PRODUCT CATALOG

RAVEN

FEEDING THE WORLD

Raven Applied Technology delivers impactful technology to growers and custom applicators around the world. From field computers to sprayer and planter controls, GPS guidance steering systems, and wireless technology, Raven provides precision agriculture products designed to reduce operating costs and improve yields.

CONTENTS

Raven's precision ag products and systems fulfill the promise of technology by providing information, control and the opportunity to increase profitability. Select a product that meets your specific needs, or build a precision farming system perfect for your operation.

VIPER® 4+

Tailored for professional applicators

Viper 4+ integrates with Raven's full line of products into one networked platform that offers a capacitive touchscreen and an intuitive, tablet-style interface with swiping features and horizontal or vertical orientation.

Customize your Viper 4+ by user and machine - it's colorblind which means it works with equipment of every brand. Easy job set-up, fewer touches, and greater efficiency allow for extraordinary data management capabilities.

RAVEN OPERATING SOFTWARE (ROS)

Raven Operating Software (ROS) gives operators the ability to customize screen layouts to fit your application and other user preferences. Grower, farm, and field file structures help ensure you get the data you need in an organized and meaningful manner. Machine and product profiles offer even further customization, making the Viper 4+ the perfect match for each unique operation and user.

FEATURES & BENEFITS

- Horizontal or vertical orientation

- Sleek design with 12.1" capacitive touchscreen and intuitive, tablet-like interface and state-of-the-art rugged magnesium alloy enclosure

- Dust-proof for tough environments

- 4 camera inputs for monitoring bin levels, blind spots, roadway operation and more

- Customizable user interface

- Set up machine and product profiles

- On-screen implement location with section status

SLINGSHOT® READY

Powered by Raven Operating Software and a high-speed processor, Viper 4+ harnesses the power of Slingshot for outstanding data management functionality, wirelessly update your field computer software, and increase efficiency with AgSync logistics.

You get powerful logistical tools for complete control of your ag retail operations. Getting the data you need, organizing it and turning it into meaningful information is faster and easier. And Slingshot gives you access to live remote support from Raven's team of experts.

For complete product information on Viper 4+ visit ravenprecision.com/viper4.

#BuiltForGoTime

4

CR7™

The CR7 is a 7-inch lightweight field computer with customizable in-job layouts. A simple widget concept, easily accessible settings, and ISO Universal Terminal and Task Controller capabilities make this mighty unit an affordable, plug-and-play system.

The CR7 is compatible with Slingshot® file transfer and remote support, SmarTrax™ and SmarTrax™ MD autosteering, AccuBoom™, Raven serial consoles, and more.

FEATURES & BENEFITS

- Multiple language support and customizable units
- Ability to access settings page from inside a job
- Map-based navigation
- Auto field boundaries keep you organized automatically
- Interactive field/job list and map view
- Straight A-B, A plus heading, pivot, contour, and last pass guidance
- Sub-meter single frequency GPS and GLONASS (optional external)
- Scalable GPS (optional external)

CR12™

The CR12 is the latest field computer in the CRX display family, joining the CR7. Uniquely, the CR12 offers an extensive field planning feature, allowing the user to define AB-lines and reference lines of the field boundary. The user can then setup the complete field, including multiple headlands, spray tracks, greening zones and tracks with different working widths.

Like the CR7, the CR12 is compatible with Slingshot® file transfer and remote support, RS1™, boom leveling, Raven product control, and more.

CRX SOFTWARE

The powerful CRX operating system user interface features easy job set-up, fewer touches, and greater efficiencies, empowering the user with extraordinary data management capabilities. It boasts a simple widget concept, easily accessible settings, and ISO Universal Terminal and Task Controller capabilities.

FIELD COMPUTER COMPARISON

	VIPER® 4+	CR12™	CR7™
DISPLAY FEATURES			
Screen Size	12.1 inches (30.5 cm)	12.1 inches (30.5 cm)	7 inches (17.8 cm)
Resolution	1024 x 768	1024 x 768	480 x 800
Ratio	4:3	4:3	16:9
Brightness	1200 CD/M2	1200 CD/M2	850 CD/M2
Internal storage capacity	30 GB	30 GB	8 GB
Operating Temperature	-20°C to +70°C	-20°C to +70°C	-20°C to +70°C
Power Supply	4-35 V	4-35 V	7-16 V
IP Rating	IP65	IP65	IP65
Orientation	User Configurable	Landscape	Landscape
Wi-Fi capable	✔	✔	✔
Camera Inputs	4	⚙ (Coming Soon)	
SOFTWARE FEATURES			
Language Support	✔	✔	✔
Street Maps	✔	✔	✔
Guidance Patterns	4	4	4
Single and Multi VRA	🔒	🔒	🔒
Slingshot® Ready	✔	✔	✔
ISO Universal Terminal	✔	✔	🔒
ISO Task Controller	✔	🔒	🔒
Pre-Populated Jobs	✔	⚙ (Coming Soon)	⚙ (Coming Soon)
Job Sync - Live Coverage Sharing	⚙ (Coming Soon)	⚙ (Coming Soon)	⚙ (Coming Soon)
Operation Planning		✔	

✔ Standard Feature   ⚙ Coming Soon   🔒 Unlock/Subscription Required

For a complete comparison and compatibility go to ravenprecision.com/compare.

SLINGSHOT®

Built for Go Time

Slingshot is a suite of connected hardware, software, and logistical services that optimize planning, executing, and recording field applications.

Slingshot delivers unrivaled connectivity to RTK correction signals, online services, sophisticated data management capabilities, precision ag equipment and live in-field support and service.

slingshot®

#BuiltForGoTime   ravenslingshot.com

Job Generator

Setup jobs in the office and dispatch to Viper 4.

- Setup nearly all parameters of an operation ahead of time

- Reduce the risk of a costly misapplication

- Avoid errors and miscommunications

- Ensure operator goes to correct field

- Include the products, rates, field locations and entry points, RX maps

- Compatible with ROS and CRX software platforms for Viper® 4/ Viper® 4+, CR7™ and CR12™

Job Sync

Share live coverage between machines in the same job.

- Keeps everything in sync

- Shared coverage - multiple at once, or one at a time

- Fault tolerant data channel connection for if there is an interruption in network connectivity coverage is a re-synced when connection is restored

- Machine-to-Machine in job status widget so you know who else is currently in or has been in the job

- Joining a job is as easy as starting a regular job

AgSync

AGSYNC DRIVE
Place orders with the streamlined interface or through one of our API partners. Organize and manage dispatch operations visually with order and asset tracking.

OPERATOR PRO
AgSync Operator PRO app provides electronic work orders, priority lists, wireless files transfer and a direct connection from the field to the office.

AGRISITE IPM
AgriSite's iPad and iPhone mobile app allows scouts to log geo-referenced field observations, field note, and pictures.

SLINGSHOT RTK

- Provides reliable RTK corrections streaming
- Compatible with Slingshot RTK Base Stations and CORS RTK Networks
- Cellular delivery overcomes satellite and line-of-site radio limitations
- Patented dual corrections streaming for rapid interruption recovery
- Primary and diversity cellular antennae for superior performance
- Always up to date with remote updates and management
- Requires Slingshot Field Hub or RS1

FLEET VIEW

- A simple tool to see where everything is at a glance
- Each Slingshot device reports it's position every 30 seconds
- Know where your fleet is at all times
- See if they are in jobs, idle, or active
- Keep track of everything with full screen view
- Historical tracking for path recreation
- Route work to the machines that closest to the field

SLINGSHOT LINK

- See what software your field computer equipment is running and send updates right from your desk
- Download latest software directly on your machine – no thumb drives
- Manage software versions from the office
- Stay current on all features and functionalities and maintain a consistent fleet
- Supports Viper® 4/Viper® 4+, CR7™ and CR12™, and RS1™

FILE TRANSFER

- Record and invoice work quickly and accurately
- Get application data back to the office without chasing thumb drives
- Send VRA Maps to field computers
- Invoice your work sooner
- Reduce the risk of data loss

REMOTE SUPPORT

- See exactly what the operator sees and identify the issue more efficiently
- Use as a training tool for the operator
- Live view of field computer display
- Reduce machine down time
- Dealer, owner, and Raven can also log in and help, with permission

HOW TO ACCESS SLINGSHOT SERVICES

- Slingshot Field Hub
- RS1™ Guidance & Steering System
- Viper® 4/Viper® 4+, CR7™, or CR12™ field computers
- RavenSlingshot.com

CHALLENGES FACING GROWERS AND AG RETAILERS

WEED RESISTANCE

Weed resistance is driving the need for more effective and precise application of pesticides.

MISAPPLICATION

Misapplication in the field can lead to field claims or the need to go back and re-apply in certain areas, impacting your profitability and customer satisfaction.

Misapplication costs you time, money, and valuable resources, and can negatively affect crop yields. All of these factors contribute to input costs and the bottom line.

IMPORTANCE OF PRECISION APPLICATION

Ineffective spray application allows insects, weed pressure, or disease to damage crop yield potential.

Wrong or incorrect application rate can stress or damage crop.

Spray drift into adjacent fields results in unintended application and crop damage.

Proper application ensures chemical costs are minimized with less need for re-spraying.

WHY IS SPRAY PATTERN IMPORTANT?

DRIFT REDUCTION

Spray drift occurs when a pesticide moves through the air during or after application to a site other than the intended target.

EVAPORATION

The pesticide needs to sit on the intended target long enough to take effect.

DROPLET SIZE

The droplet size affects both efficacy and spray drift of the application.

WHY IS DROPLET SIZE IMPORTANT?

COARSE DROPS

Too large of a droplet can either roll off the leaf or not have the coverage needed to take care of the pest.

If you don't accurately and efficiently control the pest, you're sacrificing the potential yield of your crops and money in your pocket.

FINE DROPS

Fine spray droplet size, usually less than 200 microns, are the most light, remain airborne for an extended time, and are most prone to drift and evaporation.

The result is application to an area not intended to be treated and field claims to damaged crop.
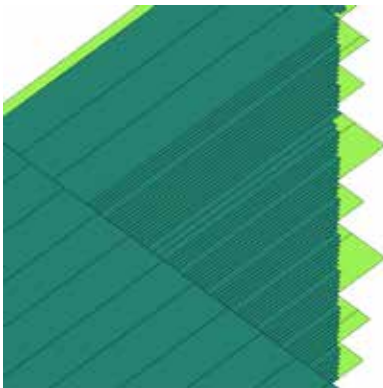
CONVENTIONAL FLOW-BASED SPRAYING

Nozzles and tips are limited in range and effectiveness when used with conventional flow based product control, forcing you to:

▪ Limit machine speed based on nozzle selection, or

▪ Have a less effective application at certain speeds

Strictly flow based spraying does not take into account boom pressure, which at lower and higher speeds will impact spray pattern.

TURN AND HEADLAND COMPENSATION

In addition, not controlling each nozzle by pressure can lead to misapplication when the machine turns.

Without turn compensation, you can over or under apply across the width of the boom, affecting the yield in that area of the field.

Over applying leads to chemical burned crops, while under applying leads to more pests.

SECTION CONTROL AND OVERLAP

A common base system provided on factory installation has 7 sections on a sprayer.

The outer end of the boom can travel up to three times the speed of the machine or inside of the boom when turning.

The inside of the boom gets too much product and the outside of the boom doesn't get enough – both instances are problematic for your crops.

HEADLAND

ACCELERATION

As you come out of the headland and increase speed the rate decreases causing product application deficiency.

HAWKEYE®
NOZZLE CONTROL SYSTEM

PRECISION LIKE YOU'VE NEVER SEEN BEFORE

The Hawkeye Nozzle Control System is ultra-precise. This pressure-based product control system allows for precise sprayer application in a variety of conditions, getting the most out of every nozzle. Each nozzle is controlled by its own individual pulsing valve giving you a consistent spray pattern as speed and conditions change.

The Hawkeye System is built on the ISOBUS communication platform which allows it to work with ISO Task Controllers, including the Viper® 4+.Hawkeye has also been tested for shock, vibration, impact, and weather resistance in rugged terrain and extreme temperatures. Its durability is unparalleled.

FEATURES & BENEFITS

- Precise application rate in a variety of conditions

- Blended pulse application and a wide speed range provides consistent coverage

- Manage protection from drift and evaporation scenarios to effectively make contact with the intended target

- Accurate droplet size and placement while maintaining proper volume of the application

- Ability to program up to 16 virtual sections or shut-off

- Extended range out of nozzle tips while keeping droplet size and spray pattern consistent allowing the operator to drive to the field conditions by extending the limitations set by his machine

- Seal maintenance kit included with each system

- Two-year warranty with registration

- ISOBUS compatible

EASE OF USE

- Simple installation, setup, and calibration

- Fully integrated with machine application control systems that use one display in the cab

- Preset pressure settings allow for quick adjustments on the fly

- Single ECU controls rate, pressure and section shutoff, providing:
  - Ability to switch between Hawkeye and conventional mode
  - Mapping and data logging of each nozzle for more accurate mapping and record-keeping

BASE SYSTEM FEATURES

- Nozzle-by-nozzle turn compensation minimizes over and under applications

- PWM (Pulse Width Modulated) valves give you:
  - Improved pressure consistency and reaction time across the boom, regardless of the flow rate or ground speed
  - Turn compensation
  - Fewer nozzle changes

- Individual valve diagnostics monitor each nozzle

- Up to 16 virtual sections providing more section control and higher ROI than traditional shut-off systems

HAWKEYE HD FEATURES

- Provides individual nozzle on/off with a simple software unlock – no change in hardware required

- Reduces costly skips or overlaps

- Virtual section capability

- Program additional sections for on/off control

- Available with base system – no upgrade needed

- Provides more section control and higher ROI than traditional boom valve configured systems

SECTION CONTROL AND OVERLAP
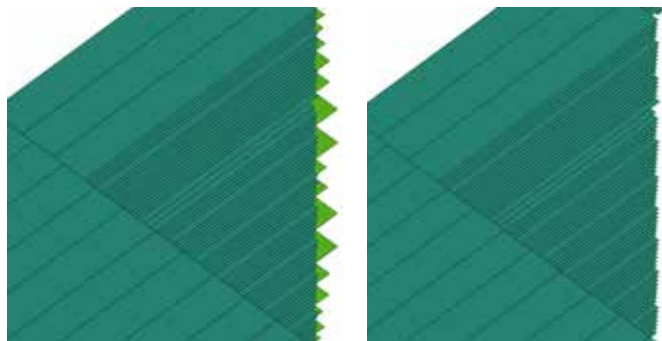
The standard base Hawkeye system along with virtual section unlock provides 16 sections without additional boom valves needed.

Upgrading to Hawkeye HD provides up to 109 sections reducing the amount of overlap.

SIDEKICK PRO™ DIRECT INJECTION COMPATIBILITY

- Inject additional chemicals in the line as needed without worrying about tank mixing or clean-out at the end of the day

- Greater flexibility in your applications so you can handle weed resistance and other challenges

- Pair with Hawkeye and use up to 5 injection systems on one machine through the Viper® 4+

The Hawkeye System is built on the ISOBUS communication platform which allows it to work with ISO Task Controllers, including the Viper® 4+.

TURN AND HEADLAND COMPENSATION
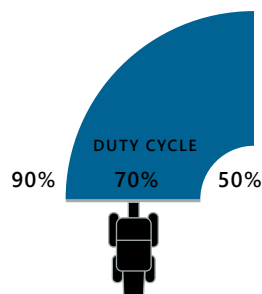
Hawkeye uses turn compensation to minimize over and under applications.

DUTY CYCLE

90%   70%   50%

The turn compensation feature of monitors the position of the sprayer, and once the unit starts to turn or make an arc, the individual nozzle valves adjust their duty cycle to maintain the proper flow for achieving the desired application rate across the entire boom.

HEADLAND

DUTY CYCLE

30%

60%

80%

ACCELERATION
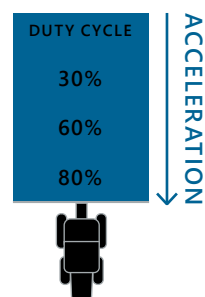
With Hawkeye, as you come out of the headland and increase speed the rate the individual nozzle valves adjust to their duty cycle to maintain proper flow to achieve the desired application rate across the boom.

SIDEKICK PRO™
DIRECT INJECTION SYSTEM

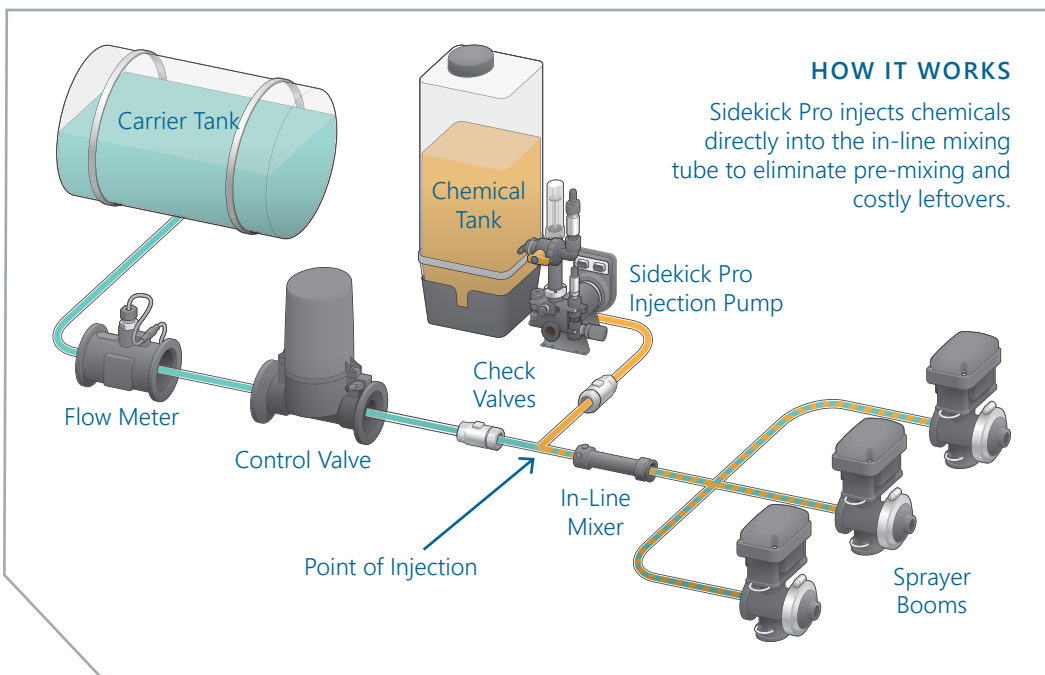*The industry standard in direct injection*

It's the direct injection system that sets a new standard for chemical applications of every type, with unprecedented precision, savings and safety.

Raven's Sidekick Pro direct injection systems help you save time and money on applications of herbicides, insecticides, drift agents and nitrogen stabilizer.

FEATURES & BENEFITS

- Up to 5 units on one machine, allowing easy switching between fields and applications with Hawkeye Nozzle Control

- No pre-mixing, tank mixing, cross contamination or clean out reduces waste from unused product

- Powerful positive displacement pump which injects on the pressure side, closer to the boom, for faster response time

- Eliminates waste for more environmentally friendly practices

- Reduced chemical exposure means additional safety for the operator

- Adjust chemical concentration on the fly rather than spraying more or less of the entire mix

- Gives you greater flexibility with multiple chemicals in applications to tackle weed resistance and other challenges

- Two pump options: the low volume pump with a capacity of 1-40 ounces (0.03-1.2 L) per minute; and the high volume pump with capacity of 5-200 ounces (0.15-6.0 L) per minute

- High resolution encoder that provides smoother pump control and exceptional lock on target rate technology

- Remote closed-system calibration, eliminating the need for calibration catch tests and exposure to chemicals

- Automatic priming feature and real-time diagnostics

- Compatibility with additives that reduce maintenance on your application system

- ISO compatible pump

Sidekick Pro™ ISO
BY RAVEN

HOW IT WORKS

Sidekick Pro injects chemicals directly into the in-line mixing tube to eliminate pre-mixing and costly leftovers.

Carrier Tank

Chemical Tank

Sidekick Pro Injection Pump

Flow Meter

Control Valve

Check Valves

In-Line Mixer

Point of Injection

Sprayer Booms

No tank mixing required —and with the industry's first remote and closed calibration and prime feature, you're ready to go in minutes!

RINSE ASSIST FOR DIRECT INJECTION

- Automatic rinse system that can clean the chemical out with the push of a button
- Three-way valve automatically opens to a rinsing agent tank
- Valve automatically returns to chemical tank position at the end of the rinsing cycle

COMPATIBILITY

	SIDEKICK PRO	SIDEKICK PRO ISO	SIDEKICK PRO ICD
PRODUCT CONTROLLERS			
Raven Product Controller	✓		
ISO Product Controller I		✓	
ISO Product Controller II			✓
Raven RCM			✓
CONSOLES			
Viper® 4+	✓	✓	✓
CR7™ and CR12™	✓	✓	✓
SCS 5000	✓		
SCS 4400	✓		
SCS 4600	✓		
3rd Party ISO Consoles*		✓	

*Subject to 3rd party ISO console capabilities.

RAVEN RATE CONTROL MODULE (RCM)

THE MOST PRECISE APPLICATION CONTROLLER ON THE MARKET

The Raven Rate Control Module (RCM) uses Raven's innovative control algorithms to make it the most precise application controller on the market and your solution for every season. The RCM is an ISOBUS product controller that can control up to five products in one ECU for both liquid and dry applications.

It fits a variety of applications — sprayers, spreaders, NH3 (including AccuFlow™ HP+), air cart and generic applicators, and even planters and seeders.

Sixteen-section control eliminates expensive skips and overlaps for all phases of your operation, from spraying to NH3, and fertilizer application to planting.

USER FRIENDLY

We've simplified the setup, introduced integrated help content, and added advanced diagnostic information to quickly identify issues and reduce costly downtime.

Customizable user interfaces give the operator the flexibility to see and control what fits their needs, and configurable machine profiles allow the RCM to easily move between machines and implements without re-setting machine configurations.

The RCM is compatible with many ISOBUS virtual terminals on the market, including the Viper® 4+, CR7™ and CR12™.

FEATURES & BENEFITS

- Easily navigate and manage multiple products, tallies, and sensor data

- Diagnostic tests and reading to easily calibrate, tune and troubleshoot system

- Compatible with ISOBUS Virtual Terminal and Task Controllers

- Multi-lingual support

- IP 67 environmental rating for the harshest of environmental conditions

- Integrated magnet mount option to easily attach and detach with any metal frame

- Dynamically configure run screen based on operator preferences to show most relevant data during operation

PULL-TYPE AND SELF-PROPELLED SPRAYERS, AND LIQUID FERTILIZER APPLICATORS

- Single liquid product control

- Sidekick Pro™ ICD compatible up to 4 Direct Injection pumps

- Tank fill monitoring

PULL-TYPE AND SELF-PROPELLED SPREADERS

- Rate control up to 4 products

- Section control up to 12 On/Off sections

- Spinner/Fan RPM monitoring and control

- Control auxiliary functions such as gates or oilers

- Pair with 3rd party scale solution for simplified product calibration; includes in-cab monitoring

NH3 APPLICATORS

- AccuFlow™ HP+ Boost Pump

- Rate control up to 2 additional dry or liquid products

- Section control up to 10 NH3 sections; 14 sections total

- Temp sensor option for monitoring and alerting of liquid/vapor state

- Sidekick Pro™ ICD compatible

Utilize the Section Control Remote 2.0 to wirelessly turn on and off the pump, sections or individual nozzles paired with an RCM or Product Controller II ECU. Simply pair the remote with the UT and choose between section or nozzle control mode.

Raven continues to support a downloadable app to control the same functionality while the Section Remote 2.0 is designed for an extended range and connectivity to support diagnostic troubleshooting.

PLANTERS

- Section control up to 32 sections (Flexseeder, Air, Electric or OEM Clutches) with ground drive transmissions

- Seed rate control up to 4 hydraulic motor drivers with turn compensation and up to 24 planter sections

- Seed rate control up to 16 electric or hydraulic motor drives with turn compensation and section control

- Fan/Vacuum pressure, scale, bin level and hydraulic/air down pressure monitoring options

- Liquid/Dry fertilizer add-on control via additional RCM

SEEDERS, AIR CARTS, AND GENERIC APPLICATORS

- Rate control up to 4 products with 16 sections or 5 products with 12 sections

- Section control up to 16 On/Off sections

- Support up to
  - 2 Fan RPM Sensors
  - 6 pressure, bin level and/or shaft sensors
  - Implement height switch

- Scale monitoring and user aided as-applied calibration

- Compatibility with Raven Run Blockage Monitoring (RBM)

- Compatibility with Raven ISOBUS Auxiliary Display for remote catch test calibration

- Independent control of multiple meters per product

ACCUFLOW™

Industry-leading anhydrous ammonia application
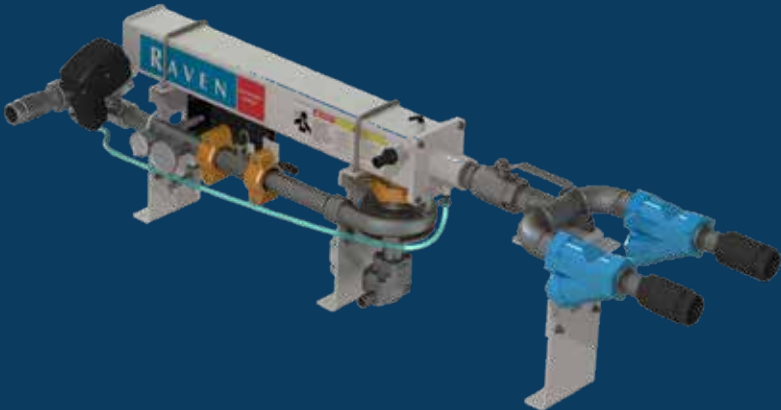
AccuFlow is the most trusted anhydrous ammonia (NH3) application system on the market — and it earned that trust delivering superior accuracy, simple operation and unrivaled reliability.

Paired with your Raven control system, AccuFlow super cooling NH3 technology replaces the dual cooler system providing superior accuracy and control over your applications for higher yields, less waste, and lower input costs.

Raven's advanced NH3 cooler system is now available in stainless steel and with more capacity options!

	ACCUFLOW VORTEX 1-INCH VALVE	ACCUFLOW VORTEX 1 ½-INCH VALVE	ACCUFLOW HP+ WITH VORTEX COOLER
Capacity Range*	3-30+ GPM	3-50 GPM	3-80 GPM
Weight	190 lbs	196 lbs	280 lbs
Tractor Hydraulic Requirement	--	--	12 GPM @ 2,000 PSI
System Working Pressure	250 PSI		
Cooler Relief Vale Setting	350 PSI		
Temperature Range	-30° to +120° F		
Strainer Screen	40 mesh stainless steel		
Fast Valve Open/Close Time	≤ 2 seconds		
System Voltage	12-14.5 VDC		

*Systems were tested at 40°F and 60 tank PSI (Fall conditions).

FEATURES & BENEFITS

- Reduced from 50+ fittings in older dual cooler system to less than 30 fittings for the Vortex cooler

- Gruv-lock couplings
  - Easier maintenance of the Flow Meter
  - Less than 10 min to remove and re-install flow meter
  - Only a single socket 7/8-inch wrench required

- Safety bleed down circuit
  - Positioned at the front of the toolbar and empties into the vapor lines
  - Additional needle valve for bleed down at the flow meter
  - Operator is removed from the point of exhaust

- Faster bleed down - 30 min or less for full bleed down

- Refrigerant Line Y-Strainer
  - I/2-inch strainer placed in the refrigerant or coolant line designed to catch debris before it can reach the orifice of the cooler

HP+ SYSTEM

- Two Stage Valve Control System
  - When flow demand exceeds a fully opened valve, the HP pump is triggered to reach the desired rate

- Dynamic Valve Control
  - The Control Valve is commanded to react at a slower speed for lower rates and at a faster speed for higher rates

STAINLESS STEEL COOLERS

- Compatible kits - same as other coolers

- Stainless steel inner tube and encasement around the inner tube

- Flighting inside the inner tube will not be stainless steel

COMPATIBILITY

	ACCUFLOW VORTEX 1-INCH VALVE	ACCUFLOW VORTEX 1½-INCH VALVE	ACCUFLOW HP+ WITH VORTEX COOLER	DIRECT INJECTION	NUMBER OF SECTIONS	AUTO SECTION CONTROL OR ACCUBOOM	VRA MAPPING	AS APPLIED MAPS	SLINGSHOT® REMOTE SUPPORT & FILE TRANSFER	DIAGNOSTIC TROUBLE CODES	SINGLE SCREEN MULTI-PRODUCT OPERATION
RCM with Viper® 4+	✓	✓	✓	✓	10	✓	✓	✓	✓	✓	✓
RCM with CR7™	✓	✓	✓	✓	10	✓	✓	✓	✓	✓	✓
Raven ISO Node with Non-Raven Display	✓	✓	✓	✓	6	✓*	✓*	✓*			
Raven CAN Product Control with Raven Field Computer	✓	✓	✓	✓	6	✓	✓	✓	✓		✓
4000/5000 SCS Consoles	✓	✓		✓	6						
440/450 SCS Consoles	✓	✓			3/6						

*Operation dependent on unlocks and capability of display.

RS1™

The most powerful high speed steering system in the industry

INCREDIBLE ACCURACY AND POWER

RS1 is a fully scalable GPS solution that combines autosteer, GPS, and Slingshot® into one intuitive, easy-to-use unit. Incredible accuracy at both high and low speeds with quick line acquire improves efficiency and gives you the power to cover more acres in a day.

Best-in-class diagnostics gather machine performance data while you work, alerting Raven of issues and connecting you to support as you need it. The unit is designed with a simple set up and integrated help guides, enhanced further by Slingshot - providing remote support, file transfer, OTA software updates and fleet management and logistics.

RS1 provides multiple methods of system connectivity including Cellular, Wi-Fi, or Ethernet.

SLINGSHOT® READY

Get unrivaled high-speed wireless connectivity, cellular-enabled technology, uninterrupted signals/data transfer, industry-leading wireless RTK corrections and vehicle tracking. And Slingshot gives you access to live remote support from Raven's team of experts.

FEATURES & BENEFITS

- Compatible with Viper® 4+, CR7™ and CR12™ field computers
- Remote performance monitoring and support through Slingshot®
- Enhanced Steering Performance in a wide range of terrain
- Enhanced 3D compensation for rugged terrain
- Simplified Field Calibration Procedure
- Enhanced Diagnostics and Health Tests
- Serial GPS Output (NMEA 0183) or Radar Output
- Multi-lingual support
- Compatible with both ISO Steer Ready and Raven Aftermarket Steering Controllers
- Wide temperature range for inertial sensors (-40° to +70°C)
- Fully scalable GPS solution

SC1™ STEERING

SC1 coupled with a Raven field computer and GPS solution of your choice is designed to provide cutting-edge, hands-free machine steering. Incredible accuracy at both high and low speeds with quick line acquire improves efficiency and gives you the power to cover more acres in a day.

With similar functionality and user interface as RS1, the unit is designed with a simple set up and integrated help guides. The compact ECU can easily be installed in the cab and out of site. Compatible with Viper® 4/Viper® 4+ with or without internal GPS, and CR7™ and CR12™ field computers. Visit ravenprecision.com for more information.

AUTOBOOM® XRT

Automatic and effortless control

Raven's latest advancement in boom control is AutoBoom XRT. Industry-leading radar sensor technology uses simultaneous ground and canopy detection to maintain optimal spray height for maximum product efficacy.

Pressure-based control allows for smooth movement and quicker reaction time while center rack stability technology with optional dampers gives the operator complete control, maximizing boom life.
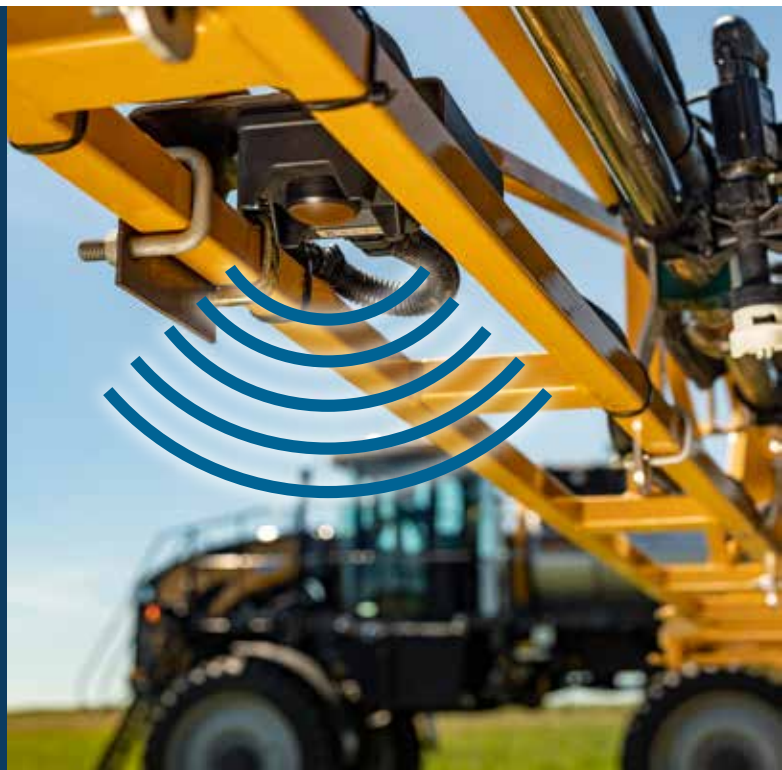
WHY IS BOOM HEIGHT IMPORTANT?

DRIFT

Having the boom too high will lead to spray drift.

CROP DAMAGE

Having the boom too low can damage crops.

BOOM DAMAGE

Damaging the boom when running into the ground is a costly fix and causes machine downtime.

RADAR SENSOR TECHNOLOGY

- Simultaneous ground and canopy detection

- Enables a larger maximum distance measurement, not affected by temperature or spray drift

- Five non-contact sensors come standard with the option of adding an additional two sensors

FEATURES & BENEFITS

- Full boom management solution maintains optimal spray height for maximum product efficacy

- Faster Sampling and Update Rates than standard ISO AutoBoom

- ISOBUS compatible

- Weather-proof for tough environments

- Center rack stability technology with optional dampers:
  - Pressure-based for smooth movement and quicker reaction time
  - Machine chassis roll sensing
  - Complete control maximizes boom life

R A V E N