

energiestromen kunnen we nu ook de energiekost per geproduceerde meter van elk artikel in kaart brengen. Daar waar energiekosten vroeger via een sleutel over de verschillende artikels verdeeld werd, weten we nu exact hoe de totale energiefactuur over de artikels verdeeld moet worden. Dit laat ons uiteraard toe om een veel exactere kostencalculatie te maken en dus ook de juiste verkoopprijs voor elk artikel te bepalen.”

### Een zeer rendabele investering

Voor Concordia is het opvolgen van de energiestromen een cruciaal project, enerzijds om eventuele verliezen

op te sporen en te corrigeren en aldus te besparen op de energiefactuur, anderzijds om te komen tot een zeer nauwkeurige berekening van de kost van elk product.

Twee jaar na de start van het project is de initiële investering nu reeds ruimschoots terugverdiend.

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## A.C.S., THE NSC SOLUTION TO BOOST PRODUCTION WITH CROSS-LAID NONWOVEN LINES

A.C.S. stands for Air Control System. It is the latest development from ASSELIN-THIBEAU to enhance the productivity of nonwoven cross-laid lines. ACS was introduced for the first time during the last November Hof's Seminar in Germany. The first equipment will be operational in the industry in January 2011.

As year after year card technology allows higher production capacities from single cards, in the meantime, it is easy to add individual needle looms or to extend the length of ovens. As a consequence, the pressure remains high on the cross-lapper to optimise and balance the production capacity of the whole production line.

Commonly, the production capacity increases with the ability of the cross-lapper to handle a card web at high speed, without generating extra fibre tension. Extra fibre tension on the web helps to ease its entry into the cross-lapper feed carriage. Extra tension on the card web directly results in generating web weaknesses and a cloudy aspect, measurable on the final nonwoven fabric.

As a consequence, most nonwoven producers prefer to run the cross-lapper feed speed between 70 to 110 m/min, and there are only a few exceptions which are running day and night, seven days a week at speeds up to 140 m/min. Those producers are using Asselin cross-lappers equipped with the Ouatsys system.

The second option to increase the production capacity is to run with heavier card webs, parallel or condensed, and feed the cross-lappers as fast as possible, but always at lower speeds than when running with conventional card web weights. Nevertheless, it is not proven that running with such heavy card's webs; really enable higher production rates.

The Ouatsys system introduced by ASSELIN-THIBEAU in 2003, enhanced the cross-lapper productivity with whatever parallel or condensed card webs.

As speed further increase or as the card web weight increases, the requirement for higher air suction power increases; to keep the web in contact with the rotating cylinder.

The Ouatsys system found its limits and ASSELIN-THIBEAU started to look for an even better solution. This is how the ACS was born.

The ACS performances are outstanding. With literally NO draft (difference of speeds) between the card and cross-lappers feed speed, it has been possible to reach the performances below.

The ACS system really boosts the whole nonwoven production line productivity, with a special increase of production capacity when the process requests the use of a condensed card web.

As an additional benefit, the ACS system includes no static parts which can detain or scratch the card web structure. It does not use any air vacuum power and does not require any specific cleaning requirement.

The ACS system is visible in the NSC nonwoven showroom, where it is possible, for all nonwoven producers to run their own fibres, with their own parameters. For further information and to test the ACS system, you are welcome to send a message at [contact@nsc-nonwoven.com](mailto:contact@nsc-nonwoven.com).

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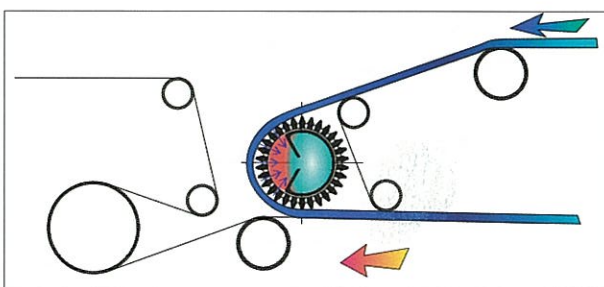


Fig. 1: scheme of the ASSELIN-THIBEAU's Ouatsys system

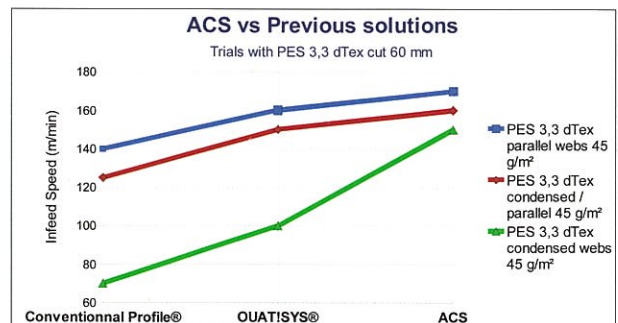


Fig. 2: A.C.S. versus previous solutions