

Cleaning

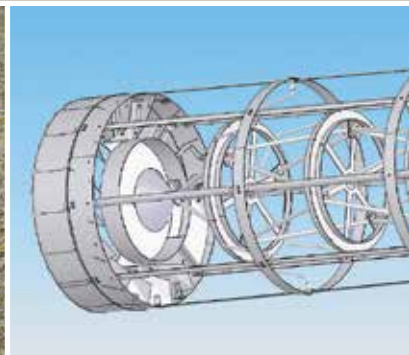


Kongskilde Dual Cleaner KDC 8000

KDC 8000 Dual Cleaner



Foreign impurities removed from wheat.



New strong design on screen rotor. Diagonals reduces stress load on the screens.



Two layers, one layer for oversize impurities, a second layer for under-size impurities.



Gear with parallel shaft's makes it easy to turn drum by hand, makes screen change easier.

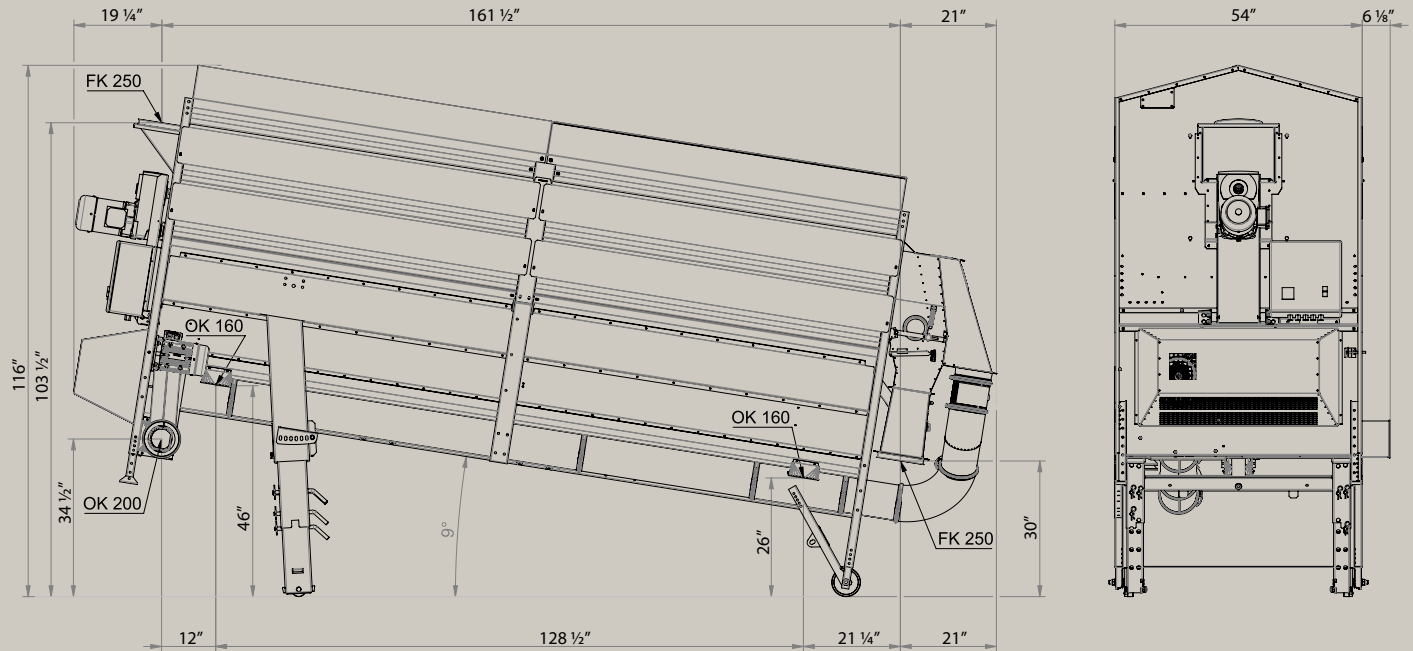
KDC 8000 cleaner is a dual cleaner with both a screen cleaning function for size separation and an aspirator function for removing of dust and light impurities.

- Capacity in pre cleaning up to 80t/h
- All components exposed to the ambient made in galvanized steel for outdoor installation.
- Quick release system is securing easy and fast replacing of screens.
- Wear spots on FK 250 inlet made of stainless steel bottom.
- Only rotating parts – no vibrations transmitted.

- Large screen area.
- Standard screens for all common crops.
- Aspirator cleaner after screen, cleaning maximize removal of dust.
- Screens for size separation of grain kernels.
- Dampers on torque arm for gear drive reduces stress load on screen drum.
- Vacuum in drum compartment limits dust content inside.

Accessories:

1. Cleaning brushes for cleaning outer screen. Used when doing size separation of kernels.
2. Jack for easy adjusting of declination on screen drum. Beneficial when used on different locations.
3. Wheel set for short distance transport of KDC 8000 between different locations.
4. Rain cover for gear motor on drum shaft and electric panel.
5. OK 200 pipe system and cyclone, to connect to the outlet on the aspirator blower to convey the impurities.



Screenings is conveyed through pipes up to 15m away.



Access door for easy collection of grain sample after cleaning.



Wear resistant inlet made of heavy stainless steel.

DATA	Drum drive		Blower for aspirator		Auger drive		Weight	Screen area's		Connections for material flow		
	Screen drum	Motor size	Blower	Motor size	Motor	Motor size		Inner drum	Outer drum	Inlet for crop	Outlet for cleaned crop	Conveying line for impurities
Unit	RPM	HP	RPM	HP	RPM	HP	Lbs/Kg	m ²	m ²	FK	FK	OK
60 Hz	23	3	2900	5	950	1.5	3142/1425	7.5	10.0	250	250	200

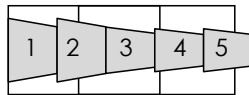
General advice concerning capacity and selection of screens:


The inner screen separates the large impurities from the crop. The main flow of crop has to pass through the inner screen. Selecting screen with small hole size compared to the kernel size gives the most efficient cleaning, but reduces capacity. Selecting screen with large holes compared to kernel size gives capacity but reduce cleaning efficiency. If too much crop is feed into the KDC 8000, good kernels will be discharged together with the impurities.

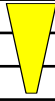
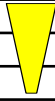



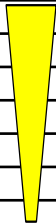
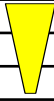

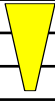



To reach max. capacity it is then necessary to use screens with large enough holes to allow the kernels to pass through fast enough. On the outer screen small impurities and small kernels are separated from the crop. For precleaning, there is no limitation in capacity in relation to screen selection. For size separation of kernels on the outer screen approx. 10 – 20% of the capacity rated for precleaning can be obtained.

Inner screen

Screen choice
Screen sections

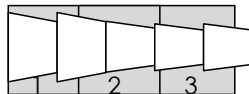


Max. capacity

Max. cleaning eff. -
reduced capacity











































Screen Perforation in Sections (mm) 1 - 2 - 3 - 4 - 5	Maize (Corn)	Wheat	Barley	Oat	Rye	Soya beans	Sun flower	Peas	Rape seed
Ø17/Ø17/Ø15/Ø15/Ø15									
Ø15/Ø15/Ø13/Ø13/Ø13									
Ø13/Ø13/Ø11/Ø11/Ø11									
Ø11/Ø11/Ø9/Ø9/Ø9									
Ø9/Ø9/Ø7,4/Ø7,4/Ø7,4									
Ø8/Ø8/Ø7,4/Ø7,4/Ø7,4									
Ø7,4/Ø7,4/#5,2/#5,2/#5,2									
Ø7/Ø7/#5,2/#5,2/#5,2									
Ø6,5/Ø6,5/#5,2/#5,2/#5,2									
#5,2/#5,2/Ø4,3/Ø4,3/Ø4,3									
Ø4,3/Ø4,3/Ø3,5/Ø3,5/Ø3,5									
Ø3,5/Ø3,5/#2,75/#2,75/#2,75									
Oblong holes 5 x 20 (all sections)									
Oblong holes 10 x 30 (all sections)									

Outer screen

Screen choice
Screen sections



Kernel' size
● Small
● Middle
● Large

Screen Perforation (mm)	Maize (Corn)	Wheat	Barley	Oat	Rye	Soya beans	Sun flower	Peas	Rape seed
oblong holes 1,0 x 16,5									
oblong holes 1,2 x 16,5									
oblong holes 1,8 x 20,0									
oblong holes 2,0 x 16,5									
oblong holes 2,25 x 16,5									
oblong holes 2,4 x 20,0									
oblong holes 2,5 x 16,5									
oblong holes 2,65 x 16,5									
oblong holes 4,0 x 16,5									
oblong holes 4,3 x 16,5									
oblong holes 4,5 x 16,5									
oblong holes 5,0 x 20,0									
square holes 2,75									
square holes 5,2									
square holes 6,0									
holes Ø2,0									
holes Ø3,5									
holes Ø4,5									
holes Ø7,0									
holes Ø7,4									
holes Ø9,5									
no perforation									



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