

Danfoss Press Release

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New generation electric skid steer benefits from Danfoss DM700 display

NORDBORG, Denmark – [Danfoss Power Solutions](#), a leading global supplier of mobile and industrial hydraulics as well as electric powertrain systems, is supplying its DM700 display for use on the third-generation Elise 900 skid steer loader manufactured by [FIRSTGREEN Industries](#) (previously known as Kovaco Electric). The all-electric machine takes advantage of the display's 7-inch screen, excellent sunlight viewability, and rugged IP66/IP67 ingress protection ratings, providing the ideal combination of features for this demanding application.

During the design phase of the third-generation Elise 900, FIRSTGREEN Industries customers requested a hard-mounted display instead of the previous control by mobile phone. Mobile phones are not particularly robust, and their small screens and poor readability in direct sunlight make operator ease of use a challenge. In contrast, a robust embedded display can help improve productivity and support better operator safety.

With support from [Technotrade](#), FIRSTGREEN Industries' trusted technology advisor and a Danfoss Power Solutions Premier Partner, the DM700 emerged as the display of choice.

Situated in the top right corner of the Elise 900 cab, the Danfoss DM700 display is connected to the skid steer's CAN bus system, providing reliable, rapid communication and higher data throughput – a considerable advance in comparison with the phone's Bluetooth connection. Furthermore, the display overcomes the distractions of using a personal device for machine operation, along with problems that emerge if the phone is misplaced or not charged. The large screen area of the DM700 also provides better visibility of important machine information for the operator.

Using the display, users can set three profiles customized to the needs of various operators or working conditions, including travel speeds and hydraulic settings. Productivity is further enhanced through the DM700's

ability to display error messages and diagnostics, minimizing machine downtime.

The control joysticks can also be customized. In comparison with the analog joysticks of previous generation Elise 900 models, Danfoss JS1-H CAN joysticks offer greater accuracy and enable the adjustment of parameters. The result is a more intuitive control system customized to operator preferences. Moreover, the joysticks are more reliable and simpler to install, service, and replace as there are only four wires instead of the 25 required with the previous analog devices.

Safer operation is a further benefit of the display. In addition to prompting the operator to shut the door and fasten the seat belt to start the machine, the DM700 can help avoid rollovers by showing a real-time overview of the skid steer's roll and pitch angles.

Although the DM700 display is an option on the third-generation Elise 900, FIRSTGREEN Industries reports that all purchasers to date have selected the hard-mounted display and anticipates that 95% of long-term sales will include it.

Lukáš Rameš, chief operating officer, FIRSTGREEN Industries, said: "When we introduced the display, every customer was happy with it. Now we are working on retrofitting older machines so they can use the display. We already have some orders for the retrofit kits, which can rebuild generation 2 machines into gen 3."

To read the full case study, visit <https://www.danfoss.com/en/service-and-support/case-stories/dps/smarter-than-the-average-skid-steer/>

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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-owned, employing more than 40,000 people, and serving customers in more than 100 countries through a global footprint of 95 factories.

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