

The logo for SPXX, featuring the letters 'SP' in a dark grey, bold, sans-serif font, followed by 'XX' in a bright green, bold, sans-serif font. A registered trademark symbol (®) is located to the right of the second 'X'.

SPXX®

A green arrow icon pointing to the right, positioned to the left of the text.

➤ Where Ideas Meet Industry



AutoBlend Systems

Pulp & Paper Industry - Liquid Stock Dyeing in Paper Mills

Advantages

- No preparation tanks required.
- Savings of space owing to compact design.
- Portable design gives flexibility.
- Savings of working time necessary for the dye preparation in the case of batch operation.
- Convenient changeover to different colours and concentration.
- Quick and easy cleaning of the equipment.
- Uniform and reproducible colour standards by highly accurate metering.



Problem

Continuous preparation of highly diluted dyes and metering the same to paper stock suspension upstream of the paper machine head box.

Components

- Bran+Luebbe metering pumps
- Static mixer

Automation

- Loss of product detection

Process

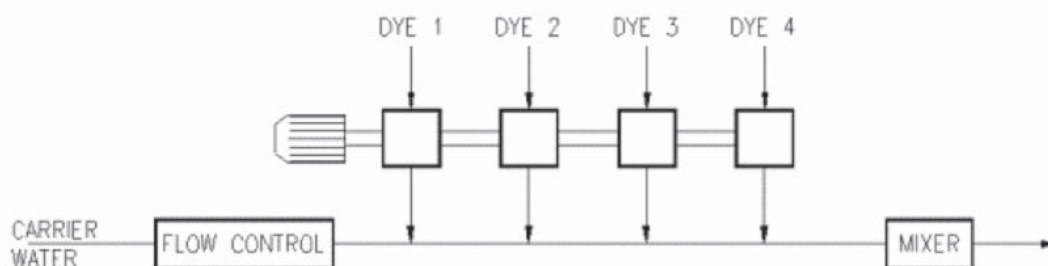
The dyes are drawn from the Supplier's drums and are then metered in controlled volumes. The specific blend of dyes is obtained by setting the plunger stroke length of each pumphead. The dye volume is adapted to the stock flow by varying the speed or stroking speed of the pump. The flow of dilution water is adjusted by means of a flow meter and a control valve.

The metered dye and water volume are blended intimately in a static in-line mixer and are added to the dilution stock upstream of the paper mill. The suction line of any pumphead can be filled and made ready for operation by switching over the three-way valve and water driven ejector, even while one of the dye metering pumpheads is still working.

The Bran+Luebbe building block system provides a metering pump unit with up to 36 pumpheads for different dyes.

Flushing of the metering and blending system is obtained via three way valves.

Simplified process diagram





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