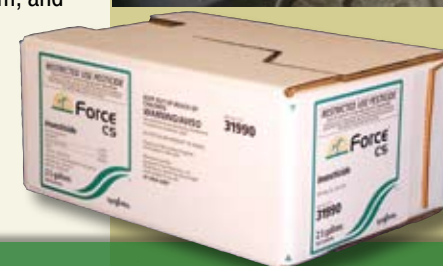


Superior Control of Corn Rootworm

Force CS is the new soil-applied insecticide from Syngenta designed to deliver consistent performance in an advanced, convenient liquid formulation. For more than 20 years, growers have trusted the performance of Force 3G for superior control of corn rootworms as well as troublesome early-season pests. Now, with Force CS, you can achieve the same top-rated performance as Force 3G in an easier-to-use liquid formulation.

Corn rootworms are a growing problem. Left uncontrolled, they can affect plant health and ultimately yields — and not just in your corn-on-corn acres. Many areas are seeing the highest corn rootworm infestations in first-year corn. And adding to the problem are corn rootworm larvae that over winter in soybean fields to hatch when the field is rotated back to corn. Once known to be a recessive trait, this is now the dominant trait among corn rootworms. In addition, some corn rootworm populations can lay dormant for nearly two years waiting for corn to return to the field.

Force CS has been shown to be highly effective in heavy pressure zones. Use it for full-field control or refuge acre management. It also is the premier product for controlling early-season pests such as white grub, wireworm, and cutworm. Bt hybrids offer no control of early-season pests and, like treated seed, may not perform well in areas with high corn rootworm infestations.



Force CS is the first and only liquid insecticide packaged in an easy-to-handle, easy-to-install box. Within the box is a valved 2.5-gallon bag of concentrated insecticide.



You'll love the convenience, simplicity, and safety of the unique, patent-pending packaging. The size and weight make the boxes easy to store, easy to haul, easy to move, and easy to install. Perforated openings make removing the nozzles a snap — even while wearing safety gloves. And when compared with dry insecticide, you won't worry about — nor breathe — any dust that's kicked up by the wind while loading.



Virtually all of the insecticide is drawn from the bag — so there's no need to return empty boxes to your retailer. You simply dispose of them per your local guidelines. And if you don't use up all of the insecticide in one day, just keep the box loaded in the cabinet for the next day.

The Central Force of Your Planting Operation

THE CENTRAL INSECTICIDE SYSTEM AND FORCE CS AREN'T JUST DESIGNED TO WORK TOGETHER — THEY'RE SPECIFICALLY DESIGNED TO WORK WITH YOUR PLANTING OPERATION.

Capacities of the insecticide, insecticide cabinet, and water tank are sized so you can plant for hours without stopping. After all, when you're in a hurry to get your crop in, you don't want to waste any time filling, calibrating, and washing up.

You can carry up to 20 gallons of Force CS at a time. Apply eight to 10 ounces per acre for corn rootworm and early season pests such as cutworm, white grub, or wireworm. When applying the maximum of 10 ounces per acre, you can cover 256 acres before needing to refill the cabinet. Take a look at the chart to the right to see how many acres you can cover on a single tank of water.

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DSAA39582 Litho in U.S.A. (07-07)

SCP 186-00002-A

Planter	Water capacity	Acres per fill of water (rate = 2 gallons [7.57 L] per acre)	Acres per fill of insecticide (rate = 10 ounces [0.23 L] per acre)	Central Commodity System Capacity	Refuge Plus Capacity	Total Seed Capacity
30-foot 1790	225 gallons (852 L) in one frame-mounted tank	113 acres	256 acres	70 bu.	25 bu.	95 bu.
40-foot 1790	280 gallons (1,060 L) in four 70-gallon (265 L) wing-mounted tanks	140 acres	256 acres	100 bu.	25 bu.	125 bu.
12row30 1770NT	225 gallons (852 L) in one frame-mounted tank	113 acres	256 acres	70 bu.	25 bu.	95 bu.
16row30 1770NT	300 gallons (1,136 L) in one frame-mounted tank	150 acres	256 acres	100 bu.	25 bu.	125 bu.
24row30 1770NT	450 gallons (1,703 L) in one frame-mounted tank	225 acres	256 acres	100 bu.	25 bu.	125 bu.
DB80	420 gallons (1,590 L) in one frame-mounted tank	210 acres	256 acres	100 bu.	25 bu.	125 bu.
DB90	420 gallons (1,590 L) in one frame-mounted tank	210 acres	256 acres	100 bu.	25 bu.	125 bu.

Note: Acres per fill of seed vary based on target population.



The CIS monitor gives you easy control over application rates and which sections of the planter are applying insecticide. It also lets you keep track of water and chemical usage and warns you when you start to run low. The monitor is tied into your planter's monitoring system, so it automatically adjusts the application rate to match your operating speed for consistent application. It also helps save worry and costly application errors. Dry boxes don't offer this level of accuracy and efficiency.

The CIS is available as a factory-installed option or a kit for field conversion. It's compatible with the following planters:

- 1770NT Planters: 12-, 16- and 24-row models on 30-inch spacing with Pro-Series™ row units and the Central Commodity System (CCS)
- 1790 Planters: 30- and 40-foot models on 30-inch spacing with Pro-Series row units and CCS
- DB80 Planters on 30-inch spacing with Pro-Series row units and CCS
- DB90 Planters on 30-inch spacing with Pro-Series row units and CCS

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www.JohnDeere.com/Ag
www.ForceCS-insecticide.com

NEW CENTRAL INSECTICIDE SYSTEM™ FOR USE WITH NEW FORCE® CS



The Central Force of Your Planting Operation

Complete corn insect control in an advanced liquid formulation, advanced application system

Central Insecticide System™

Syngenta **FORCE® CS**

AVAILABLE EXCLUSIVELY FOR SELECT JOHN DEERE 1770NT, 1790, DB80, AND DB90 PLANTERS

Introducing Central-Fill for Fast, Convenient Corn Rootworm Control

BECOME MORE EFFICIENT DURING THE PLANTING SEASON WITH THE NEW CENTRAL INSECTICIDE SYSTEM™ AND FORCE® CS.

Designed to work together, this revolutionary closed-handling system gives you efficient, hassle-free corn rootworm control, plus legendary John Deere CCS planter productivity. You'll spend less time filling and more time planting and protecting your crop. Which means you'll cover more acres in a day to finish faster.

It starts with the leading defense against corn rootworm that's now available in a new advanced, liquid formulation — Force CS. You simply load the Force CS boxes into the cabinet of the Central Insecticide System (CIS) and fill the frame-mounted tank with water. That's all there is to it. No measuring and manual mixing of chemicals. And when compared with dry insecticide, there are no hoppers on every row unit to fill — which means you'll drastically reduce the time spent handling several insecticide containers.

An in-cab monitor gives you continuous display of application rates, water and chemical usage, and control over which sections of the planter are applying insecticide. It's fully integrated with your planter, so it automatically changes application rates to match operating speeds and shuts off rows when seed delivery is stopped. This helps eliminate costly application errors.

Factor in the productivity-boosting Central Commodity System with the proven reliability of John Deere planters, and you'll quickly see that you've got the bulk-fill capacity to plant and apply insecticide for hours without making a single pit stop. It's a one-point load-and-go system that's faster than ever. That's the central force of your planting operation.



Here's how the CIS works. (1) Load up to eight boxes of Force CS in the insecticide cabinet and (2) fill the tank with water at (3) the fill line. An electric pump at the pump and valve assembly (4) draws Force CS out of the boxes and injects it into the water at the hydraulic water pump. The solution is then delivered to (5) the flow meters on each wing, and then to (6) the individual row units where it is applied via direct injection in a T-band over the furrow. Because Force CS is mixed in the pump, rather than a tank, you don't have to worry about the product settling at the bottom of the tank, nor uneven application rates. You get a consistently mixed solution, pass after pass, acre after acre.

Split-planter or strip refuge. The CIS lets you easily comply with refuge acre management requirements and apply insecticide only as needed — which can save you money. You can shut off insecticide delivery to half the planter for split-planter refuge planting, or you can apply insecticide just to refuge rows (if your planter is outfitted with Refuge Plus). If you're planting Bt traits, you must adhere to the Environmental Protection Agency (EPA) standards for refuge management, which state that 20 percent of planted acres must be a conventional corn hybrid. Insect resistance management (IRM) IRM requirements suggest a minimum of four rows together.



A closed calibration system makes setting the entire system as easy as 1, 2, 3! Just remove the indicator cap, push the plunger down, replace the cap, and flip the calibration switch. When properly calibrated, the black line on the plunger will align within the markings on the cap. There's no need to catch pure insecticide in a jug, and no need to measure for calibration. That means you're never exposed to the chemical while calibrating.

Spray nozzles — unique to the CIS — apply the solution in a T-band over the furrow. The nozzle reduces drift and sprays close to the ground so the solution won't get on the seed tube or the closing wheel. Made of polyacetal material for durability.



A quarter-inch flexible line delivers the solution to the spray nozzle within the row unit.



Flow monitors are mounted on each wing to give you confidence and peace of mind. With a quick glance from the tractor, you can check to see the orange balls floating up — which means the solution is being delivered to each row unit.



Three mesh strainers protect the system from contamination and prevent blockage. There's one strainer for the insecticide, another for the water, and — within each spray nozzle — a final one for the solution. The water strainer is a 110-mesh filter, insecticide is 20 mesh, and solution is 100 mesh. Cleaning the screens is simple. Just unscrew the assembly, remove the screen, and rinse out.

Load and go

Loading Force CS is fast and easy. Just tear the perforated opening from the boxes, remove the nozzles and seals, slide the box into the insecticide cabinet, and then connect the hoses. That's all there is to it. Best of all, you don't have to work the entire width of the planter: you fill the planter at one, easy-to-reach location. The cabinet is made of fade-resistant polyethylene for durability.



The pump and valve assembly includes an electric pump to draw Force CS out of the boxes and a hydraulically driven water pump. The water pump is made of cast iron for durability. Once the insecticide flows through the mesh strainer, it is injected into the water.



The water tank is mounted on the frame (left) of the 1770NT, 30-foot 1790, DB80, and DB90 planters, while the 40-foot 1790 has four smaller tanks mounted on the wings (right). Tanks are made of the same fade-resistant polyethylene material as the seed tanks for durability and easy visibility of the tank level.



Filling the water tank is done at the stairs. Just connect the two-inch fill line to your water source. The fill line gives you simple, one-point filling if your system has more than one water tank. The fill line also doubles as a wash station so you can quickly rinse off safety gloves or rinse the mesh strainers.



Three section valves let you turn insecticide delivery on and off to different sections of the planter based on the seed being placed — the left or right wing for half- or full-width coverage, or just the refuge rows. You control the section valves using the in-cab monitor, so there's no need to stop and manually shut off individual spray nozzles. In addition, the section valves communicate with your planter: if you stop seed delivery to the right side of the planter, insecticide delivery is shut off as well.



A clean-out hose mounted in the door connects to each tube so you can flush insecticide from the system. You also can use it to run antifreeze through the system before storing the planter over winter.