OptiComp™ is a full-featured, automatic part programming, nesting, and machine interface software. OptiComp drives all CNC electronic and ultrasonic knives.

image courtesy of AXYZ

OPTICOMP

How It Automates

Optimation automates many routine, typically interactive processes to free the programmer to attend to higher-level manufacturing issues that mandate human interaction.

Key Features
- Automatic Ply Count Tracking Per Part
- Automatic Cut Rate, Blade and Feed Rate Control
- Ply Quantity Ordering
- Ply Cutting Options
- Automatic Material Length and Width Cutting
- Alternative Material Selection
- Vacuum Table Control
- Marking on Labels or Cover Sheet
- Material Dispensing
- Program by Table Lengths
- Automatic Dynamic Nesting
- Automatic Batch Input of Geometry
- Automatic Batch Input of Orders

What It Does For You

Advantages
- Choose from Batch, JIT, or JIT Kit Nesting Strategies
- Run a "Lights Out" Operation
- Operate in a Demand-Pull Operation
- Drive All Profile & Punch Machines with One Software

Benefits
- Cut Programming Time by 90%
- Improve Duty Cycle to up to 90%
- Reduce Scrap by 5 to 10%

How It Works

Automatic Batch Geometry Input and Part Programming

Optimation batch inputs hundreds or thousands of new parts from your choice of CAD software in minutes with one-touch ease checking and resolving any small design issues and flagging only those that require programmer attention for further interaction. It does not require re-librarying of CAD files in a proprietary CAD package. Optimation accepts all industry-standard geometry formats.

Automatic Batch Input of Orders

With Optimation's Automatic Batch Input of Orders, engineers or operators are saved the labor-intensive task of keying orders manually. With a simple import function, hours of error-prone order entry is eliminated. Feedback loop to report on nests created to the MRP/ERP scheduling system is available.

Automatic Dynamic Nesting

Optimation's intelligent nesting algorithms let you drive the automatic nesting with a strategy that best suits your operation – all with minimal attention from the programmer/engineer. Choose batch nesting to cue dynamic nests for a full shift or product run. Opt for JIT nesting to respond to all changes within one machine cycle and avoid costly tail off. Both optimize material efficiency, minimize or eliminate remnants, and cut programming to a mere fraction of manual nesting.

Intelligent Machine Interface

The Optimation Machine Interface uniquely enables automatic customization of nests and programs to the distinct specifications of your brand and model of machine far beyond that of a post processor. Resulting in the ability to control the clamps for automatic nesting beneath the clamps, intelligently manage the turret configuration and hit count automatically, and drive down tool changes thereby improving duty cycle.

For more information, contact Beverly Gates.

Email: bgates@optimation.com
Toll Free: 877-827-2100 x 223
Direct: 816-228-2100 x223

About Optimation®

Optimation® delivers economic performance for fabricators through advanced nesting software. Optimation® develops and supports nesting and CNC part programming software for fabrication processes, which include punch, laser, plasma, Waterjet, router, and CNC knives. We cover the range from single-machine sites to sites with hundreds of machine tools with the highest possible automation.

Our automated approach to manufacturing solutions dates back to our beginning more than three decades ago. It is our belief that routine - and even not so routine - nest technology fabrication can be best achieved through a rules-based system that reduces not only material waste but programming time and error and keeps the manufacturer in control.