

## 应用案例—德国 Bott 公司

### Bott 公司简介

Bott 公司是欧洲领先的工厂物流车制造商。该公司成立于 1930 年，曾经使用过多个品牌的钣金机床和软件，目前机床包括：

- 通快数控冲床 TC5000R
- 通快激光/冲床复合机 TC6000L
- Finn-Power 转塔冲床 F5-25FBV

两台通快机床都配置了 SheetMaster 自动上下料和零件分类码垛系统。



### JETCAM 解决方案

Bott 公司于 1989 年开始使用 JETCAM 软件驱动其它转塔冲床，并且于 2002 年当公司引进通快 TC6000L 复合机时决定将所有未来的机床集成到 JETCAM 进行统一编程。通快 TC5000R 数控冲床 2006 年投入使用。

### 用户评价

以下是 Bott 公司生产经理 Franz Maltan 先生对 JETCAM 性能的评价：

“支持全部通快冲床和复合机的最新技术和功能。”

“JETCAM 输出的 NC 程序 100%准确可靠，而且与通快 FMS 自动上下料系统匹配得非常好。”

“在 2002 年我们决定将编程软件固定为一家时，我们也考察比较了其它软件，但是没有任何一家的性能比得上、甚至是接近 JETCAM。我们曾担心 JETCAM 是否能支持通快机床的全部功能，但事实上 100%没有任何问题。”

### Case Study

#### Wilhelm Bott GmbH & Co. KG

**At a glance:**

- Running all functions of the new Trumpf punch and existing Finn-Power machines, along with 100% accurate NC code output, which with customized to allow complete FMS integration
- 20,000+ parts were immediately available on new machines due to tooling being stored in geometry files
- Revision control providing traceability of component versions within nests, which are automatically identified
- Only two days required for training and customisation
- Maintenance delivering continual software benefits
- Excellent local dealer support

**Software:** JETCAM Expert Premium with MRP and Rectangular Automats Nesting

**Machines:** Trumpf Trumatic 6000L with SheetMaster Trumpf Trumatic 5000R with SheetMaster Finn-Power F5-25FBV Punch Press

**Installed:** 1989

**At a glance:** Wilhelm Bott GmbH & Co. KG, founded in 1930, is a leading Europe-wide manufacturer of factory and service car racking systems. The company, based in Gaildorf, near Stuttgart, Germany has used CNC controlled machines for their production since the mid 1990's. Bott updated their factory equipment to be one of the most modern production lines in Europe, after purchasing a Trumpf 6000L punch/press combination in 2002 and a 5000R punch in 2006. Both machines are linked into Bott's material handling system.

Mr Franz Maltan, Production Manager, said: "We had a situation in the 1990's where we had two CAM systems driving several different machines. When we found out that development on one system had stopped for some time, in 2002 we decided to standardise on the other, which was JETCAM."

After the decision was made in 2006 to purchase the new Trumpf punch and to add SheetMaster support to the 6000L, Bott decided to streamline their production process. Material was provided to the two SheetMasters by way of a 50m Stock system, with scrap skidlers removed on both machines by the Trumatic, and then destroyed by the Scrap Sheet. For smaller, urgent jobs the standalone Finn-Power punch press completed the production line. When looking for programming solutions we looked at alternative products but we found nothing that was even near to the user-friendliness of JETCAM. At the beginning of the installation process we had concerns that the software would not be able to drive all of the advanced features of the Trumpf machines, but JETCAM has always generated 100% reliable code.

After the purchase of the new 5000R punch machine Bott realised that they had over 20,000 parts which they have needed to run on 6. Due to all cutting technologies being stored on a single geometry file with JETCAM all parts could be automatically reloaded within seconds for the new machines. In many cases jobs that were needed for the previous punching machines or for punch-only jobs programmed for the combination machines were immediately available for reuse without retooling. Revision control ensured that changes on components were automatically applied to all relevant nests for all machines.

Bott had a further requirement after components were unloaded by the SheetMasters, where information needed to be passed to the banding centre. The postprocessed NC code generated by JETCAM was modified to provide part positions. This was passed from the punch or laser to the stock management system, which in turn instructed the banding call of the parts location.

Programmer Eduard Reisenbacher added: "Over the years we have programmed our machine tools very successfully with JETCAM, but the control of the new machines' functions along with regular updates of the software has been a huge step forward for us. Full training and modifications to the new post processor to match our requirements were made in only two days. Since that day our entire facility has run with zero interruptions."

Mr. Reisenbacher concluded: "With updates that we have seen under maintenance to both the core software and the postprocessors, the control of many features has been enhanced. Additional functions such as SheetMaster and Grip work very well and we are able to adapt and apply to existing nests. We have an extended number of options for programming the unloading cluster. With special tools such as wheels, multiboot and multilaser we only have to enter the relevant parameters once - the rest is done by the software. Where we were aiming to achieve complex levels of automation and needed assistance blockwork were able to connect to us remotely, and we were always able to sort it together."

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