

L&W Pulp Tester Blend

Lorentzen & Wettre Products | Pulp Measurements

Measuring and having control of the fibre mixes is essential to be able to produce uniform paper quality. With the module L&W Pulp Tester Blend it is possible to obtain an optimal balance between price, quality and production capacity.

For control of online processes L&W Pulp Tester Blend module uses a software to calculate the ratio of short fibres to long fibres in a pulp mix, or the ratio of chemically produced long fibres in a pulp mix with TMP. For example, a short fibre mixed into a reinforcement pulp lowers the value of the pulp, while chemical fibres in the recycled pulp makes stronger paper.

Many paper grades are manufactured with different types of fibre in each layer, in order to achieve an optimal blend of characteristics at the lowest cost. The module can be used to control quality changes in pulp and paper mills, quality checks on various types of pulp, optimization of pulp blending, reducing costs by optimizing fibre blending, and to produce a more uniform pulp quality.

Principle

Calibration takes place by means of analysis of unblended reference samples from the types of pulp that are to be included in the blend. Users can measure the reference pulps themselves. The estimation of the blend proportions is based on a mathematical method which uses a two-dimensional length/width distribution.

The two-dimensional distribution of the sample is compared with the calculated distributions obtained from the reference pulp. In order to find the correct blend the difference between the measured and the calculated distributions are minimized. The calculations are made on volume-weighted distributions.

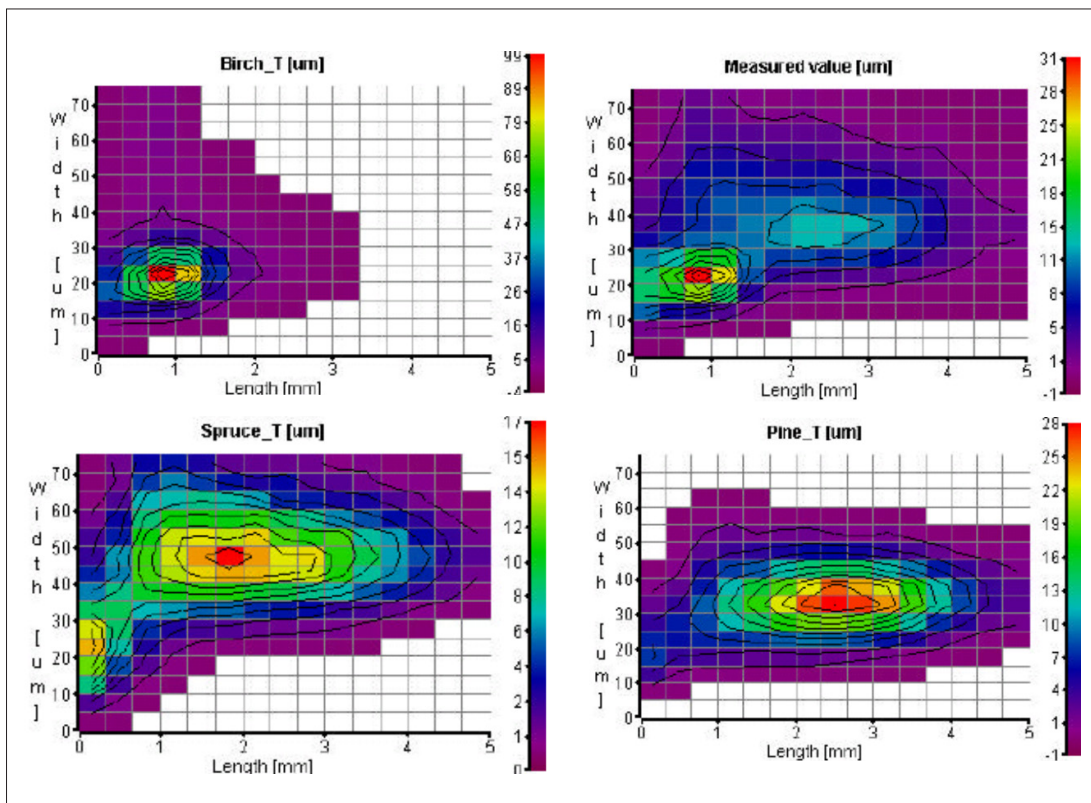
Technical specifications

L&W Pulp Tester Blend – code 930

Measuring accuracy all the way down to 1–2% in leaf fibre and needle fibre blends. Blends with up to four components can be analysed. The results are presented as the percentage proportions for the respective fibre components.

Installation requirements

L&W Blend software is integrated in the analyser.



Length/width distribution of: chemical birch fibres, CTMP made from Spruce, and chemical Pine. The distribution is volume weighted.

Picture – upper/right: measurement for a mix of the three pulps.

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