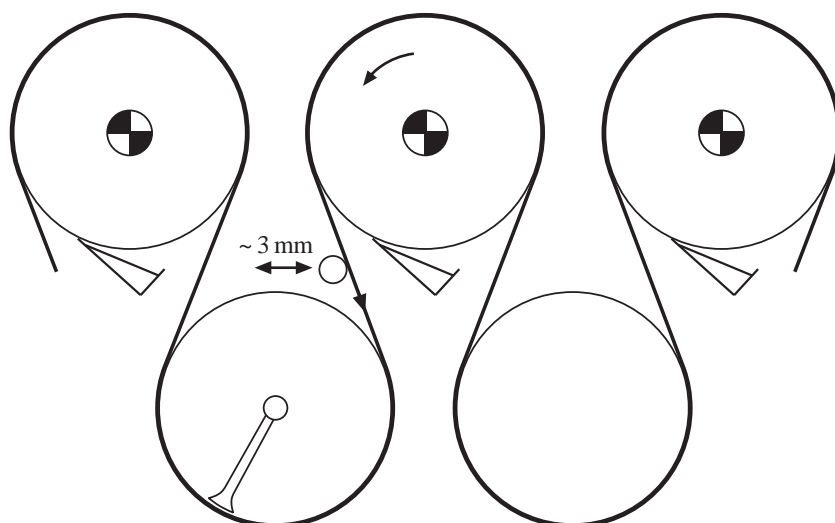


Trailing fixed siphon leads to draw differences in a Slalom section

For speed measurements, a large diameter measuring wheel was placed in the position shown in the following drawing. At the contact between the wheel and the dryer screen horizontal movements were observed. These movements occurred at the same time as a noise that corresponded to the rotation frequency of the cylinder.



This noise was caused once per revolution by a fixed siphon which was contacting the inner wall of the cylinder to such an extent that a braking action was caused to the non-driven cylinder. This was the cylinder following the measuring point, in the machine direction.

This intermittent braking created tension differences in the fabric draw. The tension difference of the dryer at this point was so great that the horizontal movement of the measuring wheel was 3 mm under constant pressure.

It should be mentioned that the variations in power consumption caused by the braking were not visible at the dryer section ammeter.

If such a disturbance were to occur at the change-over from the driven cylinder of one section to the non-driven cylinder of the next, the feeding of the sheet would certainly be interrupted by sheet breaks. Equally, sheet breaks at full width also could not be ruled out.

Not correctly centred siphon creates braking action on the cylinder ...

... resulting in differences in fabric tension

... not visible at the ammeter

Attention:
Risk of breaks at change-over from driven to undriven sections