

NEW LEADER. EDGE 4



- **PRECISION APPLICATION**
- **NEW LEADER USER INTERFACE**
- **PRECISION MANUFACTURING**
- **ADVANCED HYDRAULICS**

NL4500

**CROP NUTRIENT
APPLICATOR**

 **nutrient
stewardship**

INTRODUCTION

Responsible nutrient management is available in a dry nutrient application machine. The NL4500 with G4 Edge technology from New Leader combines productivity and efficiency with precision and control. The Edge technology is the right choice for crop nutrient application.



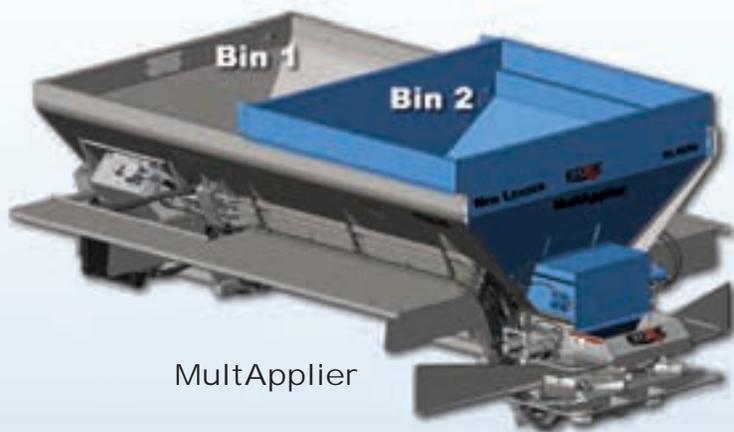
- ✓ **Right Source** Match nutrient and micronutrient type to crop needs with the ability to apply up to four products at once.
- ✓ **Right Rate** Variable rate to match the right amount of nutrients to crop needs.
- ✓ **Right Time** Apply nutrients responsibly at the right time with greater efficiency and productivity.
- ✓ **Right Place** Position nutrients where crops need them while keeping them out of sensitive areas.



PRECISION APPLICATION

The new NL4500 Edge variable rate dry nutrient applicator utilizes patented G4 spinner technology, which is proven to spread materials faster, wider, and more consistently. In addition, the advanced Edge now features precise boundary spreading along with many other features.

Equipped with dual RPM sensors and dual pulse width modulation (PWM) valves, the Edge will maintain a precise RPM on each individual spinner. With control capable of less than 5 RPM difference between each spinner, you will have the opportunity to dial in the exact speed setting to achieve maximum distance and control over whatever product is being applied. Flip a switch and the Edge allows operators to apply materials along a boundary line, resulting in improved nutrient placement leading to improved yields.



MultApplier



MultiBin

Increase productivity and reduce operating expenses by adding a 5 ft or 7 ft **MultApplier** insert to the Edge. The addition of a MultApplier allows the operator to spread one or two products simultaneously or at variable rates in one pass. Featuring increased gate openings, the Edge with MultApplier insert can reach higher rates, application speeds and widths. Additionally, the improved waterfall divider and matched-rate output of the MultApplier is now standard on the Edge and supports even higher rates of output.

When looking to include micronutrients to your application, the **MultiBin** is also available for spreading up to four products in one pass. That means more flexibility for a wider variety of micronutrient applications.

NEW LEADER USER INTERFACE

The NL4500 Edge is equipped with an ISOBUS system for easy “plug and play” through standardized plugs, cables and software for use with any compatible controller. The intuitive, easy-to-use New Leader user interface will appear once the system is connected to a virtual terminal. This minimizes the need to learn how to operate multiple displays.



Control Modules

ISOBUS 11783 is standard protocol for all models of the Edge series. With the advanced technology of the ISOBUS capabilities, there is a need to learn only one system. The intuitive software is likewise convenient in cutting down on the time to troubleshoot.



New Leader User Interface

The ISOBUS system allows the Edge to include other features such as diagnostic feedback, automated service notifications, boundary spreading, a feed gate optimizer, low bin countdown, automatic chain oiler, and more. The Edge ISOBUS system can also be expanded to control multiple bins.

Behind the user screen, New Leader installed electronics are in control of all the spreader functions and ensures the fastest reactions and best response. All spreader electronic controls will come complete with each machine.



ISOBUS Connections

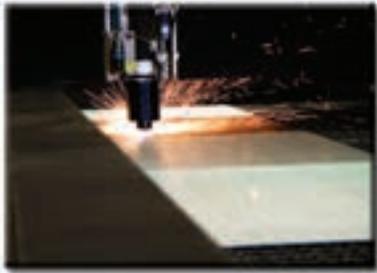
All cabling and controls are tested at the factory. Cabling is professionally routed and tailor-made for the machine.

Control of the spreader functions are consistent and supported through New Leader. New Leader tests and installs the ISOBUS system for assured reliability and performance.



PRECISION MANUFACTURING

Precision application starts with precision manufacturing and New Leader has designed and manufactured the Edge to create the optimal spread pattern. Precision manufacturing is used to remove adjustments on the Edge to ensure the best results in the field.



Laser Cutting Technology

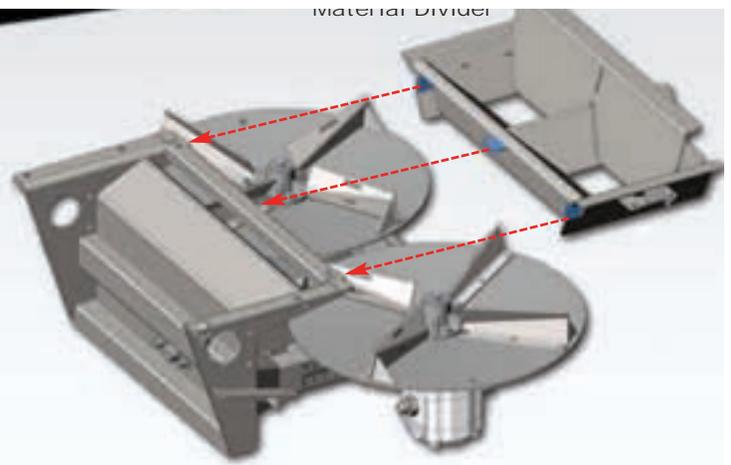
With these precision improvements, the material will maintain a consistent drop point which creates repeatable product placement. With minimal adjustments required, the NL4500 is a considerably easier machine to maintain.

New Leader products operate in the harshest environments. To aid in resisting corrosion, the Edge comes complete with 304 stainless steel cross tubes, mounts and take-up brackets. These quality enhancements maintain the integrity of key machine components that can see the greatest deterioration over time.

Additionally, when it comes to performing service work, New Leader continues to find ways to make it easier and simpler for you to perform required service. The front and rear grease banks on the Edge make greasing the machine simple and efficient.



Front & Rear Grease Banks



Slot & Tab Design

Using laser cutting technology and slot and tab design, the Edge features self-centering components such as the spinner frame and material divider. The hillside divider can be flipped out of the way for lime spreading, which leads to maximum flow and can be returned to the same position without use of tools.



Flip-up Hillside Divider



304 Stainless Steel Cross Tubes & Take-up Brackets

ADVANCED HYDRAULICS

The Edge features an upgraded hydraulic system that supports precise independent spinner speed control, fast and exact conveyor control, and automatic chain tensioner. The chain tensioner maintains the proper chain adjustments and has automatic lubrication alerts after every 10 hours of conveyor run time; both help extend the life of the conveyor. With continuous tension on the conveyor, this reduces maintenance, and extends the conveyor life.



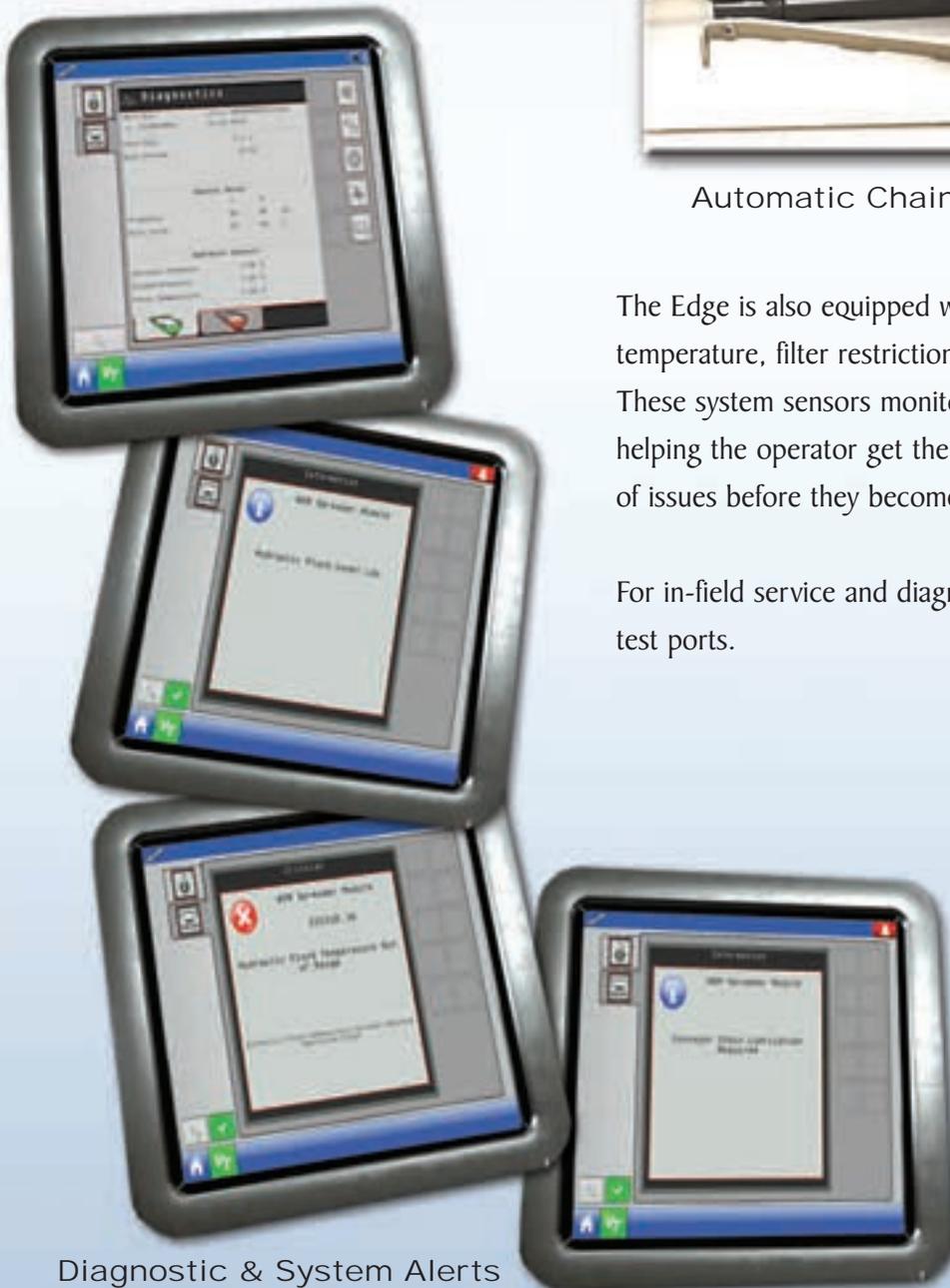
Valve Assembly



Automatic Chain Tensioner

The Edge is also equipped with sensors to monitor fluid level, temperature, filter restriction, and conveyor and system pressure. These system sensors monitor hydraulic conditions and performances, helping the operator get the most from the machine and alerting of issues before they become larger.

For in-field service and diagnostics issues, the Edge includes multiple test ports.



Diagnostic & System Alerts



Edge Single Bin



Edge MultApplier



Edge MultiBin

NUTRIENT STEWARDSHIP

Responsible nutrient management includes New Leader. The NL4500 Edge gives you the right technology from the right company at the right time. As you consider ways to incorporate the 4R's of nutrient stewardship into your business, think the Edge.

NEW LEADER.
EDGE
4
CROP NUTRIENT APPLICATOR

COMPANY OVERVIEW

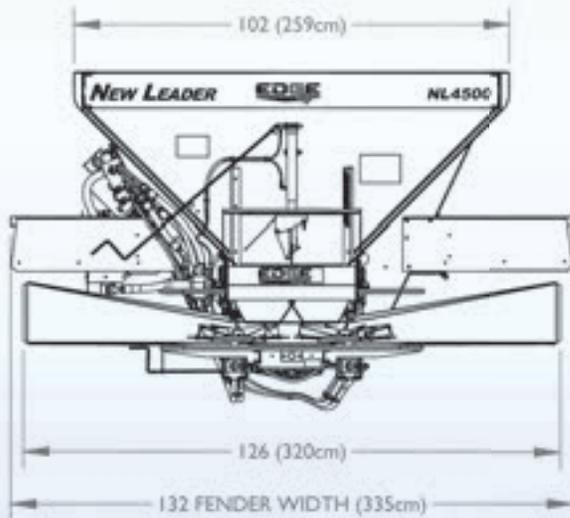
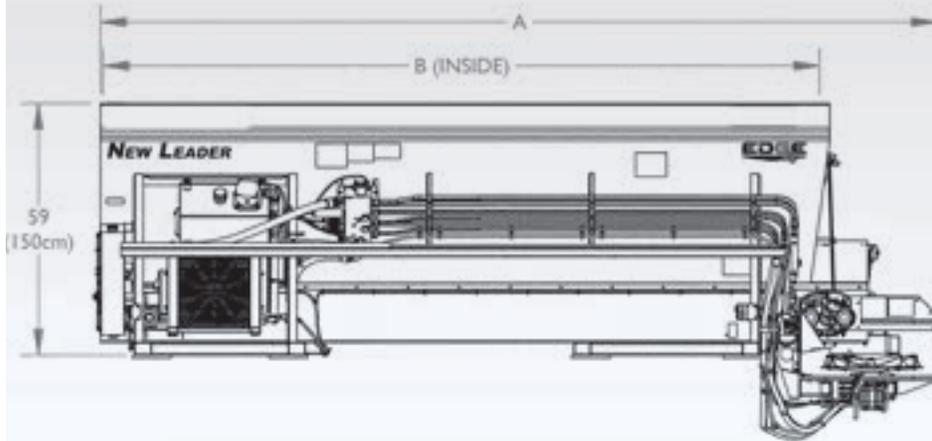
Since 1939, Highway Equipment Company has had one goal: to build the best. Our long-standing history has made New Leader the leading brand of crop nutrient applicators. New Leader products are manufactured in our state-of-the-art facility in Cedar Rapids, Iowa. For more information or to schedule a tour, visit our website at www.highwayequipment.com.

Building the best since 1939.



NL4500 Specifications

Dimensions and Capacities



Cab To Axle (CA) Measurement: Please consult federal, state, and local weight laws and chassis manufacturer's ratings to ensure neither government weight restrictions nor the GVWR and GAWRs are exceeded. Tire and tandem axle size may require mounting modification of optional mud flaps.

OVERALL LENGTH	A in (cm)
12' (3.66m)	172 (437)
13' (3.96m)	184 (467)
14' (4.27m)	196 (498)
15' (4.57m)	208 (528)
16' (4.88m)	220 (559)
BODY LENGTH	B in (cm)
12' (3.66m)	144 (366)
13' (3.96m)	156 (396)
14' (4.27m)	168 (427)
15' (4.57m)	180 (457)
16' (4.88m)	192 (488)
STRUCK CAPACITY	Cu Yd (Cu M) [Cu Ft]
12' (3.66m)	9.3 (7.11) [251]
13' (3.96m)	10.11 (7.73) [273]
14' (4.27m)	10.93 (8.35) [295]
15' (4.57m)	11.74 (8.98) [317]
16' (4.88m)	12.56 (9.60) [339]
ESTIMATED WEIGHT (DRY)	lbs (kg)
12' (3.66m)	4324 (1961)*
13' (3.96m)	4544 (2061)*
14' (4.27m)	4720 (2141)*
15' (4.57m)	4911 (2228)*
16' (4.88m)	5202 (2360)*

* Includes inverted V, hillside divider, fenders, spinner, spinner guards, deflectors, and #4 belt-over-chain in addition to standard components (as shown).



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