



Success Story

Midland Takes to the Skies with OPEN MIND

When Midland Aerospace of Nottingham invested in a 5-axis DMG machining centre in 2005, the company immediately turned to OPEN MIND and its *hyperMILL*® CAD/CAM software to support the new investment. As Midland Aerospace...

...Managing Director Eamon Lyons comments: “When we acquired our new DMG machine we wanted to protect our investment with 5-axis software that guaranteed collision avoidance – OPEN MIND was the only company that could meet our needs.”

from OPEN MIND, they immediately noted the ease of use and the reduced programming times that derived from the customer friendly interface. The selection was easily made!

Investment Builds Growth

The new machine and software immediately reaped rewards for Midland Aerospace with the company continually winning business

The progressive aerospace manufacturer purchased a DMG EVO70 5-axis machining centre to enable the company to produce complex components for its customer base that includes Airbus, GKN, BAE Systems, Raytheon, Aerostructures Hamble (Smiths Aerospace) and Contour. The introduction of the new 5-axis machining centre immediately made the company’s current software all but redundant. The 3/4-axis package had no collision avoidance and it struggled to cope with the increasingly complex components manufactured on the new machine.

When Midland Aerospace acquired their new DMG machine they wanted to protect their investment with 5-axis software that guaranteed collision avoidance: *hyperMILL*®

As a preferred supplier to DMG, the company was advised to work with OPEN MIND. However, like any sensible company Midland Aerospace fully evaluated the market to find the package to meet its exacting needs, involving its two experienced programmers from day one. Reviewing the available packages, the programmers found competitor products difficult to use and noted that they did not have collision avoidance. When the two programmers worked with *hyperMILL*®



About Midland Aerospace

Midland Aerospace is a dynamic company based on the skills and knowledge of an exceptional workforce. Operating from a modern purpose built facility located in the centre of the United Kingdom they utilise one of the best manufacturing systems available. The comprehensive services that Midland Aerospace offers and their reputation for quality and reliability has attracted clients from around the world.

› www.midlandaerospace.com

“Guaranteed collision avoidance – OPEN MIND was the only company that could meet our needs.”

Eamon Lyons, Managing Director



that involved the production of complex 5-axis components from aluminium, titanium and stainless steel. The increased business has since seen the BSI and EASA (Aerospace Standard) registered company acquire a second DMG, an EVO50 5-axis linear machining centre. This in turn has seen the company buy a second *hyperMILL*® seat to accompany the machine. Purchased in July 2006, the increased production of intricate parts has led Midland Aerospace to upgrade from the *hyperMILL*® Pro package to the *hyperMILL*® Expert. This enhanced version has improved functionality, something that has further reduced programming times for the aerospace company.

As Mr Lyons continues: “We no longer have problem parts. The capability of the machine and the software now simplifies and enhances the production of all complex components. When we investigated software packages, *hyperMILL*® not only came out on top for its performance, ease of use, functionality and collision avoidance – it was also the presentation of the company. The OPEN MIND staff has built a strong working relationship

with us. This has been based on the support, presentation and the confidence they have instilled in us with regards to the software.”

The improvements the company has seen since employing the combined technologies of OPEN MIND and DMG have been staggering. However, as Mr Lyons states: “We also use subcontractors and it’s quite surprising that the ones using *hyperMILL*® not only deliver on time, but the parts have a superior surface finish.”

“OPEN MIND and DMG have both been superb. If we did not invest in this high specification technology we wouldn’t have been able to undertake the work that has now become our every day business. In August we will be taking delivery of our third DMG 5-axis machine (a large DMU 100P) as part of the company’s ongoing growth and development into working at the cutting edge within the demanding aerospace industry,” concludes Mr Lyons. ■

About OPEN MIND Technologies AG

OPEN MIND is one of the world’s most sought-after developers of powerful CAM solutions for machine and controller-independent programming.

OPEN MIND designs optimized CAM solutions that include a high number of innovative features not available elsewhere to deliver significantly higher performance in both programming and machining. Strategies such as 2D, 3D as well as 5axis milling/mill turning, and machining operations like HSC and HPC are efficiently built into the *hyperMILL*® CAM system. *hyperMILL*® provides the maximum possible benefits to customers thanks to its full compatibility with all current CAD solutions and extensive programming automation.

OPEN MIND strives to be the best and most innovative CAM/CAD manufacturer in the world, helping it become one of the top five in the CAM/CAD industry according to the NC Market Analysis Report 2015 compiled by CIMdata. The CAM/CAD solutions of OPEN MIND fulfil the highest demands in the automotive, tool and mould manufacturing, production machining, medical, job shops, energy and aerospace industries. OPEN MIND is represented in all key markets in Asia, Europe and America, and is a Mensch und Maschine company.



We push machining to the limit

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