



**Miller**  
Since 1899

# MILLER INJECTION TOOLBAR

### FEED YOUR CORN, WHERE IT NEEDS IT, WHEN IT NEEDS IT MOST

The Miller Injection Toolbar allows for precision application of liquid fertilizer between the corn rows, into the root zones, exactly where the crop needs it most. Fuel the growth of corn, applying liquid N just before the maximum uptake occurs. The majority of uptake occurs between the 6-8 leaf stage and tasseling. Nitrogen should be applied in 3-4 to 6-8 leaf stage to ensure it is readily available during the critical growth period to follow.

### NO BURNING

Unlike broadcasting liquid or dry fertilizer, or applying NH<sub>3</sub>, soil incorporation of liquid N with a coulters into the soil will prevent burning of the crop by eliminating leaf contact, and potential vapor damage of leaves and roots from NH<sub>3</sub>.

### MINIMIZE LOSS OF FERTILIZER

Ground applied liquid fertilizer is at risk of loss due to volatilization. Without a sufficient rainfall, 30% may be lost within 2 weeks of the application. Nutrients may also be tied up in surface residue.

### NO MORE GAMBLING - MANAGE INPUT COSTS

Adjust and increase application rates if conditions are favorable. Or, in poor growing conditions, forego the cost of needlessly applying expensive fertilizer.

### FIELD TRIAL RESULTS

*"Our nitrogen trials thru Beck's Practical Farm Research Program has found that side-dressing of liquid nitrogen has boosted corn yields by an average of 12.4 bushel per acre with increased revenues of \$43.20 per acre over 2009-2012. By applying nitrogen directly into the root zone we are ensuring adequate nitrogen supply to finish our corn nitrogen programs. This has created higher yields along with the decreased risk of nitrate losses associated with nitrogen applied too early in the growing season."*



Jason Webster, CCA

Illinois PFR Director, Beck's Hybrids

Uses a Miller NITRO with Miller Injection Toolbar in their Practical Farm Research Program



Miller is proud to be a Beck's Hybrids Practical Farm Research Program Partner.



# FUEL THE GROWTH

### HIGH LIFT CLEARANCE

Helps the coulters clear crops and obstacles at the headlands, minimizing the potential for damaging corn stalks.



### QUICK-ATTACH VERSATILITY

The Miller Injection Toolbar is available to mount on NITRO 5000 series sprayers, as well as earlier model NITRO 2000, 3000, and 4000 Series. The Miller Quick-Attach kit may be ordered as a factory installed option, on a new sprayer, or is available for field installation.

The Quick-Attach system allow you to separate the boom or attachments from the sprayer lift arms quickly and easily. The Quick-Attach system includes boom quick couple jaws, electrical, air, liquid, and hydraulic connections along with parking stands for the boom.

- A specific 5000, 4000, or 2000/3000 Series Attaching Bracket kit is required.
- A heavy duty 4" lift cylinder kit is required for toolbars larger than 17 feet.
- A required Float Circuit option allows you to adjust the amount of down pressure the toolbar can apply.

### MAXIMUM MANOEUVRABILITY

Install the four wheel steer option to minimize crop damage in tight headlands.



## FLEXIBLE TO THE MAX

The Nitro Series sprayers are available with the Miller Quick-Attach option, allowing the spray boom to be quickly replaced with a number of other productivity-enhancing attachments including the Miller Injection Toolbar, a grain swather, and an Oxbo corn detassler.



### QUICK-ATTACH

Install the optional quick-attach kit to the NITRO, which provides disconnect points for the boom and all hydraulic and electrical functions to allow for fast and simple attaching and detaching of boom.

## FOLDED FOR TRANSPORT



## PRECISE INJECTION DIRECTLY INTO THE ROOT ZONE



## THREE TOOLBAR SIZES AVAILABLE

17 Foot	26 Foot	36 Foot
7 Standards at 30 in. spacing. Solid Bar. Four Gauge Wheels. 204 in. (5.2m) length.	11 Standards at 30 in. spacing. Hydraulic Fold. Four Gauge Wheels. 312 in. (7.9m) length.	15 Standards at 30 in. spacing. Hydraulic Fold. Four Gauge Wheels. 432 in. (11m) length.

### TOOLBAR

- 7 x 7 Inch Rigid Toolbar
- 2 - 7.50 x 14 gauge wheels on center toolbar
- 2 - 7.50 x 20 gauge wheels on wings
- 66 inch (1.7m) crop clearance
- Parking stand on 26 and 36 ft toolbars

### PRODUCT CIRCUIT

- 2 in. cam-loc connection to Nitro chassis
- Two section electric ball valves, 3/4 in. hoses
- 4 in. Glycol-filled gauge
- Diaphragm check (TeeJet nozzle body) on every standard 3/8 in. feed lines

### COULTERS

- 1-1/2" Hi-tensile steer shaft and ductile castings
- 20 in. Clymer blades, 1/2 in. fluted, 1200 lb downpressure spring
- Spring reset break-away nozzle bracket
- Stainless steel industrial solid stream tip. 20 gpa /10 mph / 20 psi (0015)
- Poly depth bands help prevent soil buildup

### LIGHTING AND SAFETY

- 2 Halogen field lights
- 2 Amber road flashers
- Red, orange, and amber reflectors
- Hydraulic front fold on 26 and 36 ft. models
- Transport width 18 feet (5.5m)
- Optional foamer uses standard Nitro mix chamers and bells

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