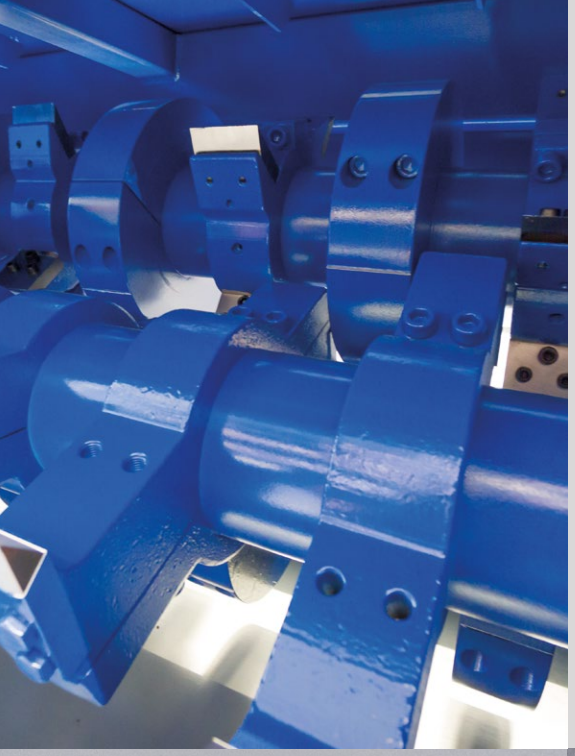
Short test of strength for production waste

High-performance shredder for the paper, packaging and corrugated board industry

HÖCKER® POLYTECHNIK

Always one idea ahead

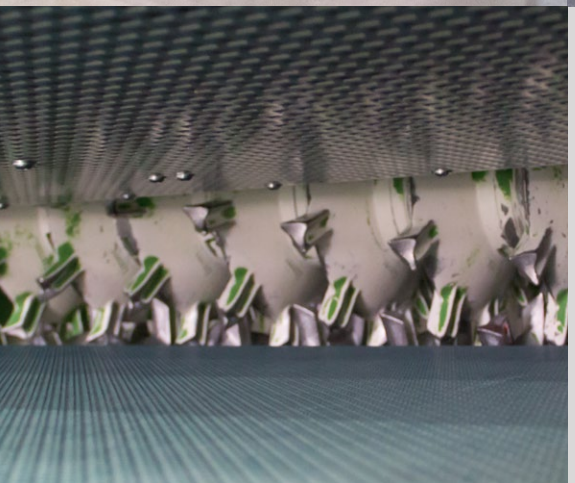


Making short work

High-performance shredders by Höcker Polytechnik offer tailor-made solutions for volume reduction and processing treatment for large-sized paper and corrugated cardboard. Our low-speed shredders work on the cut-and-rip principle, in which the toothed-shafts turn in opposing directions and rotate at different speeds. This reduces the noise level and the wear and tear on the machinery since the tearing shafts mesh without touching and rotate at low circumferential speed.

All our shredders can be fed by hand, either horizontally or vertically by means of a separate conveyor belt.

Our high-performance shredders fulfill the demands placed on modern production processes and can be seamlessly integrated into existing plants.



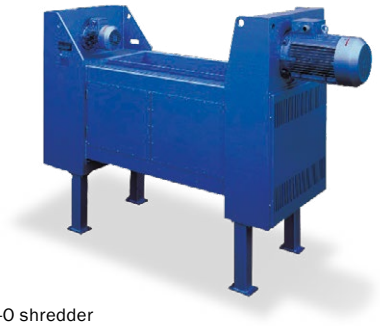
Our shredders on a view

The Höcker Polytechnik shredder range includes various low- and highspeed devices, each with different capacity and attachments.

All the shredder models can be easily combined with other Höcker Polytechnik components, such as extractors, cutters and filter systems, as well as extractors for pneumatic disposal, or conveyor systems for mechanical disposal. If you have any questions regarding your own special field, please call us.

We will be happy to help with information and advice.

PHS/PHSH shredder
Shreds sheeted goods and cores (PHSH)



PHS-O shredder
Feeding via conveyor belt

PHH shredder
Shreds cores

PHSS-K/B shredder
Shredder for center breakthrough

And also...

We create optimized processes for the discharge of your cardboard- and paper waste.

From the discharge of cardboard waste up to the recycling-friendly processing, we offer efficient and reliable solutions.

Talk to us!

PHSS-K/G shredder
Shredder for die cutting grids / gripper margins

PHS/PHSH-shredder shreds manually and efficiently

Höcker Polytechnik high-performance PHS and PHSH shredders allow efficient comminution of large-sized corrugated cardboard and paper waste ready for compacting. In the basic shredder unit, three toothed shafts take care of the shredding of the material before it is disposed of by pneumatic or mechanical means.

This industrial shredder is perfectly suitable for continuous operation for paper and cardboard industries. The shredder especially developed for paper and cardboard industries provides powerful processing with low energy consumption. Due to the sturdy welded construction the shredders prove their worth daily over a long time.

In the upgraded PHSH model for comminuting cores, a drive roller takes care of the feed and a cutting rotor of the comminution of cores.

Protective device on the feed mechanism avoids interference by anyone other than the operator: three counter-rotating toothed shafts fitted with easily dismountable teeth in semi-monocoque, cast or blade construction ensure optimum comminution.

PHSH-shredder
for sheeted goods and cores

The PHSH comminutes not only large-sized paper and corrugated board waste but also cardboard cores.

Other advantages

- central control unit in a clearly laid out control console
- PLC for monitoring processes
- high throughput
  (up to 8,000 kg/hour, depending on the material type)
  - paper in layers of up to 20 mm
  - corrugated cardboard in layers of up to 100 mm
  - PHSH only:
    cores up to ø 150 mm and 20 mm wall thickness
- low power requirement
  - driven by 3-phase motor (motor 22/5.5 kW) with slip-on gear mechanism and v-belt
- low wear
- low noise level
- pneumatic disposal (extraction) or
  disposal by means of conveyor belt
- stable, welded construction
- easy to operate and service
- long service life

Extraction hoods and pneumatic conveyor systems

Alternatives for small-scale die cutting waste

Höcker Polytechnik‘s extraction hoods and pneumatic conveyor systems are tailored to your die cutter and integrate the waste into the existing disposal processes.

Additionally:
In case you need access to the die cutter, they can be uninstalled and removed in minutes.

Extraction hood
for center breakthrough.

Pneumatic conveyor system
for center breakthrough.

PHSS shredder for center breaktrough

Höcker Polytechnik PHSS series shredders are high-speed single rotor shredders with counter comb to process front waste as well as large-sized die cutting waste and skeletons from solid and corrugated board.

PHSS-shredder with conveyor belt
The perfectly coordinated combination for comminution tasks.

PHSS-K/B shredder
Available in working widths of 800 mm to 1.100 mm
and a shredding power of 7.5 kW to 22 kW.

PHSS-K/B shredder
Disposes die cutting waste and lateral front waste.

PHSS-shredder
for lead edges and die cutting grids

The PHSS is usually placed at the end of the die cutter and is mounted either below the die cutter or at the end of the conveyor belt of the front waste station.

PHSS-K/G shredder
Are specialized in their field of application and can be combined with any die cutter.

PHSS-shredder
on die cutters

The PHSS shredder fulfills the demands of modern die cutters:

- Waste volumes of up to 10,000 sheets/hour with a working width of up to 1,700 mm can be processed.
- This way, even large-format die cutting waste can be conveyed pneumatically, and additional chopper fans are not needed anymore.

PHSS-K/G Shredder
shredder for die cutting grid and gripper margin with docking station.

Extraction hood for
gripper margins with low grammage.

PHSS-shredder for several die cutters

Höcker Polytechnik's PHSS K/B-40 high-performance shredder comminutes the die cutting waste of several die cutters.

The PHSS series high-performance shredder with a rotor diameter of 400 mm comminutes large quantities of die cutting waste of several high-performance die cutters. It will be fed via a Höcker Polytechnik conveyor belt which transports the die cutting waste as well as the lead edges. Thus, large-sized die cutting waste can be conveyed pneumatically.

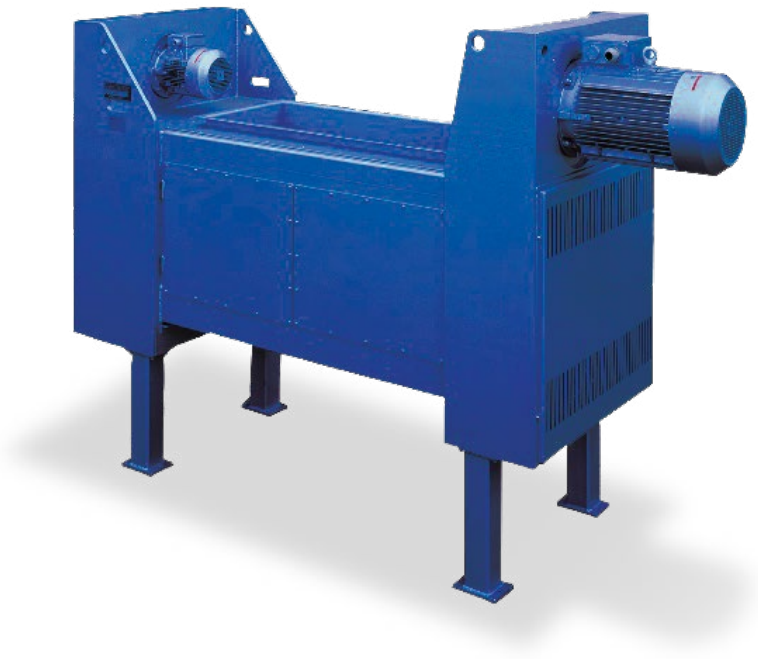
The optional sound box for PHSS-K/B shredder reduces noise emissions in working areas.

PHSS-K/B-40 shredder
shredder for die cutting waste of several die cutters.

PHS-O shredder for the conveyor belt system

Höcker Polytechnik's high-performance shredder PHS-O will be fed from above via central conveyor belts and is intergrated perfectly into the production process.

Three toothed shafts, equipped with easily demountable teeth in halfshell enclosures in cast or blade construction comminute large-sized production waste from paper and cardboard efficiently and quickly. Thanks to the low circumferential speed of the tearing shafts the noise level and energy consumption will be reduced in 24-hour operation.



PHS-O shredder
for feeding from above via a central conveyor belt.

PHH-core shredder

The PHH core shredder is designed exclusively for shredding cores with a diameter of up to 160 mm and a wall thickness of approx. 30 mm.

The shredder is fed manually via a guide pipe. A drive roller takes care of the core‘s feed and facilitates the operator‘s work with the shredder. Furthermore, the hardened, low-wear special knives lead to minimized operating costs.

The PHH shreds a 2.50 metre-long core in only 21 seconds.

The PHH core shredder prepares the cardboard cores perfectly for further processing in the baling press.

Our products.

Deduster

... impress with their wide range of applications. Simply position close to the production machine and start operating.

Fans

... work 24/7 for clean production conditions. They tear, chop or transport with pneumatic action or ensure clean air.

Briquetting presses

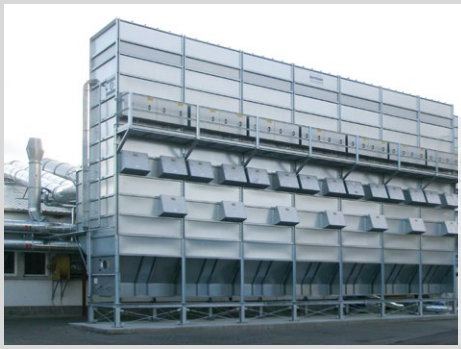
.... process and convert the sensitive paper dust into robust briquettes. This allows them to be easily stored and disposed of.

Energymanagement

... permanently lowers energy costs and gives you convenient access to your consumption data in the disposal area.

Sorting

... helps you maximise your recycling revenue. Unmixed disposal routes from the machine to the container pay off.



MultiStar filter systems

... are at the core of dust-free production. They remove production dust and residue from production machines through power- ful and efficient suction action.

Material separators

... separate the coarse production residue from the fine dust before it reaches the filter system. The filter is relieved and recycling facilitated.

Baling presses

... provide for easy storage of their production waste and increase your recycling revenue.

Conveyor belt systems

... also transport large amounts of material reliably from production for further disposal and treatment.

Improved production!

Container presses

... are suitable for use wherever a wide variety of materials require disposal.

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HÖCKER® POLYTECHNIK

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