

应用案例—荷兰 WLB 金属制品公司

WLB 公司简介

WLB 公司是一家专业的钣金配套加工厂，1999 年，公司购置了一台日本村田液压转塔冲床，型号为 Vectrum 3000α。此外，公司还有一台瑞士百超激光切割机。



JETCAM 解决方案

WLB 公司自 1999 年开始到 2006 年一直使用村田公司的原厂软件，但是随着业务的逐渐增长，原有软件越来越不适于生产的需要。2007 年 4 月，公司决定用 JETCAM 软件取代原有软件，主要原因包括：

- 原有软件无法实现自动排料；
- 编程和后续修改非常繁琐，耗费大量人工；
- 编程速度慢，无法满足生产要求。

用户评价

以下是 WLB 公司经理 Rene Smits 先生对 JETCAM 性能的评价：

“平均编程时间比以前缩短了 30%。”

“采用 JETCAM 软件，新产品的编程准备时间和修改现有产品的时间比以前快了 50%。”

“在零件上做的任何修改都会立即自动保存到排料当中去，无需任何额外工作。”

“采用 SCAP 功能，自动导入 DXF 文件并自动完成排料。”

“采用 JETCAM 软件，产品加工时间比以前缩短了 10-20%。”

“我们正在考虑增加百超激光切割机后置处理器，这样就能够通过 JETCAM 迅速完成从现有冲床程序到激光切割程序的转换。”

Case Study - WLB Metaal

At a glance:

- In benchmark comparison JETCAM was more efficient
- Operator trained and cutting metal in a day and a half
- 50% faster to produce new parts or amend existing parts
- Modifications to parts immediately update all relevant nests
- Using SCAP to automate the importing of DXF and creation of nests
- Overall programming time reduced by 30%
- Machine cycle time improved on average by 10-20%
- System available in Dutch language, with local language support
- Working in conjunction with AutoPol 3D CAD

Software: JETCAM Expert 1
Machine: Muratec Wiedeman Vectrum 3000α
Installed: 2007
Web: www.wlb-metaal.nl

WLB Metaal, a sheet metal subcontractor based in Valkenswaard, Netherlands, has driven their Muratec Wiedeman Vectrum 3000α turret punch press with its originally provided software for 8 years. As business increased a number of problems became significant. There was no form of automatic nesting and there had been no updates of the software for around 7 years. Furthermore the creation and amendment of parts was extremely labour intensive and prone to error.

In 2007 WLB decided to replace their CAD and CAM systems and, after researching the marketplace narrowed their selection to two systems, one of which was JETCAM.

Mark Meuwissen, CNC Programmer, said: "During the comparison process it was clear that JETCAM was more efficient. It was also easy to use. The fact that it was in Dutch language with local language support was also important to us."

A license of JETCAM Expert 1 was supplied and installed in April 2007 by local JETCAM reseller Widenhorst Industriële Automatisering, who also supplied a license of AutoPol 3D CAD software to work in conjunction with JETCAM.

Mark was provided with training which took a day and a half. He added: "I was able to understand how to work with JETCAM straight away. As I already knew AutoCAD many of the icons are similar, so it was very easy. Before the trainer left I could design a part, nest it and generate NC code."

What was immediately noticeable after installation was the speed at which new parts could be created and existing parts could be amended. Previously, if a part needed to be modified, the tools required to make that part had to be specified before the part was designed. Now, Mark designs or imports the part and then applies tooling information, selecting only the tools required from his entire library. This has reduced reprogramming of parts or the design of new parts by 50%. Enhancements elsewhere have reduced overall programming by 50%.

Single Component Automatic Processing (SCAP) massively reduces the time from DXF to nest, with Mark able to import, tool and nest a single component within seconds.

A further benefit has been the machine runtime, which has seen an average improvement of 10-20% due to a much more optimised cutting path.

WLB also has a Bystronic Laser, currently driven by the manufacturer's own software, and are considering consolidating their CAM by purchasing another postprocessor to drive it. This will allow them to immediately apply profiling information to their entire existing database of components, making them instantly available to run on either machine as required.

Rene Smits, Director concluded: "What I can see from a management view is that JETCAM has delivered a 95% improvement. The remaining 5% is down to us to change our habits to take full advantage of it. I believe that JETCAM has been a good solution for us."

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