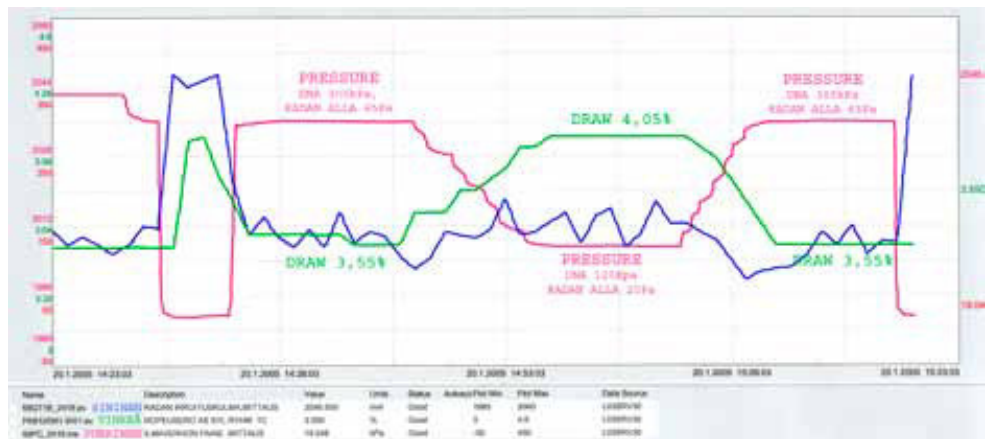# Air Curtain

Installing the Air Curtain will result in a 10 % – 15 % reduction in draw

The Air Curtain (patented) neutralizes the pressure difference between the top and bottom surfaces of the paper sheet after the center roll by creating an air curtain under the sheet.

This relieves sheet tension at the center roll, and allows potential for speed increases.

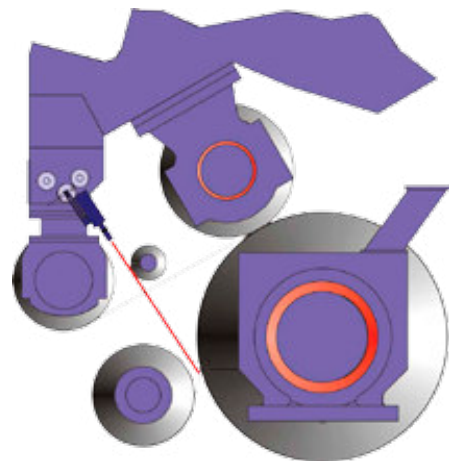| BENEFITS	RESULTS AND REFERENCES	
• Less draw	UPM Mill PMx – draw reduction 14 % (4.1 % > 3.55 %)	**FINE PAPER**
• Less breaks	(Machine speed 1,600 m / min, Metso Sym-Press B)	
• Less porosity	MYLLYKOSKI, Mill PMx – draw reduction over 25 % (2.3 % > 1.7 %)	**LWC**
• Wider sheet	(Machine speed 1,400 m / min, Metso SymPress B + 4th)	
• Better bonding strength	STORA ENSO, Mill PMx – draw reduction up to 20 %	**MFC**
• Better tensile strength	(Machine speed 530 – 1,375 m / min, Voith tri-nip + 4th)	
	NORSKE SKOG, Mill PMx – draw reduction 13 % (3.80 % > 3.30 %)	**NEWS**
	(Machine speed 1,450 m / min, Beloit tri-nip)	
	EMIN LEYDIER, Mill PMx – draw reduction 10 % (2.75 % > 2.48 %)	**LINERBOARD**
	(Machine speed 1,100 m / min, Voith Duocentri + shoe)	

Laser

For better control of the press section speed differences

The RS Laser is a release point measuring device that uses a laser beam to locate the paper web release from the center roll in the press section.

With this information the number of breaks in the press section can be reduced by adjusting the release point to the correct position.

FACTS

- Designed with a stainless steel cover and an air purge connection to withstand the demanding paper machine conditions.
- The laser is connected to the machine automation
- The trend curves of speed differences and release points provide the operators with valuable information concerning changes in the wet end and press section operations

- RS Laser can also be used as break detecting equipment at the center roll
- Break potential can be reduced by adjusting the release point to the desired position
- Over 200 installations world wide

Runtech Systems