

## Innovation Center for tissue



### R&D for your requirements

The tissue industry's major concern when acquiring new equipment is to guarantee compatibility with the raw material used while producing high-quality tissue at the lowest production cost possible. The Voith Innovation Center at São Paulo, Brazil, meets these concerns by offering a broad range of customer-specific trials and research facilities to test new technologies in advance.

Recently, the Innovation Center was renovated to improve research activities and enhance customer comfort. The pilot

machine was entirely rebuilt in order to accommodate Voith's latest tissue machine technologies as well as to increase the machine speed. It is today the most technologically-advanced tissue R&D center in the world.

The renewed center consists of a complete pilot machine, a stock preparation unit, a water treatment plant and two analysis laboratories, one wet and one dry. The tissue produced on the pilot machine can be used in conversion lines for final product analysis.

## Highlights of the Innovation Center

At the Innovation Center in São Paulo, customers can test the second generation of shoe presses for tissue, NipcoFlex T. It allows up to 5% higher dryness and thus increases production or thermal energy savings by 20%.

Another highlight of the Voith Innovation Center is ATMOS, the only technology available in the market that is flexible enough to switch between standard and premium quality. ATMOS optimizes energy consumption and enables up to 100% recycled fiber usage.

## Pilot machine – Main data

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- ATMOS or conventional technology
- Headbox with one, two, or three layers
- Crescent Former or DuoFormer (Twin Wire)
- Speeds of up to 2,500 m/min in conventional mode and up to 1,800 m/min with ATMOS technology
- Wire width of 1,000 mm
- Batch or continuous operation
- Final product winding

## Wet laboratory – Measurable properties

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- Stock freeness
- Consistency, pH, ash, and filler of samples taken from stock preparation, approach flow, and white water tank
- Fiber length, curl, kink, fines, coarseness, and layer purity

## Dry laboratory – Measurable properties

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- Basis weight
- Caliper, apparent density and bulk
- Tensile strength, tear length, machine direction / cross direction ratio, elongation and elasticity
- Gurley porosity
- Crepe distribution
- Structural and superficial softness
- Absorption capacity and rate

## Contact

Asia: Kunshan, China	Tel: +86 512 5799 3600
Europe: Heidenheim, Germany	Tel: +49 7321 37 2487
North America: Wilson (NC), USA	Tel: +1 252 265 4405
South America: São Paulo, Brazil	Tel: +55 11 3944 4666

[paper@voith.com](mailto:paper@voith.com)  
[www.voith.com/paper](http://www.voith.com/paper)

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