

RAVEN

Simply improving your position.SM

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More precision-based solutions to go with your SmartBoom section control system.

SmartTrax The SmartTrax GPS-guided automatic steering system takes the stress out of driving. This hydraulically controlled system delivers enhanced high-speed operation with best-in-class line acquisition and correction for changes in soil condition and implement pull. SmartTrax is compatible with all Raven guidance systems and field computers—and it comes with automated system calibration for easy start-up and a unique yaw sensor design for longer life and more reliable performance.



SmartRow Adding SmartRow section control to your system can be a smart move all the way around. In fact, SmartRow and SmartBoom use the same control box. You simply use different cables—one set for your sprayer and another for your planter. With automatic on-off control of up to eight sections, SmartRow eliminates costly skips and over-planting while avoiding no-plant zones for faster, more accurate planting. SmartRow also helps you cash in at harvest time with easier harvesting and higher yields. No field computer required—all you need is GPS.



SmartSteer This highly portable and affordable assisted steering system is intelligently designed to keep you on line with convenient hands-free driving. SmartSteer's mechanical gear drive delivers best-in-class line acquisition and operating speeds up to 27 mph. It's simple to install and mounts right to your steering column. You don't even have to remove the steering wheel! And with Raven's Setup Wizard and automated system calibration, you can be up and running in no time.



FIELD COMPUTERS GUIDANCE & STEERING APPLICATION CONTROLS BOOM CONTROLS PLANTER CONTROLS

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Raven: Simply improving your position.SM

Adding Raven to your operation brings an unequaled brand of precision agriculture innovation and performance to your farm.

Imaginative products that are relevant and reliable. A thoughtful approach to solving problems unique to agriculture. Seamlessly integrated systems that simply work — simply.

An incredible depth of human resources: On-the-ground service from Raven Precision Ag Specialists; our customer-oriented product development and support staff; and your local Raven dealer or distributor.

Raven offers a powerful and profitable product portfolio — targeted precisely on what matters most: Reducing input costs. Increasing yields. Saving time and labor. Making better decisions. Enhancing environmental stewardship. Achieving your financial objectives.

It's all about improving your position. Pinpointing exactly where you are in your field. Applying best management practices to grow more with less. Helping you meet challenge, cope with change and capitalize on opportunity. Strengthening your balance sheet.

If you want to farm better, smarter and more profitably, discover Raven. Because improving your position is our highest priority.

SmartBoom™



Automatic boom section control made simple.

(SmartBoom displayed with Cruiser guidance system.)

SmartBoom™

One small step for your sprayer—
one very big step for your bottom line.



SmartBoom is the simple and affordable way to add automatic section control to your application system for greater efficiency and chemical savings. With SmartBoom's automatic GPS-guided on-off section control, you can cash in on faster, more accurate spraying while eliminating costly skips and overlaps—and avoiding no-spray areas. No field computer required. All you need is GPS.

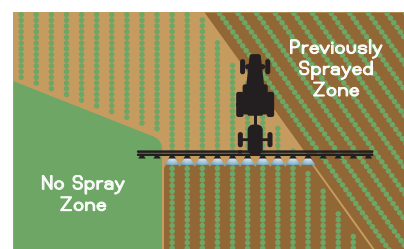
Improved efficiency and savings. With automatic on-off section control for up to 10 sections, SmartBoom helps you put an end to costly skips and over-spraying. It's fast. It's accurate—and it gives you an immediate return on your investment right from the get-go with greater savings* in both time and inputs.

Simple setup and operation. One of the beauties of SmartBoom is you don't need a field computer to run it. All you need is a GPS signal and you're good to go. SmartBoom plugs straight into your Raven Cruiser guidance system or GPS receiver on one end and your Raven SCS spray console on the other. It's simple to set up and simple to operate, putting all the benefits of automatic boom section control to work for you—hassle free.

Just right for your sprayer. SmartBoom automatic boom section control works with most self-propelled and pull-type sprayers on the market. That makes it simple for you, good for the environment and even better for your bottom line.

* Cost savings for SmartBoom automatic section control can vary from 5% to 30% over manual operation, depending on the shape and size of the field, the type of application and the actual equipment/system used.

SmartBoom's automatic boom section control saves you time and money—and can turn your toughest fields into a stroll in the park.



Individual GPS-guided boom section control gives you one of the most accurate and cost-efficient systems on the market, automatically avoiding no-spray zones and previously sprayed areas.

Adjustable look-ahead function with automatic speed compensation lets you adjust your setting easily so each section shuts off and turns on automatically to

avoid skips and overlaps at the end and beginning of every pass.

Adjustable % coverage allows you to determine how much of each boom section must be in a previously applied area, no-spray zone or boundary before that section shuts off. A smart way to eliminate costly skips and overlaps—and maximize your return on investment.

Dual-purpose control box manages section control functions for SmartBoom and also for Raven's SmartRow planter section control system. That means additional savings and convenience—and a greater return on your investment.

Compatible with Raven and third-party spray consoles, including Raven's SCS 440, 450, 460, 660, 4400 and 4600 models—a terrific way to enhance your current spray system with more Raven technology.

Trusted guidance for your SmartBoom system

SmartBoom takes care of turning your boom sections on and off, but you'll need a reliable guidance system to signal when the time and place are right. For that, Raven offers a variety of options to match your guidance needs.



Cruizer: Raven's Cruizer guidance system is simple and affordable—with simple set up, simple operation and convenient transfer from one vehicle to the next.

Key features include a large 5.7" high-resolution touch-screen display, integrated 10 Hz DGPS receiver, integrated lightbar system, multiple field patterns for enhanced operation, easy record keeping and coverage map capabilities, and wireless technology. Today's Cruizer can also run Raven's SmartRow auto-

matic section control system for planters and SmartSteer assisted steering.



Phoenix GPS Receivers: Raven offers a variety of Phoenix DGPS receivers to meet your farming needs—from sub-meter pass-to-pass accuracy to sub-inch/decimeter accuracy. Available features and options for different models include single- and dual-frequency, WAAS, CDGPS and OmniSTAR VBS, HP and XP signal capabilities. Other options include helix-style antenna for tracking satellites low on the horizon, e-Dif correction and more.

Your Raven brand distributor and Precision Ag Specialist can help you decide which guidance system or receiver is best for you.

