

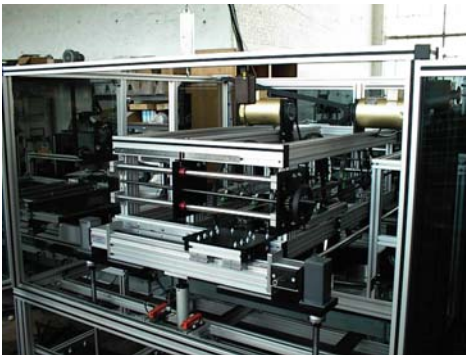
Ridge Vent Contouring and Packaging System

Background

Advent Design's client developed a new ridge vent product for venting buildings with contoured metal roofs. In order to produce the product to specifications in large quantities the client needed to develop a process to efficiently cut the vent material off a web to the various metal panel patterns. Advent Design developed a machining process to reliably cut the material and developed a set of machines to process the web material from raw stock (12" x 250' rolls) to finished product.



Contour Machining Station



Wire Cutting Station for Undercuts

System Description

The ridge vent material is produced from a fiber web. The ridge vent machine was designed to reliably index the web through the various manufacturing processes.

In summary the Ridge Vent Contouring system performs the following operations:

Unwind raw material

Calender material

Contour top surface

Undercut the material

Cut material to length. Lengths range from 25' to 200' depending on the final package configuration.

Slit 12" web to 4" widths

Apply adhesive bead to major contours. The adhesive bead holds to material in place on the roof during installation prior to nailing.

Rewind material



Hot Glue Dispensing

Impact

Prior to contacting Advent Design the client had already developed a marketing program and had actual orders for product. The system enabled the client to produce his orders and continue to grow the business. Advent Design has developed 3 generations of equipment for the client. The first generation of equipment was capable of producing up to 16" repeat patterns. The current generation of equipment is capable of producing up to a 48" repeat pattern. The equipment is capable of producing up to 4 million linear feet of

finished product annually.

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