

Combi-Cleaner.

MTKB



Efficient cleaning. First-class grinding results.



MTKB-120/120 Combi-Cleaners

Mode of operation

The first cleaning stage involves the separation of all oversize and undersize particles. The scalping sieve removes all impurities that are larger than the grain kernel, for example straw, strings and large stones. The sand sieve eliminates all impurities smaller than the grain kernel, for example sand, broken kernels and foreign seeds. The next important step involves sorting the product into a heavy and a mixed fraction, with particles of the same size being separated according to their specific gravity. Separation is based on the differences in the flow velocity of the various product fractions: Heavy particles contact the oscillating sieve bottom and flow to the subsequent destoning stage, whereas the clean grain floats on a cushion of air to the product outlet.

The separation of low-density particles such as dust, hulls, chaff, shriveled kernels and foreign seeds is accomplished by air classification.

The Combi-Cleaner combines the following four processing steps in a single machine:

- The Separator separates according to size (coarse impurities)
- The Concentrator sorts according to specific gravity (fine impurities)
- The Destoner removes stones
- The Aspirator eliminates low-density particles and dust

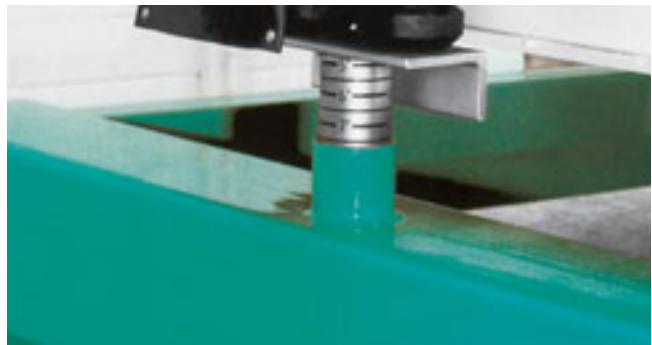
Space-saving concept. One machine for 4 processing steps.



The entire sieve support is driven by two synchronized vibrators.



The different sieves are easy to exchange, despite their sturdy design.



The sieve inclination is easy to adjust.

Design

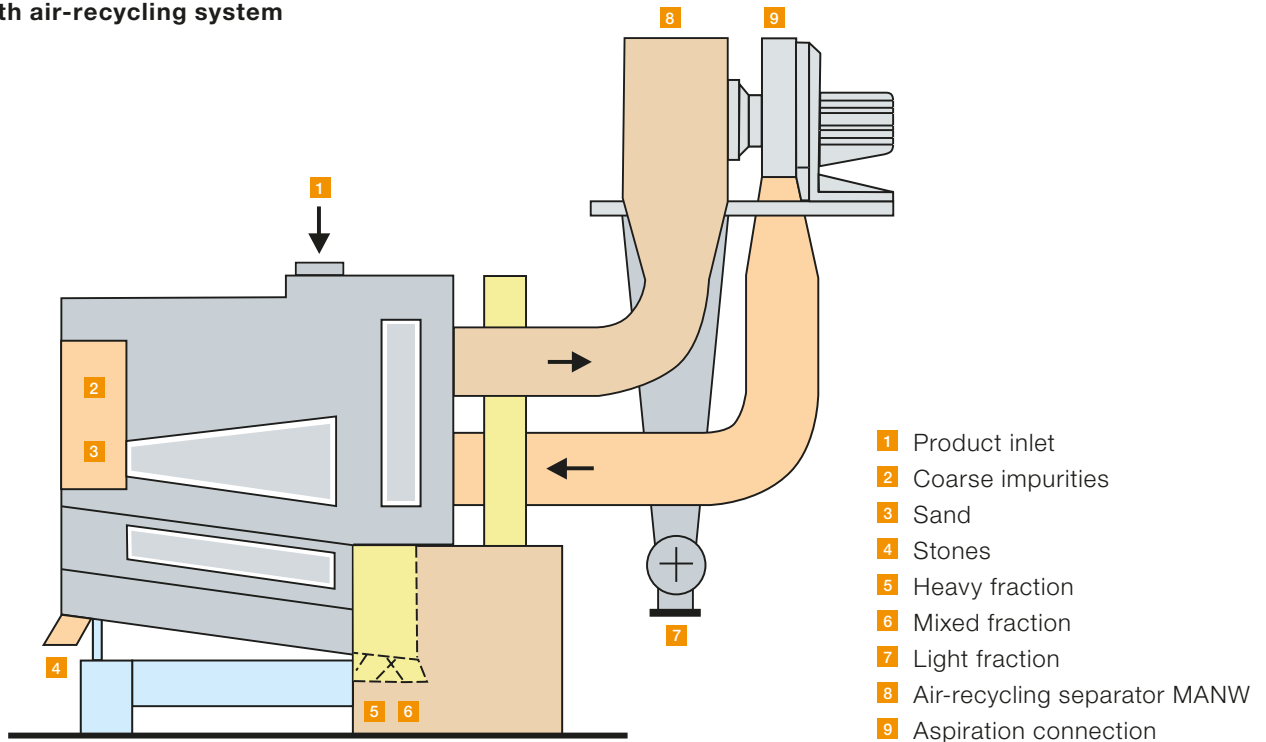
- Compact, space-saving design
- Sturdy design
- One machine housing for four operations
- One common vibrator drive
- One machine frame
- Easy adjustment of the sieve box inclination
- One coarse screen with final separation stage and two sand sieve decks
- Adjustable division into a heavy and a mixed fraction
- Variable final separation of stones
- Double-adjustable wall in the aspiration channel
- Fine regulation of the air velocity for separation of the light fraction
- Central aspiration connection
- With or without air-recycling system
- Aspiration channel with interior lighting

Benefits

- Optimal preparation for grinding
- Clean products
- High product safety
- Low operational costs

High economic efficiency. Low operational costs.

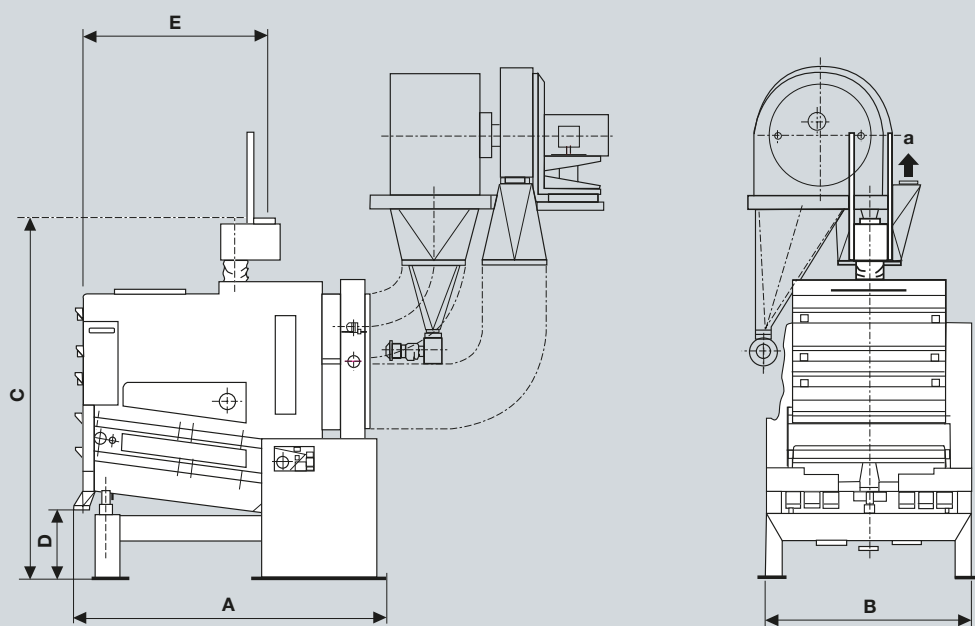
MTKB Combi-Cleaner with air-recycling system



Features

- Easy operation and maintenance due to:
 - Easy fine-tuning
 - Monitoring on a single floor
 - No lubrication points
 - No power transmissions
- High sanitation due to simple, functional design
- High efficiency due to reduction of:
 - Space requirement and building costs
 - Aspiration lines and filter surface area
 - Power requirement and energy costs
 - Installation time and costs
 - Gravity spouting
 - Electric connections and cables
 - Maintenance work and personnel
- Efficient cleaning and successful grain processing

Optimal preparation. Clean products.



a = aspiration connection

Dimensions (mm)

Type	A	B	C	D	E
65/120	2460	1075	2800	494	1391
120/120	2460	1635	2830	494	1433

Technical data

Type	Capacity in t/h wheat (approx. values)	Air-recycling system		Aspiration with/without air-recycling system m ³ /min	Power requirement vibrator kW	Approx. weights in kg			Volume seapacking m ³
		Type	Fan kW			net	gross	by sea	
MTKB-65/120	3–12	–	–	90	2×0.3	1240	1525	1670	9.0
MTKB-65/120 U*	3–12	MANW-30	7.5	5	2×0.3	1650	2040	2210	14.0
MTKB-120/120	12–24	–	–	160	2×0.75	1610	1915	2070	13.0
MTKB-120/120 U*	12–24	MANW-60	15	5	2×0.75	2150	2540	2710	21.0

*U = with air-recycling system

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