

# Technical data

## Dimensions (mm)

mm	min.	max
A	1605	1964
B	211	570
C	197	556
D	203	562
E	0	360

The dimensions stated are less wheels.

## Width:

Less wheels: 1430 mm.  
With wheels: 1900 mm.

## Weight:

Excluding transport kit, screens and motors: 875 kg

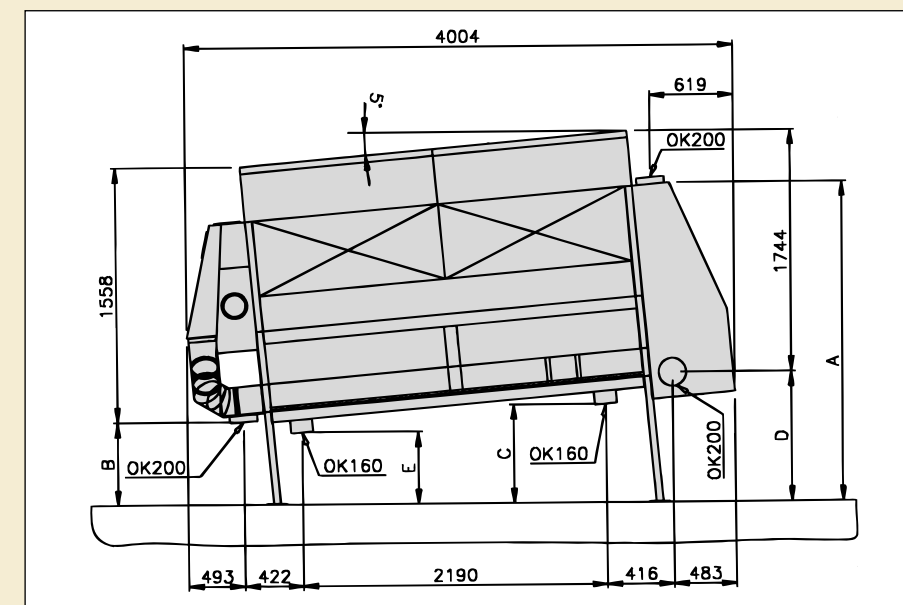
## Screen area:

Inner screen: 4,1 m<sup>2</sup>.  
Outer screen: 6,5 m<sup>2</sup>.

## Speed:

Screen drum: 22 rpm

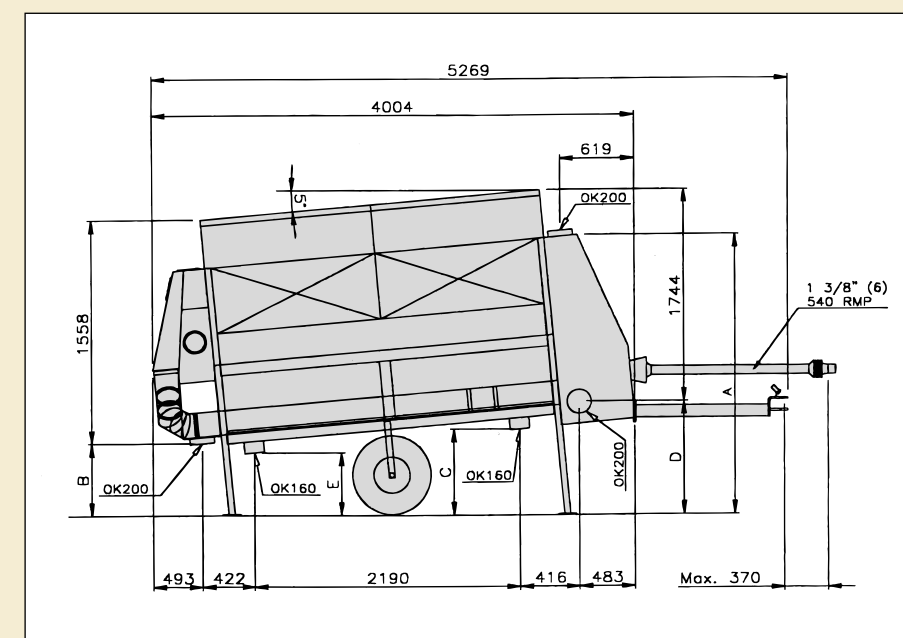
## DPC 40 electrical model



## Power requirement

	Motor kW (HP)	Speed rpm
Screen drum	1.5 (2.0)	1400
Fan	4.0 (5.5)	2900
Trough auger	0.75 (1.0)	1400

## DPC 40 PTO model



## Power requirement

	Motor kW (HP)	PTO rpm
Total power requirement	7.0 (9.0)	540

# Screen range

## Inner screen

Perforation (mm)			Crop									
1	2	3	Barley	Malting barley (sep.)	Wheat	Rye	Oats	Rape seed	Peas/ Soya Beans	Maize	Sun flower	
ø3.5	ø3.5	□2.75						○				
ø4.3	ø4.3	ø3.5						○				
□5.2	□5.2	ø4.3						○				
ø7.4	ø7.4	□5.2			○							
ø9	ø9	ø7.4	○	○	○	○	○		○		○	
ø11	ø11	ø9	○	○	○	○	○		○	○	○	
ø15	ø15	ø11	○			○	○			○	○	
ø17	ø17	ø15								○	○	

## Outer screen

Perforation (mm)			Crop									
	Barley	Malting barley (sep.)	Wheat	Rye	Oats	Rape seed	Peas/ Soya Beans	Maize	Sun flower			
1.0 x 16.5						○			○			
2.25 x 16.5		○										
2.5 x 16.5		○										
2.65 x 16.5		○					○					
4.0 x 16.5	○		○	○	○		○					
ø 2.0												
□2.75	○		○									
□5.2								○				
□6.0								○				

A set of sample trays is available to match the following screen sizes: 2.25x16.5, 2.50x16.5, and 2.65x16.5

## Screen selection - inner drum

Screen selection will depend greatly on whether capacity or optimum separation is required as the crop has to pass through the screen. Screens with smaller perforations will improve separation of the larger impurities – but at a reduced capacity. Conversely, larger perforations increase throughput, but there is a reduction in the amount of impurities removed.

- Max. cleaning (low capacity)
- Average cleaning (medium capacity)
- Pre-cleaning (high capacity)

## Screen selection - outer drum

As the crop is retained by the outer drum screens, the dimensions of the perforations determine the final size of the cleaned grain. Selecting a screen with perforations that are too large will result in smaller, good grain being removed.

## Pre-cleaning

- Crop with high content of small and thin grains.
- Standard crop

## Grading of Malting Barley

- U.K. standard for malting barley
- Very few "good" grains removed (reduced capacity)
- Standard for malting barley



## Combi-cleaner DPC 40



Subject to be changed without notice.



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121001604 GC/GB/DPC 40/BRO/0401 Jannerup offset a/s

# Applications

The Kongskilde combi-cleaner type DPC 40 is a combined screen and aspiration cleaner with capacities of up to 40 t/h.

Ideal for the pre-cleaning of maize, barley, Wheat, rye, peas and beans as well as for grading of malting barley and seed.

The combi-cleaner may be advantageously installed to allow crop passage immediately after intake and before discharge.

## DPC 40 pre-cleaning - the advantages:

- Impurities removed before drying: Impurities reduce drying rates, increase drying costs.
- Impurities removed before storage: A second pre-cleaning before the crop is stored will remove impurities which might result in deterioration of the sample.
- Reduction of dust: The aspiration action of the combi-cleaner reduces the level of dust contamination, both before and after drying.
- High capacity: With high capacity of up to 40 t/h, pre-cleaning places no restriction on the rate of grain within the plant, even when bulking out for delivery to merchants.
- Selling: A cleaner sample commands a higher selling price.
- Mobility: The transport equipment (accessory) enables the DPC 40 to be moved from place to place with care.

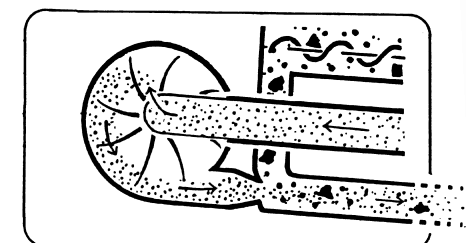
## DPC 40 cleaning and separation of malting barley - the advantages:

- The malting barley can be delivered completely clean from the plant grower.
- You can make use of small grains for fodder.

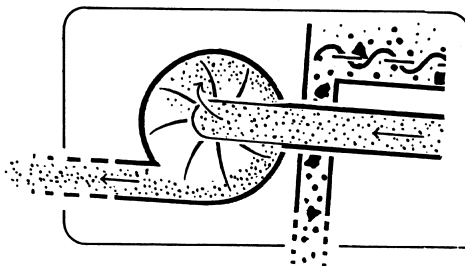
Cleaning/Grading of malting barley and seed requires roller brush to clean outer screen. (Optional extra).

## Mode of operation

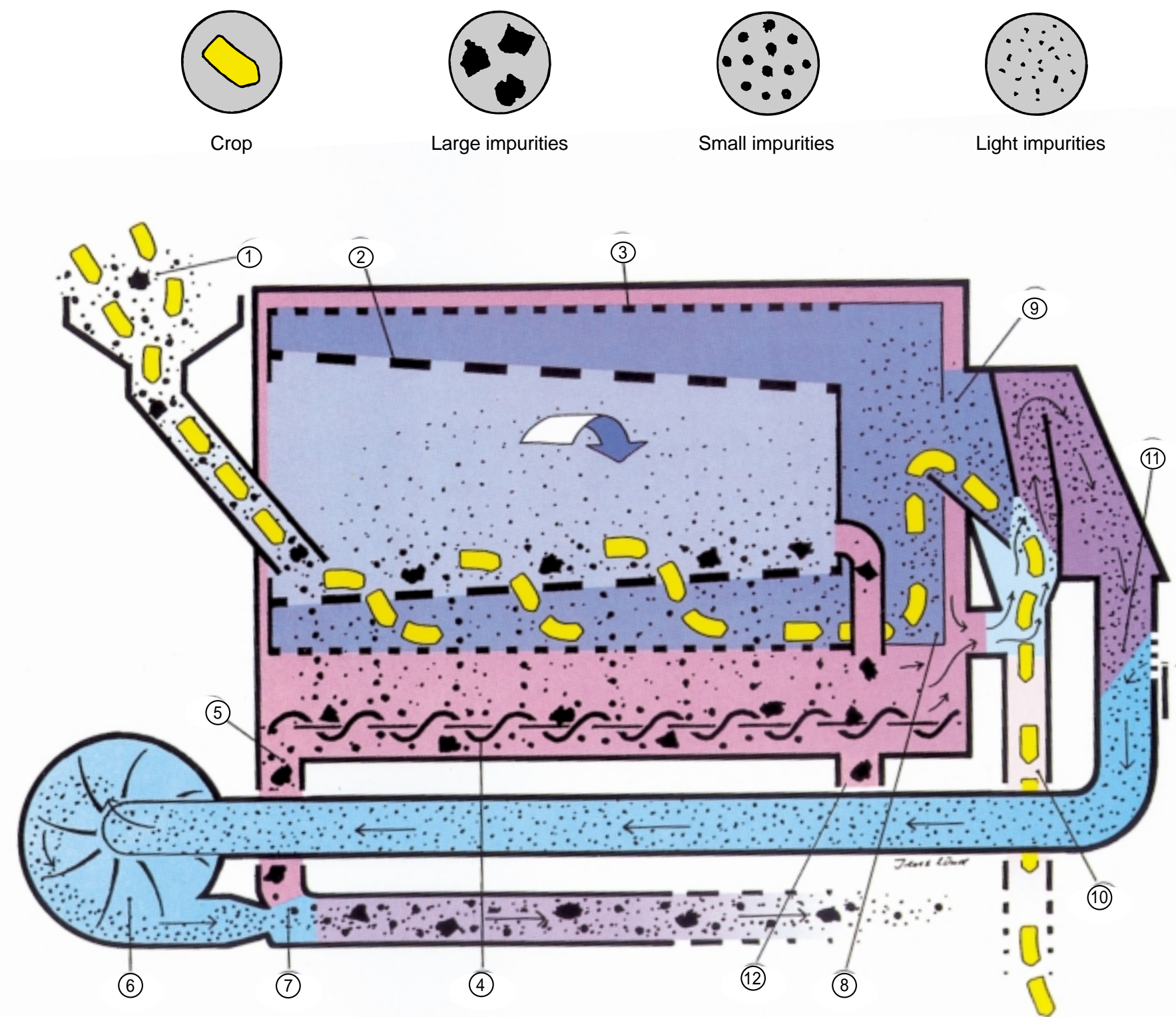
Unclean grain flows down the inlet duct, (1), into the rotating inner drum screen, (2). This drum is conical, tapering away from the inlet. This reduction in diameter slows the movement of grain towards the far end, ensuring that all grain and small impurities pass through. Oversized impurities are ejected at the end of the inner drum, falling into the trash auger, (4). Small impurities pass through the outer screen, (3), and fall into the trash auger trough. The grain is picked up by an elevating scoop, (8), at the drum end and delivered to the aspiration chamber, (9). Finally, the cleaned grain is discharged through an OK 200 outlet, (10). Dust and light impurities are drawn by the aspiration fan, (6), into the trash blow line. Fan action is varied by adjusting the air bleed, (11). Screenings can be delivered, via a venturi, (7), into the trash blow line or, alternatively, discharged via gravity outlet, (7), and/or, (12).



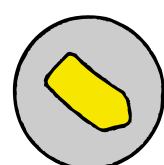
Impurities separated by screens and aspirator discharged into the trash blow line.



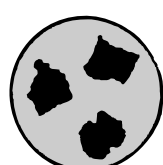
Impurities separated by screens and aspirator discharged separately.



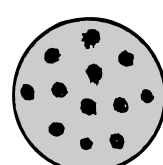
- |                     |                            |
|---------------------|----------------------------|
| ① Intake            | ⑦ Venturi                  |
| ② Inner screen      | ⑧ Scoop elevating section  |
| ③ Outer screen      | ⑨ Aspiration chamber       |
| ④ Auger             | ⑩ Outlet, cleaned grain    |
| ⑤ Screenings outlet | ⑪ Air bleed                |
| ⑥ Fan               | ⑫ Outlet from inner screen |



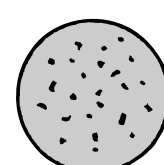
Crop



Large impurities



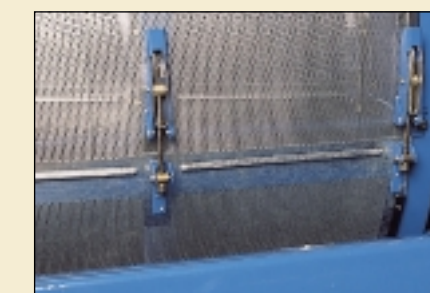
Small impurities



Light impurities



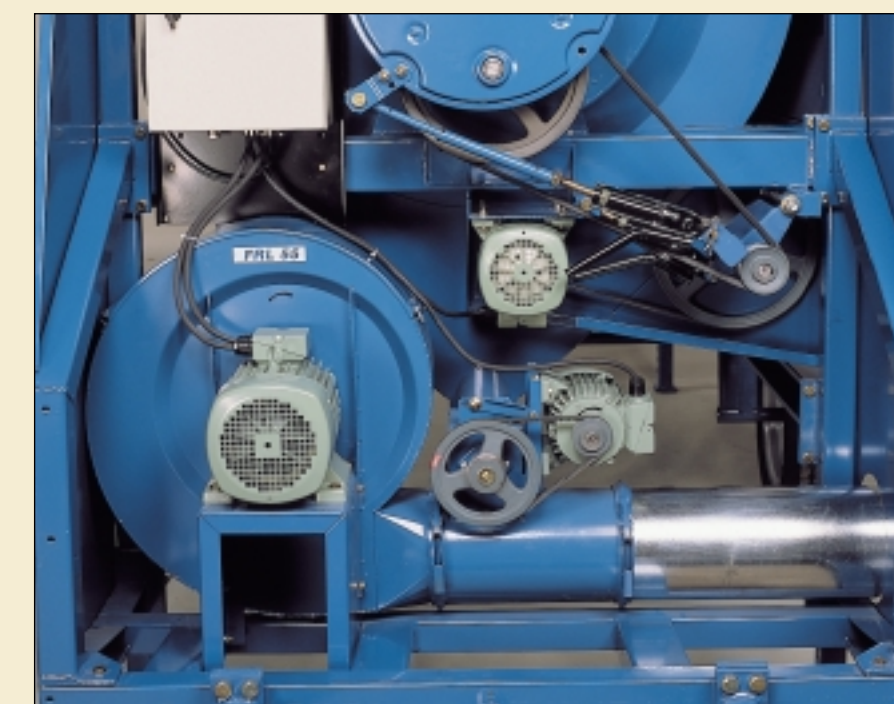
The illustration shows the separate disposal of impurities. A TRL 55 removes screenings, and aspirated impurities are conveyed away by the combi-cleaner's fan. The DPC 40 is shown equipped with transport wheels and drawbar (optional extras).



Secured by means of self-locking handles, the screen can be replaced without the use of tools.



On one side of the machine is a spirit level to indicate the correct inclination. The inclination determines the flow velocity and thickness of the grain layer on the screens - and furthermore the cleaning efficiency.



The combi-cleaner is easy to service. Replacement and tensioning of belts are quickly effected by means of the special belt-tensioning system.

# Why choose the Kongskilde combi-cleaner?

## Air cleaning following screen cleaning

The impurities that are loosened - but not separated - by the movement of the crop in the screens will be separated in the aspiration chamber.

## Combined conveying of impurities

Impurities are separated in the screen section as well as during aspiration:

- A: All impurities may be conveyed by the combi-cleaner fan.
- B: Impurities may be kept separate, allowing those from the screens to be discharged through gravity outlets and light impurities to be conveyed by the aspiration fan.

## Easy screen replacement

Both the inner and outer screens have a quick-release system attached to the screens to allow easy replacement without the use of tools.

## Adjustable angle of inclination

The combi-cleaner is provided with a spirit level to show the inclination. This makes it easy to adjust the machine to the right angle of inclination (normally 4° to the rear).

## Easy maintenance

The combi-cleaner is easy to service. Replacement and tensioning of belts are quickly effected by means of the special tensioning equipment.

## Enclosed system

The machine can be provided with a complete set of dust covers.

## High degree of accuracy

The punched screens are made of sheet steel on computer controlled machinery to ensure a high degree of accuracy and uniformity. The screen slot sizes do not vary as in wire screens.

## Rotary screens

The DPC 40 is equipped with rotary screens, eliminating the vibrations caused by forward and backward movement.

## Tractor driven

The DPC 40 is also available in a p.t.o. version, giving complete independence from electric power.