

The Future of Seeding Technology

- Topcon industry leadership in air seeder technology for more than 20 years
- Easy-to-use user interface through Topcon Horizon software
- ISO UT interface compatibility with existing tractor terminals
- Expansion modules for increased control

If you want to know where seeding technology is headed, take a look at the new Topcon Apollo application controllers.

Apollo is an entirely new concept in machine control ECU's that brings industry-leading features in an integrated solution to small grain seeding systems. Apollo ECU's are easy-to-install, easy-to-use, stackable, weatherproof, ISO compatible, and most importantly, offer virtually unlimited capabilities.

Apollo application control ECU's are configurable to support a wide range of air seeders – virtually every brand currently on the market. From simple single product seeding to multi-product seed, chemical and fertilizer applications – Apollo ECU's running with Topcon GNSS autosteering bring it all together in a synergistic system offering unmatched efficiency and productivity.

Topcon X30 console and Horizon software

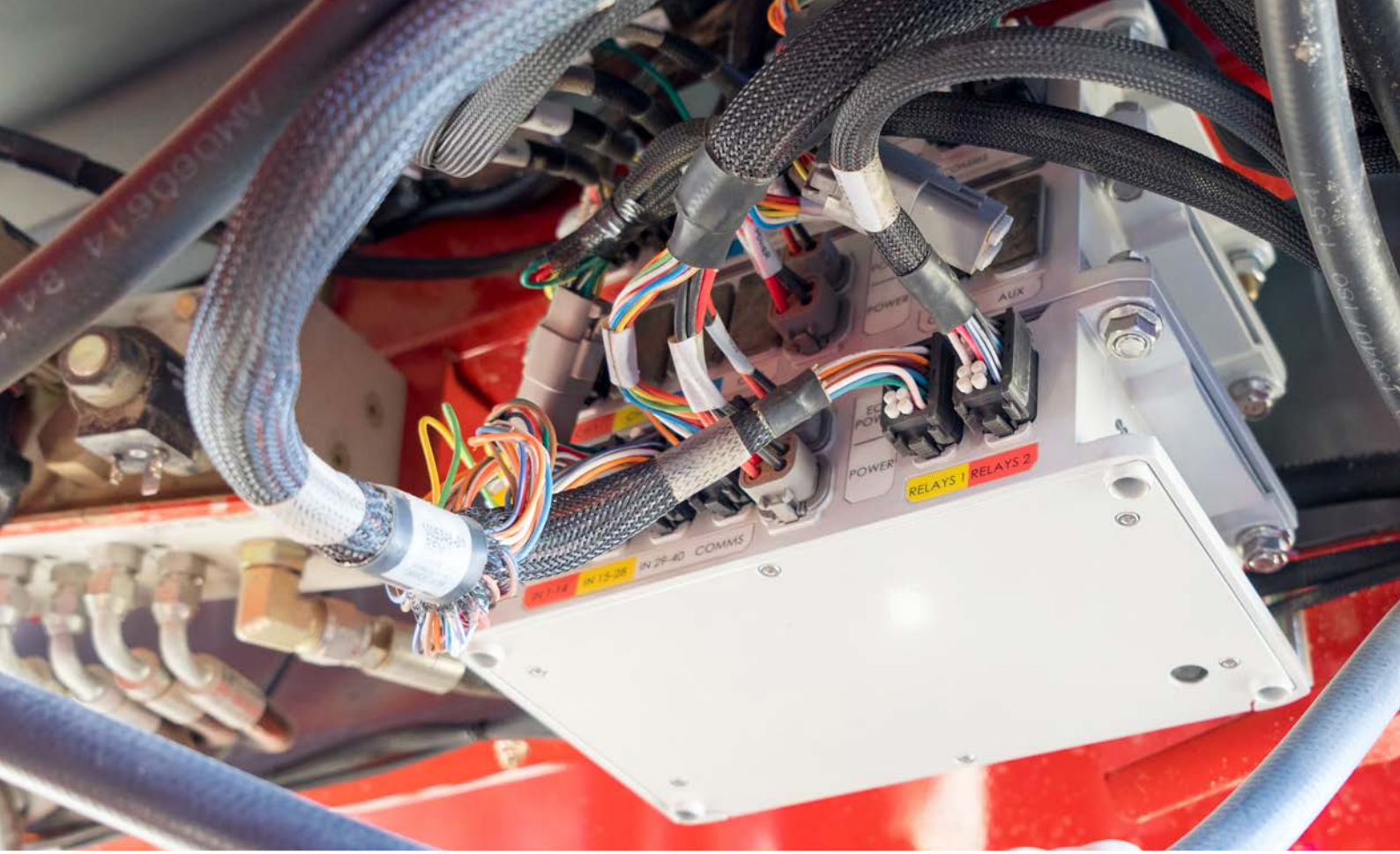
The Topcon X30 console, exclusive with Horizon software, give Apollo an advanced, one touch interface in an easy-to-use, high visibility format for unmatched control in today's market. Combining rate control, path planning, high accuracy GNSS steering and full agronomic data control that will set new standards in the seeder market.

Apollo offers up to eight product control channels and can run Variable Rate Control on all eight simultaneously including liquid, dry and NH_3 . It offers Section Control for dry, liquid or NH_3 on each boom independently, and optional blockage monitoring of 100+ lines.

ISO UT interface for ISO compliant consoles

Full function ISO client feature means Apollo runs on a standard ISOBUS network, allowing blockage features and up to 4 tanks or bins for product control to be displayed on ISO compliant terminals. Additionally, the Apollo Task Controller function supports advanced features, such as variable rate.

The Apollo system is modularized and solid state – no moving parts or solder connections make it very robust and reliable. Simple LEDs make for easy troubleshooting should any problems arise.





Apollo multi task features put you in total control

- Multi-bin or tank rate control of up to 8 tanks with any combination of granular, liquid or NH₃
- Multi-section boom control up to 4 booms with 2 multi-section granular booms (one for seed, one for fertilizer) and 2 multi-section booms for liquid or NH₃
- Multi section booms can each have up to 12 individual sections
- Down force control
- Implement lift/lower



CM-40 Control Module (Master Controller)

- ISO 11783 compliant
- 4 application rate control channels
- Multiple encoder, digital, and analog inputs
- IP69K rated for high pressure, high-temperature wash down
- LED indicators for power, fault and communications



EM-24 Expansion Module (I/O)

- Designed for additional section control and blockage monitoring
- IP69K rated for high pressure, high-temperature wash down
- LED indicators for power, fault and communications
- Controlled by the Apollo CM-40



KP-12 CAN Based Keypad

Offering options for in-cab use during operation as well as on the air cart for calibration. In-cab keypad user assignable buttons control multiple functions: implement lift/lower, increase rate/down force pressure, auto/manual for liquid tanks and more. On-frame keypad can be used for functions outside of calibration such as priming tanks (proportional drive granular only) and lifting or lowering the drill.

Multiple calibration methods

- Manual – Used when operator knows what the calibration factor is
- Automatic – Calibration Wizard calculates factor on single or multiple tanks
- Area Test – Simulates running on a user-selectable area allowing operator to check that the correct amount of product has been metered out
- Weight-based – Starting with a known amount of product in tank, once empty, enter actual weight remaining and Apollo adjusts calibration factor

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