



# SuccessStory at Sizing

**Keep the water clean  
and save money with AS 120**

# The Situation



Sizing is the crucial preparation for weaving and a high yarn quality. Therefore, sizing agents are applied with a squeezing unit to the warps. In practice, often **10 – 25% more sizing is applied than required** to be on the safe side.

However, this implies **economical and ecological disadvantages**:



**Higher use of expensive sizing agents**



**More wastewater and pollution**



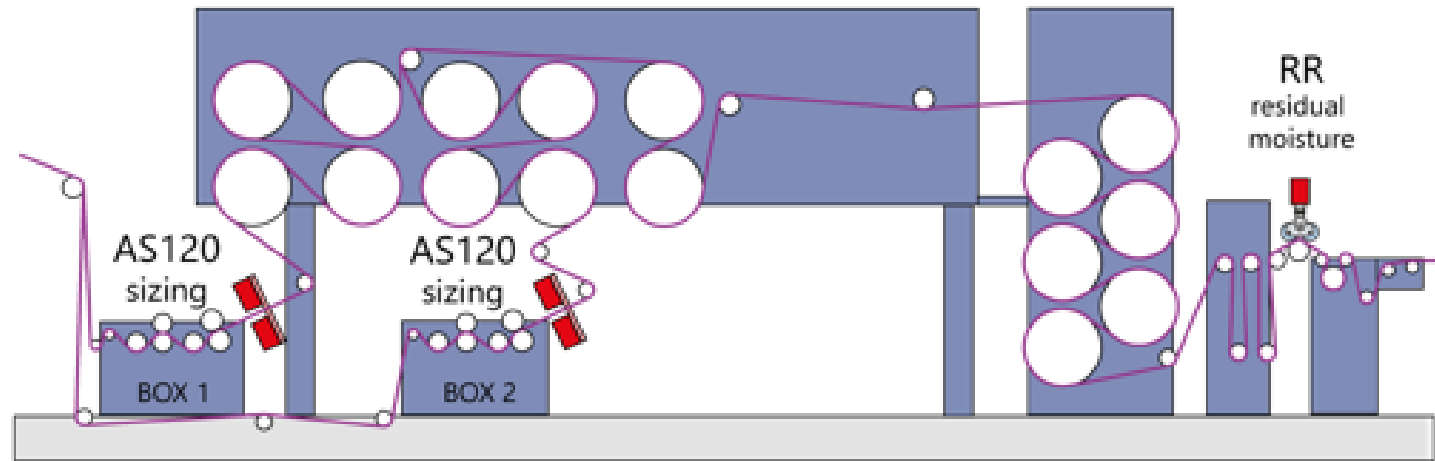
**Higher expenses in desizing and drying**



**Unstable yarn quality and thus, lower weaving-efficiency**

# The Solution

To increase the weaving-efficiency, the quality of the yarn, and save valuable resources, the size add-on should be measured and controlled.



The microwave measurement system [AS120](#) measures the size add-on after size box constantly. It includes a special construction with **integrated protection** against steam vapours and high temperatures. This enables reliable, **continuous monitoring and control of the size add-on**.

# The Success

## Exemplary calculation of wastewater savings in finishing

Production data	10 million m woven fabric
	<u>80 l/m water consumption</u>
Wastewater volume	800 million liter per year
Chemical Oxygen Demand (COD)	<u>1 g/l average COD concentration with 50% share of sizing in COD</u>
Total COD load	800 t (400 t wastewater + 400 t sizing)
Use of AS 120 can reduce according to practical experience on average 20% of sizing	
= 80 t less COD load	
Savings of wastewater costs	<u>400 € per t COD</u>
	<b>32,000 € per year</b>

# The Sustainable Success



## **Our impact as your HEROES FOR SUSTAINABILITY**

- Sizing agent savings (practical experience 10 ... 25 %)
- Simplified washing out of the size
- Reduced wastewater load and thus, reduced wastewater costs
- Higher quality of the raw material for subsequent finishing processes  
→ Reduction of fabric waste

## **Your additional benefits**

- Seamless recording of the sizing order
- Optimization of high-speed and creep pressure control
- Increase and stabilization of weaving efficiency through uniform sizing (practical experience: 1.5 ... 4 %)