

High-Capacity Density Grader Gravomat

MTCF



Accurate classification of grain. Pure end-products.



High-Capacity Density Grader MTCF.
For efficient classification and separation
of grain.

Application

For classifying and separating grain into a high-density fraction, mixed fraction, low-density fraction, and screenings.

Can be applied for separating:

- Low-density grains from high-density products
- Contaminated wheat from pure wheat
- Low-density and shriveled grains from seeds

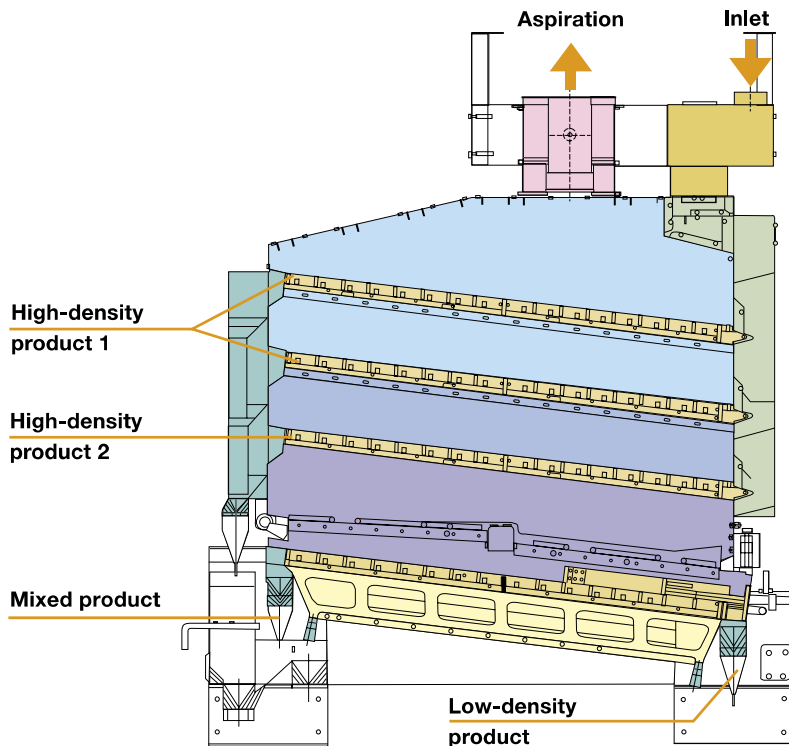
Design

- Compact, space-saving design
- Sturdy design with solid machine frame
- Sieve box containing four sieve decks
- Bottom sieve deck additionally with variable inclination
- Adjustable final separation on each sieve deck
- Vibrator drive
- Central aspiration connection
- Inlet box with integrated material brake
- Supported on four rubber spring elements

Features

- Easy to operate and maintain thanks to:
 - easy setup for operation
 - absence of power transmissions
 - accurate adjustment of settings using threads
- Good sanitation thanks to straightforward, functional design
- High operating efficiency through:
 - lower space requirement and building cost
 - reduced aspiration line and filter area requirements
 - shorter installation time and lower installation costs
 - reduced gravity spouting requirement
 - fewer electrical connections and cables
 - less maintenance

Efficient cleaning. Optimal grinding.

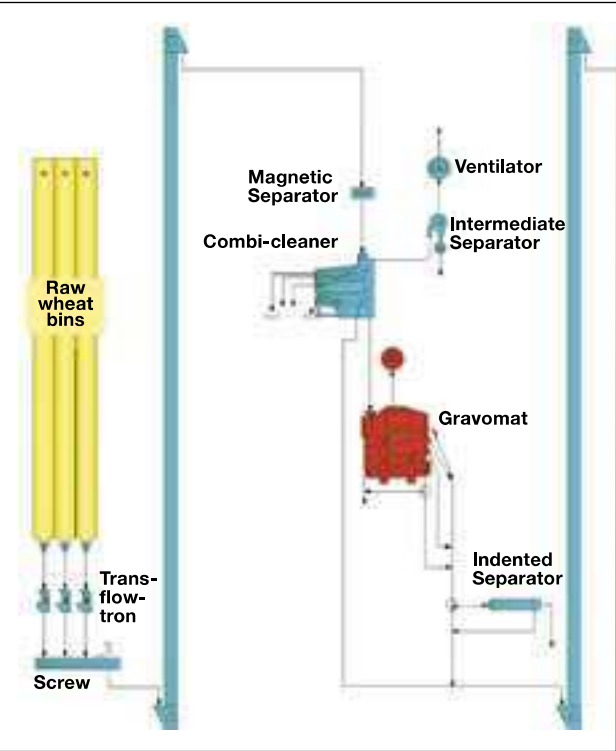


Mode of operation

The uniform stream of product is fed to the machine through the material brake installed in the inlet. A material splitter splits the product to be classified uniformly among the two top sieve decks. The air flowing from below through the sieve decks stratifies the product according to its specific gravity. On the first two sieve decks, the product undergoes primary separation into a high-density and a mixed fraction. The high-density product travels across the sieve cover to the top and is directed to the outlet box (high-density product 1). The lower-density mixed product from the two top sieve decks floats on top of the air layer to the bottom and is fed to the next sieve deck. This sieve deck regrades the mixed product. The high-density product obtained from this sieve deck also travels up the sieve to the top sieve end and is discharged from the machine through the outlet box (high-density product 2). The remaining mixed product floats down the sieve and is transferred to the bottommost sieve deck. On this sieve deck, the low-density product is separated from the mixed product.

- accurate classification for pure end-products
- high sanitation
- sturdy design
- easy operation
- easy to maintain

High sanitation.
High product safety.



Example of a cleaning flowsheet.



50% mixed product from
combi-cleaner,
density 76.9 kg/hl,
DON 7.5 ppm.



30.4% high-density product 1,
density 80.5 kg/hl, DON 1.2 ppm.



9.0% high-density product 2,
density 78.3 kg/hl, DON 3.1 ppm.

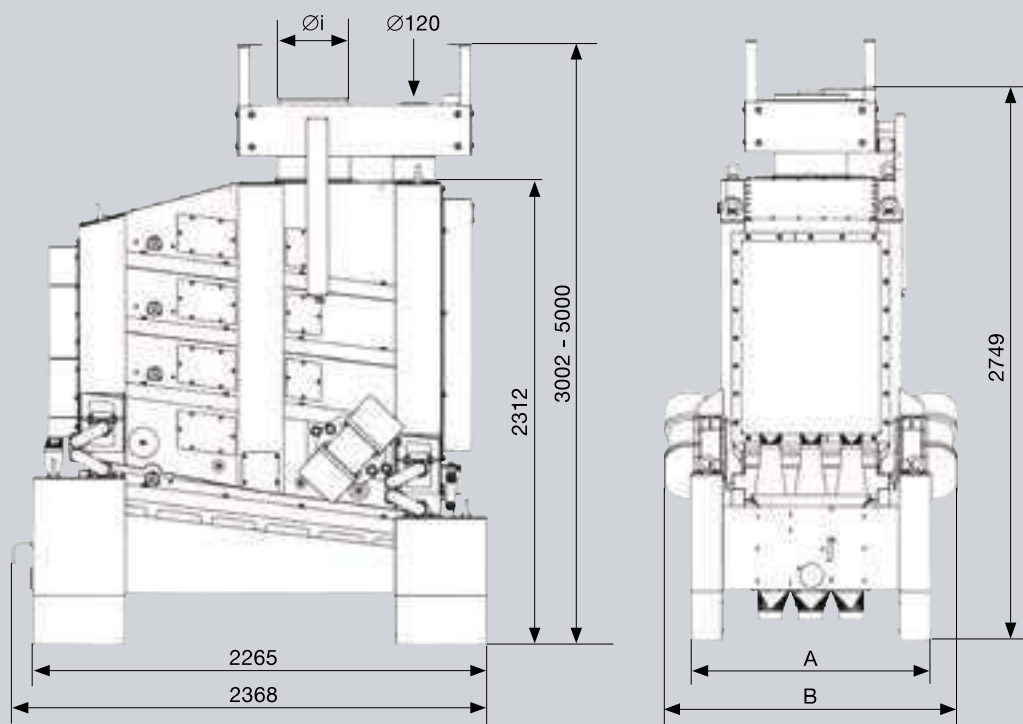


8.2% mixed product,
density 69.5 kg/hl, DON 22.0 ppm.



2.4% low-density product,
density 56.5 kg/hl, DON 52.9 ppm.

High efficiency.
Low operating costs.



Technical data

Type	A	B	$\varnothing i$
MTCF 65/170	1190	1453	350
MTCF 130/170	1840	2253	500

Type	Capacity t/h (based on wheat)	Aspiration m ³ /min
MTCF 65/170	mixed product from MTKB 2-4	70
	complete product stream 2-6	
MTCF 130/170	mixed product from MTKB 4-8	130
	complete product stream 4-12	

