

Coating Technology



Advanced modified bitumen and asphalt coating systems for shingle and waterproofing membrane production.

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The coating process is the heart of every roofing production line. If the quality of the saturation and coating is not done right it affects everything down stream and results in a poor quality product.

At Reichel & Drews we understand the importance of the coating process, which is why we incorporate everything that we've ever imagined, studied or learned about saturation and coating forward into our engineering designs.

We offer a wide variety of saturators and coaters to meet various levels of production requirements. Whether you're producing asphalt (bitumen) shingles, standard modified roofing membrane or today's high tech composite membranes we have a coating process to meet your needs.

Saturators (Impregnators)

Reichel & Drews has a number of models of Saturators available to accommodate various types of reinforcements and production processes. Whether you are using paper felt, fiberglass, polyester or composite reinforcements we have a unit to match your requirements.

Individual and multi-dip units adjust for varying depth settings in the saturator tank ensuring precise saturation levels for all product types. Scrapers are strategically placed throughout the process to ensure highly efficient saturation.

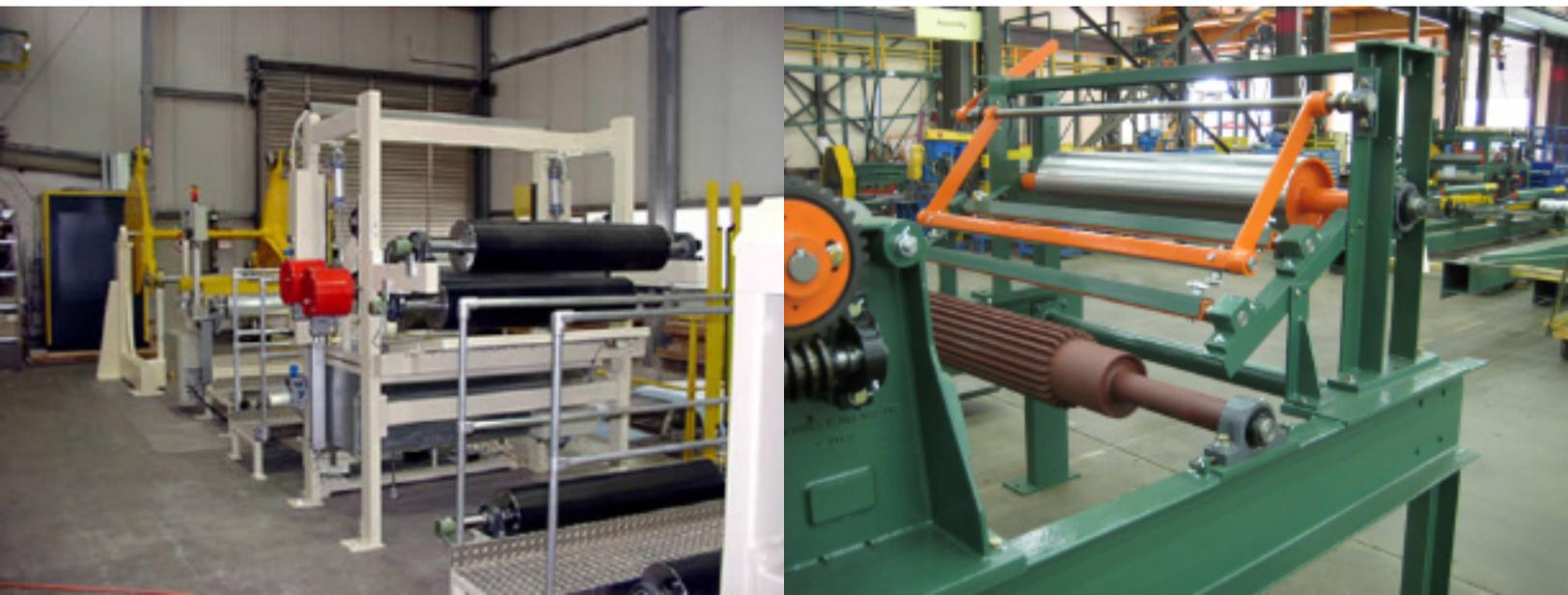
The newest addition to the Reichel & Drews Saturator product line is the new System 3000 Saturator.

With its innovative and progressive engineering design the new System 3000 Saturator offers these key features:

Low volume capacity tanks – provide for quicker change out of saturant compound and reduce waste.

Reduced open surface area – reduces energy consumption and helps maintain a more consistent compound temperature.

Electrically heated s-wrap press roll configuration – maximizes penetration of the impregnation compound.



Layered Coating

Our new System 3000 Technology divides the coating of the carriers into at least two separate operations. Therefore, the top of the carrier is always coated with compound first.

During the coating process the mostly pre-impregnated carrier rests on a perfectly flat support surface. The coating compound is applied by a V-shaped application box consisting of an electrically heated back wall and an electrically heated doctor blade.

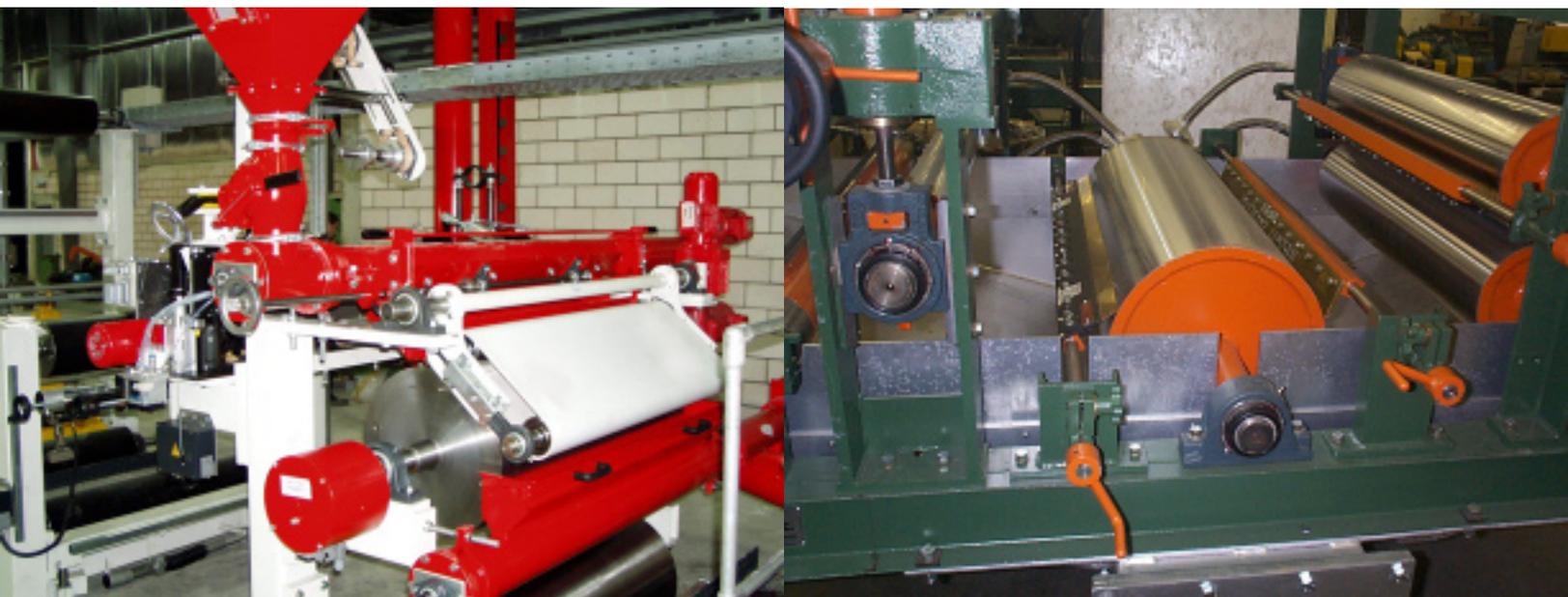
Since there is no rolling movement of the coating mass as is typical with inking or pull thru coaters, tension loading of the carrier is held to a minimum.

The coating compound is applied onto the top of the carrier at a very even temperature.

Pull Through Coating

The primary coater used in the industry for shingle production is the pull-through type. It has several advantages which help to produce a superior roofing product. First, the coating coming directly from the supply pipe is more likely to be of a uniform temperature. Secondly, there is less drag on the reinforcement or carrier as it goes through the machine, resulting in fewer reinforcement breaks and prevention of necking down of the reinforcement or reduction in width. This type of coater is also easier to thread.

There are other advantages. In the pull-through coater the coating can be applied to the substrate through an elongated wire basket which screens out lumps or foreign matter which might block the doctor rolls. Even more important, the coating can be distributed almost the full width of the sheet. In the pull-through method, an excess of coating can be fed to the substrate and doctored off the edges to help maintain temperature uniformity. The excess coating flows off the sheet edge into the pan to be pumped back into the feed end of the continuous filler mixer, to help maintain temperature control when machine speeds vary.



About Us

In 1902, inventor Hugo Reichel and machinist Fred Drews combined their considerable talents and experience and started a company with a guiding principle that remains as firm today as it was then: A blend of quality products, innovative solutions and customer service to help our clients improve productivity and profitability.

In the competitive marketplace of the 21st century, Reichel & Drews is the global leader for asphalt and modified bitumen roofing production machinery, not just because of the unrivalled quality of the equipment we manufacture, but because of our focus on customer service as well. We act as our customers' partner in productivity from beginning to end. Is it any wonder that we're honored by such a distinguished list of long-time customers?

What's our secret? Simple. We listen to our customers, then utilize our team of experts in equipment design, control systems, manufacturing and installation to develop and build solutions that help our customers increase uptime, reduce costs and maximize both quality and production speeds... in short, consistently improving customer productivity and profitability. We achieve this by utilizing today's most advanced technology, today's most inventive problem-solving methods and today's most visionary thinking.

From complete shingle and roll production systems to individual machines, we stand behind our products, our service, and most of all, our customers.



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