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Safeguarding our expertise in grinding: Axivion supports Haas Schleifmaschinen with code analysis and architecture verification

Long-term mechanical engineering innovation is only possible with proactive software quality management: from now on, Haas Schleifmaschinen of Trossingen will use Axivion tools and solutions to ensure the quality and ease of maintaining Multigrind® Horizon, the grinding and simulation software Haas has developed in-house. The code base of Multigrind® Horizon forms the foundation for the precise grinding process performed by the successful Multigrind® grinding machines. At Haas, the Axivion Bauhaus Suite is used for static code analysis and automated architecture verification and recovery – not only to provide the architecture with long-term protection from software erosion but also to create a future-proof code base for continuing developments.

Safeguarding architecture safeguards specialist expertise

“A huge amount of specialist expertise has gone into our grinding software,” says Christian Küster, commercial manager of Haas Schleifmaschinen. “We’ve put a lot of effort and passion into developing it, in particular its architecture and we are continuously adding further innovative features. From now on, our specialist grinding expertise will enjoy additional protection from the Axivion Bauhaus Suite.”

Multigrind® Horizon is a geometry-based, intuitive grinding software package which opens up new technological horizons for the user in terms of user-friendliness and efficiency, both at the design stage and when operating the machine. No less exacting are the demands placed on the Axivion Bauhaus Suite by the software develop-

ment team at Haas Schleifmaschinen: “For our sophisticated systems, we need tools which go beyond pure static code analysis and which can localise architectural violations and hidden dependencies, style violations, clones, dead code and circular dependencies”, says Wolfram Hermle, software development manager at Haas Schleifmaschinen. “We expect these software tools to integrate seamlessly into our development process and deliver genuine added value.”

Impressive two-day workshop

Axivion showcased this added value at a two-day workshop in Trossingen, where software architects and programmers were shown on-site demonstrations of the Axivion Bauhaus Suite and its attractive optimisation potentials. Those present were impressed by the informative analysis results provided by the tool suite, as well as its user-friendly automated architecture verification and static code analysis.

As with every client, Axivion ensured rapid integration of the Axivion Bauhaus Suite within Haas Schleifmaschinen’s individual development environment and design processes. To find out more about Axivion’s software erosion protection solutions and services, and about Axivion Bauhaus Suite, go to www.axivion.com.





About Haas Schleifmaschinen GmbH

Haas Schleifmaschinen GmbH has its headquarters in Trossingen in south-western Germany. It is an international provider of systems which perform complex grinding operations for tool manufacture, medical technology, and the aerospace sector. The mechanical engineering company specialises in tool grinding machinery for complex geometries. Haas produces three machine types along with a variety of options. These are the Multigrind® CU, CA and CB. Haas grinding machines are used for processing rotary and profile tools, gearing and cold forming tools as well as medical tools and implants. Haas Schleifmaschinen GmbH is the world's leading producer of machines for implant manufacturers.

To find out more, visit www.multigrind.com

About Axivion

Axivion, Stuttgart, Germany is a provider for complete solutions for protection from software erosion. The solutions include the development of innovative software tools – amongst others for static code analysis, architecture verification and clone management – as well as the development of methods, training concepts, and service and consulting for the implementation of measures. The core product of the company is the Axivion Bauhaus Suite, a tool suite for improvement of software quality and maintainability of software systems implemented in the programming languages Ada, C, C++, C#, and Java. Axivion's customers are developers of technical software across different industries, e.g. in the field of automotive, railway, electronics, information and telecommunication, medical, avionics, mechanical engineering, and industrial automation. Axivion's MISRA checker covers 100% of all automatically testable MISRA rules for the standards MISRA C:2004, MISRA C:2012, and MISRA C++:2008. Since its foundation in 2006, Axivion maintains close research links to the University of Stuttgart, Germany, and to the University of Bremen, Germany to keep up with the newest trends in programming and code analysis research.

More information is available at www.axivion.com

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