

optimizing software

YieldGenie

Automatic Cutting Optimizer

Due to overwhelming customer demand, Simplicity Computer Solutions is proud to announce the launch of our new optimizing software, YieldGenie. Fully integrated with Glassware, YieldGenie is different in many ways than traditional optimizing software systems which are typically modeled after the same method of optimization developed in the 1960's.

What makes YieldGenie different?

YieldGenie is a totally new, more reliable, easier to use, better optimizer. YieldGenie is sold and serviced by Simplicity Computer Solutions, an independent North American software company that is both technically solid AND one that truly understands the glass business. For example, SCS programmers streamlined the cutting process with YieldGenie by optimizing CNC cuts and strokes so the cutting heads run at the shortest, fastest possible time. However, intimately knowing the industry, the developers also took extra care to eliminate jumpy cutting heads.

Shapes

Simplicity knows that today's glass companies have massive variances of shapes and sizes coming at them all the time. Most commercially available optimizers are based on static shape catalogs where the user tries to pick a picture of a shape, called a parametric shape, and enter the corresponding dimensions. The process is confusing and is a common root cause of order entry errors. Also, traditional optimizing systems generally only have a catalog of 50 – 100 shapes. If a shape is not in their catalog the software cannot optimize it. Purchasing custom shapes for conventional optimizers can also very expensive, upwards to \$10,000 per custom shape plus lead time to design the shape.

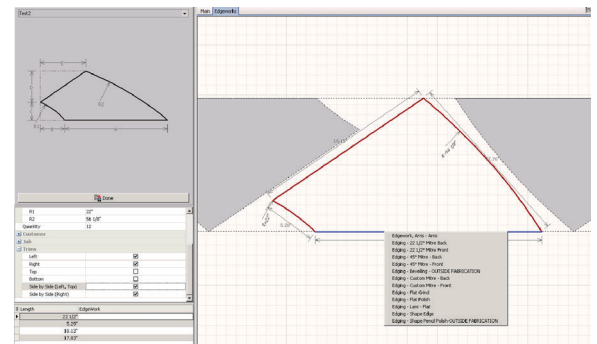
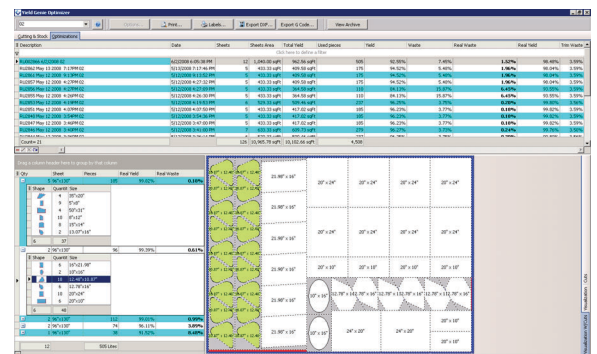
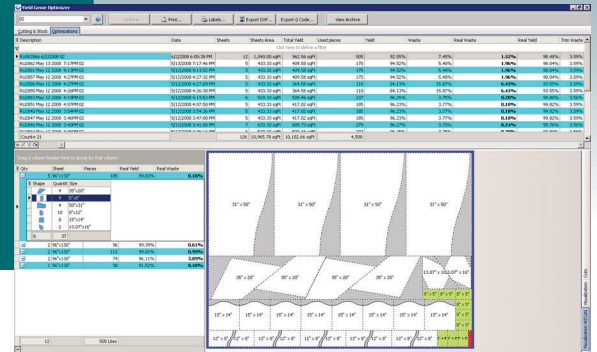
Universal Shape Engine (USE)

The software designers and programmers at Simplicity felt that a more C.A.D.-like tool, as well as the ability to save into a catalog would offer the best of both worlds. YieldGenie features the Universal Shape Engine (USE) which is a 2-D glass C.A.D. type system, strictly for the glass industry. Designed to augment both the Glassware order entry system as well as the YieldGenie optimizer, the USE system also has integrated capabilities to create irregular shapes with cutoffs and radius corners, add for edgework on any side and handle most common fabrication processes such as holes, hinges and notches. The Universal Shape Engine allows users to create any shape they want and optimize it. Unlimited number of shapes can be created and saved on the fly.

Better Yields

Many traditional optimization systems struggle with complicated shapes and are known to leave a huge yield on the cutting table. These conventional optimizers don't count trim waste and they automatically block out shapes even if they could be nested with a complimentary shape.

The YieldGenie optimizer specializes in complex shape nesting. The system also has the ability to handle trim at the most detailed level. YieldGenie is proven to save a considerable amount of glass based on proprietary shape nesting methods and trim reduction techniques. Trim waste can be avoided. Better Nesting = Better Yields.



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