

# Laminated Shingle Manufacturing Systems



Bringing You Designs for the Future

- Production speeds of up to 1000 fpm (305 mpm)
- 2- and 4-lane configuration

# Reichel & Drews Laminated Shingle Manufacturing Systems

## End-to-end solutions with no end to the possibilities

### Innovation

For over 20 years Reichel & Drews has been a trusted source for the design and building of custom laminated shingle manufacturing systems. Reichel & Drews is the most experienced designer and builder of laminated shingle production lines in the industry. These designs are a result of solid engineering and process knowledge brought to you by Reichel & Drews.

Our team of design, automation and sales engineers are committed to making your system do the job. Any combination of thicknesses. Any design cut. Flexibility is built in, so in most cases you can

change patterns, sizes and design without having to replace machinery. Turn out the full range of shapes and patterns with full or partial underlays. Make them look like wood, slate or tile. You have complete freedom of design.

No matter what configuration fits your application, through machine and automation design you will benefit from exact pattern control provided by the latest drive technology and reliable, repeatable synchronization at today's highest production rates. From the carryover section through to the new and improved high performance shingle stacking system, we match your needs and give you absolute control over the finished product.



## Flexible Design

Reichel & Drews laminated shingle manufacturing system comes in a flexible design consisting of rolls, press rolls, and pull rolls. This design allows for greater adaptability and easy differentiation between processes and the ability to optimize those processes for each specific product. In addition the design allows for accurate, repeatable pulling tension and pressure points in order to produce multiple products on one line. The flexible design is easy to retrofit for future requirements.

## Diverging Section

The diverging section includes upper and lower load cells to precisely control web tension. Its low inertia rolls are chrome plated with split roller bearing to maintain alignment. Adjustable, ceramic covered tooth guides minimize sheet breaks while optimal separation is accomplished at the anvil role. This section is constructed of structured steel tubing.

## Alignment Section

This section includes a laterally adjustable backer strip steering roll, Crodon or ceramic guide flanges, low inertia steering roll with chrome plating, and split guide flanges for ease of adjustment.

## Adhesive Application

With a larger diameter applicator wheel to minimize adhesive slinging at higher speeds the adhesive application section has non-adjustable coarse doctor blades. Fine doctor blades can be adjusted by the operator during the production process. A single piece wheel hub with pilot mounted wheels minimize applicator wheel run out. A split roller bearing is used to maintain alignment on changeover. Wear rails elevate on line stop to minimize burn through and adhesive build-up.

The adhesive application section includes thermal fluid heated tanks with insulation as well as heated de-stringer blades to minimize adhesive carry through. A contoured wheel face is used for optimized application. The design uses an asphalt level sensor, an overflow and vent pipe and hinged lid for clean-up and change over.

## Combining Section

The combining section includes a driven chrome plated roll with split roller bearings to maintain alignment. This section is electronically geared to master drive.

## Press

The pivot style design of the press includes dual air bags for extended life and split roller bearings. With positive roll position stops and pneumatic valves to provide precise down force. The press has chrome plated rolls and the lower roll driven. It is also electronically geared to master drive

## Pull Rolls

The pull rolls feature a pivot style design with dual air bags for extended life and positive roll position stops. The poly covered upper roll allows for maximum traction. The chrome plated lower roll allows for maximum life, while split bearings on the lower roll maintain alignment. This section is lower roll driven with load cell feedback for precise tension control.

## Drives & Controls

The drives and controls are Allen Bradley ControlLogix PLC with Ethernet and Profibus cards or Siemens S7 PLC with Ethernet and Profibus cards. A Panelview Plus 1000 color touchscreen is included for main operator interface. The MCC control panel is air-conditioned. The drive and control system comes completely wired and factory tested.

## 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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