

Technology

Silent Turning, Digitally Connected

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Silent Tools™ Plus connectivity strengthens offer for Industry 4.0

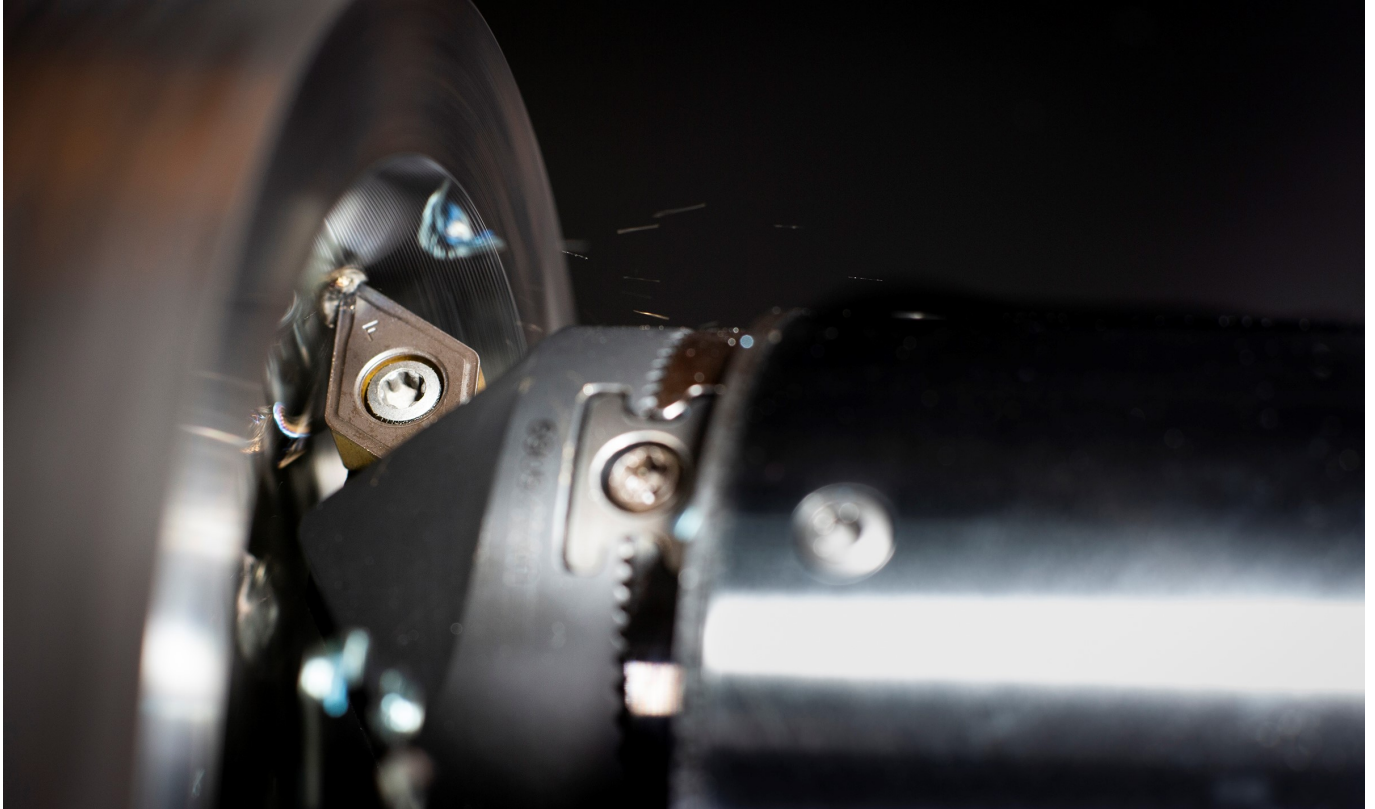
Among a number of enhancements, the latest Silent Tools technology for internal turning at long overhangs now features embedded connectivity within the adaptor. Named Silent Tools™ Plus, this solution enables data from the machining process to be collected and sent to a dashboard, giving the operator a valuable insight into what is happening inside slender tubular components. For instance, it will be possible to detect if there is too much vibration or if the surface quality is at risk of being compromised. Furthermore, operators will be able to reduce the time that the machine runs without the tool in cut.



“The combination of CoroPlus connectivity and Silent Tools damping technology makes this a solution that shows the technical heights we can expect from the machining solutions of the future,” says Åke Axner, Product Manager Silent Tools Turning Adaptors at Sandvik Coromant. “Silent Tools Plus turning adaptors with embedded connectivity support our overall CoroPlus strategy, which enables customers to work more efficiently.”

By way of example, the Silent Tools Plus vibration indicator is able to detect issues with machining at an early stage, helping to prevent vibration-associated issues such as noise, poor surface quality and accelerated tool wear. Furthermore, center height setting functionality displays the level of the cutting edge, so that it can be quickly and easily set according to requirements. The result is better machining

performance and longer tool life.



Silent Tools technology features embedded connectivity within the adaptor.

The range of Silent Tools from Sandvik Coromant is designed to minimize vibration through a pre-tuned dampener inside the tool body that consists of a heavy mass supported by rubber spring elements. The benefits of this design are multi-faceted, allowing machine shops to increase metal removal rates, improve surface finish, secure the process or reduce production costs.

The Silent Tools Plus turning adaptor also includes a new Wedge Lock quick-change interface between the adaptor and cutting head. The fast and accurate cutting head changes this facilitates will appeal to manufacturers in a variety of industries, including aerospace, for machining components such as landing gear components, and in oil and gas, where the machining of long tubular parts is commonplace.

Explore Sandvik's CoroPlus® tooling solutions in this short video:

Previously Featured on Sandvik Coromant's website.

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