

## PRESS RELEASE

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### **Steelwrist launches QuantumConnect – the next-generation tiltrotator control system platform**

**Steelwrist, a global leader in tiltrotators, quick couplers and work tools for excavators, today announces the launch of QuantumConnect, the new generation tiltrotator control system platform for Steelwrist tiltrotators. Building on more than 15 years of experience in control systems, QuantumConnect introduces a new level of operator experience, ease of installation and connectivity, all designed to maximize excavator efficiency. Since the launch of its first control system in 2008, Steelwrist has installed tens of thousands of systems worldwide. With QuantumConnect, developed together with SVAB – a world-leader in advanced control systems – Steelwrist once again raises the bar for tiltrotator technology.**

#### **Key innovations with the QuantumConnect platform**

QuantumConnect represents a major step forward in tiltrotator control technology by combining breakthrough innovations with a modular system architecture. State-of-the-art components are at the core of the platform making installation, operation and support easier than ever before. The new A9 joysticks set a new industry standard with improved ergonomics and functionality. Operators can choose between two or three rollers, benefit from a 5-way mini joystick switch, and enjoy comfort-enhancing features such as heated handles. Safety and productivity are further enhanced through haptic feedback that gives the operator instant tactile signals from the system.

The modular system design makes it easy to adapt QuantumConnect to any excavator brand or model. Purpose-built modules such as the QIO modules convert CAN data to analog and digital signals, enabling smooth integration with machine functions and external systems. The Tiltrotator control module, integrated directly into the tiltrotator, ensures precise control of valves and sensors, while the AUX module offers flexibility to manage additional hydraulic functions such as blades, outriggers or offset booms. If not directly integrated in the excavator HMI an optional compact in-cab touch display gives operators a clear overview of system status and notifications, providing transparency without adding complexity.

Connectivity is embedded at the very core of the QuantumConnect platform. The new Connectivity Gateway module ensures wireless communication with sensors and components, while also managing 4G connections for cloud backup, over-the-air software updates and remote diagnostics. The result is a system that is not only more powerful and versatile, but also future-proof, fully prepared for next-generation tiltrotator hydraulics and MiC 4.0 integration, as well as seamless compatibility with leading Machine Control Systems suppliers.



## **Easy installation with InstallMate**

With QuantumConnect, the days of complex and time-consuming installations are over. The platform has been designed from the ground up to make tiltrotator installation faster, more predictable and easier to support in the field. The combination of modular components, compact design and machine-specific wire harnesses eliminates the need for extensive customization during the installation.

Central to the installation process is the new InstallMate app, which guides technicians step by step in multiple languages. Predefined templates for each excavator brand and model ensure that system configuration is straightforward, while cloud-based storage allows machine settings to be securely saved, cloned and restored across multiple excavators. InstallMate also enables installation support in local language, further reducing complexity and helping technicians deliver a consistent experience. Because installation guides are constantly updated through feedback from worldwide use, the system becomes easier and more efficient to deploy over time.

By addressing both the physical installation and the digital configuration, Steelwrist has created the most user-friendly tiltrotator control system on the market. Customers benefit from faster machine readiness, less downtime and the confidence that installation quality is consistent across their fleet.

“With the QuantumConnect control system platform we take a leap forward in making tiltrotator installations easier than ever before, which has been a top priority for us. Our engineers have put a lot of effort into making sure the control system can easily be adopted to different excavators and be updated over time and I am very proud of what we have achieved. Now I look forward to seeing installations starting to happen across the world”, says Markus Nilsson, Steelwrist CTO.

## **Designed for the operator with connectivity for the highest uptime**

The QuantumConnect platform has been engineered with a clear focus on the operator. Every element, from joystick ergonomics to system integration, has been developed to make the excavator easier to control, more efficient and safer to operate. Proportional control of all tiltrotator functions is standard, with auto-calibration of hydraulic valves ensuring smooth and precise movement while optimizing fuel efficiency. Operators can create individual profiles and adapt the system to specific work tools, while the ToolRec function wirelessly detects which attachment is connected and automatically adjusts tiltrotator settings.

Safety is another central feature. LockSense, Steelwrist's next generation sensor-based work tool locking system, is fully integrated into QuantumConnect, providing clear and reliable confirmation of safe locking on both machine and tiltrotator couplers. Optional track and wheel steering allows operators to control the excavator without releasing the joysticks, saving valuable time and improving ergonomics during continuous work.



Beyond ergonomics and safety, connectivity ensures that QuantumConnect always delivers peak performance. The QuantumConnect app for iOS and Android allows operators and service teams to connect wirelessly with the control system, eliminating the need for cables or adapters. With cloud-based backup, machine settings are never lost, and over-the-air updates ensure that the latest improvements are always available. Remote support can be accessed instantly, minimizing downtime and keeping machines working productively. Integration with OptiLube, Steelwrist's automated lubrication system, ensures continuous monitoring of lubrication performance, providing alerts when it is time to replace the lubricant cartridge, eliminating guesswork and manual maintenance.

The combination of advanced ergonomics, intelligent integration and always-on connectivity means that QuantumConnect offers not just a better control system, but a complete operator experience that raises efficiency and reliability to new levels.

"Connectivity is no longer optional - it is essential. With QuantumConnect, every operator and every machine is connected, supported and up to date, wherever in the world they are. This is more than an upgrade, it is a rethink of how a tiltrotator control system should be designed for today and tomorrow. We wanted to make installation faster, operation more intuitive, and connectivity seamless," says Stefan Stockhaus, Steelwrist CEO.

## **Availability**

QuantumConnect will be gradually introduced across global markets during 2025, beginning with selected Steelwrist tiltrotator models and expanding through the company's worldwide dealer network. The platform is fully supported by both the QuantumConnect app and the InstallMate app, available for iOS and Android. With global regulatory compliance including RED and FCC, and preparation for future industry standards, QuantumConnect is ready to meet the demands of contractors and fleet owners worldwide.

For more information please contact:

Stefan Stockhaus  
CEO  
Steelwrist AB  
stefan.stockhaus@steelwrist.com  
Tel +46 709981321

Karl Serneberg  
VP OEM Sales & Marketing  
Steelwrist AB  
karl.serneberg@steelwrist.com  
Tel: +46 702619811

## **About Steelwrist**

*Steelwrist is a global manufacturer of tiltrotators, quick couplers and work tools for excavators with headquarters in Sweden. A determined focus on robust and modern products, combined with fast service has been appreciated by an increasing number of customers worldwide. For more information about Steelwrist, please visit [steelwrist.com](https://steelwrist.com).*