

NipcoFlex T

Innovation meets energy savings



Technology meets tissue

In 1999, Voith pioneered in launching the shoe press technology for higher production, lower energy consumption, and bulk enhancement on tissue machines. After more than 10 years of successfully operating the first generation press in tissue mills worldwide, Voith developed the second generation of shoe presses for tissue: the NipcoFlex T.

The new NipcoFlex T was developed to support customers in saving natural resources while considerably reducing their energy costs. Moreover, this new shoe press excels in reducing production costs and thus improving the paper-maker's market position.

Major energy savings

With NipcoFlex T, up to 5% higher dryness can be achieved compared to a configuration of suction roll pressed against the Yankee or earlier generations of shoe presses. All this is possible without compromising paper quality. In addition, a production increase of 20% or thermal energy savings of up to 20% are feasible due to the higher after-press dryness.

The high flexibility of the shoe allows tracing the Yankee deflections more precisely and results in a more uniform cross directional dryness profile. Switching between bulk and dryness mode and vice versa is possible during production, therefore increasing the machine's efficiency.

Main features

Simple construction

The NipcoFlex T shoe press has a much simpler construction compared to the first shoe press generation. It has no MD shoe movement and uses two rubber bellows as a pressing device below the shoe instead of pistons.

Simple operation

The mentioned rubber bellows pressing device results in fewer controls required and thus in simpler operation. The ultrathin, flexible metal shoe follows precisely the Yankee's CD profile resulting in very uniform dryness profiles. Altogether, this makes it very easy to switch from bulk to dryness mode and vice versa.

Simpler auxiliary equipment

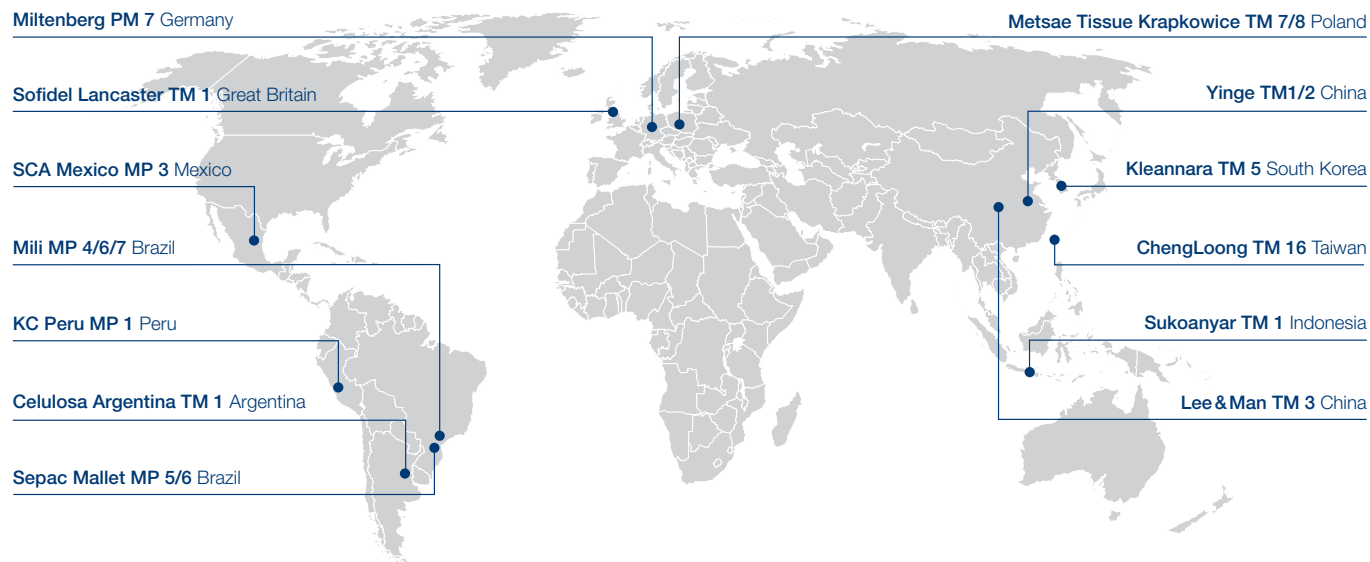
As no pistons are used as the pressing device, only one hydraulic unit with one low-pressure pump is necessary for applying the load and lubricating the sleeve.

Main benefits NipcoFlex T

- Up to 5% higher dryness after press
- Up to 20% higher production capacity
- Up to 20% savings in Yankee steam and hood gas consumption
- 30% less coating chemistry needed
- Return on investment of less than three years (depending on local energy costs)

NipcoFlex T references worldwide

18 installations



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