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# **Headers and Spreaders**

## **Southwestern Ag Conference 2014**





**Flexdraper or Flexauger header?**

**Airreel or no aireel?**





**Draper header no airreel**



# Airreel with double fan







**Flex draper with single fan air reel**



# Flex draper vs. Flex auger

- Both header types require perfect set up for excellent performance
- Not sure if we have seen a major advantage for either one
- Draper header looks mechanically simple but has more hydraulics
- Draper still needs airreel in short beans
- Double fans require up to 80 hp to drive
- MacDon section flex draper worked excellent – is a full flex draper better yet?

# Drago Chopping Cornhead







# Geringhoff Rotadisc









**Corn residue right after combining!**





**Chopped corn next spring!**





# Chopping vs. None Chopping

- **A lot faster residue breakdown – hardly any residue left by spring**
- **Can we go back to notill? Is shorter better?**
- **Chopping makes sense for all till systems**
- **Our lawnmower style chopping head seemed to require high maintenance**
- **Rotadisc: chops fine and splices the standing stalks – more decomposition potential, easy on tires**
- **Rotadisc requires less power than lawnmower style**
- **About 3-4\$/ac higher operating costs**



# Combine Residue Management Our Evolution over 35 years!



# Clean Till in Germany





# Claas Dominator 80 – 1978





# Claas 116 CS – 1985





# Claas Lexion 480 – 1993





# Mintill in Ontario





# JD 9400 – 1995





# Case 2188 – 1999





# JD 9650 – 2002





# JD 9760 – 2005





# Lexion 580 – 2009





# CaseIH 8230 – 2013





# Spreading the residue evenly

- Problems are the same in cleantill or min till – biggest problems in Notill
- Uneven emergence and growth: lower soil temperature, slow dry down, available nitrogen, hair pinning, air and water movement barrier
- Problem compensation with more tillage



# Take the leaf rake to the field!





# Combine Demo: Lex 580 vs. CaseIH 9120







**Too much load of straw on the right side!**  
**Demo combine not set right!**







A wide-angle photograph of a harvested wheat field. The foreground and middle ground are covered in a thick layer of golden-brown straw, which has been distributed in a distinct diagonal pattern across the field. In the background, a line of green trees and a few small buildings are visible under a blue sky with scattered white clouds.

**Almost perfect straw distribution!**





**Is this good enough for planting wheat ?**

**NO – we are loosing 3-5 bu wheat yield!**



A wide-angle photograph of a large, flat field of harvested grain, likely corn, under a cloudy sky. The field is a uniform brownish-gold color, indicating it has been cut. In the far distance, a line of trees and some buildings are visible on the horizon.

**Three weeks after combining!**

**John Deere STS**

**Case 8230 Fine Cut**

**Cutting length is as important as distribution!**





**WARNING**  
TO AVOID SERIOUS INJURY  
STOP ENGINE. REMOVE  
STARTER KEY. LOCK  
ALL MOVEMENT TO STOP  
BEFORE OPENING DOORS  
OR MAKING ADJUSTMENTS

**WARNING**  
STAY CLEAR  
WHEN MACHINE  
IS RUNNING

**Spread the chaff !!**





**JD – Premium chopper**



A detailed close-up view of the internal mechanical components of a CLAAS radial high performance chopper. The image shows a complex arrangement of dark, polished metal parts, including cylindrical housings, vertical support structures, and horizontal shafts. Numerous bolts and screws are visible, securing the various components. A bright yellow safety bar is visible at the top of the frame. In the background, a person's head and shoulders are partially visible, suggesting the machine is on display at an event. The overall lighting is somewhat dim, with highlights reflecting off the metallic surfaces.

**CLAAS – Radial High Performance chopper**

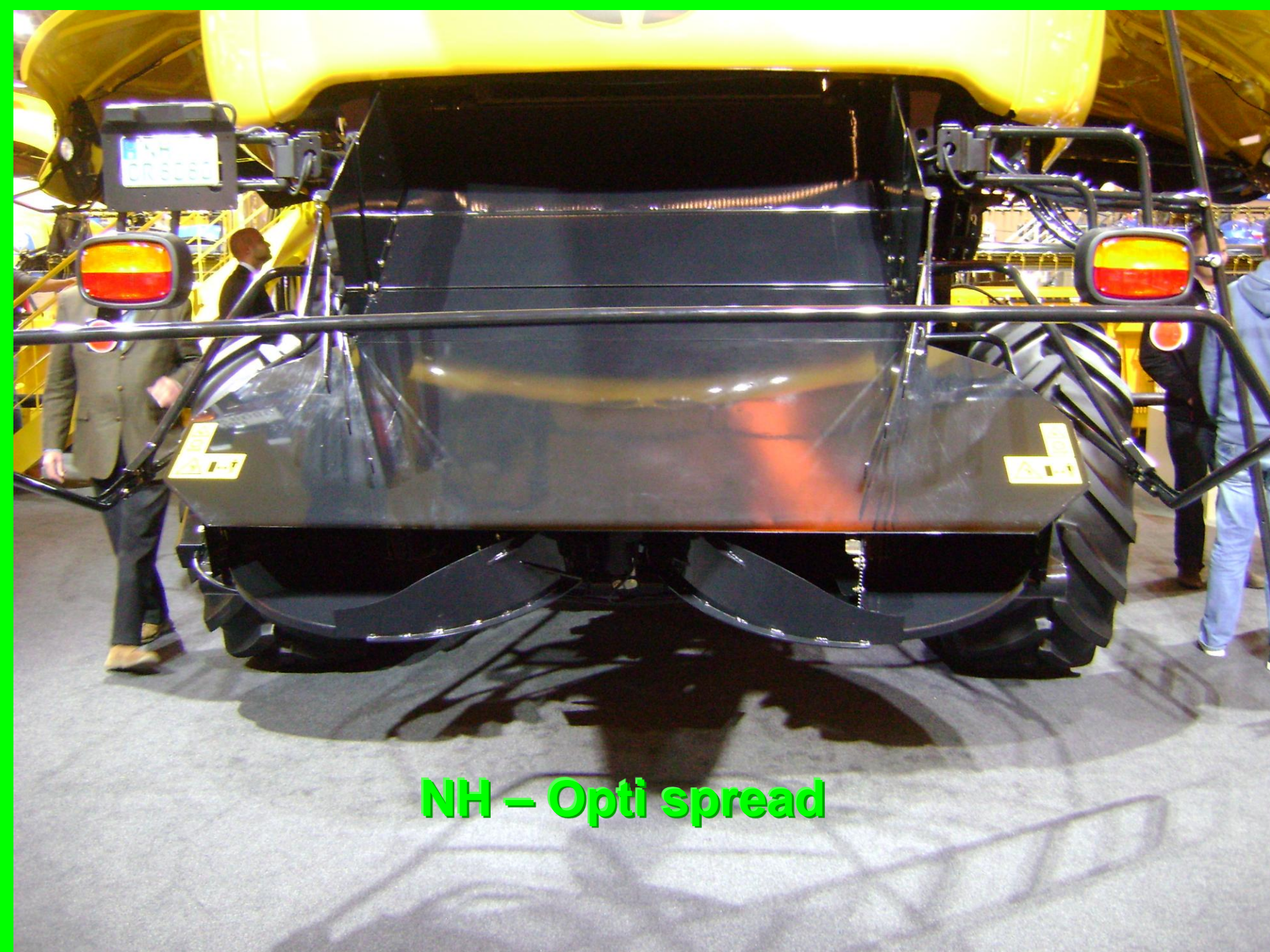




The image shows a close-up of the harvester head of a CLAAS combine harvester. The main body is painted a bright yellow. A black metal frame, part of the automatic sidewind adjustment system, is visible. A white rectangular plate is attached to this frame with two screws. In the lower-left corner, there is a red circular reflector. The text 'CLAAS – automatic sidewind adjustment' is overlaid in yellow at the bottom.

**CLAAS – automatic sidewind adjustment**





NH – Opti spread





**CaseIH – Magna Cut Deluxe**



# What's new with spreading?

- Active spreading devices for 40 to 45 ft
- In cab or automatic wind compensation
- In cab counter knife setting
- In cab spreading width setting
- Managing chaff and straw
- Long life hardened knives
- Raspbars or ledgers to shorten length
- Camera systems for easy on the go setting

**IT IS ALL AVAILABLE – JUST ASK FOR IT!**



# Combines have come a long way!





There is always room for improvement!

