

Impact Dehuller.  
**DOSB.**

# Vertical impact dehuller DOSB.

## For efficient multi-seed impact dehulling.

The impact dehuller DOSB is used for oilseed dehulling in the production of edible oil for the food processing industry. It is designed to increase oil production efficiency and oil yield through gentle dehulling of soybeans, sunflower seeds, cottonseed, and rapeseed. Key element is the adjustable impact cone, which gently cracks and separates seeds from the hulls. It ensures optimal fibre content for the subsequent oilseed processing steps.

### Optimal dehulling results.

This vertical impact deuller uses a continuous, smooth and perfectly controlled process which leads to excellent dehulling results and ensures low fines production. The optimized dehulling results offer the following advantages for the subsequent oilseed processing steps:

- Improved separation of hulls from kernels
- Higher throughputs and less wear in klakers and expeller presses
- Improved extraction results
- Higher protein and less fiber content of extraction meal

### Application.

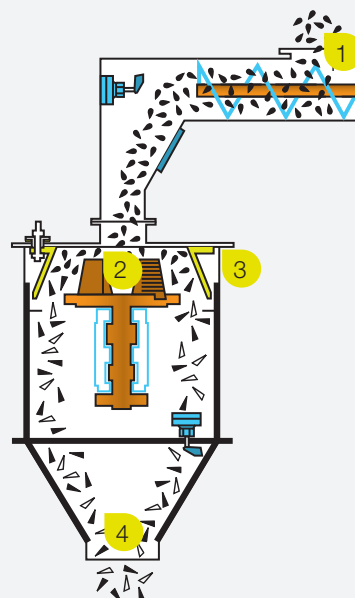
The highly versatile impact dehuller DOSB is applied in oilseed processing for the dehulling of sunflower seeds, soybeans, and cottonseeds.

#### Benefits:

- High throughput rates with excellent dehulling quality within minimum space
- Smooth dehulling for low fines content
- Suitable for multi-seed dehulling
- Excellent machine quality and durability
- Quick and easy maintenance
- Quiet, clean and safe operation

### Working principle.

The screw feeder delivers the cleaned seeds to the rotating rotor. The centrifugal force orients the seeds horizontally and accelerates them so that they dash against the impact cone at the ideal breaking point. The kernels are deformed by the impact, causing the hulls to be ruptured and detached from the kernels while producing minimal fines.



- 1 Inlet of product
- 2 Rotor for product acceleration
- 3 Impact cone
- 4 Outlet of dehulled product and hulls

# Smooth dehulling technology for better results. **Adapted to your requirements.**

## Design.

The machine consists of a feeder with variable-speed drive and built-in permanent magnet. The housing contains the vertical main shaft. At its top end, flight are attached to the rotor, whereas the lower end has the V-belt drive attached to it. The impact cone surrounds the rotor and is suspended from the machine cover. It can be moved up or down allowing the clearance between the flight ends and the impact cone to be adjusted to suit the particular operating conditions.

Safe and continuous operation is ensured due to the built-in permanent magnet in the inlet and the material level probes in the inlet and outlet which interrupt the product feed in case of product backup and stop the machine.

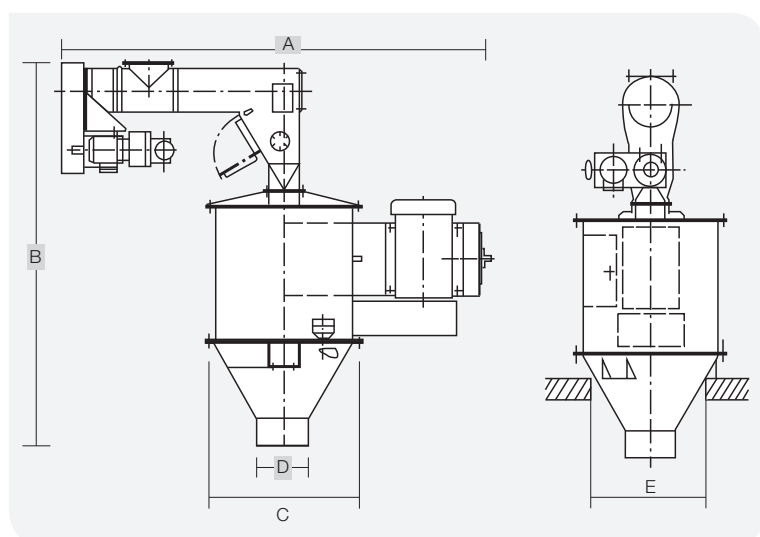
## Easy maintenance and global service.

Since the impact of the product leads to wear, the machine is equipped with a lining of robust material. Special care has been taken to ensure that the wear parts can be easily removed and replaced in order to minimize down times. Reliable replacement of wear parts is key to ensuring that the

impact dehuller runs at maximum performance. Thanks to Bühler's worldwide service network, spare parts and service engineers are always available quickly when you need them.

## Integrated seed processing solutions.

The impact dehuller DOSB can be part of an integrated Bühler oilseed preparation plant which can include the following machines: Oilseed cleaners, hull separators, crackers, flakers, hammer mills and pellet mills.



## Technical Data:

DOSB		
A	mm	2110
B	mm	1820
C	mm	694
D	mm	255
E	mm	550
<b>Throughput</b>	tpd	Up to 180 tpd for Sunflower
<b>Feeder</b>	kW	0.37
<b>Main motor</b>	kW	15-22
<b>Weight</b>	kg	825
<b>Noise level</b>	dB	81

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