

New
development to
increase
production level
with crosslappers



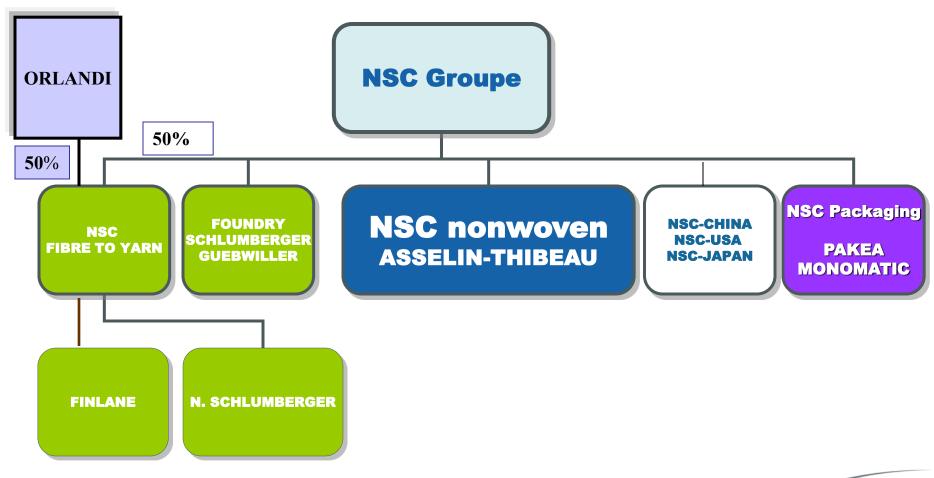


WHAT IS NSC nonwoven today?

- ▶ 2 production sites, 1 in France (Elbeuf) and 1 in China (Wuxi)
- ▶ a turnover of +/- 50 million Euros/year with 200 employees in France and 50 in China
- Worldwide presence with sales offices in China, Japan, USA and local agencies in 65 countries
- Worldwide Aftersales organisation
 with Service platforms in France, China, USA and South America
- ► A large reference list:
 - over 2,000 carding machines
 - over 1,000 crosslappers
 - ► over 1,600 needlelooms
 - over 30 Monomatic high speed nonwoven winders



NSC nonwoven is a business unit of the NSC Group



Leading system supplier for turnkey drylaid nonwoven production lines

- needlepunching
- through-air bonding,
- spunlacing,

- chemical bonding
- thermobonding





NSC nonwoven machines:









► Thibeau Excelle cards

market leader

► Asselin crosslappers market leader

- ► Asselin drafters market leader
- Asselin needlelooms co-market leader
 - Monomatic winders, slitters & rewinders

Challenger A TALENT FOR SOLUTIONS



NSC nonwoven, A talent for solutions

Together with our partners, NSC nonwoven has beaten some records...



The first spunlace line worldwide > 240m/min.



NSC nonwoven, A talent for solutions



The fastest rip carpet line worldwide: 15m/min.



NSC nonwoven, A talent for solutions



The most productive geotextile line worldwide: 1,450kg/hr



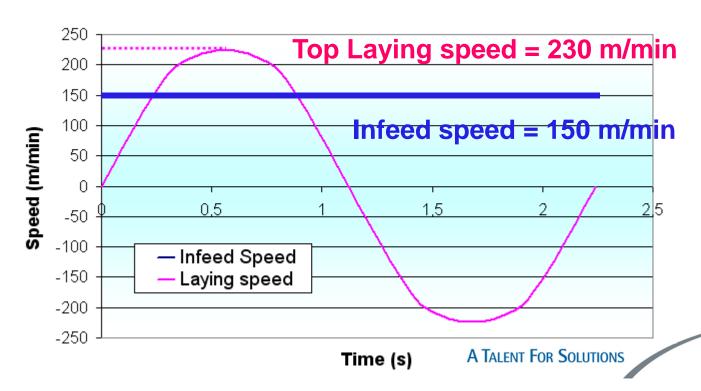




How do we define crosslapper speed?

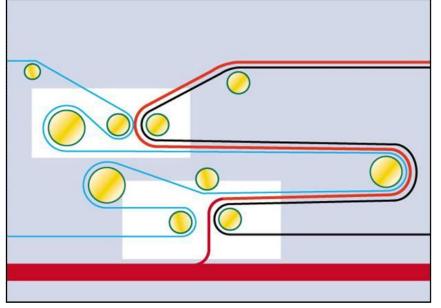
- → Use of infeed speed rather than top laying speed
 - Consistent with production level
 - No influence of the laying width...

Infeed speed vs Laying speed



Short textile path

Long textile path







A TALENT FOR SOLUTIONS



ACS benefices

New textile path: Airflow Control System (patented)

No static parts impeding the web

- No risk of structure web changing
- No risk to damage the web
- No risk of fiber jamming

No more vacuum device

- No vacuum power to adjust as par production
- No risk of fiber contamination
- No more wrapping risk
- No fiber built up on the ACS device

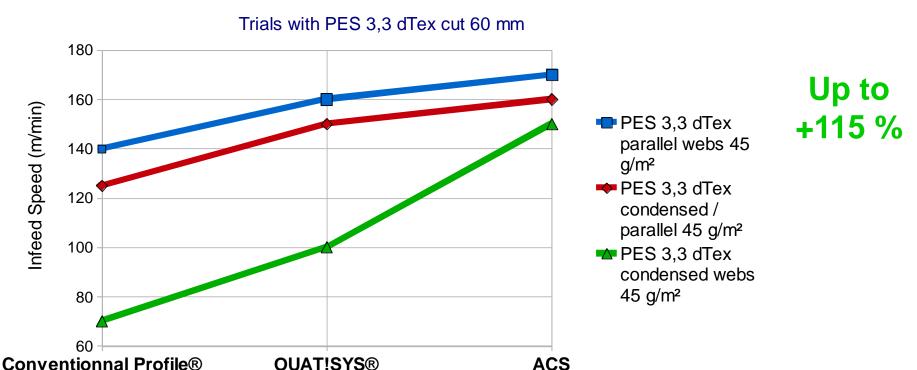


ACS performances

Performances comparison

From trials results in our demonstration room **ZERO DRAFT between card and crosslapper**

ACS vs Previous solutions





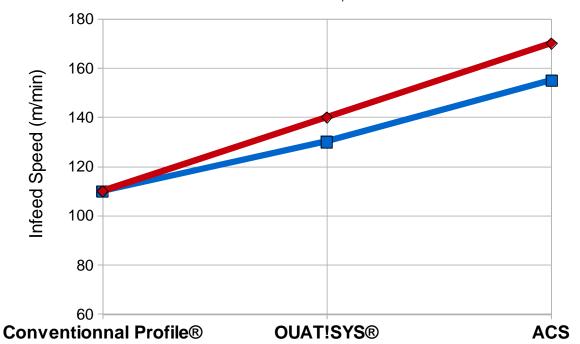
ACS performances

Performances comparison

From trials results in our demonstration room **ZERO DRAFT between card and crosslapper**

ACS vs Previous solutions





PP 4,5 dTex parallel webs 65 g/m²

PP 8 & 12 dTex parallel webs 60 g/m²

Up to +40 %



ACS performances

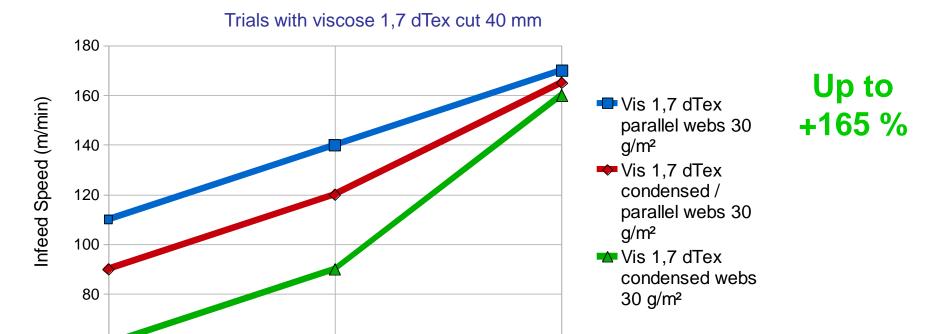
Performances comparison

From trials results in our demonstration room **ZERO DRAFT between card and crosslapper**

ACS vs Previous solutions

OUAT!SYS®

Conventionnal Profile®





ACS

CONCLUSION

	Profile ®	Profile® + Ouat!Sys®	Profile® + ACS
	Crosslapping quality at high speed		
Light web	***	****	****
Heavy web	**	***	***
Advantages	•High quality crosslapping	•Good control of fluffy and heavy web by a suction roll	Very good control of fluffy and heavy webLow maintenance
Inconvenients	•Bad control of fluffy or heavy web	 Risk of wrapping around vacuum roll if it is not periodically cleaned Sophisticated suction supply 	



Thank you for your attention



