

▶ CASE STUDY

- ▶ “Now we can take on job shop work and increase our own product production using Optimization.”
– Kyle Goltsch, Vac-U-Max

320 FOLD INCREASE IN PRODUCTIVITY FOR VAC-U-MAX



CLIENT: VAC-U-MAX®

- VAC-U-MAX® is the world leader of industrial vacuum and vacuum conveying technology.
- Has been solving vacuum-related challenges in a wide range of manufacturing and industrial settings from powder coating and metalworking to chemical and pharmaceutical for more than a half-century.
- Located: Belleville, New Jersey
- learn more online at www.vac-u-max.com



PROBLEM:

Vac-U-Max spent four to five hours every morning programming parts and creating nests for one laser while the laser sat idle. They manage a large number of make-to-order parts and single run parts for other manufacturers, so the programming time quickly became the process bottleneck preventing greater production and productivity on the shop floor.



SOLUTION:

OptiLaser® by Optimization® was installed with Batch Nesting and Batch Input of Geometry enabling them to significantly automate the processes of importing geometry and creating nests. Additionally, Vac-U-Max employs the Batch Order Input feature to simply import an order file from Mapics, the MRP/ERP scheduling system trimming time and effort and increasing turn-around time for orders. Vac-U-Max now uses dynamic nesting instead of static nesting to optimize material efficiency and process orders by due date and priority.

A+ RESULTS:

Vac-U-Max started seeing results on “Day 1,” and the improvements keep adding up. They increased sales and production volume with the addition of job shop work on top of their own production line. They

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are now able to manage the increased production benefitting from efficiencies gained with Optimization.

- Slashed part programming and nesting time to less than 15 minutes/day for 16 more hours or a total of 20 hours of cutting time.
- As a result, they were able to increase cutting capacity from four hours/day on one laser to 10 hours per day on two lasers.
- By relieving the machine operator of the programming task, he now runs two lasers instead of one.

Vac-U-Max has radically improved their productivity, dramatically increased production, and significantly increased sales all as a direct result of implementing the advanced automation and integration of Optimization nesting software. Because the fabrication process has been so streamlined, Vac-U-Max added a third laser to further increase its capacity without additional manpower needed, and providing an even higher productive, and cost-efficient solution for its customers.