

应用案例—英国 Numatic 公司

Numatic 公司简介

英国 Numatic 公司是世界著名的吸尘器制造商，其产品超过 4000 种，而且许多零件的材料为不锈钢。因此，Numatic 主要的钣金加工方式为激光切割。机床包括：

- 瑞士百超激光切割机 Byspeed 4.4kw
- 天田激光切割机 Alpha 1212 1.5kw
- 天田激光切割机 Beta3015 3.0kw



JETCAM 解决方案

Numatic 公司于 2001 年用 JETCAM 软件取代了以前的软件，当时从三家软件当中选择 JETCAM 的主要原因是材料利用率高并且较强的与客户 ERP 系统兼容的能力。

用户评价

以下是制造部经理 Andrew Smith 先生对 JETCAM 性能的评价：

“材料利用率提高了 7%，第一年我们就节省了 3 万英镑（折合 45 万人民币）的材料费用！”

“.....我们对 JETCAM 软件支持百超激光切割机的性能印象非常深刻。切割路径被优化，在 X 轴和 Y 轴的移动采用弧线方式以保持较高的定位速度。而且机床的产能得到了提高！”

“尽管 JETCAM 满足我们全部的预期目标，但是在 MRP 系统集成方面的能力还是超过了我们最初的想象。在购买 JETCAM 几个月之后我们就收回了全部两套软件的投资。”

“与甲骨文（ORACLE）ERP 系统的良好兼容。”

Case Study: Numatic International Limited

Software: JETCAM Expert Premium
Free-form nesting and
MRP modules
JET-Term DNC

Machines: Amada Alpha 1212 1.5kW
Bystronic BySpeed 4.4kW

At a glance:

- ✕ Benchmark showed JETCAM being more efficient, and more cost-effective to purchase and maintain
- ✕ System paid for itself within months of purchase
- ✕ Prototype parts can be imported, nested, and cut in 20 mins
- ✕ Linked MRP to Oracle-based external MRP system
- ✕ Saved £30k in the first year due material savings
- ✕ Material utilisation improved by 7%
- ✕ Saving many man-hours in different areas
- ✕ Machine cycle time continually reduced through software updates
- ✕ Minimal support needs - only a couple of calls per year
- ✕ Use the MRP Scheduler facility to prioritise parts

Numatic International Ltd, based in Chard, Somerset, is best known for the Henry vacuum cleaner, although the company offers over 4000 industrial cleaning products in total. As their previously purchased CAM system was discontinued, in 2001 Numatic decided to evaluate three CAM systems of which one was JETCAM Expert, to drive their newly purchased Amada Beta 3015 3.0kW laser.

Paul Kelly, Production Engineer, said "We ran a series of benchmarks on all three systems, covering factors such as programming time and nesting efficiency. JETCAM was the only system that met all of our targets, while also showing a significant cost saving to purchase and maintain over the others. One of the other main factors for choosing JETCAM was its ability to easily interface with our Oracle-powered MRP system."

Two licenses of JETCAM Expert were installed, along with the MRP and free form nesting modules. JET-Term DNC was also installed on the shop floor to facilitate file transfers. Immediately, the flexibility of JETCAM's MRP and scheduling proved cycle time reduced further still due to software updates received under maintenance.

Andrew concluded: "Our production process is all about mass customisation and short lead-times. Service has been very good, with only a couple of support calls needed per year. Although JETCAM Expert met all of our targets the MRP facility and integration has been a greater benefit than first thought, with the system paying for itself within a few months of purchase."

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