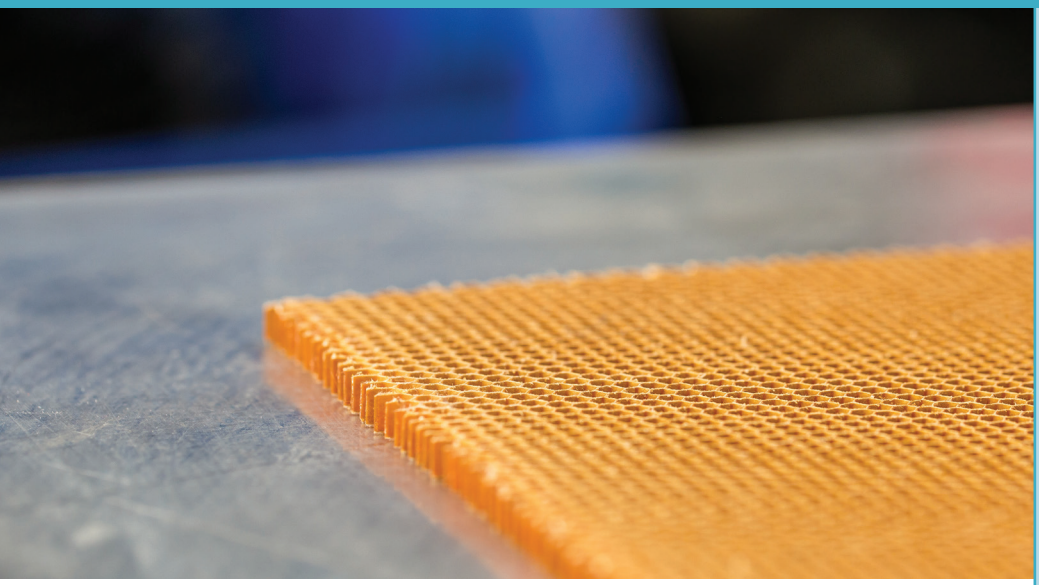
PLATAINE®
people-smart automation

HoneycombOptimizer for Honeycomb Cutting

FAST & MEASURABLE ROI THROUGH PROCESS AUTOMATION & MATERIAL OPTIMIZATION



OVERVIEW

HoneycombOptimizer is part of Plataine's integrated Total Production Optimization (TPO) suite, designed to specifically address the challenges of 3-axis honeycomb cutting operations. HoneycombOptimizer has a dynamic and highly efficient nesting algorithm, resulting in high material utilization, improved throughput, enhanced quality control, and fast and measurable ROI. The solution enables flexible and easy processing of work orders as well as automatically generating optimal cut plans resulting in up to 10% material savings.

Flexible, Easy Work Orders Programming

Two-Sided Cutting Automatic Process

Importing Parts is Easy and Intuitive

Automatic, Optimal Cut Path Generation

Benefits

- Improved Material Utilization up to 20%
- Increased Router Productivity up to 30%
- Reduced work-in-process inventory
- Enhanced agility and response to changes in demand
- Improved 'order to delivery' time

Key Features

Flexible, Easy Work Orders Programming

- Optimized work order
- Increased material utilization
- Automatic nests parts

Two-Sided Cutting Automatic Process

- Automatically differentiate elements that should be cut on the top part of the sheet for laminated honeycomb

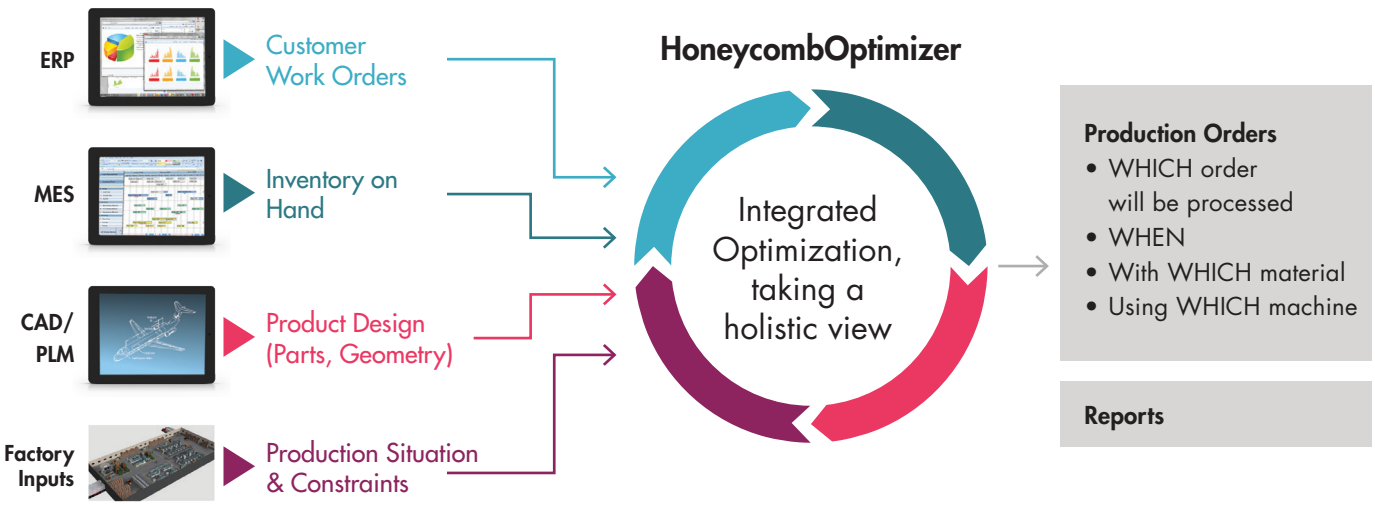
Importing Parts is Easy and Intuitive

- Compatible with DXF, Solidworks and Solid Edge files
- Standard integration with both CAD and ERP systems
- Flexibility in development of any format

Automatic, Optimal Cut Path Generation

- Automatic nest creation
- Smart cut sequence and entry point placement
- Automatic support of vertical and horizontal multi-heads

Plataine takes a HOLISTIC approach to consider ALL ELEMENTS



Dynamic, Holistic & in Real-time: HoneycombOptimizer optimally decides WHICH orders will be processed, WHEN, using WHICH material on WHICH Machine, WHILE creating the optimal nest & production plan.

PLATAINE'S AI-BASED SOLUTION

IMPROVED MATERIAL UTILIZATION

Dynamic nesting enables true cut-to-order operations and merges nests of multiple orders to create a continuous cutting environment.

INCREASED ROUTER PRODUCTIVITY

An optimized tool path increases cutting speed and reduces idle time. Automatically generating CNC programs, with highly efficient G-Codes and use of common lines, stacking and multi-heads.

REDUCED WORK-IN-PROCESS INVENTORY AND ENHANCED AGILITY AND RESPONSIVENESS TO SHORTEN ORDER-TO-DELIVERY TIME

It cuts exactly what you need and when you need it.

- Standard integration with both CAD and ERP systems
- Order-level nesting and parts re-cuts
- Eliminates human errors
- Supports all CNC Router models

ABOUT PLATAINE: Plataine is the leading provider of Industrial IoT and AI-based optimization solutions for advanced manufacturing. Plataine's intelligent, connected Digital Assistants take manufacturing to the next level by automating and optimizing decision flows on the production floor. Combining state-of-the-art AI with extensive manufacturing knowledge, Plataine's cloud-based solutions continually assess current status and predict future events on the production floor, to provide actionable insights, alerts and recommendations, empowering production management and staff to make optimized decisions in real-time, every time. Plataine advances the 'Factory of the Future' worldwide and enables global manufacturers such as Airbus, GE, IAI, Triumph, Alestis, Enercon, TPI, Kineco-Kaman, IFS, Light & Strong and Ethan Allen to drive digital transformation and further increase their business value. For more information visit: visit: www.plataine.com

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