



The Smart Way To Innovation

# Success Stories

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## USA

### SALES - CALL REPORT - CORR. BELT

SALESMAN : Elmer C. Beale

### CONTACTS PRESENT DURING CALL :

CUSTOMER : RockTenn Corrugated Packaging, 4637 16th Ave NW

LOCATION : Fargo, ND, 58102

PHONE : (701) 281 .....

DATE of CALL : 11-Apr-12

LAST CALL : YTD 1

WRITTEN BY : Elmer C. Beale

TYPE of CALL : Current Customer

PLACE of CALL : Customer`s Plant

REQUESTS : Quotation

### MAIN POINTS OF VISIT

1. Spirabelt 901361 has run 11 months and has been running well. There are a few strings on the edges but they have not trimmed or resealed the edge since it has been on. Again, a testament to the new edge treatment. The improvements they made to the machine has resulted in no incidents of the belt running off as happened often on previous belts. There were two pieces of board sticking to the belt in the center. The belt will probably need to be changed in August-September.

2. The Ventatrac belt, 901364, also has been running well. It also looks in very good shape.

3. They are very supportive of the Spirabelt and want to keep running it. Board quality is much better with the Spirabelt, there is no blistering and the belt runs clean. They used to be limited in speed because of drying with the short hotplate section. With the Spirabelt, speed has been increased because of the better moisture removal.

**From:** Phil Rudy

**Sent:** Thursday, June 21, 2009 3:15 PM

**Smurfit update as requested:**

**Smurfit-MBI** – Guelph, ON Canada. Spirabelt installed almost 12 months ago and running great. The maintenance manager and production manager love it and are promoting it to Smurfit plants throughout Canada. The belt has made a big improvement in sheet flatness and the finishing department claims the corrugator is now producing the best board ever. They wore a groove in the belt two months ago about 1" wide full length and about 12" in from the edge but they are still running this belt. They have a Spirabelt backup on the floor ready to install. They just found out they will be receiving a new BHS corrugator in early 2008 and have told BHS they want the Spirabelt on the new machine at delivery.

**Smurfit-Stone** –

I wish to report that Spirabelt # 804674 (W1006/01) delivered to Smurfit-Stone Container in Sandston, VA has just achieved 190 million lineal feet of production (58 million lineal metres). Typical life for a belt this size is approximately 110 MLF (33MLM). The belt was installed in February 2006 and has been running more than 16 months. The longest life the plant ever got from an .....felt belt was 18 months. They agreed that Spirabelt has produced considerably more lineal feet of board than any other previous belt given that they have had a sizeable increase in production over the last year.

The belt is in excellent condition with no edge wear and the customer fully expects to get another 3-6 months plus out of the belt.

Smurfit-Stone – Richmond, VA (Sprouse Dr.).

The production manager for the Lewis Road plant asked this plant to order a Spirabelt from Feltri Marone/Cristini. I got the order last week.

Smurfit-Stone – Fargo, ND. Spirabelt was installed April 15<sup>th</sup> and has been running well since installation. The customer has already placed an order for a back-up Spirabelt. The customer has been able to increase machine speed on 42#-56# liner grade 50 fpm to 60 fpm (used to run at 580 to 590 fpm and now run at 640 fpm). They are also seeing less incidents of crush. This customer has also agreed to allow us to share this information to other SSCC plants.

## PORTUGAL

-EUROPAC ALBARRAQUE (Portugal)

Easy to handle and to install

Considerable reduction in energy consumption at main drive

Considerable reduction in steam required for perfect bonding

Bonding takes place in 0 hrs instead of 4 hrs

## ITALY

-SCA PORCARI (ITALY)

We have two machines, one for heavy board (mc 5) and one for micro board (MC 6).

On MC 5 we can produce heavy triple wall at more than 150 mt/min and the board comes out of the hot plates already perfectly dry; no delamination at the slitter scorer.

## SOUTH AFRICA

-MONDI PINETOWN (SA):

Marked improvement of board quality when producing micro board and using difficult, sealed papers.

Remarkable reduction in energy (electric and steam)

Excellent stability and planarity

Waste has considerably reduced; final calculation at the end of the year

## ARGENTINA

### CARTOCOR INFORME TECNICO FIELTRO SPIRABELT SEPTIEMBRE 2010

El pasado 11 y 12 de Julio del corriente año, se procedió al cambio del fieltro superior por la nueva tecnología **Spirabelt**. También se reemplazó el fieltro inferior y el rolo superior. Hasta el momento podemos destacar las siguientes observaciones sobre el uso de este nuevo fieltro:

#### Mecánicas

- Menor peso, por consiguiente mayor facilidad para la instalación y para realizar la costura de los extremos. Reducción del tiempo de colocación( 1 hora).
- Menor consumo de energía, dependiendo de la presión de las bolsas.

Anterior fieltro 120 A aproximadamente, Spirabelt : 85 A).

- Movimiento parejo, no se desliza hacia los costados.
- Se elimina el uso de la ducha que anteriormente utilizábamos para humectar el fieltro.
- Menor intervención de los operarios para limpiarlo, ya que es un fieltro auto limpiante.

#### De proceso

- Hemos notado que hay una evaporación pareja de la humedad a lo ancho de todo el cartón.
- Menor temperatura del cartón medida a la salida de la cuchilla transversal. Se redujo 10°C comparado con el fieltro anterior.
- El cartón presenta una mejor terminación en la superficie.
- Se realizaron pruebas con papeles de bajo gramaje utilizando la máquina a máxima velocidad (210 m/min) y no se observó ninguna anomalía.
- Se realizaron pruebas con doble onda (papeles de bajo gramaje) y hemos podido levantar la velocidad hasta 140 m /min , anteriormente se usaba a 120 o 130 m/min, para este caso los papeles usados fueron de bajo gramaje.
- Con papeles de mayor gramaje hasta 240 grs se trabaja normalmente.

**UK**

September 2011

**Hi Paolo**

I have taken a good look at your new website and it is extremely well made and very informative. Another benefit I found when running the belt is that the board is much better and flatter throughout the speed range. Even when running slow after a stoppage etc. the board produced is much more usable, mainly due to the lower hot plate temperatures and also the open nature of the belt. I also think there was much less static build up than a conventional belt. I will certainly pass on the website details to those I know so that they can take a look for themselves.

Regards

Steve.

Steve Coke- Smurfit Kappa UK

## EASTERN EUROPEE

(October 2014)

### REPORT

On the performance of Spirabelt-120 on BHS machine for 6 months of work.

We found the following advantages of the spiral belt:

**1. Decrease of energy consumption on the drive of the drying table due to the low weight of the spiral belt compared with traditional belt.**

Spirabelt 120 weight – 2000gsm. Total weight – 174kg.

Aqua Ultra AE – 5000gsm. Total weight – 434kg.

**Calculation of energy saving**

(load on the electric motor decrease from 180-190A to 140-150A, for 21%)

	VOLTAGE, V	LOAD, A	v3	POWER, Watt	Saving for 6 months in 2014	
					%	euro
SPIRABELT-120	380	140-150	1,73	98610	21	3053
AQUA ULTRA AE	380	180-190	1,73	124906		
Load decrease on:				26296		

**2. Decrease of the waste – delamination - on the edges due to effective drying of the edges on the drying table:**

	6 months 2013		6 months 2014		SAVINGS		
	AQUA ULTRA AE		SPIRABELT-120		ton	%	euro
	ton	% waste	ton	% waste			
Waste delamination on the edges	29,6	0,1	19,9	0,07	9,7	0,03	3138

**3. Decrease of waste – warping – due to effective drying of the board in CMD**

	6 months 2013		6 months 2014		SAVINGS		
	AQUA ULTRA AE		SPIRABELT-120		ton	%	euro
	ton	% waste	ton	% waste			
Waste warping	339,1	1.14	179,1	0,65	160	0,49	51765

**4. Increase of corrugator machine speed due to effective and fast drying on the double backer.**

	6 months 2013	6 months 2014	Growth	Gain of production for 6 months of 2014
Speed, m/min	159	170	(+) 11	3807 th. m <sup>2</sup>

**5. Decrease of steam consumption per unit of production (corrugator board dries faster and more regular along the whole width of the web due to high permeability of the spiral belt – 1000cfm)**

	6 months 2013	6 months 2014	Difference		Savings, euro
			Ton/th.m <sup>2</sup>	%	
Specific consumption, ton/th.m <sup>2</sup>	0,19	0,17	-0,02	-10.5	26400

**6. Savings due to the bottom belt – 8290 euro/year, because traditional belts used to be changes always top and bottom together every year, whereas 1 Ventatrack lasts with 2 Spirabelts.**

Spirabelt was turned over from the inner side to the board side + Spirabelt was repaired 2 times (holes were deleted).  
Spirabelt was repaired 2 times (holes were deleted).  
Now technologists need to repair Spirabelt again but they don't have cables for seaming  
Could you send to them 2-3 cables (probably more) FOC Asap by DHL?  
As technologist said Spirabelt has good condition for this running and it will be able to reach 110-120 mln. l. meters.

Feltri  
Marone 

## EASTERN EUROPEE

(October 2015)

Dear Roberta,

Please to be informed Spirabelt is still working there.

It has reached 95 mln. l. meters by this time.

Spirabelt was turned over from the inner side to the board side +  
Spirabelt was repaired 2 times (holes were deleted).

Technologist said Spirabelt has good condition for this running and it  
will be able to reach 110-120 mln. l. meters.

## RUSSIA

**Inviato:** Wed, 1 Aug 2012 16:45:11 +0400

“To CEO of Feltri Marone Mr. Paolo Franchi

Limited Liability Company “GOFRON” has been cooperating with the firm Feltri Marone for more than 3 years. During this period our partners supplied to us several spiral belts Spirabelt 120 for our corrugator machine. Taking into consideration a long-term cooperation GOFRON had opportunity to evaluate quality and advantages of Feltri Marone products.

We hereby want to share our experience in using Spirabelt 120. Life time of the belt reached 110million linear meters. This is a very good result. We would like to highlight the following advantages of Spirabelt:

1. Energy saving on the drying table drive is 30%
2. Steam saving on the hot plates – 12%
3. Spirabelt parameters stayed the same and there was no need to change corrugator machine parameters during the whole life time of the belt.
4. Spirabelt is always clean.
5. Converting line capacity increased on 10%. Waste due to warping decreased.

At the moment a 3<sup>rd</sup> Spirabelt is installed on the machine. We are happy that we made the right choice. All the matters starting from harmonization of the contracts and coming to matters of Spirabelt exploitation were solved by the supplier’s specialists in the most effective way.

Taking into consideration long and fruitful cooperation with our supplier and good quality of goods GOFRON will recommend to use Spirabelt 120 to other producers of corrugator board.

Best regards,

Director of Department on Scientific and Technological Department

LLC GOFRON: Alexander Schweigert”

## RUSSIA

### **TRIAL ON A FOSBER MACHINE MODIFIED WITH STRONGER BOTTOM MOTOR.**

#### **Summary**

1. Spirabelt can be used for production of corrugated board on the Fosber machines provided an adequate bottom motor is installed. The cost of the modification can be recovered in just one year with the saving on electric energy alone.
  2. More powerful motor for the bottom belt, not depending on the type of used belt, gives saving of 15,000 – 16,000 euro/year.
  3. Increased production speed s for all types of board can be achieved in the order of 10% min.
- Quality of production was considered excellent just on the first runs; more data will be collected on actual waste level measured after the installation of Spirabelt.

## LATVIA

### BHS MACHINE WITH BARTROL IN STORA ENSO RIGA Installation report 8-9.02.2014

#### Post installation report after 4 weeks production.

Start up – Very easy with piece of cardboard bonded to liner and to Spirabelt with double-sided adhesive tape, to pull liner under the belt.

Belt tension – 30 bar.

Loading on main driven motor less as well – 125-145 A (at least 40% less than before)

Same values for BC-double-wall with 800 gsm – 145-160 A, what is about 30-35% less than with old belt.

Heavy double-wall BC with gsm about 1400 – 156-211 A with speed 115 m/min, same 35-40 % less than with previous belt.

Cardboard looks more flat and more equal in moisture distribution over the width.

As well visually reducēs edge warping effects, specially on E- and B- profiles.

Belt edges are protected with special polyurethane substance which periodically need to be retreated. Preliminary could be repeated after 2 month, but needs additional investigation

#### *Laboratory moisture distribution investigation:*

E-profile – difference over width of web – 0.1-0.3% compare to 0.2- 0.7% in past.

B-profile - 0.3- 0.5% to 0.3- 0.6%

C- profile- 0.2- 0.4% to 0.2- 0.6%

BE- double wall 0.1- 0.3 to 0.4- 1,0%

BC-double wall 0.3- 0.5 to 0.3- 0.8%.

Figures were taken during period from 10.02.14 till 04.03.14.

LATVIA

**BHS MACHINE WITH BARTROL IN STORA ENSO RIGA**

**Data di ricezione:** 07/03/2016 9.27.00

**Data di invio:** 07/03/2016 8.27.00

Dear Paolo, hello.

Hope you are fine and busy enough. I would like to inform you that first Spirabelt on Riga's corrugator was successfully replaced with new one after 2 years in production.

Thanks in advance/ grazie mille

Best regards/ Cordiali saluti

Boriss Sivokozs  
Technology and TCS Manager in Baltics  
Stora Enso  
Packaging Solutions  
Stora Enso Packaging, SIA

## ITALY

### First Fosber hot plates

Il giorno 22 novembre 2012 17:06, Carlo Scrivanti <[carlo.scrivanti@ico.it](mailto:carlo.scrivanti@ico.it)> ha scritto:

Buonasera,

i vantaggi che abbiamo ottenuto da questo tappeto sono notevoli: per quanto riguarda il consumo di corrente siamo passati da 180 A di media a massimo 100/110 A, il vapore siamo riusciti ad abbassarlo di circa 1bar e il rendimento è ottimo visto che gira da 2 anni e mezzo e va ancora bene ( prima il mulhe sohn lo cambiavamo una volta l'anno).La doppia onda siamo riusciti ad aumentare la velocità del 20% ( il cartone asciuga prima), ma il vantaggio enorme l'abbiamo ottenuto con la micro onda che adesso è perfettamente planare e ci resta per tutto il tempo che rimane in magazzino; inoltre, il tappeto non si sporca di colla e se succede si auto pulisce, con i tappeti tradizionali questo problema ci creava disagio.

Saluti , Carlo Scrivanti

### TRANSLATION

Good evening,

The advantages we have seen with this toe of belt are important: energy consumption dropped from 180° in average to 100/110 A , we managed to reduce steam pressure to 1 bar and life is excellent since the belt is running since more than two years and is still in giid shape (with competition belts we needed to change it every year). With double wall we increased speed by 20% (board dries faster) but the biggest advantage was with micro flute that is now perfectly flat and remains like this during all the storage period. Furthermore the belt does not get contaminated with starch and if this happens it cleans itslef; with traditional belts this was not the case and it created problems.

Best regards, Carlo Scrivanti