

ZÜRN TOP CUT collect

Keeping fields clean.



The „weed harvester“

New technology for mechanical weed control.

The weed harvester TOP CUT COLLECT is a tool for mechanical weed control in case of herbicide resistance and to make organic farming approaches possible.

- Grasses and other high-growing weeds are cut precisely just above your crop.
- Collecting and removing the weed seeds from your fields improves the field hygiene reliably.

Field tests confirm a reliable reduction of the weed seed bank in the ground. Even resistant weeds can now be fought on the long-term.



Cutting

The double-cut knife and special helical reel work gently to collect all seeds. Working widths of 9, 12 and 18 m are available.



Collecting

Conveyor belts transport the weed seeds into a hopper with high-dump system. The boom can be folded hydraulically for road transport.



The ZÜRN TOP CUT COLLECT cuts off the top of weed plants and collects the seeds in a bin. This improves field hygiene significantly.



Before and after the TOP CUT COLLECT in herbicide resistant ryegrass. A clean cut for a clear difference.



CUT AND COLLECT THE WEEDS

A solution for (resistant) weeds

Especially intensive farming can lead to weeds developing resistances against herbicides. Common methods are no longer effective and many chemicals lost their acceptance in society.

With this background, Zürn Harvesting and french farmer and technician Romain Bouillé developed an entirely new approach for mechanical weed control.

Reducing the weed seed bank

The weed collector TOP CUT ^{COLLECT} is an intelligent combination of two tasks: Cutting the weed tops above the crops and collecting this material which contains the weed seeds. Hygiene in the field is improved sustainably by reducing the weed seed bank in the soil.

Different scientific studies show that up to 40% of the weed seeds are shedding before harvest. It's therefore very effective to cut off and collect the top of these weeds before harvest. By doing this, the cycle of weeds getting into the seed bank is interrupted. This is also shown by the perennial field trials in France.

When cutting the grass weeds in their generative growth, the remaining plants are drying and not getting any new shoots. This is beneficial for harvest with a combine in heavy weed patches. This new approach is also a great opportunity for organic farms to extend their mechanical weeding toolbox.

This new implement is tractor-drawn with an own axle. The technological concept consists of two booms with a double-cut system and a cross conveyor belt behind. A helix-shaped reel gently pushes the weeds from the knife section to the conveyor belt to avoid any losses at this critical point. To get the dangerous load safely into the bin, another conveyor belt collects the material centrally.



For easy road transport, the booms with up to 18 m working width are folded in hydraulically.

Currently, the TOP CUT ^{COLLECT} is available with up to 18 m working width. For road transport, both booms are hydraulically folded in. They're sitting close to the hopper to stay below 3 m transport width.

Collecting the weed seeds

The TOP CUT ^{COLLECT} is especially strong when fighting resistant grass weeds like black grass, apera, wild oat or ryegrass. Furthermore, it can be a game changer in root crops which take some time to close the "canopy".



You want to see the ZÜRN TOP CUT ^{COLLECT} in the field? Just scan the QR-Code!

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