



## About Schentel

### German Engineering

Inheriting the great tradition of German preciseness and earnestness in product research, engineering and combined with our extensive experience.

*Schentel* constantly carry out the spirit of innovation to provide standard and unique advanced equipment for customers under the principle of saving resources.

### Modular Configuration System

Typical products of our customers are urea, melamine or phenolic impregnated paper or finish foils to produce laminated wood-based products such as furniture boards, laminate flooring, HPL or CPL and much more. Different markets with demands are leading to a huge, not comprehensible variations of end products.

*Schentel* is designed modular to contribute the different market requirements.

### High Quality Standards

The high-quality standards of our customers' end products are constrained by various factors, for example:

- Well balanced distribution of resin, such as urea, melamine or phenolic in the impregnated paper;
- Controlled residual moisture content of the impregnated paper, to regulate the shelf life and other important process parameters;
- Amage- and wrinkle-free handing from the impregnation- to the pressing- process.

*Schentel* will ensure the entire control of your process and quality by means of a total monitoring of all individual production parameters. Our aim is to serve your production and quality demands, because:



## Your Success is Our Ambition!

Type	Mechanical / Working Speed	Wed width	Raw paper	Final paper weight	Annual capacity	Heating type
Economic line CL-LS	max. 50 / 35 m/min	max. 2,700 mm	Decor, Balance, Overlay paper	25 - 150 gsm	ca. 28 million m <sup>2</sup>	Thermol oil/ Natural gas/ Steam
Standard line CL-ST	max. 75 / 65 m/min	max. 2,700 mm	Decor, Balance, Overlay paper	25 - 200 gsm	ca. 53 million m <sup>2</sup>	Thermol oil/ Natural gas/ Steam
High speed line CL-HS	max. 100 / 90 m/min	max. 2,700 mm	Decor, Balance, Overlay paper	25 - 200 gsm	ca. 98 million m <sup>2</sup>	Thermol oil/ Natural gas/ Steam
Phenolic line CL-PH	max. 150 / 120 m/min	max. 2,900 mm	Kraft paper	100 - 250 gsm	ca. 122 million m <sup>2</sup>	Above & Super-hot Water

For the manufacturing of melamine, urea or phenolic impregnated paper. Our products are offering cost-effective and fully integrated solutions to meet each customers' specific requirements.

**High Speed Production**

Without a loss in efficiency and quality of the end-product is demanding fine adjustable processes and dosing capabilities. Our drive packages and control systems are establishing this groundwork to achieve a reduction of the quality cost by reducing the defect rate of the end product at a high production speed.

**High Drying Capacity**

Of heat exchanger and optimized heat distribution by means of radial circulation fan to ensure short heat-up time and reduction of edge-drying-deficit to lead to a better quality and extended shelf life of the end-product.

**Perfect Cut-To-Size Function**

By means of Start-Stop-Function of the cutter knife. The special spin-type knife design is to ensure an optimized wear combined with best cutting quality.

**High-Precise Process Control**

And visualization of the process parameters to enable an economic production induced by a reduction of consumables and supplies.



**A**

Unwinder with air-swelling shafts (or non-shaft) to continuously unwinding and production, and keep the correct paper tension constant through automatic regulating mechanism.

**Unwinder**



**B**

Automatically paper splicing from top. Stick the new paper web to the old web if the roll is changed and cut off the old web. Two edge cutting devices for the edge trimming.

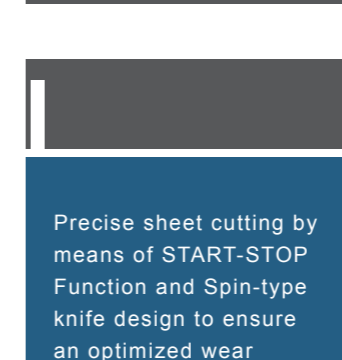
**Non- Stop Splice Device**



**C**

For pre-impregnation of the web and subsequent gap controlled metering unit for resin pick-up.

**Impregator**



**D**

Scattering Machine for Coating with Corundum.

**Scatter Coater**



**E**

High efficient contact free drying of the web by means of air floatation. Optimized heat distribution by means of radial circulation fan.

**Air flotation Dryer**



**F**

Two times resin covering onto both side of paper with subsequent surface smoothing.

**Coater**



**G**

Enable accurate and reliable web tension control and aligning of web come from dryers.

**Web Aligner**



**H**

Pull the web through the machine and cooling paper for further processing so as to maintain paper tension.

**Cooling Station**



**I**

Precise sheet cutting by means of START-STOP Function and Spin-type knife design to ensure an optimized wear combined with excellent cutting quality.

**Rotary Sheeter**



**J**

Various options such as stacking belt, hydraulic stacking table and rewinder are individually and in combination available.

**Stacking System**

