RESIDUE MANAGEMENT IMPROVEMENT PARTS

Case-IH* 3000
AGCO*
John Deere*
New Holland* 96c/98c/98d/996
Geringhoff* NorthStar
Case-IH* 2200/2400


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| JD 40/90 Series               | X | X | X | X | X | X | X |          |
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TOP REASONS TO BUY CALMER BT CHOPPER®
STALK ROLLS AND UPGRADE KITS

REASON 1: JOHN DEERE TESTED

In 2015, John Deere & Co. tested their stalk rolls against Calmer’s BT Chopper® and another aftermarket stalk roll design. Their tests supported what we’ve been saying all along. See below.

Source: Deere & Co. YouTube video, posted 2016 under the name “John Deere 600C Stalk Roll Advantage”

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REASON 2: ENDORSED ON NEWAGTALK.COM

NewAgTalk.com continues to be a trusted medium where farmers can openly exchange ideas and reviews on ag products. Over the years, discussions surrounding Calmer Products have attracted more than a million views. Below are some Calmer-related discussions important to farmers.

Are Calmer Corn Head Products worth the money?
An overwhelming majority of respondents said yes. Posted 12/3/2013

Calmer Stalk Rolls vs. Geringhoff Rota Disc
An overwhelming majority of respondents preferred Calmer BT Choppers® over the Geringhoff Rota Disc. Posted 10/16/2016

Satisfied with the longevity of Calmer BT Choppers®?
An overwhelming majority of respondents were satisfied with the longevity of Calmer BT Choppers®. Posted under “Calmer’s Kit” on 10/27/2016

Overall satisfaction with Calmer Products
An overwhelming majority of respondents were/are satisfied with Calmer Products.
REASON 3: UNIVERSITY PROVEN

A study from the University of Illinois’ Department of Crop Sciences found that Calmer BT Chopper® Stalk Rolls increase continuous corn yields by an average of 6 bu per acre when compared to standard stalk rolls.

Mechanically-sized residue in corn on corn the previous fall (A and B) and at the R3 growth stage (C and D).

REASON 4: MECHANICAL AND AGRONOMIC ADVANTAGES

With Calmer Products, you’re getting more than just corn head parts, you’re getting peace of mind that your residue management and corn head problems are solved for good during harvest.

Mechanical Advantages:
- Smallest Residue Sizing
- Performs in All Crop Conditions
- 25% Less Hp Needed than with Chopping Heads
- Superior Cornstalk Engagement
- Better Ear Separation
- Less Tire Wear
- Less Butt Shelling
- Allows for Slower Head Speeds

Agronomic Advantages:
- Lasts Longer than OEM Components
- Easier on Gearboxes
- Increased Harvesting Speeds
- Faster Residue Decomposition
- Easier Planting
- Compatible with all Tillage Systems
- Warmer Soils
- Drier Soils
- Increased Earthworm Populations
- Reduced Nitrogen Penalty
- Higher Yields
- Residue Won’t Plug Culverts During Heavy Rainfall

REASON 5: AWARD WINNING

Our Products are farmer invented, farmer tested, and farmer proven® and come with a 100% Satisfaction or Your Money Back Guarantee. Having been voted to the No-Till Product of the Year list five times, farmers across North America continue to rely on our award-winning technology to solve their residue management and corn head problems.
STALK ROLLS: OEM VS. BT CHOPPERS®

PROBLEM

Cornstalks Are Still Standing after Harvest. Long, Unprocessed Stalks Are Slow to Decompose.

The Cause: No Feeding Chamber and Non-Aggressive Flutes
No stalk roll will feed or perform properly without a feeding chamber in the entry area. All OEM stalk rolls have the same length flutes and therefore a continuous overlap in the entry area. When rotating at full speed, this continuous overlap creates a solid wall of rotating steel, restricting the entry of cornstalks. The non-aggressive flutes of OEM rolls result in longer, unprocessed stalks, which are slow to decompose, causing problems for tillage and planting.

The Evidence
By examining a used OEM stalk roll, it is evident the first few inches of flutes are worn while the remainder of the flutes remain in good condition. This is because the continuous overlap of flutes prevents cornstalks from engaging easily with the flutes. This hesitation results in stalks and ears passing below the corn head without being processed.

To demonstrate, we put a cornstalk in front of an OEM stalk roll’s knife chamber. Because it does not have a feeding chamber, the cornstalk cannot engage with the flutes and is ultimately bulldozed by the corn head.

STALK ROLLS: OEM VS. BT CHOPPERS®

6-FLUTED KNIFE ROLLS AFTER ONLY 250 ROW ACRES

Without a feeding chamber, stalk rolls cannot properly engage or process stalks

First 2-inches of flutes are worn

Remaining length of flutes remain in “like new” condition

Worn Spiral

Cornstalks CANNOT ENGAGE with stalk rolls without a feeding chamber

No Stalk Engagement
Calmer’s Patented “Open Window” Feeding Chamber Guarantees Traction of Cornstalks. Razor-Sharp Blades Process Stalks into Small Pieces for Accelerated Decomposition

During rotation, the shortened flutes are timed to create 2, 4-inch feeding chambers for superior stalk engagement, longer wear life and better stalk processing.

The Evidence
Calmer’s patented “open window” feeding chamber guarantees traction the first time a blade touches the cornstalk, enabling material to feed easily from the spiral area into the 17 1/2-inch knife chamber, where the cornstalk is processed. This patented design enables Calmer Rolls to perform in all crop conditions, guarantees the traction of stalks for processing, results in longer stalk roll life, reduces low ear snap, and prevents the bulldozing of stalks at the end rows.

To demonstrate, we put a cornstalk in front of a Calmer BT Chopper® Stalk Roll. Because it has a patented feeding chamber, the cornstalk is easily engaged and processed into confetti-like pieces for ACCELERATED DECOMPOSITION, EASIER PLANTING AND HIGHER YIELDS!
**Mechanical Advantages**
- Smallest Residue Sizing (See John Deere’s Data)
- Performs in All Crop Conditions
- Great for High-Speed Harvesting
- Picks Cleaner
- Allows for Slower Head Speeds
- Longer Wear Life
- Easier on Gearboxes
- 25% Less Hp Needed than with Chopping Heads

**Agronomic Advantages**
- Faster Residue Decomposition
- Easier Planting
- Higher Yields
- Warmer/Drier Soils at Planting
- Reduced Nitrogen Penalty
- Compatible with All Tillage Systems
- Residue Won’t Plug Culverts During Heavy Rainfall

**ENGAGEMENT ZONE**
This area of multi-length blades is synchronized with the nose cone threads to feed the shortest blade and create a spot for the stalk to become engaged with the full-length implosion flutes.

**IMPROVED NOSE CONE**
Calmer nose cones have been designed with more aggressive flighting and a smaller nose cone barrel for more efficient flow of material from this area into Calmer’s patented “open window” feeding chamber.

**HARD-SURFACED IMPLOSION FLUTES**
Full-length implosion flutes guarantee the traction of stalks in the engagement zone. While simultaneously maintaining grasp and control, the downward force implodes the stalk, resulting in frayed stubble that is easier on tires and accelerates decomposition. Newly upgraded hard surfacing results in longer wear life.

*The Calmer BT Chopper® is the result of decades of farmer innovation and field testing to develop the world’s most advanced and only all-weather stalk roll. With its patented “open window” feeding chamber and razor sharp blades, the design elements of this stalk roll have revolutionized how farmers are managing excessive cornstalk residue around the world. The rolls are easy to install, compatible with all tillage systems and are a fraction of the cost of a new or chopping corn head. (See table of contents for specific make/model kits)*

*www.CalmerCornHeads.com*
CUTTING, CHOPPING & SHEARING ZONE

Calmer’s deep-intermeshing, razor-sharp blades not only cut and chop cornstalks into confetti-like pieces, but also shear stalks into two halves, exposing the pith for accelerated residue decomposition. This results in easier planting, higher yields and eliminates the need for the chopping of cornstalks or chopping corn heads.

EJECTION FLUTES

These extra-aggressive flutes ensure the cornstalk is fully processed and ejected below the corn head.

LONGER LASTING

All razor-sharp chopping blades are induction heat treated for extra durability.

WORLD’S ONLY ALL-WEATHER STALK ROLL®!

BT Choppers® achieve instant residue-to-soil contact for accelerated decomposition and the recycling of important inputs.
**PROBLEM**

Residue processed by standard stalk rolls is slow to decompose and results in the immobilization of nutrients.

**OUR SOLUTION**

Residue sized by BT Chopper® Stalk Rolls decomposes faster for healthier soils and higher yields. (6+ bu/ac adv. in corn on corn. Source: University of Illinois Dept. of Crop Sciences)

BT Choppers® explode the top of stalk stubs for quicker decomposition and reduced tire wear.

BT Choppers® distribute residue directly over the row for easier planting.

Left: BT Choppers® explode stalks and expose pith for maximum decomposition and less tire wear. Right: Rotary blades leave stalks intact, resulting in slower decomposition and increased wear on tires.
BT CHOPPER® RESIDUE: PLANTING

Side-by-side comparison just 7 months after harvest shows superior residue decomposition when using Calmer BT Chopper® stalk rolls compared to OEM stalk rolls.

Calmer’s confetti-like residue degrades faster and more evenly for warmer, drier spring soils. (Field pictured: No-tiled soybeans into corn residue, spring 2020)

Residue from factory rolls is hard to plant into and can cause plugging.

BT Chopper® residue is easy to plant into and doesn’t plug the planter.

Knife-to-Knife Stalk Rolls = 92% residue cover

Calmer BT Chopper® Stalk Rolls = 78% residue cover
Butt Shelling, High Leaf Intake and Unhusked Ears

There are several problems with factory stripper plates, which vary by make and model. In general, the opening of the front retrieving area of all factory stripper plates is too narrow and therefore tends to bulldoze cornstalks when off the row or in down corn. Please see below for further design-specific problems of factory stripper plates.

**Factory Straight Plates** are not formed to match the natural shape of the bottom side of the corn ear, which causes kernel loss upon impact by displacing all the energy on one kernel (see image on left). Also, because these plates don’t match the curvature of the ear leaf, the ear shank cannot get close enough to the stalk roll blades in order to be grasped and processed at the corn head. This results in the husk staying attached to the ear, sending it and more material other than grain (MOG) into the combine.

**Factory Plates with a Full Bevel from Front Retrieving Area to the Back** can result in the lodging of ears, which can occur frequently in down-corn situations.

**Factory Plates with a Welded Bar Along the Edge** are problematic because they often protrude above the plate’s edge, causing kernel loss upon impact.
Calmer’s Patented Muti-Zone Beveled Stripper Plates Reduce Butt Shelling and Decrease Intake of Material Other Than Grain (MOG) aka “Trash” Into Combine

Calmer’s Patented Multi-Zone Beveled Stripper Plates are straight in the front retrieving area to reduce ear wedging and beveled in the back stripping area to allow the stalk rolls to engage more ear shanks, husks and leaves, which significantly reduces trash intake into the combine. The beveled edge also emulates the rounded bottom of the corn ear to help reduce butt shelling problems by displacing the energy around the base of the corn ear. (See image on the bottom right)

Calmer Plates also have a more forgiving opening in the front retrieving area to minimize the bulldozing of cornstalks at end rows or when not fully aligned with the rows.

<table>
<thead>
<tr>
<th>Time</th>
<th>Ounces of Trash with Straight Stripper</th>
<th>Ounces of Trash with Beveled Stripper Plates</th>
<th>Ounces of Trash Reduced</th>
<th>Percentage of Trash Reduced</th>
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</thead>
<tbody>
<tr>
<td>1:15</td>
<td>53</td>
<td>32</td>
<td>21</td>
<td>40%</td>
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<tr>
<td>2:00</td>
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<td>35</td>
<td>5</td>
<td>13%</td>
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<td>0</td>
<td>0%</td>
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<td>36</td>
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<td>42%</td>
</tr>
<tr>
<td>3:00</td>
<td>71</td>
<td>43</td>
<td>28</td>
<td>40%</td>
</tr>
<tr>
<td>3:30</td>
<td>50</td>
<td>35</td>
<td>15</td>
<td>30%</td>
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<td>4:30</td>
<td>59</td>
<td>38</td>
<td>21</td>
<td>36%</td>
</tr>
</tbody>
</table>

We installed Calmer Plates on half our test head and had factory straight stripper plates on the other half. We did multiple kill stops on a dry afternoon and bagged loose trash on both sides. On average, Calmer Plates reduced trash intake by an average of 29%!
Increased Intake of Material Other Than Grain (MOG)

Excessive gathering chain speed is a common problem for some makes of corn heads. Because the gathering chain speed to stalk roll speed ratio is not properly synchronized for maximum performance, the excessive topping of plants often occurs and results in the increased intake of material other than grain (MOG). Please see below for further make specific problems.

Case-IH and New Holland Corn Heads that utilize an 8-tooth drive and idler sprocket combination often results in the increased intake of MOG into the combine due to the gathering chain speed to stalk roll speed ratio not being properly timed for maximum performance.

John Deere 40/90 Series Corn Heads are equipped from the factory with an 8-tooth drive and idler sprocket combination and utilized row units with gathering chain speed ratios from the 1960s, which ran too fast. This often results in the gathering chain lugs shearing off the top of the corn plant before it can be properly processed by the stalk rolls. These broken portions of the corn plant often get plugged-up in the cross auger, resulting in the build-up of fluff (See photo below). The hair pinning of material at the top of the stripping tunnel often occurs in wet or damp conditions as a result of the gathering chain lug forcing the top portion of the corn plant over the row frame unit.

Kill stop examination photo provided by Eric Hayenga. (Taken in Groton, SD - November, 2000)
Install Calmer’s “Slow Down” Kit, Which Includes a Patented 9-Tooth Idler Sprockets, Smaller Drive Sprockets and Chrome-Pin Gathering Chains

Calmer’s Slow Down Kit consists of 6- or 7-tooth drive sprockets, an oversized 9-tooth idler sprocket and chrome-pin gathering chains. By moving to a smaller drive sprocket, the gathering chain speed to stalk roll speed ratios are better synchronized for maximum performance and reduced intake of MOG into the combine. See below for make specific solutions.

**Case-IH and New Holland Corn Heads:** For these makes of corn heads, a 7-tooth drive sprocket is available to slow-down gathering chain speeds by 12.5% to allow stalk rolls to make more revolutions to fully process the stalk at the corn head.

**John Deere 40/90 Series Corn Heads:** For this model of John Deere corn head, Calmer sells a patented 6-tooth drive sprocket to slow-down gathering chains by 25%, which can help reduce the intake of MOG into the combine by an average of 61%! (See chart below)

All “Slow Down” Kits come with Calmer’s patented 9-Tooth Idler Sprockets. This larger sprocket design improves the gathering chain lug’s grabbing ability for easier harvesting in down corn conditions. This new-and-improved sprocket is non-greaseable and has a solid-steel design with a replaceable bearing for increased wear life and lower maintenance. Calmer’s 9-Tooth Idler Sprocket also provides the following additional advantages:

- They reduce the slack created by installing a smaller drive sprocket so a standard-sized gathering chain can be used.
- The bigger diameter reduces wear on the idler block.

### Side-by-side field testing results with JD 8-tooth drive sprockets vs. Calmer 6-Tooth Drive Sprockets.

<table>
<thead>
<tr>
<th>Time</th>
<th>Ounces of Trash with 6-Tooth</th>
<th>Ounces of Trash with 8-Tooth</th>
<th>Ounces of Trash Reduced</th>
<th>Total Trash Reduced</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:45</td>
<td>6</td>
<td>13</td>
<td>7</td>
<td>54%</td>
</tr>
<tr>
<td>2:00</td>
<td>4</td>
<td>18</td>
<td>14</td>
<td>78%</td>
</tr>
<tr>
<td>5:00</td>
<td>15</td>
<td>32</td>
<td>17</td>
<td>53%</td>
</tr>
<tr>
<td>5:30</td>
<td>15</td>
<td>37</td>
<td>22</td>
<td>60%</td>
</tr>
<tr>
<td>TOTAL</td>
<td>40</td>
<td>100</td>
<td>60</td>
<td>61% Average</td>
</tr>
</tbody>
</table>

Longer-lasting Chrome-Pin Gathering Chains are an available option with all kits.

(309) 629-9000
“We plant wheat into cornstalks and we only disc one time. We can’t believe how the chopper grinds-up the stalks. The ride is a lot faster now.”
Larry Hocking
MOUNT CARMEL, IL

“I purchased your BT Chopper and have been totally sold with the job it does. It eliminates the trip with the stalk chopper and also does a number on the remaining stump portion of the stalk, making that less abrasive on equipment tires. Would I buy them again? Without a doubt.”
Clayton Ferrier
ROCHESTER, MN

“We do 150-200 cornstalk bales a year behind the BT Chopper for bedding and roughage. I really like the benefit of the smaller pieces for bedding and also the manure spreads more evenly.”
Steve Swanson
LYNN CENTER, IL

“It’s all about the size of the residue. The BIGGER the particle, the SLOWER it’s going to degrade.”
Dr. Fred Below
PROFESSOR OF PLANT PHYSIOLOGY
UNIVERSITY OF ILLINOIS

TESTIMONIALS

Don’t just take our word for it. Here’s what farmers from around the county are saying about Calmer Products. To view more testimonials or submit your own, go to CalmerCornHeads.com/Testimonials.
"I purchased your BT Chopper Kit and have been totally satisfied with the job it does. It eliminated the trip with the stalk chopper and also does a number on the remaining stump portion of the stalk, making that less abrasive on equipment tires. Would I buy them again? Without a doubt."

Clayton Ferrier
ROCHESTER, MN

"It's all about the size of the residue. The BIGGER the particle, the SLOWER it's going to degrade."

Dr. Fred Below
PROFESSOR OF PLANT PHYSIOLOGY
UNIVERSITY OF ILLINOIS

"Ran last fall. Perfect for no-tilling sunflowers the following year. There was bare soil, warmth and dryness."

Howard Sias
CHELSEA, MI

"I had no problem planting into the Calmer residue this spring. There was no plugging. It was smooth sailing."

Alan Overbeck
LIBERTY, IN

"The stalk rolls allowed us to achieve these high yields by bringing the stalk down through the head and not at an angle. Also, it let's the material break down in the fall!"

Eric Reed
NCGA Champion in TN & AL
ELORA, TN

"I put Calmers on a 1290 and ran it side-by-side with a competition 18 row, 20-in corn head. There was no comparison. Calmer was so much better. Better feeding and better chopping!"

John Lininger
SYCAMORE, OH

"[Following Calmer Stalk Rolls] I had the absolute best emergence in our small grain. Right depth, consistent, and I attribute it to how we turn that residue into confetti."

Dave Hula
WORLD RECORD HOLDER
SEVERAL-TIME NCGA CHAMPION

"My field is unbelievable. Why are guys spending so much on chopping heads? I did not need a mower or anything ahead of my chisel plow."

Ed Blodgett
LIMA, NY

"I got these the first year they came out in 2011 and your customer service has been great, very pleased there. The confetti residue pictures are the way it really looks, no matter the moisture! 25% corn doesn't even matter."

Thomas Payne
HAMILTON, VA

"I purchased your BT Chopper Kit and have been totally satisfied with the job it does. It eliminated the trip with the stalk chopper and also does a number on the remaining stump portion of the stalk, making that less abrasive on equipment tires. Would I buy them again? Without a doubt."

Randy Dowdy
WORLD RECORD HOLDER
SEVERAL-TIME NCGA CHAMPION

"The Calmer BT Choppers sized the 500+ BU residue, preparing the field for the following planting season."

Randy Dowdy
WORLD RECORD HOLDER
SEVERAL-TIME NCGA CHAMPION
Follow Calmer’s 3-step upgrade process to solve many of your corn head and residue management problems.

STEP 1

Install Calmer BT Chopper® Stalk Rolls and Grass Knives

Reliable and effective stalk rolls are critical to a top-performing corn head. Calmer’s BT Chopper® Stalk Rolls have a redesigned nose cone and a patented “open window” feeding chamber, which guarantees traction of stalks and superior feeding in all crop conditions. The 10 razor sharp blades on each roll cut, chop and shear cornstalks into confetti-like pieces for accelerated decomposition, easier planting and higher yields. As a result, you’ll be able to more effectively manage residue during tillage and planting. Calmer Grass Knives are specially designed to match the curvature of the BT Choppers’® redesigned nose cones and prevent the back wrapping of grasses.

STEP 2

Install Calmer Multi-Zone Beveled Stripper Plates

Calmer Multi-Zone Beveled Stripper Plates are straight in the front retrieving area to reduce the lodging of ears and have a more forgiving opening to minimize the bulldozing of cornstalks at the end rows or when not fully aligned with the rows. The beveled contour toward the back of the plates emulates the bottom portion of the corn ear, which helps reduce butt shelling while simultaneously reducing trash intake by allowing husks and leaves to pass through the stripper plate gap onto the ground instead of into the combine.

STEP 3

Install Calmer Gathering Chain “Slow Down” Kit

By slowing down gathering chains by 25% with Calmer’s smaller 6-Tooth Drive Sprockets, trash intake can be reduced by an average of 61%. The larger 9-Tooth Idler Sprockets improve the chains’ grabbing ability for easier harvesting in down corn conditions. This new-and-improved, non-greaseable idler sprocket is solid steel and has a replaceable bearing for increased life and lower maintenance. Longer-lasting Chrome-Pin Gathering Chains are sent with all “Slow Down” Kits. Calmer’s Over-Sized Plastic Gathering Chain Paddles can be installed on the gathering chain lugs to improve both the gathering and conveying of material.
NEVER CHOP STALKS AGAIN!

- Grass knives
- BT Chopper® stalk rolls: World’s only all-weather stalk roll®!
- Manual adjust multi-zone beveled stripper plates
- Hydraulic adjust multi-zone beveled stripper plates
- 9-tooth idler sprockets
- Over-sized plastic gathering chain paddles
- Sprockets & chrome-pin gathering chains
Follow Calmer’s 3-step upgrade process to solve many of your corn head and residue management problems.

**STEP 1**

**Install Calmer BT Chopper® Stalk Rolls and Grass Knives**

Reliable and effective stalk rolls are critical to a top-performing corn head. Calmer’s BT Chopper® Stalk Rolls have a redesigned nose cone and a patented “open window” feeding chamber, which guarantees traction of stalks and superior feeding in all crop conditions. The 10 razor sharp blades on each roll cut, chop and shear cornstalks into confetti-like pieces for accelerated decomposition, easier planting and higher yields. As a result, you’ll be able to more effectively manage residue during tillage and planting. **Calmer Grass Knives** (not available for chopping heads) are specially designed to match the curvature of the BT Choppers’® redesigned nose cones and prevent the back wrapping of grasses. **The Calmer Super Chopper** is the world’s first 12-bladed chopping stalk roll, sizes residue into slightly smaller pieces than the BT Chopper® and is available for the 600 new shaft and 700 series corn heads only.

**STEP 2**

**Install Calmer Multi-Zone Beveled Stripper Plates**

Calmer Multi-Zone Beveled Stripper Plates are straight in the front retrieving area to reduce the lodging of ears and have a more forgiving opening to minimize the bulldozing of cornstalks at the end rows or when not fully aligned with the rows. The beveled contour toward the back of the plates emulates the bottom portion of the corn ear, which helps reduce butt shelling while simultaneously reducing trash intake by allowing husks and leaves to pass through the stripper plate gap onto the ground instead of into the combine.

**STEP 3**

**Install Chrome-Pin Gathering Chains (600 Series Only)**

Chrome-Pin Gathering Chains are an available option with every upgrade kit. The chrome-pin design results in a longer-lasting, more durable chain.

Side-by-side comparison just 7 months after harvest shows superior residue decomposition when using Calmer BT Chopper® stalk rolls compared to OEM stalk rolls.
NEVER CHOP STALKS AGAIN!

GRASS KNIVES

600 old shaft has an X pattern
600 new shaft has a + pattern

World’s First 12-Bladed Chopping Stalk Roll

MULTI-ZONE BEVELED STRIPPER PLATES

MULTI-ZONE BEVELED STRIPPER PLATES FOR OLD FRAME DESIGN WITH 8-TOOTH SPROCKET SYSTEM
MULTI-ZONE BEVELED STRIPPER PLATES FOR NEW FRAME DESIGN WITH 6-TOOTH SPROCKET SYSTEM

CHROME-PIN GATHERING CHAINS

BT CHOPPER® STALK ROLLS
WORLD’S ONLY ALL-WEATHER STALK ROLL®!
Install Calmer BT Chopper® Stalk Rolls

Reliable and effective stalk rolls are critical to a top-performing corn head. Calmer's BT Chopper® Stalk Rolls have a redesigned nose cone and a patented “open window” feeding chamber, which guarantees traction of stalks and superior feeding in all crop conditions. The 10 razor sharp blades on each roll cut, chop and shear cornstalks into confetti-like pieces for accelerated decomposition, easier planting and higher yields. As a result, you’ll be able to more effectively manage residue during tillage and planting.

Install Calmer Multi-Zone Beveled Stripper Plates

Calmer Multi-Zone Beveled Stripper Plates are straight in the front retrieving area to reduce the lodging of ears and have a more forgiving opening to minimize the bulldozing of cornstalks at the end rows or when not fully aligned with the rows. The beveled contour toward the back of the plates emulates the bottom portion of the corn ear, which helps reduce butt shelling while simultaneously reducing trash intake by allowing husks and leaves to pass through the stripper plate gap onto the ground instead of into the combine.

Install 7-Tooth Drive and 9-Tooth Idler Sprockets and Chrome-Pin Gathering Chains

Chrome-Pin Gathering Chains are an available option with every upgrade kit. The chrome-pin design results in a longer-lasting, more durable chain. Calmer’s 9-Tooth Idler Sprockets are non-greaseable with replaceable bearings and have a solid-steel design for increased wear life and lower maintenance than OEM idler sprockets. The larger 9-tooth idler sprocket design also improves the gathering chains’ grabbing ability for easier harvesting in down corn conditions. We recommend running the factory 7-Tooth Drive Sprockets with the 9-tooth idler sprocket combination. Calmer’s Over-Sized Plastic Gathering Chain Paddles can be installed on the gathering chain lugs to improve both the gathering and conveying of material.

Follow Calmer’s 3-step upgrade process to solve many of your corn head and residue management problems.

STEP 1

STEP 2

STEP 3

Side-by-side comparison just 7 months after harvest shows superior residue decomposition when using Calmer BT Chopper® stalk rolls compared to OEM stalk rolls.
CASE-IH 2200/2400 & NH 96C/98C/996 SERIES

NEVER CHOP STALKS AGAIN!

HYDRAULIC ADJUST MULTI-ZONE BEVELED STRIPPER PLATES FOR CASE-IH 2200/2400 SERIES CORN HEADS

HYDRAULIC ADJUST MULTI-ZONE BEVELED STRIPPER PLATES FOR NH 96C, 98C, AND 996 SERIES CORN HEADS

9-TOOTH IDLER SPROCKETS

OVER-SIZED PLASTIC GATHERING CHAIN PADDLES

7-TOOTH DRIVE SPROCKETS

BT CHOPPER® STALK ROLLS

WORLD’S ONLY ALL-WEATHER STALK ROLL®

MULTI-ZONE BEVELED STRIPPER PLATES

SPROCKETS & CHROME-PIN GATHERING CHAINS

(309) 629-9000
Follow Calmer’s 3-step upgrade process to solve many of your corn head and residue management problems.

**STEP 1**

**Install Calmer BT Chopper® Stalk Rolls**

Reliable and effective stalk rolls are critical to a top-performing corn head. **Calmer’s BT Chopper® Stalk Rolls** have a patented “open window” feeding chamber, which guarantees traction of stalks and superior feeding in all crop conditions. The 10 razor sharp blades on each roll cut, chop and shear cornstalks into confetti-like pieces for accelerated decomposition, easier planting and higher yields. As a result, you’ll be able to more effectively manage residue during tillage and planting. Note: New pinion shaft couplers will be sent with your purchase in order to install stalk rolls.

**STEP 2**

**Install Calmer Multi-Zone Beveled Stripper Plates and Transition Plates (Required)**

**Calmer Multi-Zone Beveled Stripper Plates** are straight in the front retrieving area to reduce the lodging of ears and have a more forgiving opening to minimize the bulldozing of cornstalks at the end rows or when not fully aligned with the rows. The beveled contour toward the back of the plates emulates the bottom portion of the corn ear, which helps reduce butt shelling while simultaneously reducing trash intake by allowing husks and leaves to pass through the stripper plate gap onto the ground instead of into the combine. **Calmer’s Transition Plate** is designed to prevent the bunching-up of material near the top of the stripping tunnel in damp conditions.

**STEP 3**

**Install 7-Tooth Drive and 9-Tooth Idler Sprockets and Chrome-Pin Gathering Chains**

**Chrome-Pin Gathering Chains** are an available option with every upgrade kit. The chrome-pin design results in a longer-lasting, more durable chain. Calmer’s **9-Tooth Idler Sprockets** are non-greaseable with replaceable bearings and have a solid-steel design for increased wear life and lower maintenance than OEM idler sprockets. The larger 9-tooth idler sprocket design also improves the gathering chains’ grabbing ability for easier harvesting in down corn conditions. We recommend running the factory **7-Tooth Drive Sprockets** with the 9-tooth idler sprocket combination. **Calmer’s Over-Sized Plastic Gathering Chain Paddles** can be installed on the gathering chain lugs to improve both the gathering and conveying of material.

Side-by-side comparison just 7 months after harvest shows superior residue decomposition when using Calmer BT Chopper® stalk rolls compared to OEM stalk rolls.
NEVER CHOP STALKS AGAIN!

PATENTED FEEDING CHAMBER allows stalks to be easily engaged and processed.

MULTI-ZONE BEVELED STRIPPER PLATES
(Required with all Case 3000 Upgrade Kits)

TRANSITION PLATE

9-TOOTH IDLER SPROCKETS

OVER-SIZED PLASTIC GATHERING CHAIN PADDLES

7-TOOTH DRIVE SPROCKETS

SPROCKETS & CHROME-PIN GATHERING CHAINS

MULTI-ZONE BEVELED STRIPPER PLATES

NEVER CHOP STALKS AGAIN!

BT CHOPPER® STALK ROLLS
WORLD'S ONLY ALL-WEATHER STALK ROLL®!

CASE-IH 3200/3400 & NH 98D SERIES

(309) 629-9000
Follow Calmer’s 3-step upgrade process to solve many of your corn head and residue management problems.

**STEP 1**

**Install Calmer BT Chopper® Stalk Rolls and Grass Knives**

Reliable and effective stalk rolls are critical to a top-performing corn head. **Calmer’s BT Chopper® Stalk Rolls** have a patented “open window” feeding chamber, which guarantees traction of stalks and superior feeding in all crop conditions. The 10 razor sharp blades on each roll cut, chop and shear cornstalks into confetti-like pieces for accelerated decomposition, easier planting and higher yields. As a result, you’ll be able to more effectively manage residue during tillage and planting. **Calmer Grass Knives** are designed to be installed with BT Choppers® to prevent the back wrapping of grasses around the nose cone.

**STEP 2**

**Install Calmer Multi-Zone Beveled Stripper Plates and Transition Plates**

**Calmer Multi-Zone Beveled Stripper Plates** are straight in the front retrieving area to reduce the lodging of ears and have a more forgiving opening to minimize the bulldozing of cornstalks at the end rows or when not fully aligned with the rows. The beveled contour toward the back of the plates emulates the bottom portion of the corn ear, which helps reduce butt shelling while simultaneously reducing trash intake by allowing husks and leaves to pass through the stripper plate gap onto the ground instead of into the combine. **Calmer’s Transition Plate** is designed to prevent the bunching-up of material near the top of the stripping tunnel in damp conditions.

**STEP 3**

**Install 32-Tooth Crown Gear and Calmer’s 12-Tooth Accelerator Drive Sprocket**

The high speed at which Geringhoff NorthStar Corn Heads run often results in increased ear bounce and butt shelling issues. By installing a **32-Tooth Crown Gear** in the gear case, the corn head will run slower, which will help decrease both ear bounce and butt shelling problems. After installing the 32-tooth crown gear, we recommend installing Calmer’s **12-Tooth Accelerator Drive Sprocket** to better synchronize gathering chain speed to stalk roll speed, which optimizes performance. Sprocket only available for splined shaft.

Side-by-side comparison just 7 months after harvest shows superior residue decomposition when using Calmer BT Chopper® stalk rolls compared to OEM stalk rolls.
“I can go faster through the field and the Choppers really do a job on the stalks. Planting is easier since the stalks have decomposed.”

David Wilson
FRANKLIN, IL
Follow Calmer’s 2-step upgrade process to solve many of your corn head and residue management problems.

**STEP 1**

**Install Calmer BT Chopper® Stalk Rolls**

Reliable and effective stalk rolls are critical to a top-performing corn head. **Calmer’s BT Chopper® Stalk Rolls** have a redesigned nose cone and a patented “open window” feeding chamber, which guarantees traction of stalks and superior feeding in all crop conditions. The 8 razor sharp blades on each roll cut, chop and shear cornstalks into more management pieces for accelerated decomposition, easier planting and higher yields. As a result, you’ll be able to more effectively manage residue during tillage and planting.

**STEP 2**

**Install Calmer Multi-Zone Beveled Stripper Plates**

**Calmer Multi-Zone Beveled Stripper Plates** are straight in the front retrieving area to reduce the lodging of ears and have a more forgiving opening to minimize the bulldozing of cornstalks at the end rows or when not fully aligned with the rows. The beveled contour toward the back of the plates emulates the bottom portion of the corn ear, which helps reduce butt shelling while simultaneously reducing trash intake by allowing husks and leaves to pass through the stripper plate gap onto the ground instead of into the combine.

Side-by-side comparison just 7 months after harvest shows superior residue decomposition when using Calmer BT Chopper® stalk rolls compared to OEM stalk rolls.
NEVER CHOP STALKS AGAIN!

Verify if Electric Stripper Plates are Narrow or Wide Frame

It is necessary to verify if your corn head is equipped with the wide-frame or narrow-frame electric stripper plate design, if applicable. This can be determined by measuring the top shield of the row unit, directly over the gear box. A gear box cover (shield) measuring 17 3/4” is a narrow frame. A gear box cover (shield) measuring 19 5/16” is a wide frame.

17 3/4” = Narrow Frame
19 5/16” = Wide Frame

PATENTED FEEDING CHAMBER
allows stalks to be easily engaged and processed

MULTI-ZONE BEVELED STRIPPER PLATES WIDE FRAME OR NARROW FRAME

MANUAL ADJUST MULTI-ZONE BEVELED STRIPPER PLATES

ELECTRIC ADJUST MULTI-ZONE BEVELED STRIPPER PLATES
As the builder of the world’s first row-independent 12- and 15-inch corn heads along with the world’s largest corn heads, we’ve spent decades developing patented technologies that give Calmer Corn Heads unrivaled capabilities. Available in any number of rows and row width, our corn heads are manufactured with our entire suite of patented residue management products to exceed your harvesting expectations.

Advantages of a Calmer Corn Head
- Performs in all crop conditions
- Faster harvesting speeds
- Smallest residue sizing
- Less butt shelling
- Less moving parts
- Less weight
- Lower maintenance
- Less trash intake in both standing and down corn
- Increased gathering chain life
- Warmer soils
- Drier soils
- Less horsepower requirements
- Less grain loss
- Less fuel needed
- More bu/AC harvested per day

Renting/Purchasing a Custom-Built Calmer Corn Head

29 www.CalmerCornHeads.com

Calmer 32-Row, 15-Inch Corn Head
Equipped with Calmer’s Full Residue Management Kit

Corn Heads Available for Rent or Purchase!

Call (309) 629-9000 for Pricing and Availability
By design, Calmer Corn Heads help maximize your profit potential by enabling you to harvest faster and more effectively than ever before. Here’s how:

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Lightweight</strong></td>
<td>Our patented single-chain design in combination with our low-profile, super-short poly hoods and dividers result in one of the lightest row units in the industry.</td>
</tr>
<tr>
<td><strong>Multi-Zone Beveled Stripper Plates</strong></td>
<td>The unique design of our stripper plates helps reduce ear wedging and butt shelling issues. The stripper plate’s beveled design also allows our BT Chopper® Stalk Rolls to engage more corn leaves, shanks and husks in order to reduce trash intake and minimize horsepower requirements. The plates’ elongated design also allows for more efficient harvesting of low hanging ears in down corn.</td>
</tr>
<tr>
<td><strong>BT Chopper® Stalk Rolls</strong></td>
<td>Calmer BT Chopper® Stalk Rolls chop, cut and shear cornstalks into confetti-like residue for unrivaled residue management capabilities.</td>
</tr>
<tr>
<td><strong>High-Profile, Shorter Snouts</strong></td>
<td>Among the shortest on the market, our high-profile snouts make it easy to maneuver through narrow rows and around tight contoured areas.</td>
</tr>
<tr>
<td><strong>Strategically Realigned</strong></td>
<td>Calmer Corn Heads are realigned to allow superior material flow from the tray to the feeder house, reducing ear toss and allowing for maximum flow in high-yielding and high-speed harvest conditions.</td>
</tr>
<tr>
<td><strong>6-Tooth Drive Sprocket</strong></td>
<td>The Calmer® 6-Tooth Drive Sprockets slow down gathering chains by 25%, reducing trash intake by as much as 61%.</td>
</tr>
<tr>
<td><strong>Single Chain Design w/ Polyethylene Ear Guide</strong></td>
<td>Calmer’s UHMW (Ultra High Molecular Weight) polyethylene ear guide forms a retaining wall to maintain engagement of the ears with the enlarged hardened steel gathering chain paddles. By utilizing Calmer’s single chain system, the second chain, chain guide, drive sprocket, drive shaft, idler block, idler sprocket and chain tension spring are eliminated, significantly reducing weight and maintenance.</td>
</tr>
</tbody>
</table>

Stainless steel back walls, trays and auger strippers are standard features on all Calmer Corn Heads.
**Standard Features**

- 12”, 15”, 20”, 22”, 24”, and 30” row spacing
- Any color poly deck covers, dividers and wear points to match your combine
- Calmer BT Chopper® Stalk Rolls
- Calmer Multi-Zone Beveled Stripper Plates for unrivaled husking and leaf ejection
- Stainless steel back wall, tray, and auger stripper
- Single- or dual-chain design
- Calmer’s patented 6-tooth trash-reducing drive sprockets for superior stalk ejection
- Outer row strippers offset 1/4-inch for reducing ear loss over the end divider
- Calmer realignment package for ear toss reduction and maximum horizontal flow rates
- Cross auger with 18-inch diameter and 26-inch pitch
- Cross auger adjusted with 1 3/4-inch clearance for reduced ear slicing and cracked kernels
- John Deere gathering chain tighteners
- High-performance gathering chain with tall 2.25 x 2.5-inch nylon paddles
- Oil bath with 80H heavy chain and 1 1/4-inch heavy duty driveline
- Telescoping PTO shafts
- Flashers
- One year parts/labor warranty

**Additional Options**

- Stubble lights
- Automatic header height control
- Row Sense (Auto Guidance)

*ALL CALMER CORN HEADS come equipped with Calmer’s Patented BT Chopper Stalk Rolls® and Deluxe Residue Management Upgrade Kit*
Top Tips for a Better Corn Harvest

1. **Corn Head Angle:** Adjust to 23-25 degrees for standing corn and 20 degrees for down corn conditions. To check the angle, park the combine on a level surface and lower the header until the lowest point of the row unit is approx. 2-inches above the ground. Place a protractor on the stripper plate and read the angle. Adjust accordingly.

2. **Gathering Chain Speed:** Begin calibration with initial gathering chain speed of 55 RPMs. If butt shelling is a problem, slow down corn head speed until it starts to bulldoze cornstalks, then speed back up until bulldozing stops.

3. **Stripper Plate Gap:** Begin with normal settings of 1 1/8-inch gap at the front and 1 3/16-inch gap at the rear, then adjust accordingly to ensure plates are 1/16-inch wider than the diameter of the 3rd cornstalk node above the brace root. Ensure stripper plate gap is centered over the stalk rolls.

4. **Cross Auger:** Adjust vertically to have 2-inches clearance between flighting and tray at the tightest point to reduce ear slicing. Also, adjust rearward as far as possible.

5. **Feeder Chain:** Adjust to max length and/or as close to the corn head’s cross auger as possible. Run as fast as possible to reduce the likelihood of ears piling up during the hand-off from the corn head to the feeder house.

6. **Rotor Speed:** Increase until the first cracked kernel appears in grain tank, then slowdown by 10 RPMs.

7. **Fan Speed:** Increase until the red chaff and pieces of broken leaves are gone.

8. **Bottom Sieve:** Run wide open. There is no part of the corn cob that needs re-threshed. Running wide open allows more air to reach the top sieve. If cobs appear in the tank, then the top sieve is too far open.

9. **Top Sieve:** Close to remove broken cobs and achieve desired appearance in grain tank sample.

10. **For Red Combines:** Adjust transport vanes to the retarded position. This will reduce kernel loss from the rotor area.

Top Tips for a Better Soybean Harvest

1. **Harvesting the Soybean Field:** Start harvesting on the downwind side. The wind will help spread straw away from uncut soybeans. Also, it is a good idea in case of fire.

2. **Sickle Bars:** 3-inch sickle bars allow residue to flow better in no-till or higher-residue environments.

3. **Draper Heads:** Perform better than auger-fed platforms in all conditions.

4. **Cross Auger:** Clearance should be 1/16-inch between flighting and tray.

5. **Feed Chain:** Extend so chain is adjusted as close as possible to the auger or draper belt. This improves the hand-off of material from the platform to the feeder house chain.
6. **Reel Speed:** Synchronize reel speed to ground speed. Reel RPMs should be 10 times the ground speed. Example: 4 MPH ground speed = 40 RPM on reel.

7. **Rotor Speed:** Increase rotor speed until the first cracked soybean appears in the grain tank, then slowdown by 10 RPMs.

8. **Concave Clearance:** Open until rotor loss occurs, then close slightly.

9. **Concave:** Improve the threshing power of green soybean pods by installing concave inserts, filler bars or filler plates in the concave. This allows for green pods to rub against green pods, significantly reducing un-threshed pods in the tank.

10. **Fan Speed:** Increase speed until all pod hulls have left the grain tank sample, then slow down by 50 RPMs. Marion runs his combine fan at maximum speed.

11. **Bottom Sieve:** Run wide open to let air flow to the top sieve.

12. **Top Sieve (Front Position):** Close until the grain tank has 99% clean soybeans.

13. **Top Sieve (Rear Portion):** Close until un-threshed pods start going over the back, then open up 1/8-inch to allow them to fall into the return auger.

14. **Red Combines:** Adjust transport vanes to advanced position. This reduces the bleeding of horsepower and the amount of fodder and stems (MOG) that fall through the rotor cage and onto the top sieve.

### Top Tips for Harvesting Down Corn

1. **Corn Head Angle:** Flatten corn head angle to 20 degrees for down corn conditions, making gravity less of an enemy. To check the angle, park the combine on a level surface and lower the header until the lowest point of the row unit is 2-inches above the ground. Place a protractor on the stripper plate and read the angle. For some make/models, it may be necessary to pushout the bottom of the corn head with a wedge kit in order to achieve the proper angle.

2. **Use stalk rolls with a revolving open window feeding chamber.** The open window will result in the easy feeding of stalks from the spirals to the stalk roll blades. Currently, Calmer’s BT Chopper® Stalk Roll is the only stalk roll in the industry with this patented open-window feeding chamber design.

3. **Install Calmer’s down corn gathering chain paddles on every other gathering chain lug.** This increases the grabbing and conveying ability of gathering chains.

4. **Install auto header height on your corn head.** We recommend a Headsight sensor system. The Headsight system is more sensitive and is spring loaded so you can back-up without it breaking-off. (Headsight, Inc. Phone #: 574-546-5022)

5. **Synchronize gathering chain speed to ground speed.** We prefer to have the gathering chain lugs moving toward the header at the same speed as the cornstalks.

6. **Raise the cross auger.** We recommend setting the clearance between the tray and auger flighting at 2-inches. This clearance allows the dislodged material floating above the poly deck covers to be sucked under the auger and transported to the feeder house.
7. **Open stripper plates.** This reduces the energy required to move dislodged material through the row unit. We recommend setting stripper plate gaps to 1 1/2-inches in down corn situations.

8. **Use more taper from bottom to top of the stripper plates.** For example: Setting stripper plates to 1 3/8-inches at the bottom and 1 1/2-inches at the top (near the gear box).

9. **Center the stripping tunnel above the stalk roll tunnel.** One problem with hydraulic plates is that only one plate moves, therefore shifting the stripping tunnel to one side, ultimately causing restriction and breakage of the stalks.

10. **Synchronize gathering chain lugs so they are opposed from one another.** This ultimately increases the aggressiveness of the gathering chains. We do not recommend this in rocky conditions or standing corn.

11. **Install a corn reel.** This provides more energy for transporting dislodged material from divider snouts to the cross auger.

12. **Take off any end risers or tall corn extensions.** This will reduce the angle of incline and improve the flow of material.

13. **Remove rubber ear savers.** This will reduce the energy required for material to flow to the cross auger.

14. **Add weight to poly divider snouts to help them stay under the canopy.** Some brands of poly divider snouts are too light and want to hop up and out of the canopy.

15. **Grind the wear shoe tips of the dividers or shim to give them more pitch.** This will help them stay under the canopy. Be careful not to make them too aggressive, which could result in them self-engaging and folding underneath the head.

16. **Turn gathering chains around to increase aggressiveness.**

17. **Start harvesting on the downwind side of the field.** If the corn rows run north and south, and the corn is blown down to the east, start on the east side and work your way to the west. This will significantly reduce end divider plugging and bunching.

“I was very impressed with Calmer Corn Heads’ 1615. We harvested our 15” row corn at 20-28% with the 1615 in both standing corn and down corn conditions. The 1615 was able to minimize the losses of down corn by operating in a non-row sensitive manner and traveling at whatever angle was necessary for those conditions. The 1615 was also equipped with the Calmer BT Choppers® that sized the heavy corn residue preparing the field for the following planting season.”

Randy Dowdy  
VALDOSTA, GA  
NCGA Champion and 1st farmer in history to top the 500 bu/AC
THE HISTORY OF CALMER CORN HEADS

Marion Calmer, a farmer and inventor from western Illinois, is the CEO of Calmer Corn Heads, Inc. and the founder of Calmer’s Ag Research Center, the largest independently funded, farmer-run ag research center in the United States. He is credited with inventing the world’s first single chain, narrow row corn head for 12- and 15-inch rows, along with building the world’s largest corn heads. As the owner of more than a dozen patents that have helped revolutionize the ag industry in America, Marion’s top priority is to help other farmers maximize their potential profits through research and innovation. Throughout the years, he has been named one of agriculture’s most influential people, voted as a “No-Till Legend,” and received the “Public Image of Agriculture” Award.

Background
Marion started his farming operation of 80 acres of corn and 10 gilts in 1975. In 1978, he graduated from Black Hawk College – East Campus with an associate degree in applied sciences. Throughout his farming career, he has grown corn, soybeans, seed corn, soybean seed, and has run a swine operation.

As the descendant of a long line of entrepreneurs, Marion was born with the gift of finding solutions to problems. With mechanically inclined blood running through his veins, Marion spent thousands of hours modifying and inventing farm machinery that would one day change how farmers around the world plant and harvest corn crops. Throughout Marion’s career, he has gone from conventional tillage to no-till, adopted the use of biotechnology, and has gone from growing corn and soybeans in 40-inch rows to growing both crops in 15-inch rows.

Reducing input costs on his farm and for his customers is another area in which Marion’s dedication remains undeterred. Since moving to 15-inch rows, he has been able to reduce his herbicide treatments down to one pass and the number of field passes that it takes to grow a crop from 9 to 3.

In 1991, Marion was selected as one of four finalists for the Illinois Soybean Association’s Young Leader Program. Marion has been a DuPont No-till Neighbor and a featured speaker at DuPont and Monsanto Residue Management Conferences, along with the National No-Till Conference from 1994 to present times. He is also a corporate member of the Conservation Technology Information Center (CTIC). In 1994 and 1995, he received State and National Honor Awards from the Soil and Water Conservation Society (SWCS) and was nominated for the JC Young Farmer Award in ‘95 and ‘96, and won the No-Till Innovator Award for the Public Image of Agriculture Category.
Marion’s grandfather Ansker and great uncle Barney Calmer were some of the first farmers to put a corn sheller on a solid rubber-tired Model T truck. They used this for several years as they went from farm to farm shelling corncribs. Marion and his brother Donavin in 2013 in front of a Calmer 32-row, 15-inch corn head, the world’s largest at the time. The water reservoir in the background can also be seen in the 1920 picture with Marion’s ancestors.
We hope you’ll stop by and see us at one of the following trade shows near you!

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<thead>
<tr>
<th>Date</th>
<th>Event</th>
<th>Location</th>
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<tbody>
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<td>September 1-3, 2020</td>
<td>Farm Progress Show</td>
<td>Boone, IA</td>
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<td>September 15-17, 2020</td>
<td>Husker Harvest Days</td>
<td>Grand Island, NE</td>
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<tr>
<td>September 15-17, 2020</td>
<td>Big Iron Farm Show</td>
<td>West Fargo, ND</td>
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<td>September 22-24, 2020</td>
<td>Farm Science Review</td>
<td>London, OH</td>
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<tr>
<td>December 1-3, 2020</td>
<td>Peoria Farm Show</td>
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<td>December 8-10, 2020</td>
<td>NE Power Farm Show</td>
<td>Lincoln, NE</td>
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<tr>
<td>January 12-15, 2021</td>
<td>National No-Till Conference</td>
<td>St. Louis, MO</td>
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<td>January 12-14, 2021</td>
<td>Fort Wayne Farm Show</td>
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<td>Rock Island, IL</td>
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<td>February 2-4, 2021</td>
<td>Iowa Power Farm Show</td>
<td>Des Moines, IA</td>
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<tr>
<td>February 10-13, 2021</td>
<td>National Farm Machinery Show</td>
<td>Louisville, KY</td>
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<tr>
<td>March 4-6, 2021</td>
<td>Commodity Classic</td>
<td>San Antonio, TX</td>
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</tbody>
</table>
THE ECONOMICS

We believe if you’re going to spend your hard-earned money, there must be a return on your investment (ROI). Complete the ROI plan below to see how it pays to run Calmer Products!

1. 6 bu/AC increase when growing continuous corn
   * Corn Value at $3.40 bu
   \[= 20.40 \times \text{Acres} \]
   \[= \text{ } \text{ } \text{ } \text{ } \]

2. 2 bu/AC increase in no-till soybeans in a corn-soybean rotation
   * Soybeans valued at $8.85 bu
   \[= 17.70 \times \text{Acres} \]
   \[= \text{ } \text{ } \text{ } \text{ } \]

3. Eliminate chopping cornstalks
   * Chopping cornstalks valued at $12.40 per acre
   \[= 12.40 \times \text{Acres} \]
   \[= \text{ } \text{ } \text{ } \text{ } \]

4. Eliminate Vertical tillage
   * Vertical tillage valued at $18.75 per acre
   \[= 18.75 \times \text{Acres} \]
   \[= \text{ } \text{ } \text{ } \text{ } \]

5. Add totals from 1, 2, 3, and 4 together
   \[= \text{ } \text{ } \text{ } \text{ } \]

Potential annual savings by switching to Calmer Products.

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* Corn and soybean values based on market year average prices for 2020, published by USDA in “Agricultural Projections to 2029”

1. “Residue and Agronomic Management to Lessen the Continuous Corn Yield Penalty,” Alison Vogel, Tryston Beyrer, Dr. Fred Below – Department of Crop Sciences, University of Illinois at Urbana-Champaign

2. Calmer Agronomic Research Center


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