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Fastener

TECHNOLOGY INTERNATIONAL

FTI TECHNICAL ACHIEVEMENT AWARD WINNERS:

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Fastener Focus

Focused News, Information and Products for Fastener Distributors, Importers, Manufacturer's Representatives, OEMs and End Users

Presented by **Fastener**
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Tom Haig

The Magni Group, Birmingham, MI, USA, nominated **Tom Haig** of **Magni Industries**, Detroit, MI, USA, for his development of the Magni 565 coating system, "The single most popular and widely used fastener coating in the demanding automotive industry."

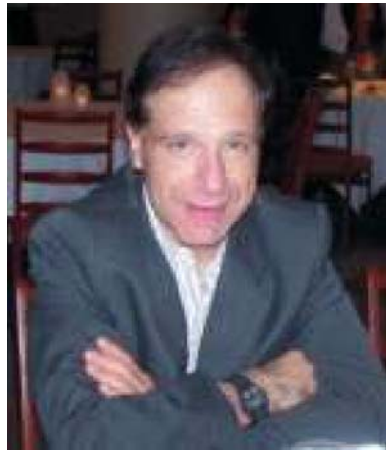
Complying with the automotive industry market demands for long-term corrosion resistance using chrome-free technology with no increase in cost, Tom Haig's Magni 565 coating system has been systematically implemented on a worldwide basis at virtually every car and truck manufacturing company.

The key to Tom Haig's development was the discovery of a combination of chrome-free anti-corrosion pigments that control the oxidation of zinc plating, or base coats, and the steels used in the manufacture of fasteners. Tom Haig's Magni 565 coating system controls corrosion beyond 15 years in the severe corrosion environments common to passenger and military vehicle underbody applications for coated fasteners. These are bolts and nuts of the complete size range required for structural chassis fasteners as well as threaded fasteners for exterior hardware attachments.

With the development of Magni 565, Haig was also able to achieve each manufacturer's unique torque/tension requirements for automated high-speed assembly line conditions by including internal lubricants. As a result of this, no oil or post-coating sealers are required for use with Magni 565. The coating's friction is consistent following multiple rundowns, in addition to being environmentally friendly and multiple-year durable.

The other key design goal for Tom Haig was creation of the liquid rheology to achieve the thixotropic properties that are essential for the coating of fastener threads. These physical properties provide uniform film thickness, better coverage of sharp dihedral thread crests and improved adhesion and chip resistance in order to accommodate the bulk processing that is common to the fastener industry and power tool installation operations.

Tom Haig is a Team Leader on the Research



Tom Haig, the developer of the Magni 565 coating system.



Fastener products coated with the Magni 565 coating system developed by Tom Haig.

and Development staff at Magni Industries. He has been employed at Magni Industries for 12 years and is a Chemical Engineering graduate from the **University of Toledo** in Toledo, OH, USA.

The Magni Group understands corrosion and its cost to the global economy. The company has underscored its commitment to the industry by making investments in people, equipment and technology. At Magni, sales, research and manufacturing personnel work together in cross-functional teams. As a result, answers and solutions to customers requirements come faster and more efficiently. The company's steady growth reflects its leadership role in the coatings industry. www.themagnigroup.com

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