

Danfoss Press Release

November 27, 2023

Danfoss Power Solutions launches A+ software to accelerate autonomous machine development

NORDBORG, Denmark – [Danfoss Power Solutions](#), a leading global supplier of mobile and industrial hydraulics as well as electric powertrain systems, has formalized its software offering for autonomous off-highway machinery. Designed for in-house engineering teams at original equipment manufacturers and distributors, A+ software reduces development time and costs.

A+ software consists of preprogrammed and pretested software blocks built into Danfoss' [XM100 autonomous controller](#) hardware. Each block covers key areas such as perception, positioning, and navigation. A+ software enables users to add autonomous functionality by integrating the blocks into their machine applications, eliminating the need to develop software from scratch.

A+ software is offered in two tiers: A+ Essentials and A+ Advanced. Included with a PLUS+1 professional license, A+ Essentials provides basic software tools and blocks to get users started on autonomous machine development. A+ Advanced is a paid solution that provides advanced software blocks and access to future A+ Advanced features and updates.

“Autonomous functionality is improving machine performance and safety and helping relieve labor shortages across a number of industries, particularly specialty agriculture, animal husbandry and airport ground support. The benefits of autonomy are wide-ranging, making it a powerful solution,” said Peter Bleday, head of Autonomy, Danfoss Power Solutions. “OEMs that adopt autonomous functionality early stand to gain a significant advantage. With our new A+ software, we can help OEMs get to market faster with machines that stand out from the competition. Danfoss has both the solutions and the expertise needed to guide companies on the road to autonomy.”

In addition to software, Danfoss offers engineering services and a broad portfolio of hardware required for autonomous functionality. The company's Autonomous Custom Engineering Services team can help OEMs by providing hardware



selection support and full or partial machine programming. Danfoss components such as steer-by-wire, e-steering, electronics, telematics, machine interfaces, controllers, and hydraulics provide a comprehensive solution.

To learn more about Danfoss Power Solutions' autonomy capabilities, visit the [Danfoss autonomous solutions](#) webpage.

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About Danfoss

Danfoss engineers solutions that increase machine productivity, reduce emissions, lower energy consumption, and enable electrification. Our solutions are used in such areas as refrigeration, air conditioning, heating, power conversion, motor control, industrial machinery, automotive, marine, and off- and on-highway equipment. We also provide solutions for renewable energy, such as solar and wind power, as well as district-energy infrastructure for cities. Our innovative engineering dates back to 1933. Danfoss is family- and foundation-owned, employing more than 42,000 people worldwide and serving customers in more than 100 countries through a global footprint of 95 factories.

www.danfoss.com

Media contacts:

Lindsay Schleisman, Danfoss Power Solutions

Email: lindsay.schleisman@danfoss.com

Tel: +1 952 250 0604

Dawn White, Napier Partnership Limited

Email: dawn@napierb2b.com

Tel. : +44 (0) 1799 542858