

Subject of the Press Release: EMO Hannover 2025 and the Introduction of a New Module
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EMO Production Technology Trade Fair Under the Motto “Innovate Manufacturing” **COSCOM Unveils New Module for Optimizing CAD Tool Data**

From September 22 to 26, 2025, EMO will open its doors in Hanover, Germany. [COSCOM](#), a provider of digitalization solutions for machining technology, will be present at two locations: Hall 6, stand A24 (joint stand “AI + Digitalization”) and at the booth of innovation partner [Spatial Corp.](#), a Dassault Systèmes subsidiary, in Hall 6, C37.

Since 1978, COSCOM Computer GmbH has been a leading software company offering successful products and services in the field of CNC-based manufacturing digitalization. As an established EMO exhibitor, COSCOM is proud to be part of this year’s “AI + Digitalization” joint stand. “Explaining our solutions for increasing efficiency and reducing costs in just a few words is not easy. In addition to digital process optimization, we also offer IT security solutions for connecting machine tools, which can help prevent production downtime due to cyberattacks,” explains Managing Director Christian Erlinger.

COSCOM offers comprehensive solutions from a single source:

- Digital tool database: creation of the digital twin without redundant data storage
- Integration of ERP, CAM, simulation, and storage systems into the COSCOM Eco-System
- Cybersecurity, network segmentation, and mobile applications

With an experienced team of process consultants, sales experts, and technicians, EMO visitors will have the opportunity to discover new approaches for optimizing complex CNC machining processes.

New TCI Data Preparation Module for Intelligent CAD Data Processing

The COSCOM ToolDIRECTOR VM (=Virtual Machining) is a modular software solution that provides comprehensive tool management support. The first step involves transforming CAD data from various tool manufacturers as well as in-house tool designs for CNC machines to create a digital twin. The software supports CAD data from numerous systems such as AutoCAD, Autodesk Inventor, Dassault Systèmes CATIA V5, SOLIDWORKS, Siemens NX, and many more. ToolDIRECTOR VM delivers complete data for machine simulation and collision control within the digital twin application.

One major challenge for digital twin applications has been the massive data volume. The large number of fine geometric details—such as internal structures—significantly affects application performance. While some geometries must be retained for collision checking and similar processes, many details (e.g., the internal structure of a bore) are not essential for the digital twin. Reducing such fine details leads to data minimization. This is precisely where the new module, developed by COSCOM in collaboration with long-term technology partner Spatial Corp comes into play. COSCOM leverages several Software Development Kits (SDKs) from Spatial Corp, including the [3D InterOp SDK for reliable CAD data translation](#). More recently, COSCOM have integrated the Data Prep add-on to 3D InterOp, which forms the foundation of this breakthrough by enabling significant data reduction and time savings.

The result: an automatic one-click solution for CAD data simplification within ToolDIRECTOR VM, specifically in the Tooldata Cooperation Interface (TCI) – the central interface for graphical data preparation. “With a single click, CAD data can be selectively reduced without losing relevant information. This allows our customers to save significant time not only in data preparation but also during tool simulation and collision checks,” summarizes Managing Director Knut Mersch, responsible for COSCOM software development.

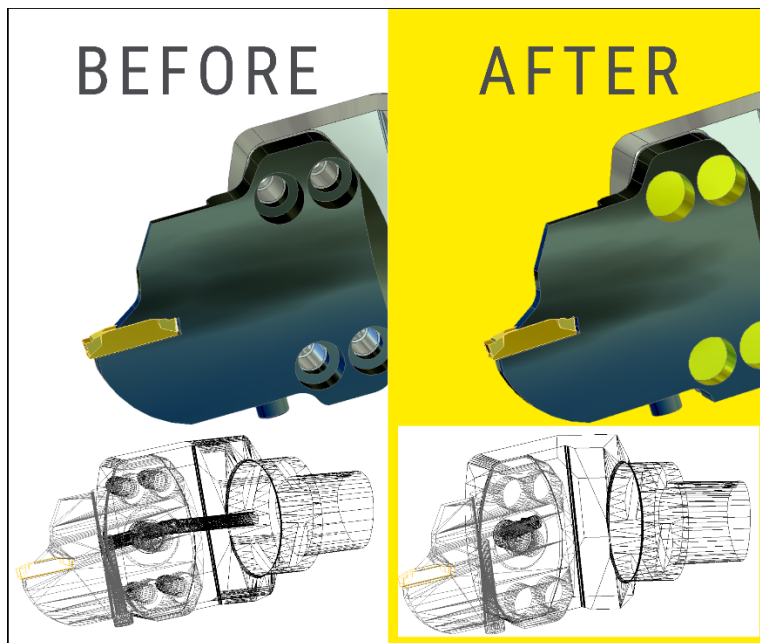
The new **TCI Data Preparation** module will be demonstrated live for the first time at EMO at the Spatial Corp booth (Hall 6, Stand C37) and is now available.

For more information about COSCOM, visit www.coscom.de.

Schedule your interview appointment – we look forward to speaking with you!

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Image:



Caption: A grooving turning tool before and after data minimization. In this example, the internal details of the four holes have been removed. The yellow cutting edge is automatically retained, as this area is relevant for the simulation. Overall, approximately 47% of triangles and vertices were reduced.

About COSCOM Computer GmbH:

COSCOM – Software, Consulting and Projects – for Digitalization in Machining

COSCOM is a leading software system house that standardizes, networks, and optimizes production data in the machining industry. The connection between the ERP system and production is a top priority. Projects are implemented around the CNC machine in tool management, tool and data management, CAD/CAM and machine simulation, as well as with Infopoint/DNC networking. Competence in consulting and goal-oriented project management are the basis for mutual success – one contact person, one responsibility, one successful project!

The networking of COSCOM software products creates integrated, interface-free process solutions for connecting all participants on the shop floor. The main benefits for users are a more efficient machining process with better product quality, higher adherence to delivery dates, and lower production costs. COSCOM offers everything from a single source – from software development, process consulting, sales and project management with implementation to training/coaching, service, and support.

COSCOM has been active on the market since 1978, making it one of the most experienced providers in the field of manufacturing automation and digitalization in machining. Currently, around 6,000 COSCOM solutions and approximately 25,000 machines and systems are networked with COSCOM systems across Europe. COSCOM as a partner means investment security, future security, and innovation security for its customers.

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If you have any questions, please do not hesitate to contact us.

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