

Success Story

Optimal 5-axis processing with *hyperMILL*®

C. & E. FEIN GmbH, the leading maker of professional power tools for metal-working, automotive and interior applications, will use the *hyperMILL*® CAM system from OPEN MIND Technologies AG. The resulting seamless...



About C. & E. FEIN GmbH

The world's first power tool was invented by C. & E. FEIN GmbH. The company was founded by Wilhelm Emil Fein in 1867, and in 1895 FEIN invented the first power tool – the electric hand drill. Today the long-standing company is a world-renowned power tool manufacturer with 840 employees, 570 of whom work in Germany. The German manufacturer of professional and reliable power tools for industry and the manual trades develops and produces application solutions for the metal, interior construction and automotive sectors. FEIN holds more than 800 active industrial property rights, including roughly 500 patents and patent applications. FEIN markets its products through 16 international sales subsidiaries and representations in 61 countries. For over 140 years, FEIN has been synonymous with application solutions and premium quality.

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...integrated process chain, will guarantee a consistently high level of quality and precision from product development to production.

C. & E. Fein GmbH implements its consistent processes from computer-based design to the manufacturing process with *hyperMILL*®. The CAM system from OPEN MIND Technologies AG prevailed against the products of several competitors. Among the major requirements to be met: the solution had to be able to replicate changes in the CAD geometry directly in the CAM system and ensure the collision-proof 5axis processing of deep cavities with small tools.

hyperMILL® meets the highest requirements of C. & E. FEIN GmbH

Because of *hyperMILL*®'s seamless integration, the users in FEIN's product development department can access the same database from within both the CAM system. As a result, they operate with the same data model and can program and/or change the parts for the manufacturing process with great flexibility and efficiency.

The company was also impressed by the high quality, precision and efficiency of the milling process. Because of the close cooperation between OPEN MIND Technologies AG

About CINTEG AG

CINTEG AG is one of Germany's leading providers of product development and product data management services. The company is headquartered in Göppingen and maintains additional offices in Limburg, Bad Alexandersbad, Nuremberg and Oberhausen. CINTEG has extensive expertise in PLM, CAD, EDM, e-business and process workflows of manufacturers, suppliers and service providers in development, design and production. Its activities cover the entire engineering field with solutions for CAD, PDM, PLM, IT infrastructure, networking and reprographic technology, e-commerce, individual projects and training. CINTEG also operates IC-Bildungshaus GmbH, a wholly-owned subsidiary for training and related services. CINTEG's customers include Karl Dungs, MAG, Schuler-Weingarten, Siemens, Schott, Küppersbusch, Thyssen Krupp and other leading companies.

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and leading equipment manufacturers, FEIN's processing center, which was made by Berthold Hermle AG, and *hyperMILL*® form a powerful unit. The powerful collision prevention algorithm of *hyperMILL*® ensures safe and efficient manufacturing processes even for the most demanding 3D and 5-axis jobs.

For consulting, implementation and training services, C. & E. FEIN has commissioned CINTEG AG (an authorized sales partner of OPEN MIND Technologies AG), who also provides extensive local support for the system's operation. ■



FEIN, manufacturer of professional and reliable power tools for industry and the manual trades, in Schwäbisch Gmünd-Bargau



Innovative 5-axis strategies, for example for machining of deep cavities.

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 2.5D, 3D as well as 5-axis 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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