MAXIMUM AIR VELOCITY STRAW CHOPPER

Put the No in Till.
Fast, uniform germination in the spring starts with seedbed preparation at harvest. Uniform distribution of straw and chaff (crop residue) across the width of the cutterbar is a critical component of any seeding system — especially reduced or no-till systems. Failure to manage crop residue properly can lead to poor seeding performance, such as:

- hair-pinning
- plugging
- poor and uneven emergence
- cold and wet soils under mats of residue
- toxic chaff-effects on seedlings.
The Cost of Poor Residue Management

The costs of using tillage operations to manage crop residue add up.

**OPERATION**

*Source: Alberta Agriculture, Food and Rural Development Farm Machinery Cost Calculator*

<table>
<thead>
<tr>
<th>ACRES</th>
<th>COST/ACRE</th>
<th>ANNUAL COST</th>
</tr>
</thead>
<tbody>
<tr>
<td>2000</td>
<td>$4.29</td>
<td>$8,580.00</td>
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<tr>
<td>3000</td>
<td>$3.75</td>
<td>$11,250.00</td>
</tr>
<tr>
<td>4000</td>
<td>$3.49</td>
<td>$13,960.00</td>
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Based on a 70ft heavy harrow, 350 HP tractor and $0.65/L fuel.

Yet as combine capacity gets larger and cutting widths wider, most factory equipped combines are incapable of spreading crop residue uniformly across the width of the cutterbar.

**Seedbed tillage isn’t the answer**

Managing crop residue after harvest can often make the problem worse. Heavy harrowing can leave bunches of straw in the field that impedes seed placement and it also does not spread chaff. And many direct seeders believe that harrowing or cultivating the land once is worse than no tillage at all as it incorporates weed seeds into the soil and loosens the stubble, which plugs up the seeding tool and increases hair-pinning.

Heavy harrowing costs time and money

In 4 site years of trials by the Central Peace Conservation Society at Spirit River, Alberta, the benefits of using a straw and chaff spreader were compared to managing crop residue with heavy harrows in direct seeded fields. Canola, barley and wheat were direct seeded into fields with or without heavy harrowing. The results showed that yields were not significantly different between the applications but that heavy harrowing reduced net return by an average of $5.50 per acre. The results confirm that by properly managing crop residue with a straw and chaff spreader, you can save time and money!
The development of Redekop’s Maximum Air Velocity (MAV) residue manager is a breakthrough in crop residue management. The MAV’s revolutionary design uses two zones for cutting and spreading, rather than a traditional rotor design that depends on the cutting blades to also spread the straw.

The MAV’s cutting zone has 4 rows of 100% boron steel, beveled-edge, long life blades mounted in pairs on the rotor. For optimum cutting performance, a high density counterknife (tight knife bar) spacing is also optional. Straight sharpened reversible blades finely cut straw into uniform sizes. Paddle blades increase chopper air flow, spread width and uniformity in wide body choppers. Fan blades generate maximum air velocities of up to 90 mph.

Uniform spreading from 20 to 45 feet

The airflow-generating zone uses Redekop’s patented fan blades tucked away outside of the cutting zone. Specially designed shrouds build up air speed around the six fan blades at either end of the rotor. The MAV generates extra-high velocity air speeds up to 90 mph to blow the finely cut straw and chaff uniformly across the cutterbar width for unmatched spreading performance.

Easy adjustments

The MAV residue manager allows you to easily fine-tune the spread to match changing field conditions. The fan blades are removable to allow you to initially set your average spread width. In the field, the easily adjustable fins and tailboard fine-tune the spread for uniform residue distribution across the width of the cutterbar. Complete replacement choppers feature independent left and right rapid adjustment with Redekop’s exclusive split tailboard design.
John Deere

Turn your John Deere combine into a crop residue manager. Achieve a finer cut, wider spread, and superior performance with a complete MAV residue manager or a MAV rotor upgrade to the factory chopper.

Improve the MAV rotor upgrade performance even more with these options:
1. Optimized 12 vane tailboard for the widest spreading capabilities up to 45 feet.
2. Tight knife bar kit (1 inch counterknife spacing) for the finest possible cut.

New Holland

The MAV residue manager is available as a complete chopper upgrade and a rotor upgrade for New Holland CR, CX and TR series combines. Both straw and chaff are spread with the complete chopper upgrade. Tight knives are standard for the finest cut. The split tailboard design rapidly adjusts to changes in harvesting conditions or cutterbar width. Want to bale straw? You can change from chopping to windrowing in seconds with no drive belt adjustments required. A new rotating counterknife system can help reduce blade damage when foreign objects pass through the chopper.

Massey Ferguson

Massey 8000 and 9000 series rotary combines can be upgraded with the complete MAV residue manager. Both straw and chaff are spread with this chopper. Tight knives are standard for the finest cut. The split tailboard design rapidly adjusts to changes in harvesting conditions or cutterbar width. Want to bale straw? You can change from chopping to windrowing in seconds with no drive belt adjustments required. A new rotating counterknife system can help reduce blade damage when foreign objects pass through the chopper.

Caterpillar

The MAV residue manager is available as a complete chopper upgrade for Cat Lexion 400 series and Challenger 600 series combines. Both straw and chaff are spread with this chopper. Tight knives are standard for the finest cut. The split tailboard design rapidly adjusts to changes in harvesting conditions or cutterbar width. Want to bale straw? You can change from chopping to windrowing straw in seconds. Chaff is spread while you windrow. A new rotating counterknife system can help reduce blade damage when foreign objects pass through the chopper.

Case IH

Case IH Axial Flow combines can be upgraded with the complete MAV residue manager. Both straw and chaff are spread with this chopper. Tight knives are standard for the finest cut. A simple, rugged latch releases the chopper to swing aside for easy access to the combine sieve. The 7010 and 8010 combines are equipped with a fixed-in-place MAV residue manager.
The MAV residue manager blows dust away from the engine compartment for a cleaner harvesting environment.

A new rotating knife bank can help to reduce blade damage from rocks and foreign objects passing through the chopper.

The MAV residue manager finely cuts and uniformly spreads crop residue across the width of the cutterbar. With unmatched cutting and spreading, the MAV is quite possibly the only tool you’ll need to prepare your land for seeding.

No heavy harrows. No discers. No cultivators.

The Only Seedbed Preparation Tool You Need
All MAV rotors use blades in the cutting zone that are mounted in pairs for optimum cutting performance.

Spring loaded pins allow rapid adjustment of the tailboard angle for fast, easy spread-adjustment without wrenches.

Easily switch from spreading to dropping straw for baling.

Finely cuts and uniformly spreads crop residue to eliminate the need of seedbed tillage operations.

High speed airflow generated in the MAV residue manager is created by shrouded fan blades tucked away outside of the cutting zone.

“We field tested the MAV chopper, on our CAT 460 combine, and were very impressed with the spreading capabilities and the fineness of the chopped straw. This year’s biggest test was to see how it would perform in 3000 acres of flax. We were extremely happy when the MAV shredded and spread the straw the width of the header and all preparations for seeding in the spring were taken care of. It’s performance was amazing even in tough conditions. By eliminating the need for heavy harrowing and bunching, it paid for itself in one year.”

“The New Holland CR970 combine, with the Saskatchewan built headers, backed up by the Saskatchewan built Redekop straw and chaff management system, is the best in its class here in Western Canada. To direct seed a 16,000 acre farm, every decision is dominated by straw and chaff management. The Redekop system has proven its ability to handle the residue efficiently and affordably, year after year, so that one-pass seeding is always achievable. On our farm, Redekop is the best in its class.”

Ryan Hennenfent
Caronport, Saskatchewan

Les McGrath
Leroy, Saskatchewan

Cut it. Spread it. Forget it.
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