

Press release

June 4, 2026

Aucotec Brings AI to Engineering New Engineering Advisor Revolutionizes Plant Engineering

- **AI-powered Engineering Advisor delivers precise answers to complex engineering questions in seconds**
- **Engineering Base serves as the intelligent "Single Source of Truth" for analysis, quality assurance, and knowledge management**
- **Sets new standards for efficiency, compliance, and data-driven engineering across the entire plant lifecycle**

Aucotec is taking the use of artificial intelligence in engineering to a new level with the introduction of its Engineering Advisor. The AI-powered solution combines advanced analytical capabilities with the data-centric foundation of Engineering Base, enabling companies to execute complex engineering processes faster, with greater transparency and improved efficiency.

In today's engineering projects, access to consistent, reliable, and contextualized data is critical. This is precisely where the Engineering Advisor creates value. It understands relationships within the digital twin, analyzes engineering data in context, and delivers accurate answers to technical questions within seconds.

The foundation for this capability is Engineering Base, Aucotec's central engineering platform, which consolidates structured and unstructured information within a consistent, object-oriented data model.

Semantic Explore instead of information overload

The Engineering Advisor enables what Aucotec calls Semantic Explore – a semantic exploration of engineering and project data using natural language. Instead of manually searching through files, documents, and databases, users can access relevant information instantly and intuitively.

Beyond intelligent search, the solution supports technical analyses, evaluates data quality, and automatically verifies compliance with relevant IEC and ISO standards.

"The Engineering Advisor is a highly comprehensive technical advisor," explains Dr. Pouria Bigvand, Vice President Products & Technology at Aucotec. "Our goal is not to replace people, but to empower them to make better decisions – faster, with greater confidence, and based on more reliable information."

In addition to semantic search capabilities, the Advisor supports object analyses, quality assurance processes, technical component evaluations, and the automated visualization of engineering content extracted from documents and images. Search results can be transferred directly into new or existing projects, creating a seamless connection between knowledge and execution.

Engineering Base as the intelligent foundation

A key differentiator compared to conventional AI solutions is the Engineering Advisor's deep integration into the Aucotec platform.

Thanks to the central data model of Engineering Base, the AI understands not only individual pieces of information but also the technical relationships, dependencies, and engineering logic within complex plant structures.

"With the Engineering Advisor, we combine the power of artificial intelligence with the engineering expertise and data consistency of Engineering Base," says Henry Bloch, Head of Product Management at Aucotec. "The result is a solution that understands the language of engineering and helps companies deliver projects more efficiently, safely, and sustainably."

A new standard for AI-powered engineering

With the Engineering Advisor, Aucotec is setting a new benchmark for AI-driven engineering and further strengthening its position as an innovation leader in data-centric engineering platforms.

By combining trusted engineering data with advanced AI capabilities, Aucotec is enabling a new generation of engineering workflows – one where information is instantly accessible, knowledge is continuously leveraged, and decisions are made with greater speed, accuracy, and confidence.

Images and captions:



Aucotec is taking the use of artificial intelligence in engineering to a new level with the introduction of its Engineering Advisor. (Bild: AdobeStock)



Pouria Bigvand, Vice President Products and Technology bei Aucotec. (Bild: Aucotec AG)



Henry Bloch, Head of Product Management bei Aucotec. (Bild: Aucotec AG)

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Aucotec AG has more than 40 years' experience in the development of engineering software designed for use throughout the life cycle of machinery, plant equipment and mobile systems. Solutions range from flow diagrams and process-control/electrical technology for large-scale plant systems to modular on-board power supply units designed for the automotive industry. Software supplied by Aucotec is currently in operation throughout the world. In addition to the headquarters near Hanover, the Aucotec Group includes six other locations in Germany as well as subsidiaries in China, India, Malaysia, South Korea, the Netherlands, France, Italy, Austria, Poland, Sweden, Norway and the USA. What is more, a global partner network ensures local support all over the world.

We would be grateful if you could supply us with a copy of your article. Thank you very much!

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