



# NL4560G4 Edge

## Walk-Around Guide



Building the best since 1939. New Leader Manufacturing is family owned and operated. Our business is built on honesty and integrity. We have a passion for what we do, and we firmly believe that we can make a better tomorrow by building the best today.



The leading brand of dry spinner spreader crop nutrient applicators, used to spread fertilizer, lime, and micronutrients. We partner with leading manufacturers to develop customer driven solutions.

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# Walk-Arounds

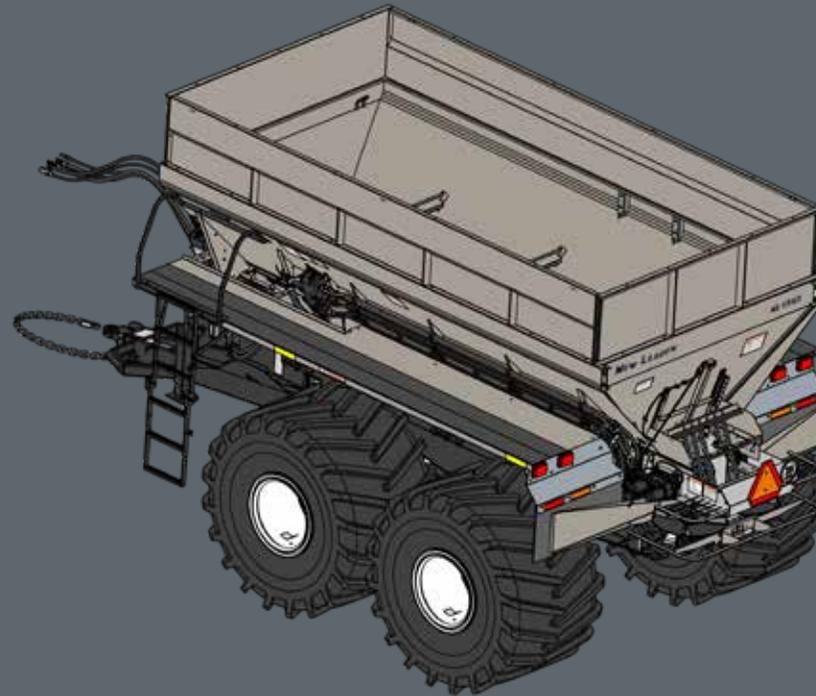
## Key Points

With so many new and updated features, the Edge capabilities should be properly shown to highlight the customer value. The value of the Edge revolves around 3 key items:

- Precision Application
- Ease of Use
- Ease of Maintenance



# Specifications



NL4560	
<b>Body Length</b>	<b>in (cm)</b>
16' (4.88m)	192 (488)
<b>Overall Length</b>	<b>in (cm)</b>
24' (7.32m)	288" (732)
<b>Struck Capacity</b>	
608 ft <sup>3</sup>	17.2 m <sup>3</sup>
16 ton	with 54 lb/cu ft material
<b>Estimated Weight</b>	
20,780 lbs	9425 kg

## Overview

### The Ultimate in Precision

The NL4560 is a pull-type spreader intended for spreading free flowing granular agricultural materials, such as chemical fertilizers and compost. It comprises of a specialized NL4500G4 EDGE spreader and a TR3000 trailer, giving operators the power of precision application and versatility.

This is a machine that makes repeatable, responsible nutrient management possible—with a mobility that's unmatched in the industry. Advanced hydraulics make it easy to connect and disconnect, so operators can easily put New Leader technology where they want it. More control comes from independent spinner speed and monitoring plus the capability for boundary spreading.

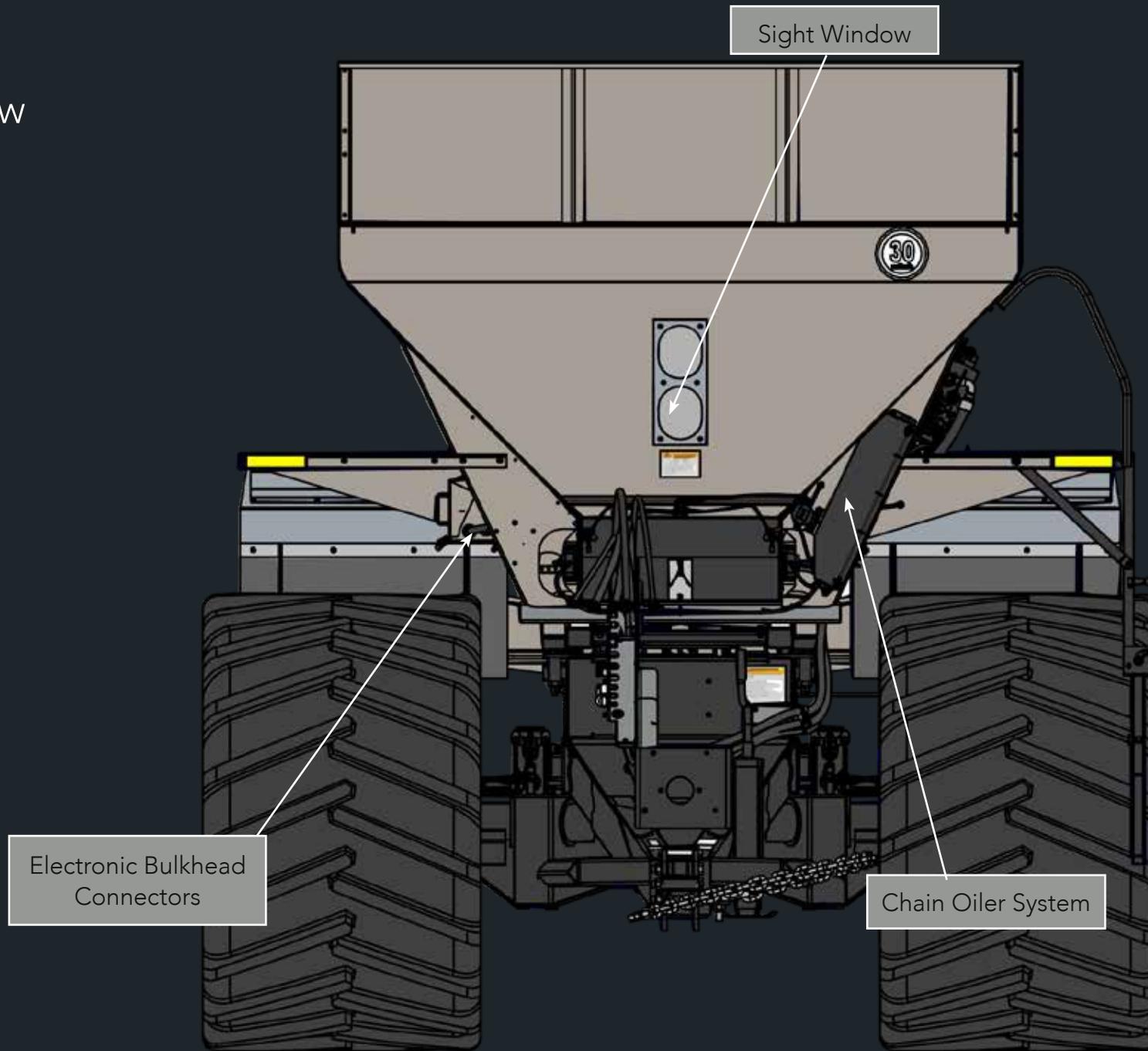
The TR3000 is an agricultural implement flotation trailer designed for attachment to specially equipped tractors by means of a category 4 receiver hitch. The TR3000 is equipped with hydraulic brakes and walking beam suspension.

The unit is powered hydraulically and provides independent variable speed control for the spinners and full automatic ground speed control for the conveyor.

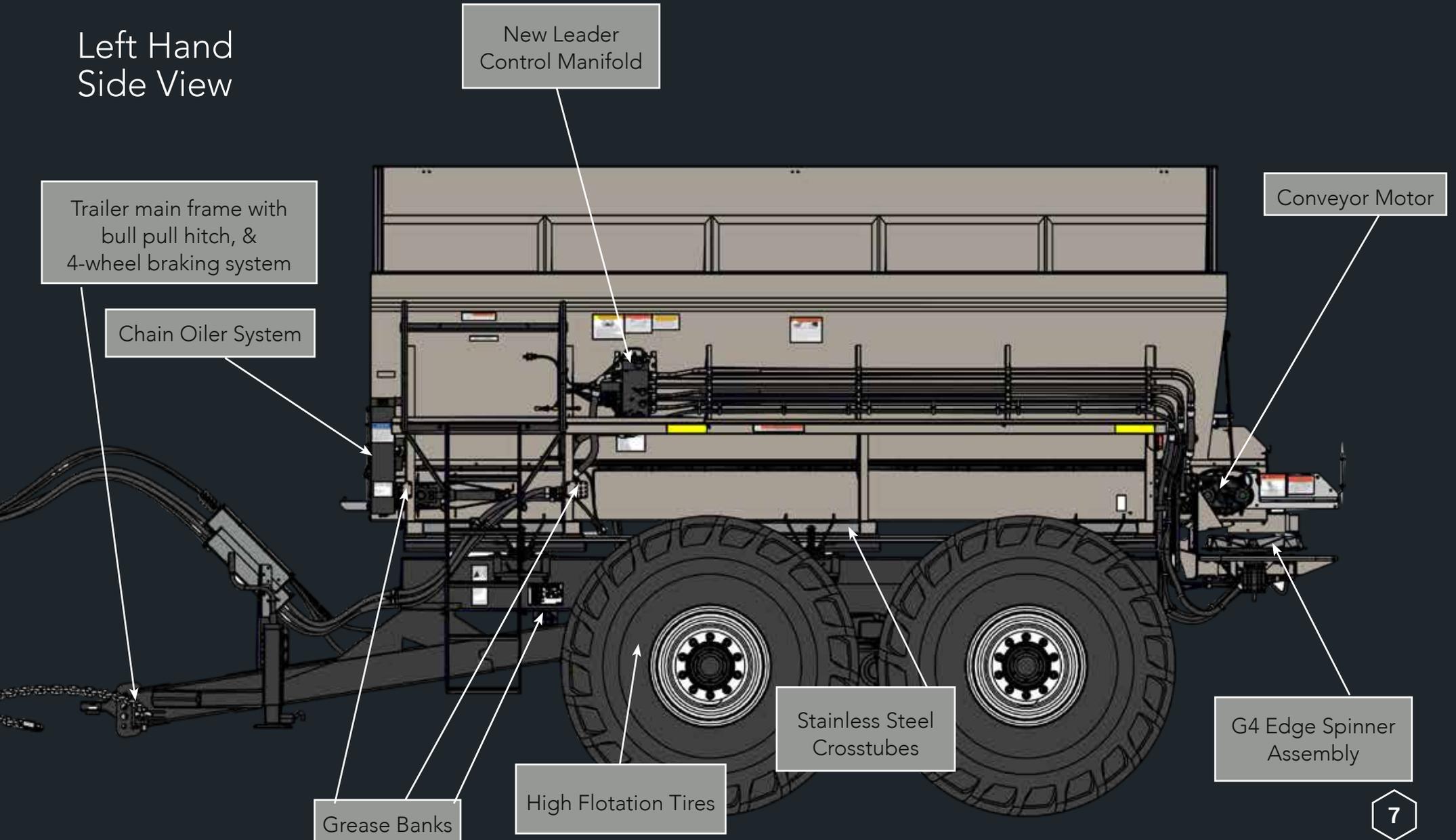
The 30-inch wide conveyor delivers material to the spinners through an adjustable metering gate at the rear of the hopper body. Hydraulic motors mounted to 6-to-1 ratio gear case drive the conveyor. The #4 belt-over-chain (BOC) type conveyor consists of parallel strands of pintle-type chain joined by cross bars every other link with moderately oil resistant (MOR) belting fastened to each bar.

The spinner assembly has two 24-inch diameter dished discs. Each disc has four formed and heat treated fins that are adjustable to radial angle. The spinner assembly features independent spinner speed control, allowing for boundary spreading capabilities.

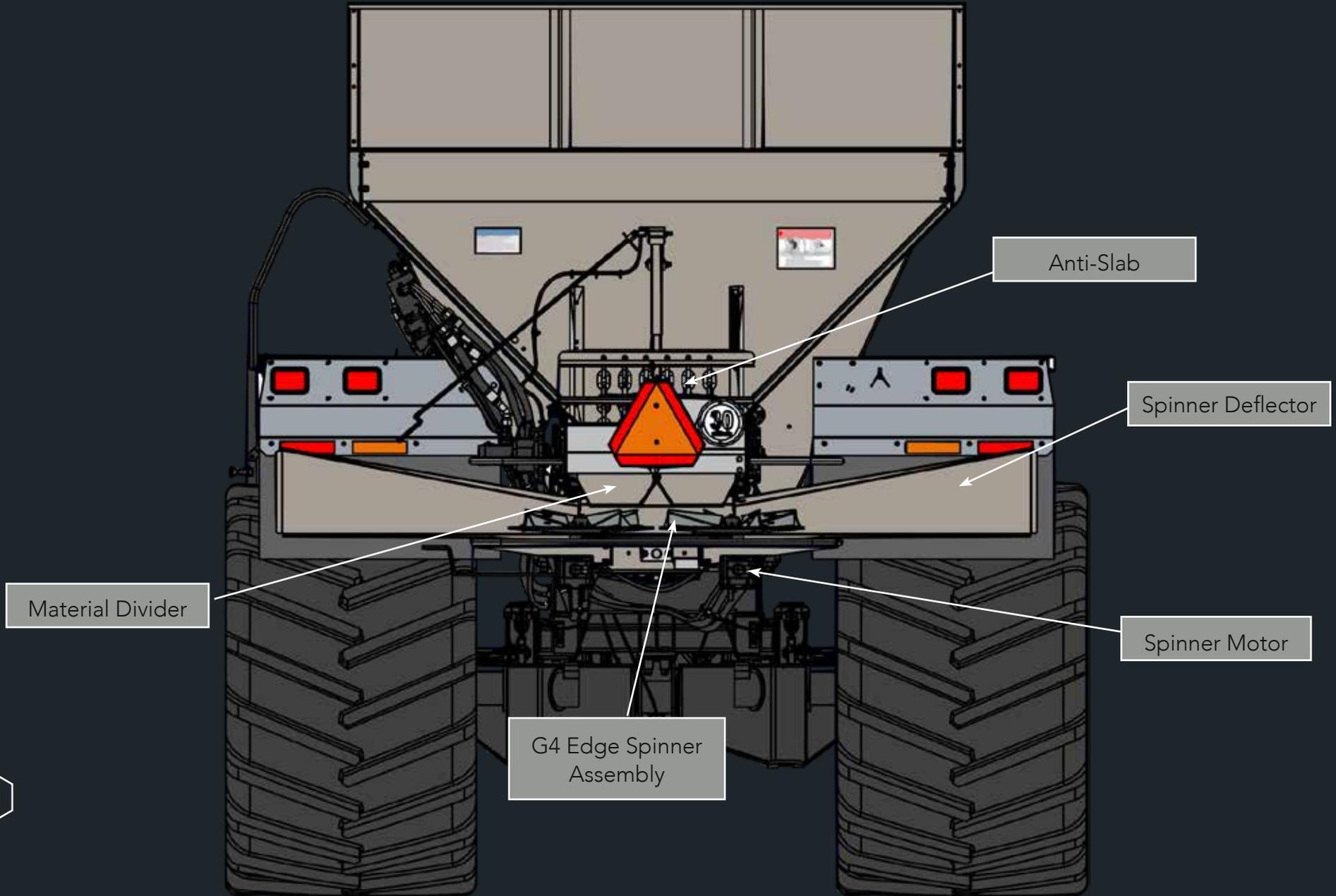
Front View



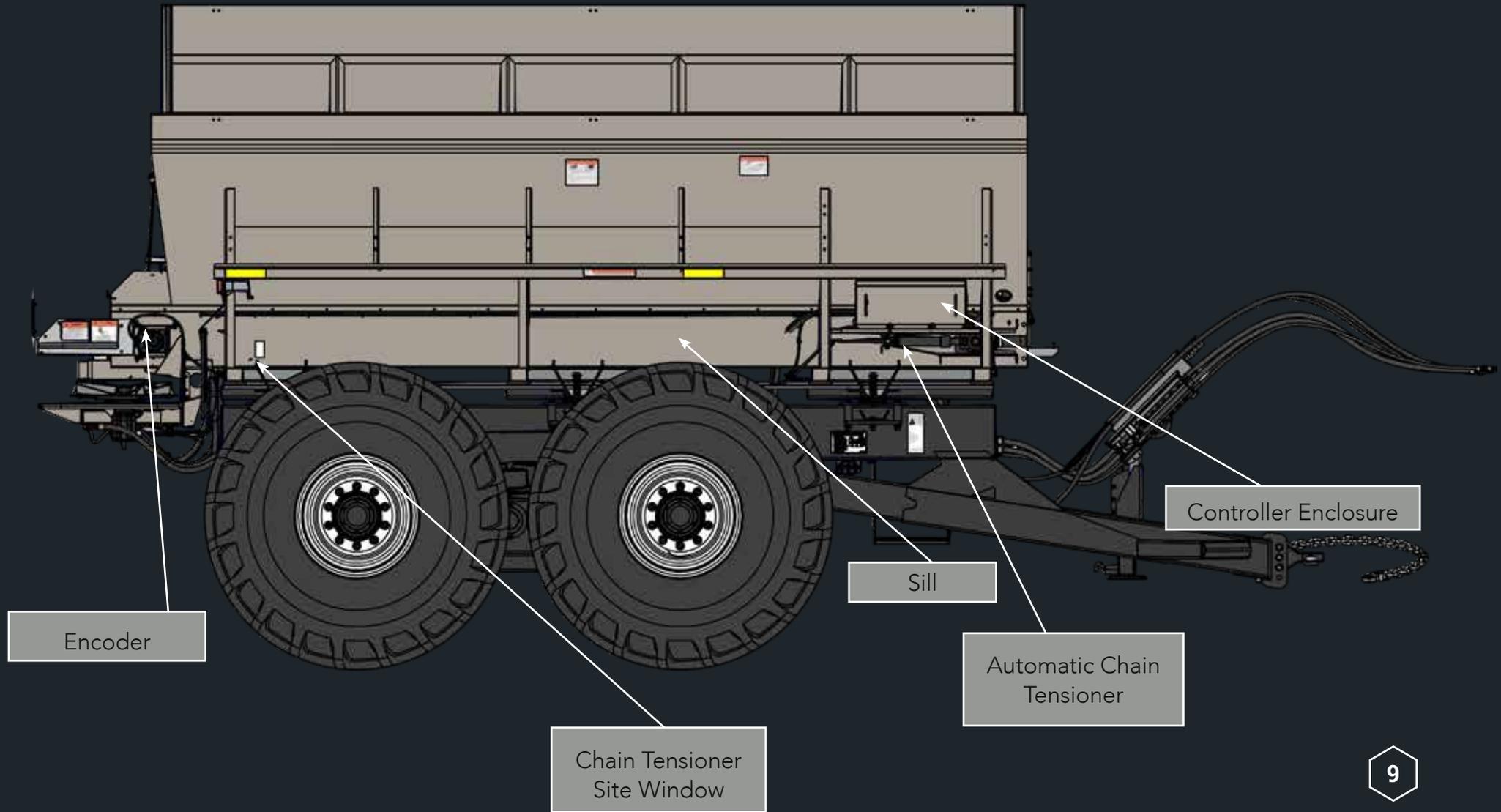
# Left Hand Side View



# Rear View



Right Hand  
Side View



# Chain Oiler and Lubrication

## Key Points

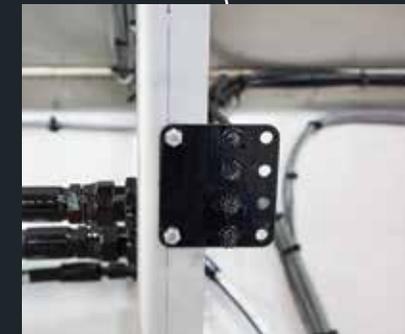
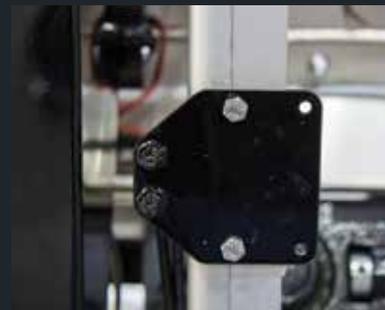
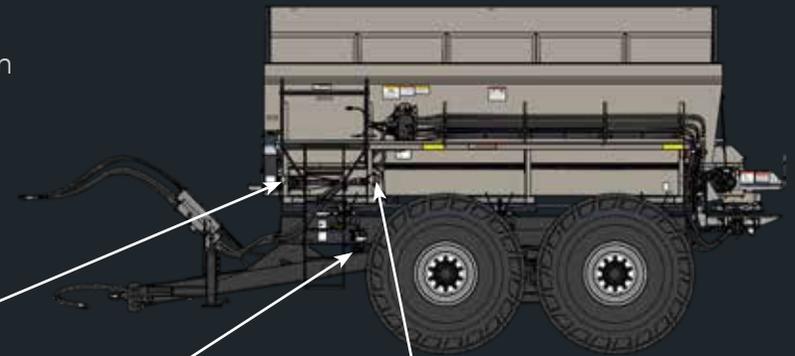
- In-cab automated conveyor chain oiler
- Centralized lubrication points for easy and quick maintenance



The pressurized chain oiler is for performing lubrication service of the belt-over-chain conveyor. This system is operated through the controller and accessed through the display. By setting oiling reminders, the operator is notified when the set time limit is reached and the chain needs to be lubricated. This reduces wear of the chain and deterioration from rust. Utilize a mixture of 75% diesel fuel and 25% clean oil.



Conveyor Chain Oiler Nozzle



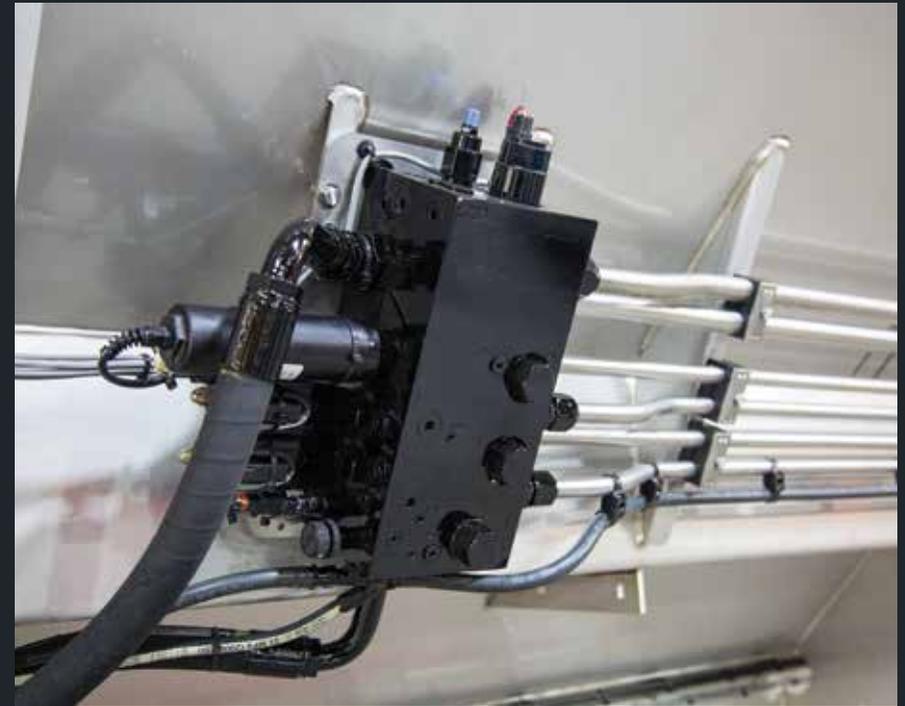
Lubrication Banks

# Hydraulic Manifold

## Key Points

- Improved efficiencies and control via common manifold
- Hydraulic test ports
- Anti-cavitation valves that smooth spinner shutdown
- Automatic chain tensioner

All of the main hydraulic functions are tied into a monoblock hydraulic manifold. The New Leader control manifold controls the main conveyor, the spinners and automatic chain tensioning.



New Leader  
Control Manifold

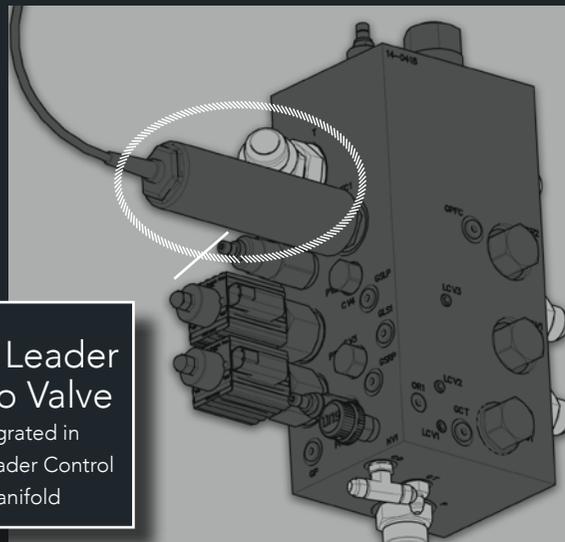
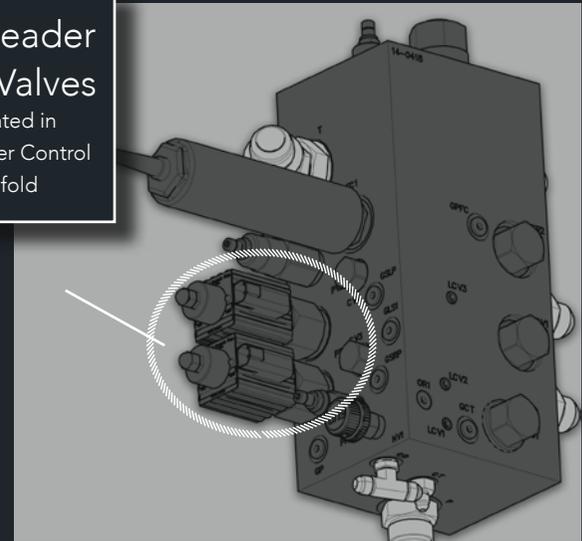
# PWM Valves and Spinner Control

## Key Points

- Integrated into New Leader control manifold
- Maintains desired spinner speeds for consistent spread width
- Closed loop system that adjusts for oil temperature, viscosity and pressure

The PWM valves for each spinner are integrated into the New Leader control manifold. The electronic PWM hydraulic valve is automatically adjusted by the controller to maintain the target spinner speed programmed from the controller. This ensures a consistent and uniform spread pattern at all times.

New Leader PWM Valves  
Integrated in  
New Leader Control  
Manifold



New Leader Servo Valve  
Integrated in  
New Leader Control  
Manifold

The main conveyor New Leader servo valves for main conveyor control is integrated into the New Leader control manifold. The servo valve has a fast reaction time to meet high demands when operators are traveling at higher application speed.

Fast reaction servo valve

# Chain Tensioner

## Key Points

- Maintains proper conveyor tension at all times during operation
- Reduces maintenance requirements
- 304 stainless steel front idler tensioning brackets



The auto chain tensioning feature maintains proper conveyor tension and reduces maintenance requirements. When the system pump is engaged, both tensioning cylinders are actuated, or pressurized, then the cylinders will relax during extended periods of non-use.

A chain tension sight window is located near the rear of the spreader. When the conveyor is running, the top edge of the chain should be visible between the MIN and MAX lines in the sight window.

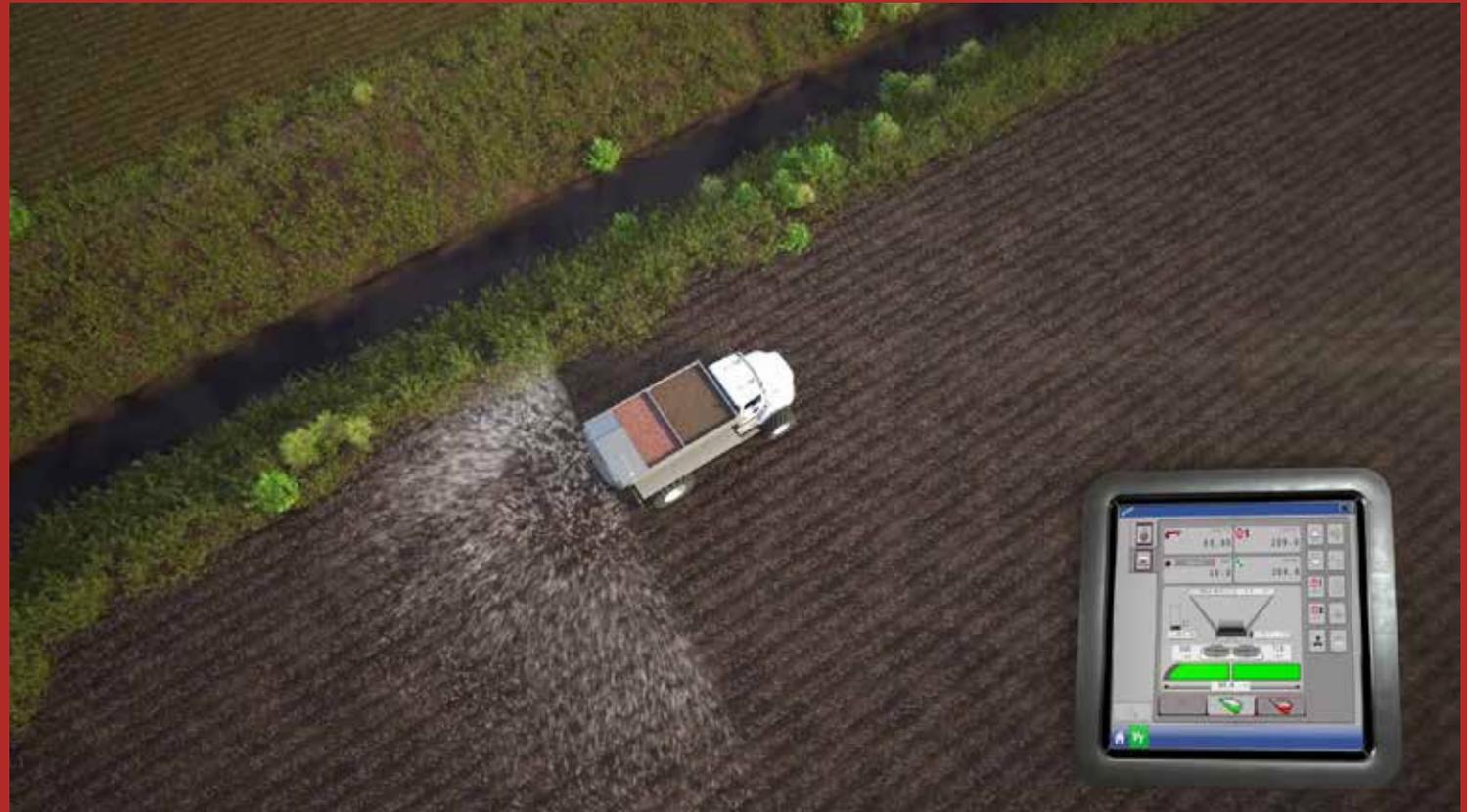


Chain Tension Sight Window

## Edge Boundary Control

### Key Points

- Edge of field pattern adjustment
- Independent spinner speed



Edge Boundary Control

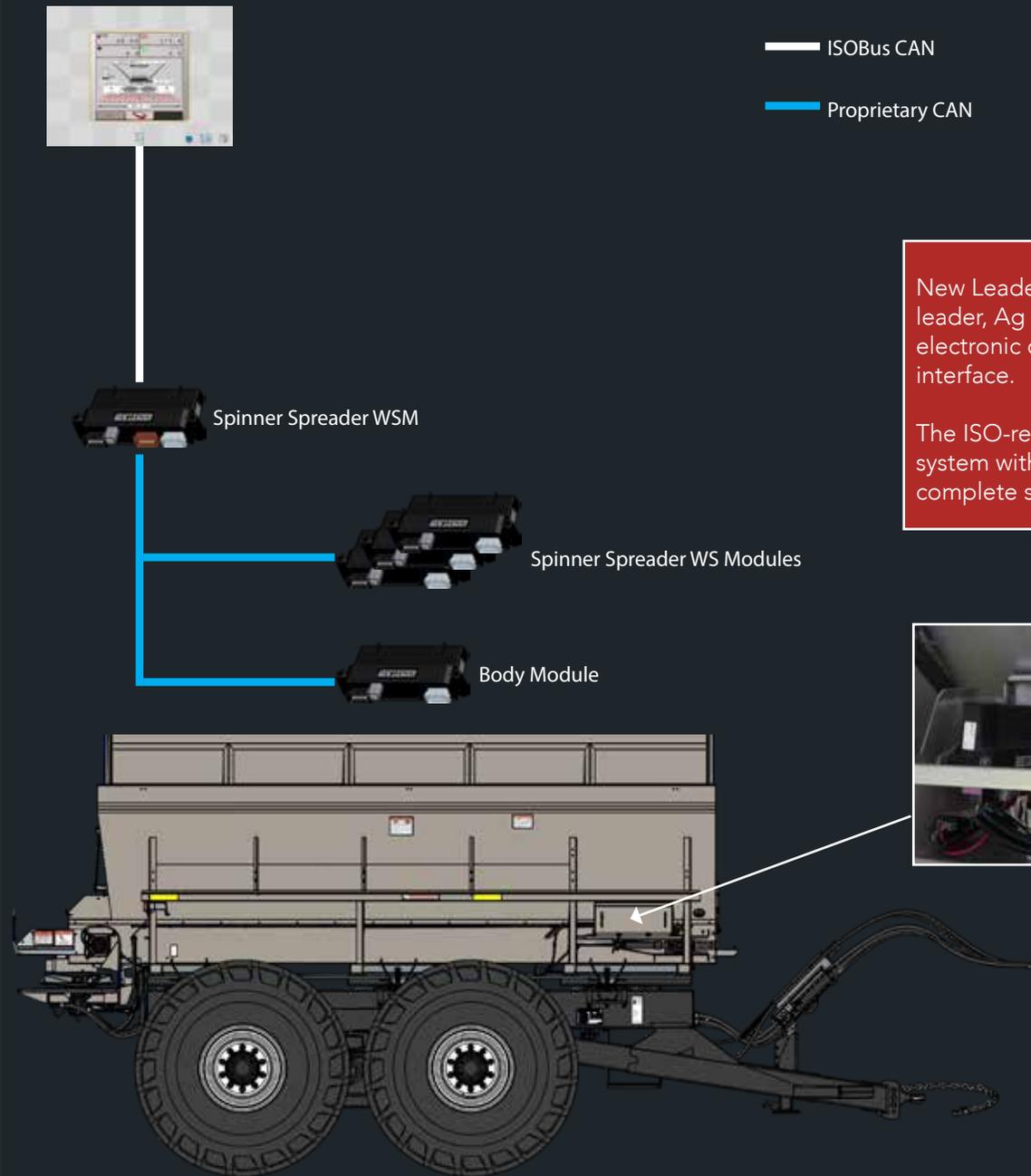
The Edge utilizes patented G4 spinner technology which is proven to spread materials fast, wide and with increased accuracy and consistency. Now with the ability to adjust spinner speed along edge of field situations.

Equipped with dual RPM sensors and dual PWM valves, the Edge will maintain a precise RPM on each individual spinner. Flip a switch and the Edge allows operators to apply materials along a boundary line, resulting in improved nutrient placement leading to improved yields.

# The Edge Electronics

## Key Points

- Complete electronic package
- Co-developed with industry leader Ag Leader
- Factory-installed and tested
- Diagnostic feedback
- Stainless steel component enclosure
- 2-year warranty for electronics and complete unit



New Leader partnered with industry leader, Ag Leader, to develop a complete electronic control system and user interface.

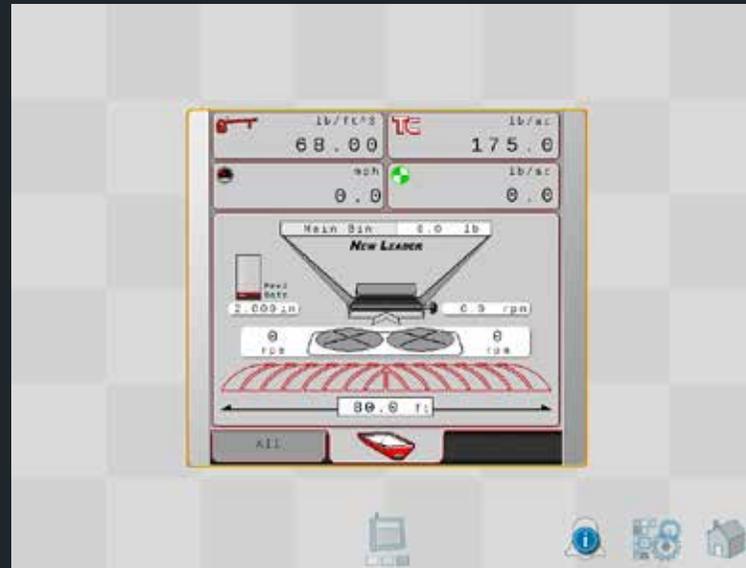
The ISO-ready system utilizes a CAN system with specialized modules to offer complete system control.



# New Leader User interface

## Key Points

- Easy-to-use interface
- ISOBUS-ready
- Diagnostic feedback
- Automated service notifications
- Low bin countdown
- Feed gate optimizer

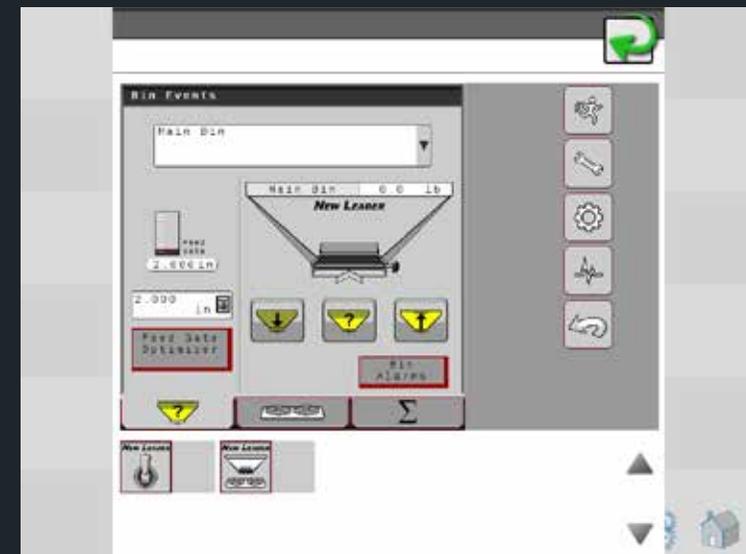


The New Leader user interface allows customers to use any ISOBUS-ready display in the cab of their machine. The New Leader user interface allows for complete machine control and monitoring in one simple, easy-to-use package from the factory.

The Edge will be running fully off of New Leader software that is truly plug and play with an ISOBUS-ready display.

The New Leader user interface is all about simplicity; simplicity for the dealers and for the customers.

It allows New Leader to add fully tested improvements and provide the best solution to meet customer needs, as well as providing complete support.



# NL4560

## Key Points

- In-field features



### Anti-Slab Chains

Breaks up material to help prevent build-up and assist in even spreading of the material.

Anti-Slab Chains



### Scales

The scale system is specifically designed to weigh the New Leader box on a NL4560 granular applicator. The scale system can be used to keep inventory of product and make in-field calibration adjustments.

Scales

# NL4560

## Key Points

- High output and high capacity come together in the NL4560 drawn dry box spinner spreader.



## Other Features:

- Large capacity (608 ft<sup>3</sup>) with 24" sideboards
- 16' - 102+6 wide body available in 304 stainless steel or painted 409 stainless steel
- Trailer mainframe with universal bull pull hitch and four-wheel braking system
- Walking suspension with over 12" of travel
- 30" (76 cm) #4 belt-over-chain
- 24" (61 cm) wide feed gate can be opened up to 11" (28 cm) tall
- High floatation tires for light footprint
- Scale system for in-field calibrations
- Anti-slab chains

NL4560G4 EDGE

## Precision Manufacturing

Precision application starts with precision manufacturing – and the NL4560 delivers. Advanced product techniques like laser cutting and slot-and-tab design create self-centering components like the material divider and spinner frame. Precision on the back end translates to precision on the front lines.

## Easy Maintenance

The NL4560 is built with the operator in mind – maximizing time in the field and simplifying maintenance.

- Front, rear and trailer grease banks for efficient greasing
- Corrosion-resistant 304 stainless steel cross tubes, mounts and take-up brackets
- Self-centering spinner frame and material divider

## Advanced Hydraulics

Experience fast and exact conveyor control, independent spinner speed control and extended conveyor life with the NL4560's superior hydraulics system. High-tech system sensors give operators early insights into potential issues by monitoring hydraulic condition and performance based on metrics including fluid level, temperature, filter restriction and conveyor and system pressure.

## Value Statements

### Precision Application

- Precise independent spinner control and monitoring
- Feed gate optimizer
- New Leader test pattern kit and SGN kit

### Ease of Use

- New Leader user interface
- System sensors
- Feed gate optimizer
- Diagnostic feedback
- Complete controller package installed
- Quick changeover time

### Ease of Maintenance

- Centralized lubrication
- Manufactured to reduce adjustments
- Automatic chain tensioner
- 304 stainless steel cross tubes, mounts, belly shields and take-up brackets
- 304 stainless steel feed gate and spinner jacks
- Automatic chain oiling
- System diagnostics

"To radically improve the way dry nutrients are applied."



# **NEW LEADER**

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