



Farmer Invented. Farmer Tested. Farmer Proven.®

**ADAPTABLE FOR
ALL CROPS!**



**HIGH PERFORMANCE
CONCAVE UPGRADE KIT**

For Most John Deere * Rotary Combines

www.CalmerCornHeads.com

(309) 629-9000

Disclaimer: *Calmer is not associated nor affiliated with John Deere. Reference to John Deere is solely for the purpose of identifying the products in which the Calmer aftermarket components are designed to function.

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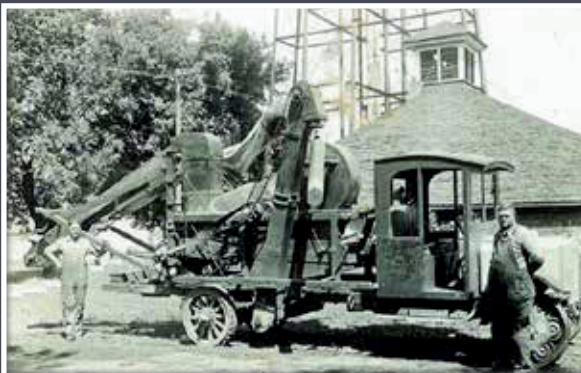
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1920: Marion's grandfather Ansker and great uncle Barney Calmer were some of the first farmers to put a corn sheller on a solid rubber-tired Model T truck. They used this for several years as they went from farm to farm shelling corncribs.



2013: Marion and his brother Donavin in front of a Calmer 32-row, 15-inch corn head, the world's largest at the time. The water reservoir in the background is the same in the picture to the left of Marion's ancestors.

WHAT FARMERS ARE SAYING ABOUT THE HIGH PERFORMANCE CONCAVE UPGRADE KIT:

"We were very pleased with the quality of the grain and the ability to handle a wide variety of the crop conditions we were encountering."

*-John Hohenberger
Northern IL*

*Mike Shaw-
Central IA*

"The fines and quality of corn was way different after running these concaves. The fines went way down and the quality of corn in the sample was much better."

"They did a phenominal job in corn and soybeans. Calmer is all about high quality products and people!"

*-Tom Corcoran
Western NY*

*JC Schemper-
Southern NE*

"The concaves and inserts work miracles in Milo!"

"Had an awesome sample in soybeans and corn with the Calmer concaves. Loving them!"

*-Frank Szymanski
Eastern MI*

*Heath Wilken-
Central NE
U.S. Custom Harvesters*

"I harvested 7,000 acres of peas, wheat, milo and corn over a 5 month window in 5 different states. The Calmer High Performance Upgrade Kit is user friendly for different crops. Very clean samples and increased capacity."

CORN HARVEST

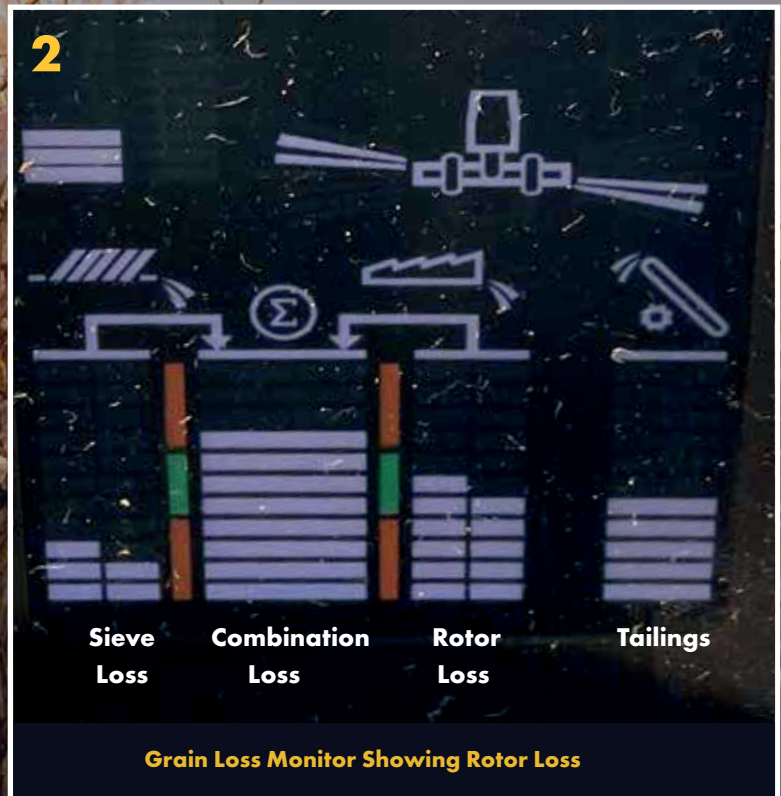
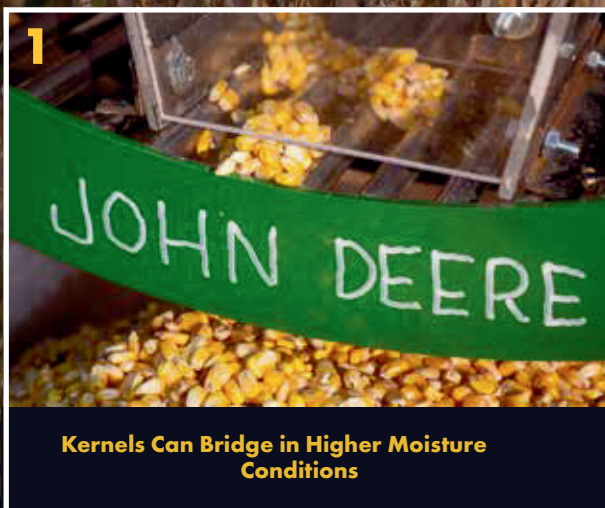
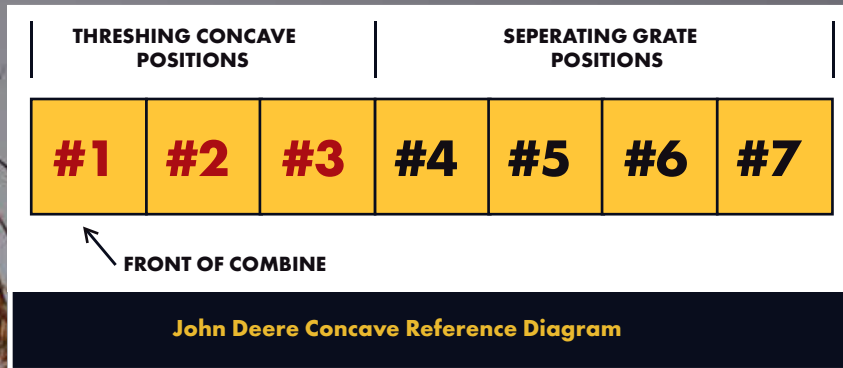
SYMPTOM 1

Rotor Loss

Problem: OEM Concaves spacing between round bars is too narrow for corn

What Causes the Problem?

The current John Deere round bar concaves have narrow spaces. These narrow openings cause unnecessary grain flow restriction (see figure 1). The kernels then mix with material other than grain (MOG), which are then carried out of the rear of the rotor chamber and discharged on the ground (rotor loss) (see figure 2)



OUR SOLUTION

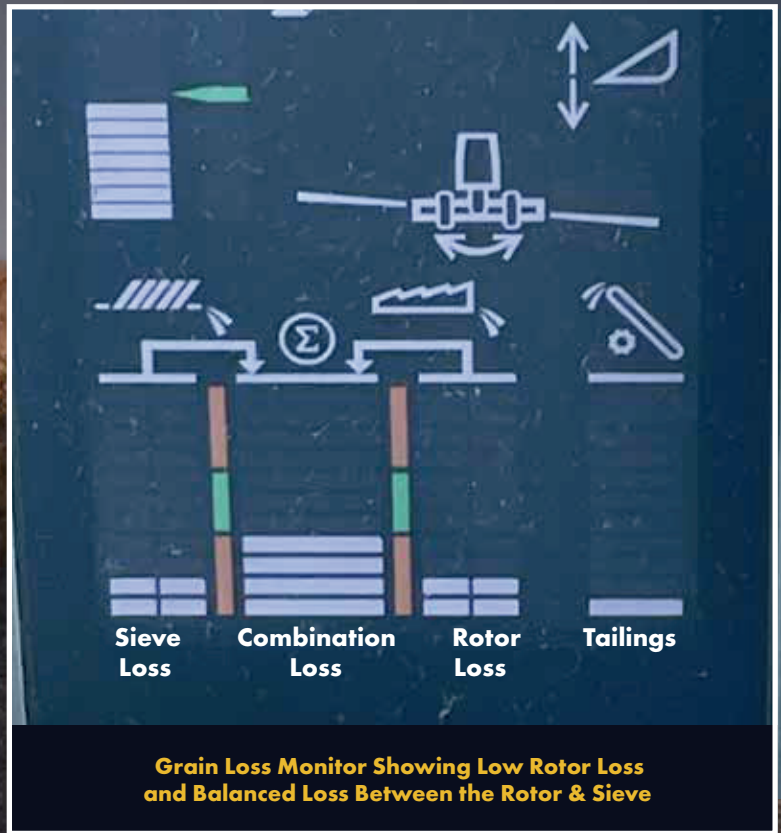
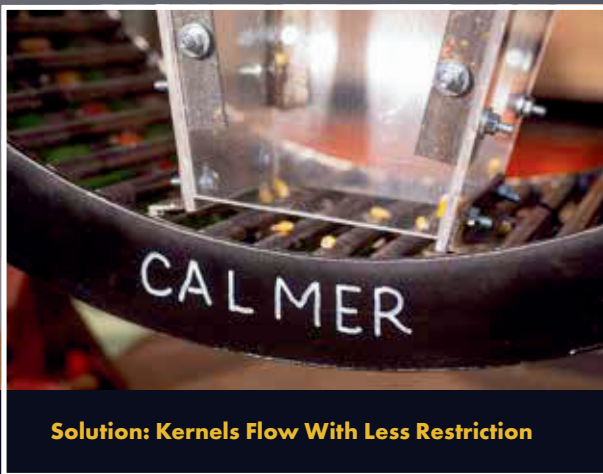
Calmer Enhanced Flow Concaves Utilize Wider Spacing Between Roundbars to Increase Flow in Corn

How Calmer Enhanced Flow Round Bar Concave Solves the Problem

The Calmer Enhanced Flow Round Bar Concave has wider spacing between bars. This increase in opening space significantly increases flow rates when harvesting wet corn. The unique design of the Calmer Enhanced Flow Round Bar Concave allows shell corn to exit the threshing chamber faster and therefore reduces rotor loss.

Results

You can expect less rotor loss, a cleaner sample (less splintered cobs), higher flow capacity, and lower sieve loss.



SYMPTOM 2

Splintered Cobs in the Grain Tank

Problem: OEM Concaves spacing between round bars is too narrow for corn

What Causes the Problem?

For corn harvest, factory round bar concaves have narrow spacings that restrict corn from efficiently escaping the threshing chamber. Combine operators mistakenly try to solve rotor loss by reducing concave clearance. This is counterproductive because it increases compression on the cob which causes the cob to splinter into small pieces. These splintered pass through the sieve and into the grain tank. Below is an exemplary images of this issue



Splintered Cobs in the Grain Tank

OUR SOLUTION

Calmer Enhanced Flow Concaves Utilize Wider Spacing Between Roundbars to Increase Flow in Corn

How Calmer Enhanced Flow Round Bar Concave Solves the Problem

The Calmer Enhanced Flow Round Bar Concave is uniquely designed with wider openings compared to factory round bar concaves. This results in less compression during threshing and a higher percentage of whole cobs retained in the rotor area. This reduces the unnecessary overloading of the cleaning system with splintered cobs.

Results

You can expect fewer splintered cobs and a cleaner sample of shelled corn. This upgrade also increases flow capacity and ground speed.



Scan the QR code
with your phone
to see the Calmer
solution.



Clean Grain Tank Sample

CORN HARVEST

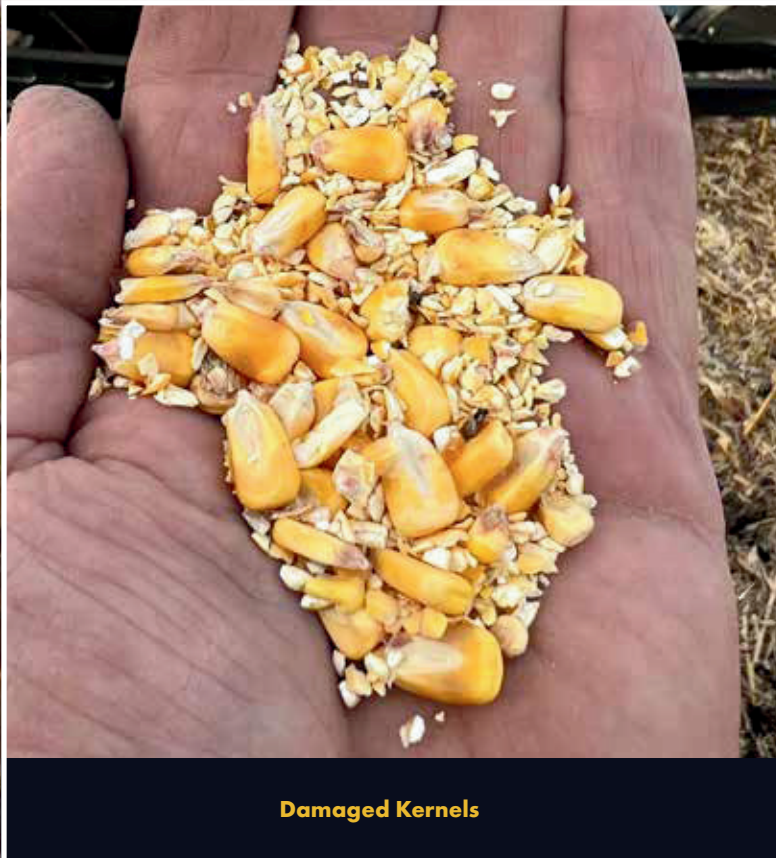
SYMPTOM 3

Cracked and Ground Kernels in the Sample

Problem: Factory Round Bar Concaves with Small Gaps Between the Bars in Positions #1, #2, and #3

What Causes the Problem?

For corn harvest, factory round bar concaves have narrow spacings that can cause kernels to bridge against each other and the round bars. The kernels are then unnecessarily retained in the rotor chamber, causing them to grind against each other. This problem increases when harvesting wet corn.



Scan the QR code
with your phone
to see how Calmer
solves this problem.



OUR SOLUTION

Install Calmer Enhanced Flow Round Bar Concaves in Positions #1, #2, and #3


How Calmer Enhanced Flow Round Bar Concave Solves the Problem

By widening the distance between the round bars, the wet kernels cannot bridge the gap between the bars and therefore fall through the concave openings into the auger bed. This significantly reduces and can even eliminate the excessive grinding of kernels against each other.

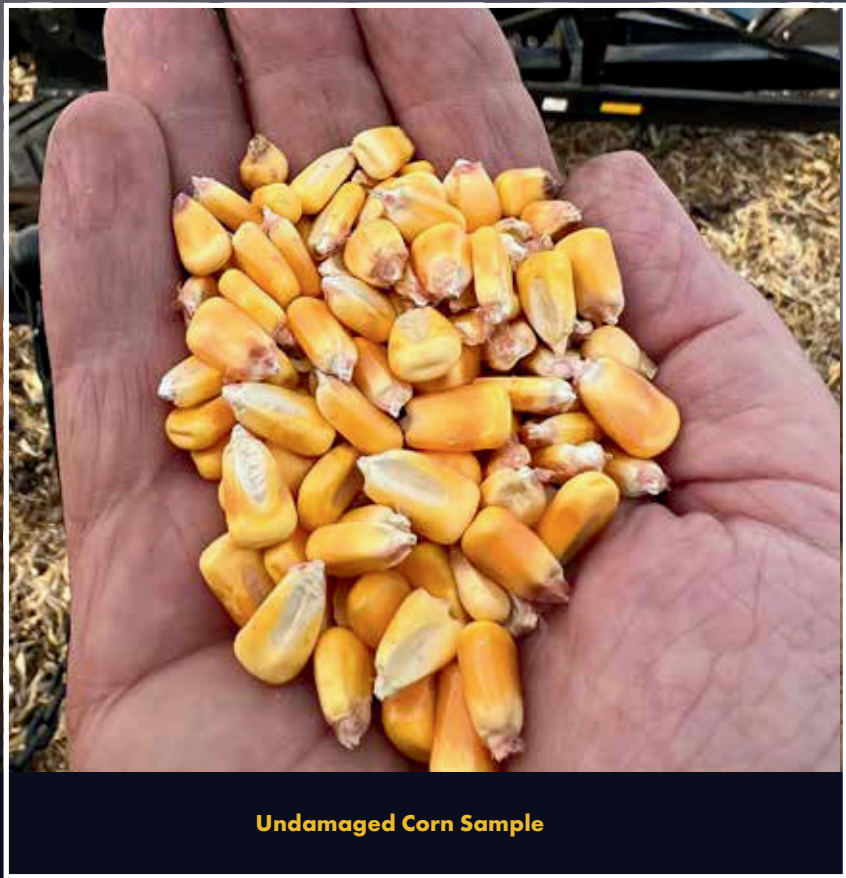
Results

You can expect less damaged grain and a cleaner sample.

Scan the QR code with your phone to see the Calmer solution at work on the grain loss monitor.



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CONTACT@FLOWOOD.COM



SOYBEANS & SMALL GRAINS HARVEST

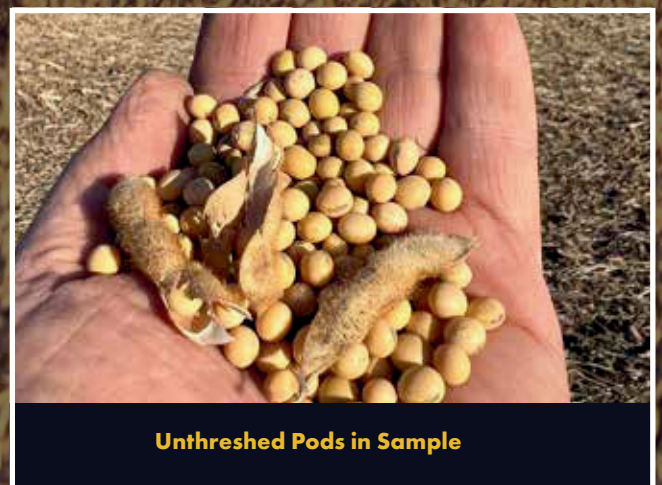
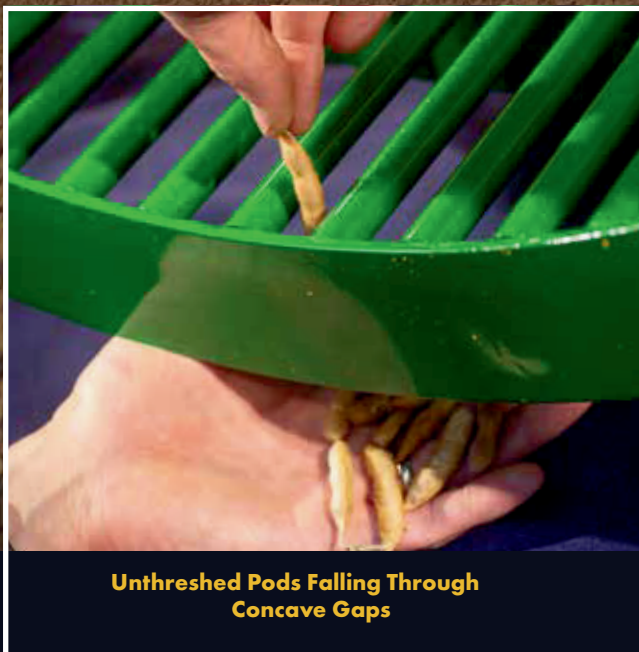
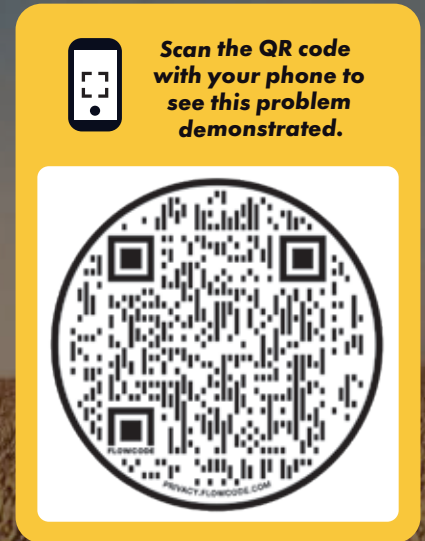
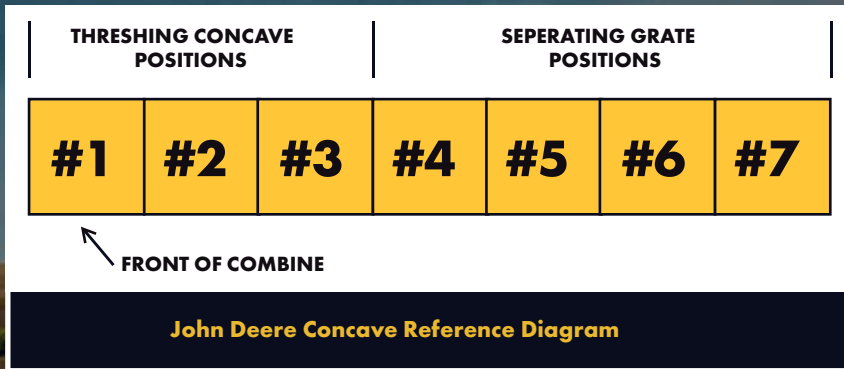
SYMPTOM 1

Unthreshed Pods in Sample or Excessive Tailings

Problem: No Cover Plates Under Concave in Position #1

What Causes the Problem?

When harvesting soybeans, most concaves used for corn harvest have openings too large to retain pods or small grain heads long enough for them to fully thresh. These unthreshed pods or heads then fall from the threshing chamber and end up on the top sieve. Once the unthreshed grain is in the cleaning system, it eventually overloads the bottom sieve causing unthreshed pods/heads to appear in the grain tank. Simply tightening the bottom sieve sends the pods/heads back for a second pass to be rethreshed and unnecessarily sends back threshed grain which causes splits.



OUR SOLUTION

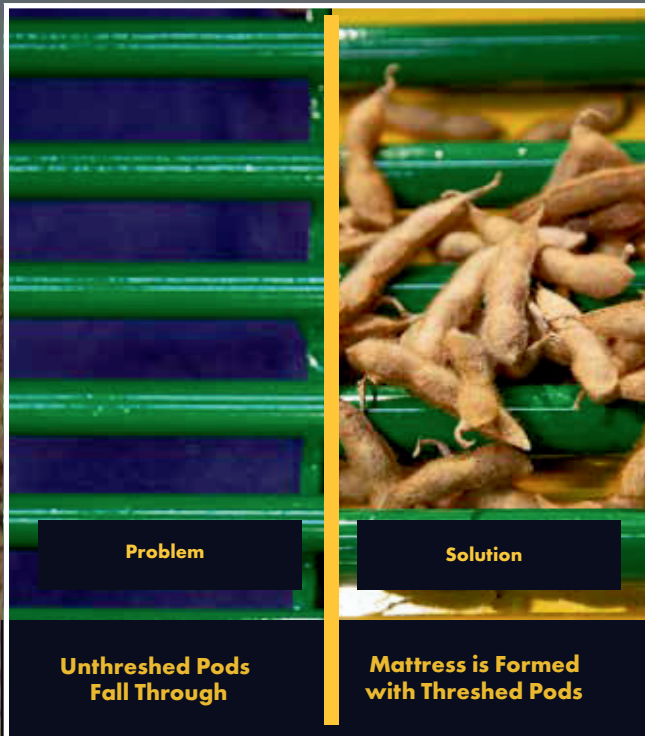
Install Calmer 1/4 Wrap Cover Plates to the Bottom Side of the Calmer Enhanced Flow Round Bar Concave in Position #1

How Calmer Pod Buster Cover Plates Solve the Problem

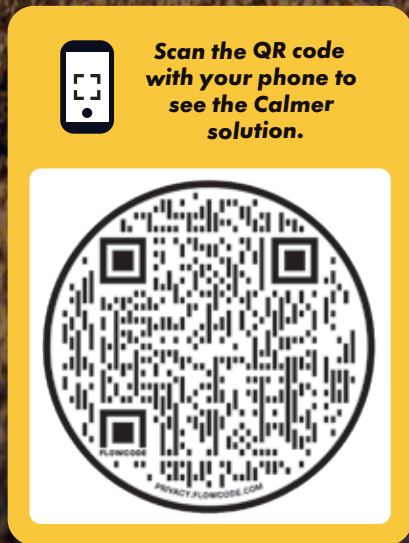
The Calmer Pod Buster Cover Plates retain material to fill the large openings and create a mattress-type surface. This retains pods/heads and causes them to gently rub against each other as they travel over the horizontal grain separation bars (see "solution" in below left image). This action more effectively threshes green and hard-to-thresh pods without damaging the internal soybean or grain.

Results

You can expect a more complete thresh, reduced tailings, and a cleaner grain sample.



Fully-Threshed Beans in Clean Sample



SOYBEANS & SMALL GRAINS HARVEST

SYMPTOM 2

High Sieve Loss, Excessive Tailings, Chaff in the Grain Tank

Problem: Unnecessary MOG Falling Through Large Concave Openings in Chambers #2 & #3

What Causes the Problem?

Factory concaves in chambers #2 and #3 have too large openings for harvesting soybeans and small grains which allow excessive amounts of MOG to pass with the grain. Eventually, this threshed material enters the cleaning system, overloads the chaffer, fails to separate, and then gets walked out the back over the top sieve as sieve loss (see "problem" in below middle image).



OUR SOLUTION

Install Calmer 1/4 Wrap MOG Limiting Concave Inserts into the Round Bar Concaves in Positions #2 and #3

How Calmer MOG Limiting Inserts Solve the Problem

Calmer 1/4 Wrap MOG Limiting Concave Inserts reduce the size of the openings between bars which limit the flow of excessive MOG leaving the rotor chamber. Because the cleaning system now contains a higher percentage of grain and a lower amount of MOG, less air will be required to separate the grain from the MOG on the top sieve, resulting in lower sieve loss (see "solution" in below middle image). Ultimately, fewer soybeans and small grains are walked out of the back of the combine as sieve loss.

Results

You can expect lower sieve loss, fewer tailings, and a cleaner sample.



Scan the QR code with your phone to see the Calmer solution.



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COMBINE UPGRADE KIT FOR CORN



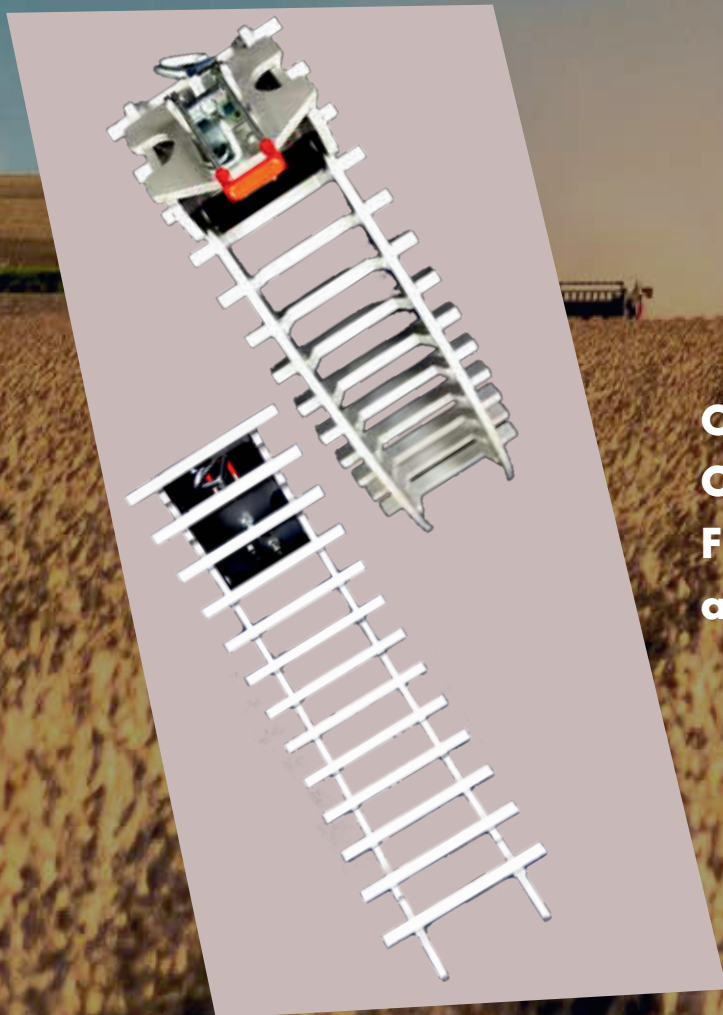
**Calmer Enhanced Flow
Round Bar Concave for
Positions #1, #2, and #3**

**INSTALL CONCAVES THAT MATCH
YOUR MACHINE'S CAPABILITIES!**

COMBINE UPGRADE KIT FOR SOYBEANS/SMALL GRAINS

Calmer 1/4 wrap Cover Plate for Installing Under Calmer Enhanced Flow Round Bar Concave for Position #1

Install two Cover Plates under concave in position #1.



Calmer 1/4 Wrap MOG Limiting Concave Insert for Enhanced Flow Concave for Positions #2 and #3

Install a maximum of 4 inserts on the right side and a maximum of 4 inserts on the left side in positions #2 and #3.



"The information in this book reflects the things I've learned to make harvesting more efficient and profitable throughout my 50+ years of operating harvesting equipment. I hope you found it useful and are encouraged enough to try these parts on your combine. Call my cell phone at (309) 368-1182 with any questions or call our front office at (309) 629-9000 to place your order."

Marion Calmer

CEO – Calmer

President – Calmer Ag Research Center

Owner/Operator – Calmer Farms

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8,863,487, 9,554,511, 9,560,804, 9,668,414, 10,039,232, 10,045,483, 10,420,281, 10,674,665, 10,785,911, 11,058,058, 11,071,252, 11,882,791
11,997,950, D1,023,700, D1,877,538, 12,010,949, D1,031,791, D1031792, D1031793.

Calmer also has additional applications for United States Patents covering the technology as disclosed in this brochure.

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Calmer Corn Heads Residue Management Upgrade Kit Limited Warranty

Calmer warrants our parts 100%. This warranty is good throughout the first season after purchase of the part. What this means is that if the part breaks within the first season of use, we will replace the part with a new one without charge to you. Calmer pays for the shipping both ways as well. In the alternative, if you wish, we will refund to you all of the money you paid to Calmer for the part. If the Calmer part does not work in a manner that you expected, we promise that we will work with you to adjust settings and to see if we can obtain satisfactory performance. In the end, if the Calmer part does not work on your farm to your complete satisfaction, we will refund your purchase price. Disclaimers: Calmer is not responsible for and does not warrant as to consequential damages or any other types of damages that may be claimed as a result of part breakage or unsatisfactory performance. In other words, except as stated herein all other warranties or liabilities, expressed or implied, oral or statutory including any warranty of merchantability or fitness for a particular purpose are expressly denied.



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