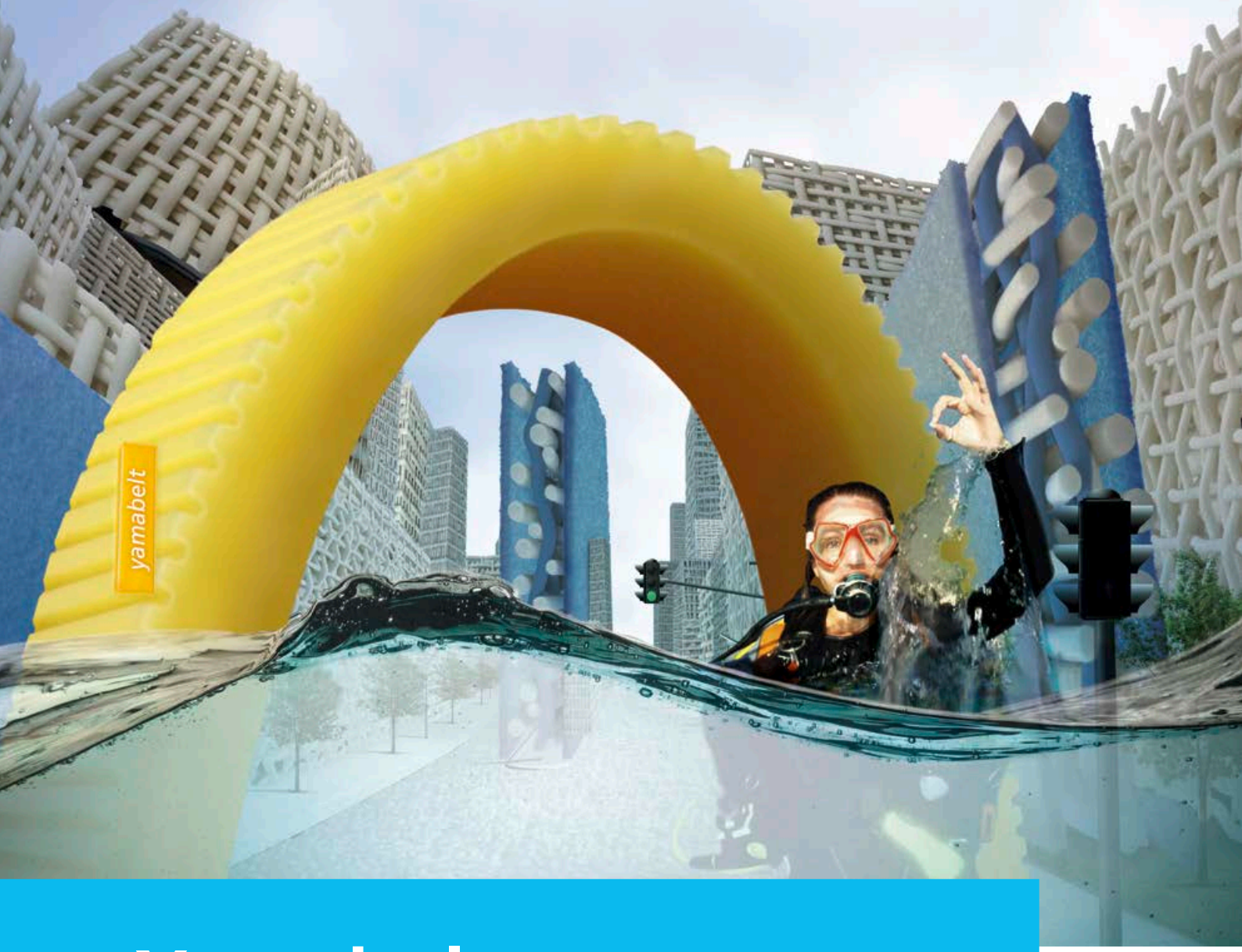


# Yamabelt

## The perfect all-rounder for shoe presses

**Yamabelt** is the ideal energy and cost efficient belt for any shoe press position.

- High cracking resistance and low chipping tendency for **long life times**,
- long lasting void volume retention for best possible and **even dewatering**,
- substantial **energy savings** due to increased dry content,
- excellent dimensional stability ensures **smooth runability**,
- highly accurate grooving process for **lowest marking potential**.

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