

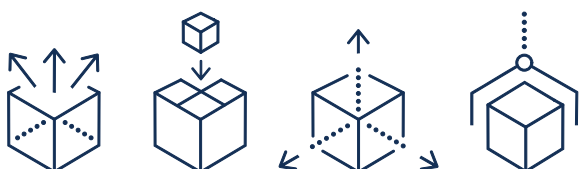
CUSTOMER REPORT

Tyrolit Group

Lino[®]
leading innovation



From manual input to 24/7 production with Lino[®] Hub



The power of Lino Hub integration platform, to help unlock the full potential of modern machining centers, is revealed at Tyrolit, a global leader in the technology and manufacturing of grinding and dressing tools.

“Our plant management, executive board and employees quickly became enthusiastic about Lino Hub and its success. Everyone is pulling in the same direction here.”

Florian Zitt,
Process Engineer
at Tyrolit Schleifmittelwerke AG, Plant 5

Challenge

- Continue using Solidworks and Solidcam as core systems
- Generate CAD and CAM data automatically and with verification
- Increase order throughput and production flow

Solution

- Lino Hub integration platform with CAD automation
- Cosling Configurator for rule-based product configuration
- System integration with SAP S/4HANA and Lino Hub/Lino Automate

Result

- Significantly shortened engineering times relieve the engineering team
- New automated CNC machining center is fully utilized
- Standardized data quality supports manufacturing strategy

When precision and innovation are part of a company's DNA, manufacturing also requires tools that support both. For the family-owned company based in Schwaz, Austria, this became especially evident when introducing a new, highly automated machining center.

“We knew that in order for this system to reach its full potential, we needed continuous, reliable CAM data – fast, automated and without manual breaks,” says Florian Zitt, responsible for Process Engineering at Plant 5.

The answer: Lino® Hub. A platform that enables a seamless digital workflow from sales through to the machine.

„Lino Hub helps us manufacture our continuous stream of new, innovative products profitably, even in the smallest batch sizes.

Florian Zitt

Difficult data flow between sales and production

In IT, the Tyrolean company relies on Solidworks® as a 3D CAD solution and Solidcam® to plan and control machining processes on CNC production machines. The ERP system SAP® S/4HANA® serves as the digital backbone for all business processes. Until recently, however, the potential of these systems and their possible interaction remained underutilized.

Take, for example, when an industrial customer requested a precision grinding wheel: The sales representative first clarified the specific application – the correct abrasive layer, a suitable bore size and the overall diameter, coolant supply, and more. This information was entered into the SAP system, from which application engineering provided implementation feedback. After coordination with production planning, the sales representative prepared the quotation. While standard wheels went directly into production upon order, custom products required involvement from the engineering department.

“We benefit from much shorter engineering processes that now result in automatically generated CAM data. We have excellent product data quality, because knowledge silos, media breaks and other error sources are outdated.”

Florian Zitt

THE COMPANY



Name	Tyrolit Group
Headquarters	Schwaz, Austria
Portfolio	Grinding tools and abrasives
Employees	over 4,500
Founded	1919
Website	www.tyrolit.group/en

Modern machining center needs end-to-end processes

Engineering had already been producing custom CAD models and descriptive 2D CAM drawings. These drawings were printed out and sent to production, where machine operators used them to set up the equipment. A process full of pitfalls, as Zitt explains: “The machine operator had to enter the data manually – while production was stopped. Such transfers not only interrupt operations, but they are also error-prone and dependent on the operator’s experience in immediately recognizing plausibility issues.”

With the new machining center, it became clear that, without clean, automatically generated CAM data, the potential of the high-tech system could not be realized. Tyrolit looked for a solution that continued to maintain high standards while remaining flexible enough to manage custom customer requirements. “The machine is designed for 24/7 operation. But that only works if all upstream and downstream processes are fully digital,” says Zitt. In a pilot project, the company collaborated with Lino GmbH and its long-standing partner barho ecs GmbH to implement the Lino Hub integration platform.

Lino Hub connects what was previously separate

Lino Hub enabled a seamless digital chain from customer requests, through the Cosling Configurator and CAD automation, to CAM programming. “Suddenly we were able to generate complete 3D data and verify manufacturing information at the push of a button,” says Zitt about the changeover. The precise ruleset maps not only materials and tolerances but also all necessary machining steps. Variants can be simulated, checked, and transferred directly – without media discontinuities or manual input.





“Process automation with Lino Hub has long enabled Tyrolit to compensate for the previously prevailing shortage of skilled staff in engineering.”

Florian Zitt

Lino® 3D configuration solutions

The Lino Group provides leading-edge software solutions and consulting services for design automation, CAD data generation, CPQ, system integration, 3D web visualization and 3D layout planning. Companies from various industries use Lino Hub, Tacton CPQ, Cosling Configurator or Tacton Design Automation to realize end-to-end, efficient sales and product development processes with major savings potential.

Lino 3D configuration solutions set new standards in product configuration; they revolutionize the design, configuration, and sale of complex industrial products. Applications from CAD, PDM, PLM, ERP, CRM, web, e-commerce, or mobile devices can be integrated easily.

Configuration specialist and software developer Lino GmbH is an authorized Tacton Business Partner, Cosling Partner, Solidworks Solution Partner, Microsoft Partner, and a member of the Autodesk Developer Network (ADN). Lino operates from seven locations in Germany, Austria, and Switzerland.

Lino makes production more economical and secure

“Today we manufacture much more flexibly – and at the same time significantly relieve our engineering department. Especially in view of the shortage of skilled workers, this is a huge advantage,” says Zitt. Knowledge silos are broken down, standardization increases process reliability, and machine utilization is boosted.

The connection with SAP S/4HANA through the Lino Hub integration platform in combination with Lino Automate enables the generation and provision of all production-relevant data – particularly the automated creation of CAM programs. “Our plant is the innovation hub for special abrasives. So, it is fitting that with this project we are also setting digital benchmarks,” says Zitt. “The solution with Lino Hub has become a blueprint for other locations.”



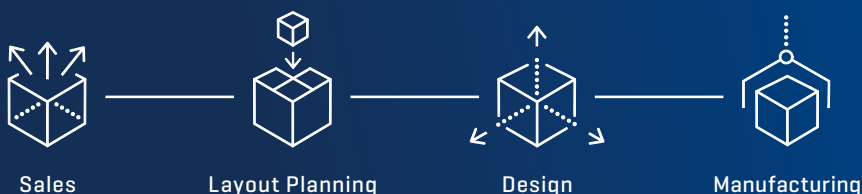
Lino GmbH
Grosse Bleiche 15
55116 Mainz | Germany
www.lino.de/en



Have we aroused your interest?
Contact us. We are glad to advise you
Tel. +49 [6131] 32 785 10 or info@lino.de.



Lino® 3D Configuration Solution for end-to-end business processes from sales to manufacturing



Lino® is a registered trademark of Lino GmbH. All other trademarks and product names are trademarks or registered trademarks of their respective rightholders. © 2025 Lino GmbH