



**KONGSKILDE**

*Efficient Grain Conveying  
Systems*



# Kongskilde's mechanical conveying systems - a reliable and lasting range.

Kongskilde has a wide range of mechanical conveying solutions for both vertical, inclined and horizontal conveying of agricultural crops.

Therefore we are able to make up conveying solutions exactly fitting your grain handling system - irrespective of capacity.

## Kongskilde Conveying Systems



*Kongskilde KBE bucket elevators - gentle vertical conveyance with low energy consumption.*



*Kongskilde CFG chain elevators - compact solution of conveying for both vertical, inclined and horizontal conveying, where the space is narrow.*



*Kongskilde KCC chain conveyors - for horizontal conveying with great importance attached to high capacity and low energy consumption.*



*Kongskilde BCA belt conveyor - ideal for self-cleaning horizontal conveying where the space is narrow.*



*Kongskilde grain augers - an all-round and economical solution for many conveying jobs.*

## Conveying Capacities

**Kongskilde KBE bucket elevators:** 6 different models with max. capacities of 20, 40, 60, 80, 100, and 120 t/h (on inquiry up to 300 t/h).

**Kongskilde CFG chain elevator:** Capacity up to 40 t/h.

**Kongskilde KCC chain conveyors:** 6 different models with max. capacities of 20, 40, 60, 80, 100,

and 120 t/h (on inquiry up to 300 t/h and conveying up to 45 degr.).

**Kongskilde BCA belt conveyor:** Kongskilde's belt conveyor model BCA 45 has a max. capacity of 45 t/h (on inquiry belt conveyors with max. capacities of 60 and 100 t/h can be supplied too).

**Kongskilde DGA/DGS grain augers:** 5 different models with

capacities up to 70 t/h at an angle of 45 degr.

**Kongskilde DTA trough augers:** 3 different models with capacities up to 50 t/h at horizontal conveying.

**Kongskilde DGC grain cannons:** 3 different models with capacities up to 28 t/h at an angle of 45 degr.



# Kongskilde KBE Bucket Elevators

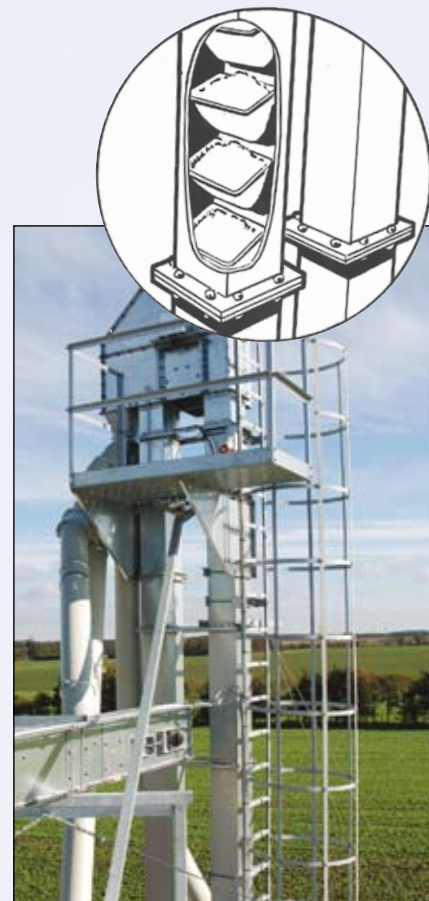


**Kongskilde's KBE bucket elevators** are as standard supplied with capacities from 20 to 120 t/h, and on inquiry with capacities up to 300 t/h. With Kongskilde's KBE bucket elevators the grain conveying is very gentle, and the energy consumption is low.

Kongskilde's KBE bucket elevators are manufactured in a strong galvanized industrial quality being ideal for outdoor installation, and they

fit perfectly with the rest of Kongskildes grain handling equipment and pipe systems.

**Elevator head:** Designed for gentle conveying and can be equipped with back-stop preventing that the elevator gets stuck at break-downs. At transmission a shaft-mounted gearmotor is used to adapt the conveying capacity of the bucket elevator. All plates on the elevator head are galvanized.



**Elevator foot:** Designed for gentle inlet and can be equipped with belt speed monitor stopping the bucket elevator, if the elevator belt starts sliding. It is equipped with mechanical belt tightening and cleanout door for manual inside cleaning. All plates are galvanized.

**Extensions:** Available in standard modules with lengths of 2500, 1000, 500, and 250 mm. Also available with extraction nozzle for dust extraction.

Standard	KBE 20	KBE 40	KBE 60	KBE 80	KBE 100	KBE 120
Capacity t/h Density 0.75 t/m <sup>3</sup>	20	40	60	80	100	120
Buckets, qty./m belt	6	12	8	10.5	7.5	9
Elevator head plate thickness, mm	3	3	3	3	4/3	4/3
Elevator foot plate thickness, mm	3	3	3	3	4/3	4/3
Extensions, plate thickness, mm	1.5	1.5	1.5	1.5	1.5	1.5
Inlet from grain pit	Yes	Yes	Yes	Yes	Yes	Yes
Bevel-gearmotor	Yes	Yes	Yes	Yes	Yes	Yes
Recommended outlet, mm	160	200	200	250	300	300



# Kongsilde KCC Chain Conveyors



**Kongsilde's KCC chain conveyors** are ideal for horizontal conveying and are as standard supplied with capacities from 20 to 120 t/h, and on inquiry with capacities up to 300 t/h.

The KCC chain conveyor is designed for horizontal conveying and as standard for inclined conveying up to 7 degr., however with reduced capacity. On inquiry models for inclined conveying of more than 7

degr. can be supplied. On inquiry we can also supply KCA chain conveyors to be mounted in grain pits. The KCA model can unload into a bucket elevator by means of a "swan-like neck".

KCC chain conveyors are supplied in a strong, galvanized industrial quality and fit with the rest of Kongsildes grain handling equipment and pipe systems. The chain conveyors are as standard supplied

with exchangeable PEHD plastic bottom ensuring a noiseless operation and long life.

Kongsildes KCC chain conveyors can also be delivered as reversible conveyor with double bottom.

**Driving section:** Designed in a reliable quality and equipped with a shaft-mounted gearmotor. All plates are galvanized.

Can be equipped with a safety switch stopping the chain conveyor, if the material gets stuck in the conveyor.

**Tightening section:** Designed in a reliable quality and equipped with manual tightening function.

**Conveying chain:** Equipped with brushes ensuring optimum chain cleaning.

**Outlets:** Available as manual, pneumatic or motor-operated outlets.

**Extensions:** Available in standard modules with lengths of 2970, 1270, 670, and 370 mm.

Standard	KCC 40	KCC 60	KCC 80	KCC 100	KCC 120
Capacity t/h	40	60	80	100	120
Driving section plate thickness, mm	2/3	2/3	2/3	2/3	2/3
Tightening section plate thickness, mm	2/3	2/3	2/3	2/3	2/3
Extensions, plate thickness, mm	2/3	2/3	2/3	2/3	2/3
Gearmotor	Yes	Yes	Yes	Yes	Yes
PEHD plastic bottom, thickness, mm	10	10	10	10	10
Weight per m extensions, empty/full kg	40/65	45/83	45/83	59/123	63/146

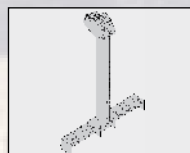
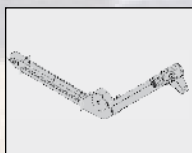
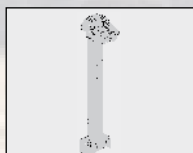


# Kongsilde CFG Chain Elevators

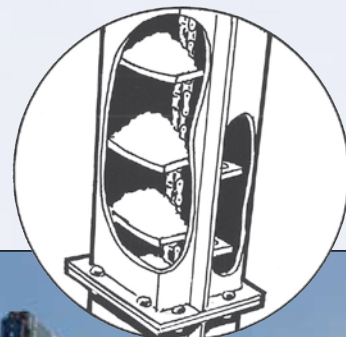


**Kongsilde's CFG chain elevators** are both suitable for vertical and horizontal grain transport. The capacity is up to 40 t/h, and the capacity is the same no matter, if the grain is conveyed vertically or horizontally.

Kongsilde's chain elevators are suitable where the space is narrow. The chain elevators utilise the total height efficiently, as there is only 48 cm from the elevator top point to the lower edge of the outlet.



*Horizontal, vertical and inclined conveying is possible with a CFG chain elevator.*

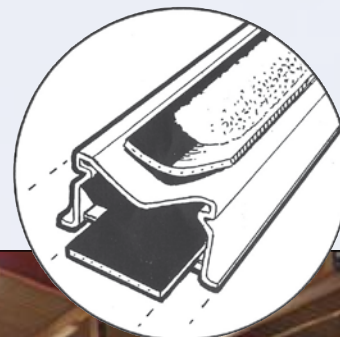


The inlet is placed as far down as possible below the lower elevator shaft. If the chain elevator is placed in a grain pit, the grain pit does not have to be especially deep. The size of the grain pit can be adjusted by increasing the width. Then side augers are used to convey the grain to the inlet of the elevator.

Kongsilde's CFG chain elevator is as standard supplied with a heavy duty V-belt transmission, but is also available with shaft-mounted gearmotor, which only requires a minimum of maintenance.

The CFG chain elevator is manufactured from galvanized plate, thus being suitable for outdoor installation. Kongsilde's CFG chain elevators fit with the rest of Kongsilde's grain handling equipment and pipe systems.

# Kongskilde BCA Belt Conveyor



*A movable belt conveyor for continuous and self-cleaning filling is possible by fixing the BCA belt conveyor to roller supports to be suspended from I-beams.*

**Kongskilde's BCA 45 belt conveyor** is ideal for gentle and self-cleaning conveyance in buildings where the space is narrow. The V-shaped rubber belt ensures a very gentle conveying of both grain, rape and seed, as the crop does not touch the belt box. The conveying capacity is up to 45 t/h (on inquiry also belt conveyors with max. capacities of 60 and 100 t/h can be supplied).

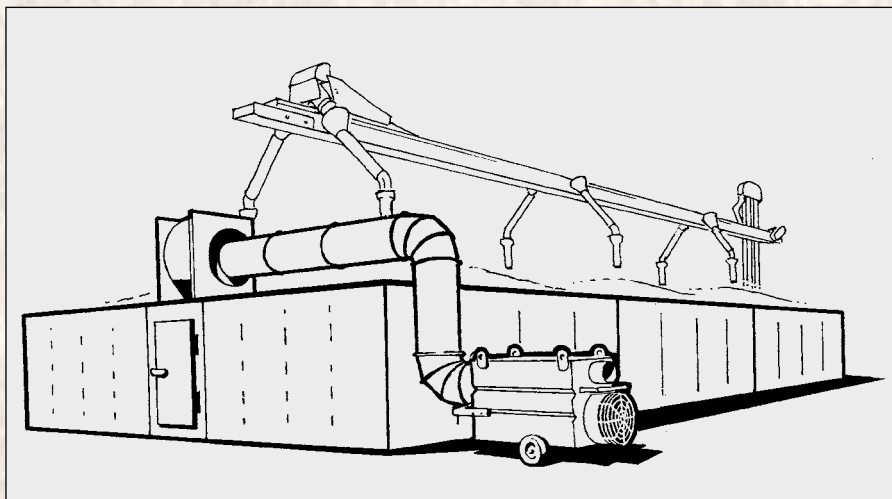
Kongskilde's BCA 45 belt conveyor is self-emptying making it ideal for self-cleaning conveying.

Kongskilde's BCA belt conveyor is for horizontal conveying over distances up to 50 m.

The BCA 45 belt conveyor can also be used for inclined conveying up to 15 degr., however with reduced capacity.

The BCA 45 belt conveyor can be delivered with fixed or movable inlets. Discharge can take place over both ends or by a movable discharge unit.

By suspending the belt conveyor in I-beams it is movable, and thereby continuous filling is possible.



*With a movable discharge unit the grain can be continuously discharged over the whole length of the conveyor. Unload to both sides of the belt is possible without losing height. Electric equipment for remote control of the discharge unit is available.*



# Kongskilde Grain Augers

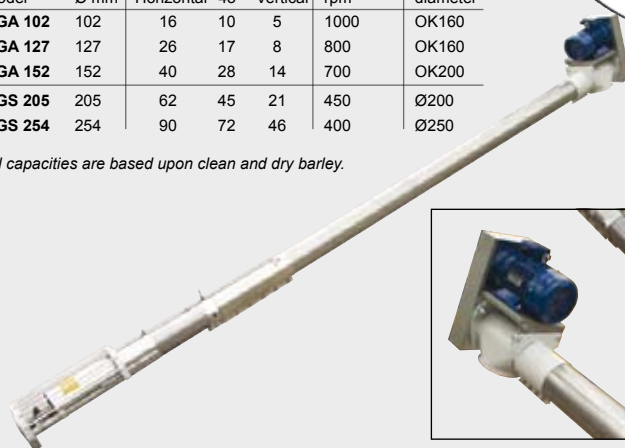
Kongskilde has a wide range of different augers, DGA/DGS grain augers, DTA trough augers and DGC grain cannons.

## DGA grain auger

Kongskilde's DGA/DGS grain auger is a reliable and simple conveyor. Easily relocated, installed, and if necessary, also easily extended. The DGA/DGS auger is able to operate in all angles from horizontal to vertical. The DGA/DGS grain augers are available in 5 different diameters. DGS 254 is equipped with gearmotor, all the other models are having V-belt drive.

Capacity (guidelines only)						
Model	Tube Ø mm	Capacity t/h	Horizontal	45°	Vertical	Auger rpm
DGA 102	102	16	10	5	1000	OK160
DGA 127	127	26	17	8	800	OK160
DGA 152	152	40	28	14	700	OK200
DGS 205	205	62	45	21	450	Ø200
DGS 254	254	90	72	46	400	Ø250

All capacities are based upon clean and dry barley.



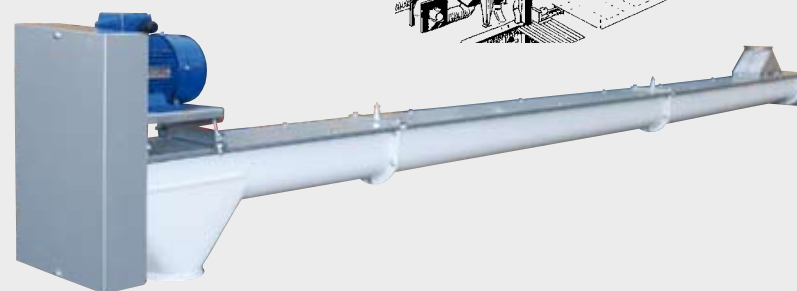
## DTA trough auger

Kongskilde's DTA trough auger is both suitable for horizontal conveying and for inclined conveying up to 30 degr. - however with a reduced capacity.

Conveying in trough augers is characterized as free of dust and with a low noise level. Furthermore, a trough auger stands running unloaded, and is able to convey both directions by means of a pole-changing switch on the motor. Kongskilde's trough augers are available in 3 different diameters - all with V-belt drive.

Capacity (guidelines only)				
Model	T/h	Motor rpm	Auger rpm	Outlet diameter
DTA 152	20	1400	330	OK160
DTA 205	30	900	220	OK200
DTA 254	50	900	220	OK200

All capacities are based upon clean and dry barley.

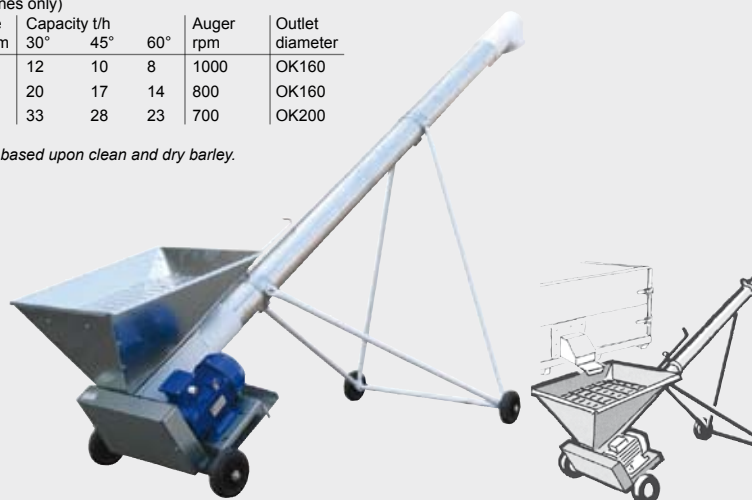



## DGC grain cannon

Kongskilde's DGC grain cannon has a bottom-mounted motor with V-belt drive and a large built-in intake hopper. This ensures a low centre of gravity and thereby makes it easy and safe to move. The grain cannon is therefore ideal for unloading of trailers etc. The grain cannon is available in 3 different sizes with capacities up to approx. 33 t/h depending on the working angle of the grain cannon.

Capacity (guidelines only)						
Model	Tube Ø mm	Capacity t/h	30°	45°	60°	Auger rpm
DGC 102	102	12	10	8	1000	OK160
DGC 127	127	20	17	14	800	OK160
DGC 152	152	33	28	23	700	OK200

All capacities are based upon clean and dry barley.





The grain mission of Kongskilde is to create efficient grain handling and storage systems for large and medium-sized farms.

Hence Kongskilde provides support and solutions for conveying equipment both as separate components as well as conveying equipment for complete grain handling plants.



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