

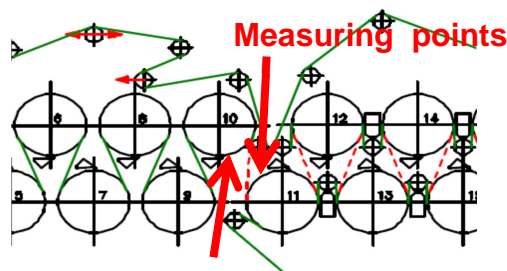
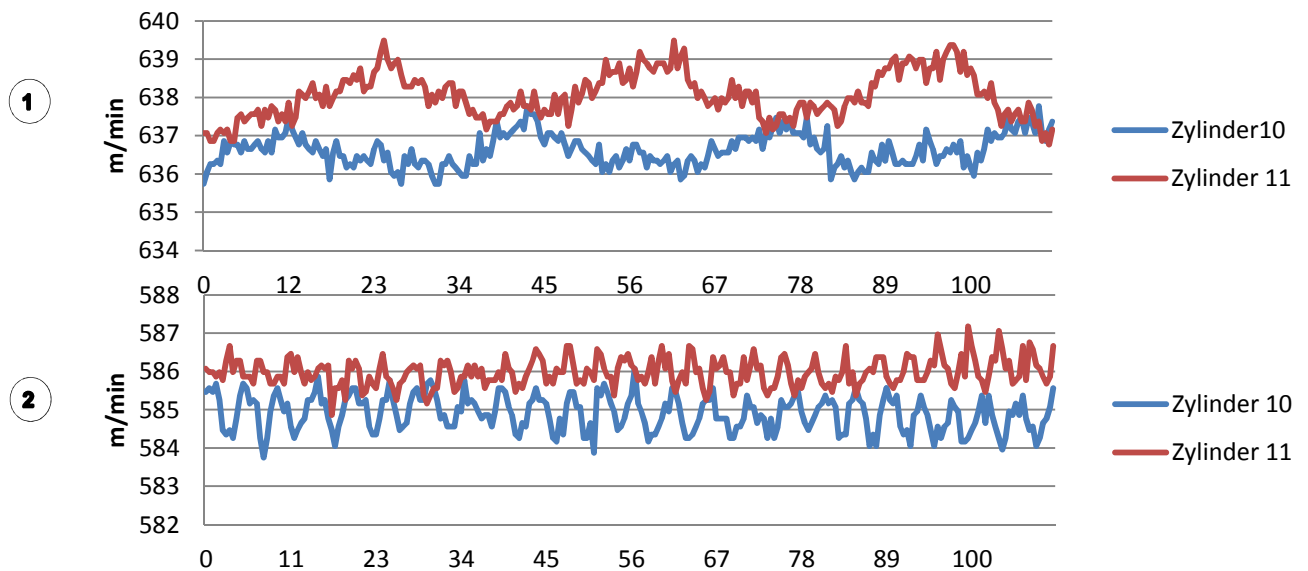
## Measurements between 1<sup>st</sup> and 2<sup>nd</sup> dryer group

**Problem:** Infrequent sheet breaks without obvious reasons between 1<sup>st</sup> and 2<sup>nd</sup> dryer group. Unfortunately on this PM no sheet inspection system is installed, so no reasons could be found for the additional breaks (approx. 20 more than usual).

Heimbach considered that speed differences could be a potential cause of the problem and carried out a non-contact speed measurement.

**Solution:** Speed measurements between 1<sup>st</sup> and 2<sup>nd</sup> dryer group. In each group a sensor was installed to measure both groups in the same time. The results showed that the speed controllers of both groups worked in reverse to each other - see ①

After repairing the speed controller the defect was fixed and the control parameters came back into normal conditions. The break rate became normal -see ②



### **Benefit:**

Reduction of approx. 20 breaks/d with 20min/break

Basis Weight: 140 g/m<sup>2</sup>, machine width: 5m, speed: approx. 600m/min

$$140 \text{ g/m}^2 * 5\text{m} * 600\text{m/min} = 420 \text{ kg/min}$$

$$400 \text{ min/d} = \text{more production time is } 168 \text{ t/d}$$

👉 **Daily sales increase \***



\* Estimated price of 350 €/t