

User: ABB Coiltech

CASE STUDY 

Expert Premium

Company Information

Founded: 1942
Turnover: 300MSEK
Staff: 240
Business: Manufacturers of heat exchangers
Machines: Finn Power SG-6 with RAS

Purchase Benefits

- ✓ Recommended by Finn-Power to support the advanced features of their machine
- ✓ 85% of their output is now produced using JETCAM's parametric programming saving several hours per day
- ✓ Files are created just before manufacturer, virtually eliminating the possibility of the wrong version being produced
- ✓ JETCAM integrates with ABB's own program management system which gathers all required files for JETCAM to create NC code for and to automatically add tooling
- ✓ The programmer specifies the parametric program and associated variables - the operator simply opens the order to create code within seconds, where each part previously took several minutes to create
- ✓ Data can be imported into JETCAM by other methods such as bar code readers
- ✓ Sheet utilisation improved over and above the 5-10% delivered by the Right Angle Shear
- ✓ Where sheet space permits, filler parts have been specified within JETCAM to allow maximum use of material

User Comments

"The introduction of JETCAM gave the concept of programming a new meaning. Where the parametric programming is used our productivity has improved essentially.."

Mikael Almfeldt
Order Preparation

"The excellent automatic parametric programming system is a great advantage when producing customer unique products in small quantities."

Tobias Lindén
Production Engineering

"Without JETCAM we wouldn't have the required flexibility in our sheet metal manufacturing."

Rolf Kokkonen
Machine Operator

Requirements

ABB Coiltech, a world leader in industrial cooling and ventilation systems manufactures 50,000 coils per year in its plant in Söderköping, Sweden. The first within the ABB group to be awarded ISO9001, they work to tight leadtimes averaging 7 days with small batch sizes. Their previous parametric system was limited and incompatible with their CAM system, which in turn did not support the RAS technology of the Finn Power SG-6. When the decision was made to purchase the SG-6, ABB took Finn Power's recommendation of JETCAM Expert as their preferred CAM system.

The JETCAM Solution

Din Maskin supplied and installed JETCAM Expert Premium with MRP and Rectangular nesting along with the Finn Power SG-6. ABB have subsequently integrated JETCAM with their own data management system - when an order is raised, if a parametric file already exists (85% of all orders already use parametrics) the programmer simply specifies the filename and associated variable of the component. This information is then made available electronically to the operator, who can then add tooling and generate NC code for each part within 1-2 seconds and immediately download it to the machine.



ABB has added efficiency well outside the boundaries of the normal uses of a CAM system. Sheet utilisation has been improved in three areas - not only by the benefits realised by combining Finn Power's RAS and JETCAM's advanced nesting capabilities, but also by specifying 'filler' parts - components that are regularly required can be specified to be included on a sheet where there is free space after a parts list has been nested. The production system runs virtually error free, as files are created on demand and the machine operator only has to specify the order to be worked on to generate code. At this point, the information is also updated into ABB's MRP system. Mikael Almfeldt, who prepares many of the orders said, *"We are saving literally several hours per day with JETCAM. Also, because the parametrics and normal CAM are the same application we don't have to recreate a part if it needs editing - it is opened, modified and can be immediately used."*



With such a high through-put production line for a company which is customer driven, backup is important to ABB. In addition to downloading updates from jetcam.com under their maintenance contract, they also benefit from direct support from Din Maskin on both machine and CAM software. *"The support from Din Maskin has been very good."* commented Tobias Lindén. JETCAM also allows ABB to think of future expansion. *"There is also the possibility to import data from many sources, such as a bar code reader, so that all kinds of files can be read into JETCAM. This also minimizes the machine operator's time for programming and administration."*

ABB Coiltech are now one of three companies within the ABB Group in Sweden using JETCAM and are certain of their success within their industry: "Our company has big plans for volume and profit growth. JETCAM is an important tool in the process concerning manufacturing of different components from sheets and fits well in our planning. JETCAM is also very easy to use, and offers great possibilities for ABB, especially with the advanced parametrics. Without JETCAM we simply would not have the flexibility we need in our sheet metal manufacturing."

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