

# More Efficient Pre-Shredding with service-friendly Herbold single-shaft shredder

Field report Virutex Chile for recycling works that process agricultural waste



## Summary:

With a constantly growing quantity of waste, it was important for the Virutex-Team to get the right dimensions for the investment decision for the capacity of the pre-shredding appliances. After the successful start with the new EWS 45/200, the operating team of the appliance recognised that regular servicing paid off and leads to greater efficiency: apart from that, fewer man-hours were needed for servicing and higher efficiency was achieved.

## Task:

Virutex is a recycling company that processes agricultural waste like irrigation and drainage hoses, agricultural films and post-consumer foils. The quantity of waste to be processed has risen sharply in recent years.

The single shaft shredder (EWS) 45/160 used up to now was now longer generating enough throughput and was prone to intensive servicing due to overloading.

## Solution:

After intensive consultancy by the Herbold team, Virutex decided to replace the old model EWS 45/160 with the new EWS 45/200. This would more efficiently shred the quantities of waste arising.

## Requirements were met:

- EWS 45/200 offers a high-performance design for the shredding tasks to be completed
- The machine is loaded laterally
- Input material: a mix of drainage hoses, agricultural and post-consumer foils

## Throughput Performance / Result:

- 1 – 1.5 t per hour with 80 mm sieve perforation
- Shredded material appears optimal

## Your benefits:

- For the toughest demands through sturdy and robust construction
- Service friendly, due to quick sieve change and multiply-reusable blades
- Operation costs and throughput performance of reactor processes can be optimised.

## Servicing Experiences:

The appliance is in a very good condition due to the regular servicing and cleaning. The newly created servicing plan has paid off: everything is precisely planned, carried out and adhered to. The results can be seen: Everything is now very neat and clean. The blades can be used for 2 months and are turned every 15 days.

## Advantages for the Machine Servicing:

- Easier access to the blades
- Blade change only lasts 3-4 hours – previously 7-8 hours
- Simpler cleaning of the machine due to better access to the rotor
- The service door on the top of the funnel is attached on the back and is more servicing-friendly
- Simple, effective cooling due to the simply constructed hydraulic unit
- The belts sit better – no more slipping on the pulleys as previously

## Conclusion:

Since commissioning, the very satisfied team from Virutex confirms: the throughput was significantly increased with falling servicing costs. This shows that it often pays to identify the problem in an existing recycling appliance and only change individual components to increase the appliance's through-flow significantly.