Kongskilde Germinator Pro
Kongskilde Vibro Crop Intelli
Kongskilde Vibro Crop Robotti
Kongskilde KDC 8000
Kongskilde Vari Flex On-Land
Becker Aeromat HKP 8 DTE “E-motion”
JF-STOLL VM21-3
JF-STOLL GXS 4005
JF-STOLL FCT 1460
JF-STOLL SMF 3005
In 1949, as the mechanisation of agriculture began to gather pace in Denmark, the two brothers-in-law, Hans Tyndeskov and Mogens Petersen, established Kongskilde. The company’s first products were grain blowers, which were soon followed by spring tine cultivators and mobile heaters. These products set new standards at the time and the three product groups still form the basis for a large part of Kongskilde’s activities with agricultural equipment and grain handling equipment.

In the 90’s Kongskilde then expanded its business to include pneumatic transport solutions for industry applications, primarily paper and plastic, and today the industrial division is an important business area.

Between 1997 and the present day, Kongskilde has taken over a number of leading companies within soil preparation, grassland machinery and diet mixers. All these companies have each had a great influence on the mechanisation of the agricultural sector, and Kongskilde is known for its strong traditions and innovative brands.

Today, Kongskilde is a full line company within soil preparation, grassland machinery, complete diet mixers, grain handling equipment and pneumatic conveying in the plastic, paper and packaging industries. The company has subsidiaries in 11 countries worldwide, with production facilities in 4 of these. Kongskilde is owned by DLG (Danish Cooperative Farm Supply), Denmark.

Historical milestones

Kongskilde - the beginning:
1949 Start of blower production
1955 Export sales
1956 Start of production of cultivators and S-tines
1993 Start of industrial sales

Kongskilde purchases:
1997 Danagri-Pol, Karl Becker, Juko, Överums Bruk
2000 Howard, Nordsten
2009 Danagri Deutschland (Becker)
2010 Progressive Farm Products
2011 JF-STOLL
SOIL, GRASS & FEEDERS: Soil preparation from stubble to harvest and optimized machine chain from field to muzzle. Kongskilde develops methods and equipment for soil cultivation and plant care marketed under the brands; Kongskilde, Howard, Nordsten, Överum and Becker. For the production and feeding of green fodder Kongskilde markets grassland machinery and complete diet mixers under the brand JF-Stoll.

GRAIN & STRAW: System solutions for the agriculture. Kongskilde is known for its particular competence in the transportation, drying, storage and sorting of grain and other crops as well as systems for drying big bales. In addition, Kongskilde offers a comprehensive range of mobile heaters for drying and heating in the agricultural, construction and industrial sectors.

VITFOSS: Production and marketing of premixes as well as of vitamin and mineral compounds for animal production in the feedstuff industry.

INDUSTRY: System solutions for the industry. For the plastic, paper and packaging industries Kongskilde has specialized in concepts for pneumatic transport and handling of process material.
Enclosed please find our press releases on:
• Kongskilde Germinator Pro
• Kongskilde Vibro Crop Intelli
• Kongskilde Vibro Crop Robotti
• Kongskilde KDC 8000
• Kongskilde Vari Flex On-Land
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• JF-STOLL FCT 1460
• JF-STOLL SMF 3005

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Visit us at Agritechnica 2013 in hall 5, stand A38.
Press release

Trailed precision seedbed cultivator
Kongskilde Germinator Pro

At Agritechnica 2013 Kongskilde introduces a new series of trailed precision seedbed cultivators with working widths from 5.40 - 7.90 m and a transport width of 3.0 m.

The concept of the new Germinator Pro series from Kongskilde is to offer a solution for creating a high quality seedbed in ploughed conditions. The yield achieved in high value crops such as sugar beet, onions etc. is closely correlated to the preparation of the seedbed. Higher crop prices generally place extra demands on getting the maximum yield from every crop grown. The new Kongskilde Germinator Pro is a means to creating an optimal seedbed in a single pass, providing near-perfect conditions for the seeds to germinate.

Establishing a uniform seedbed ensures a fast and even germination of the crop. Due to a highly even crop development, subsequent crop protection can also be better timed in order to get the highest effect from the lowest input.

As a long-term specialist manufacturer of seedbed cultivators Kongskilde wants to offer its new cultivator to professional farmers with a keen desire to create a good start for their crops.

The new Germinator Pro is based on the same unique working principle as the well known Germinator which Kongskilde has sold over many years with great success. However, the time is now right to renew the complete concept with a cultivator which matches the demands of today’s farming and tractor sizes.

5 working zones
The cultivator is divided into 5 working sections.
1. At first a new hydraulically-operated flexboard levels out the soil ahead of the first depth roller. This takes away the unevenness of the topsoil, and the result is a working section running smoothly and precisely.
2. The heavy duty Ø320 mm front crumbler roller accurately controls the depth of the working section.
3. Five rows of the new straight Kongskilde Vibro Super G tines placed at 6 cm spacing ensure 100% cultivation and mixing of the soil profile.
4. The rear levelling board provides a light levelling of the open soil after the tine section, leaving a complete level surface.
5. The double roller combination at the rear provides crumbling and re-consolidation. Different combinations of rollers can be offered in order to suit the local conditions and demands of crumbling and re-consolidation.

Individual working sections
The 4 - 6 working sections are individually suspended beneath the main frame within a unique hydraulic suspension system which allows every section to follow the soil contours extremely precisely. It means that the exact chosen working depth can be achieved across the full working width.
High capacity
Kongskilde Germinator Pro is a high-capacity cultivation system. The smart folding principle of the wing sections allows easy movement from field to field, as well as safe road transport. Optimum working speed is 10 – 12 km/hour, requiring approx. 30-35 hp per metre working width.
At Agritechnica 2013 Kongskilde introduces a new mechanical row crop cultivator - Vibro Crop Intelli - with camera steering and GPS section control for working in irregular-shaped fields.

**Camera Steering**

The new Vibro Crop Intelli row crop cultivator is mounted in a new hydraulic side-shift frame attached to the tractor. By means of a camera mounted on the side wing and a control box in the tractor cab the side-shift frame ensures that the cultivator constantly follows the individual rows. With an accuracy down to approx. 2.5 cm the cultivator is able to work very close to the plant rows.

**GPS Section Control**

Vibro Crop Intelli row crop cultivator can be equipped so that each individual section can be hydraulically lifted out of the row during operation. With the new row lifting system the crop can be cleaned all the way to the headland, even on oblique work. This means that the use of herbicides can be reduced, as the entire field can now be cleaned mechanically. The automatic section control is managed via a GPS terminal in the tractor cab.

**Optional Grass Seed Hopper**

As an option, Vibro Crop Intelli row crop cultivator can be equipped with a pneumatic grass seed hopper (FS Seeder), which enables the sowing of compulsory intermediate crops after the final pass in certain markets. The grass seed is distributed through flexible hoses to spreader plates mounted in front of the following harrow, which immediately covers the seed and encourages fast germination.

**High Capacity**

The new Vibro Crop Intelli row crop cultivator is available in 50 cm row width for 12 and 18 rows, and in 75 cm row width for 8 or 12 rows. By means of a new frame construction a capacity increase of 50% is achieved over the previous frame design.

The Kongskilde Vibro Crop Intelli row crop cultivator can be equipped with section control, making it possible to cultivate the entire field. Section control is carried out via a GPS terminal in the tractor. A new hydraulic side-shift frame steers the machine in the rows via a camera on the side wing, and is accurate down to approx. 2.5 cm.
Press release

New automated agricultural platform - Kongskilde Vibro Crop Robotti

At Agritechnica 2013 Kongskilde presents a new autonomous agricultural platform for automated and semi-automated task performance in plant production.

The autonomous agricultural platform Kongskilde Vibro Crop Robotti is an electrically driven tracked module to which different forms of working implements can be attached. For example it can be equipped with Vibro Crop Intelli sections for mechanical weed control or implements for precision seeding (Becker Aeromat or Centra), ridging discs and mechanical row crop cleaning units (Kongskilde Vibro Crop).

Vibro Crop Robotti offers a solution for plant production with high product quality standards, high safety and environmental concerns. Where labour costs are high, Kongskilde Vibro Crop Robotti allows significant cost savings, as well as the positive effects of increased operational efficiencies and avoidance of negative environmental impacts.

In precision farming, the goal of growing more and having better output with less input is reflected in practice by the use of sensor technology in applying a more precise and targeted quantity of fertilizer and the use of fewer chemicals. Sensor-based measurements in agriculture are already used efficiently for site-specific treatments in crops.
At Agritechnica 2013 Kongskilde presents a new larger KDC 8000 grain cleaner with 80t/h capacity.

Modern agriculture is continually looking for equipment with increased capacity. The new KDC 8000 cleaner is a dual cleaner with both a screen cleaning for size separation and an aspirator function for removing of dust and light impurities. The KDC 8000 works efficiently in most common farm crops such as grain, corn, sunflower and canola. The KDC 8000 is specifically designed to be used in farm grain handling installations. The new cleaner is designed to be built into a system that allows grain to be cleaned as it passes through the plant.

Clean crop
Large volumes of combine-able crop are handled on farms today. Cleaning of the grain ensures safe storage and provides a quality of grain that will ensure optimum yield of saleable grain. A clean crop can provide easier handling and the possibility to sell into new markets with potential for greater earnings.

KDC 8000 design
The basic function of the KDC 8000 is performed by a rotating drum mounted with an inner screen and an outer screen. The crop is fed via the inlet into the inner screen. The inner screen is having holes large enough to let the grain go through, but hold back large impurities.

In the outer cylinder the grain passes over a series of holes that will allow small impurities to pass through, but retain all grains of the desired size. There is no vibration or shaking of the slowly rotating drum, thus avoiding any stress load on screens or frame. This makes for a less expensive installation as the cleaners gentle action removes the need for heavy mounting platform etc. The choice of screens will determine the % of material that is rejected from the sample.

After passing over the outer screen, the grain is lifted by a series of paddles into the aspirator section. The aspirator is removing remaining light impurities and dust from the crop. The impurities separated from the grain on the screens are collected in a hopper in the bottom of the machine. In the bottom hopper is an auger conveying the impurities to be discharged either in a separate outlet or together with the impurities from the aspirator.

Installation
KDC 8000 is designed to be installed outside. Components exposed to the ambient impact from the weather are made of galvanized steel.

The most convenient way to incorporate the cleaner in the grain handling plant is to have it installed in the line of the conveying system in such a way that the grain is passing through when conveyed from intake to either drying or storage.

The impurities removed from the crop are conveyed by the aspirator blower through pipes to be discharged up to 15m away from the cleaner. It is possible, after separation, to discharge small grains from an outlet in the hopper so as to retain them for an alternative use or sale.

Operation
The KDC 8000 is equipped with 3 individual motors with a total installed power of 7.7kw. The motors are pre-wired to a control panel with motor overload protection built in. By pressing 1 start button or by input from an external source, the motors all start in sequence. Each crop will require a specific screen size and there is a range available to cover all the common crops. The screens are mounted on the cleaner drum with a quick release system making it easy to change screens without tooling. Only tooling to be used for changing screens is a wrench to remove safety covers on the side of the machine.
Överum Vari Flex EX On-land is a new series of heavy duty fully mounted reversible ploughs. The new range consists of models from 5 to 7 furrows with hydraulic stone release system.

The On-land feature means that the new plough can be pulled by a tracked tractor or wheeled tractor (with or without dual wheels) from an on-top position without wheels in the furrow. With accurate GPS support this technique works well in many conditions. On-land ploughing means less compaction in the furrow bottom and can also avoid the need to change between dual and single wheels. In addition it opens up the tracked tractor sector to the positive effects that ploughing offers to a high yielding crop.

In the On-land position the plough is correctly balanced for turning over without the need for alignment.

The Överum Vari Flex EX On-land can easily be altered to in-furrow work. In wet conditions On-land ploughing can have limitations, and in such cases the Överum Vari Flex EX On-land can be used as an ordinary plough with the tractor wheels in the furrow for optimum traction and better directional stability. In this configuration automatic alignment to minimum working width takes place before turn-over of the plough.
At Agritechnica 2013, single-seed sowing technology specialist Becker will be presenting a recently redesigned seed drill - the Aeromat HKP 8 DTE “E-Motion” - with new, user-friendly settings, electric drive for the fertiliser spreader and new equipment variants, all packaged in a new design.

E-drive for fertiliser spreader
This innovation replaces the mechanical drive. The electric drive for fertiliser metering allows you to determine the fertiliser volume very precisely. Another advantage of the e-drive is that it allows the user in conjunction with the monitor (FO300) to control the volume of fertilizer required without stopping.

More user-friendly device settings
• A new handle for the pressure rollers with five different pressure stages replaces the previous crank handle.
• New hand crank is used for adjusting the planting depth, which makes adjustment easier.

New equipment variants
• New intermediate pressure roller (Ø230) to ensure a uniform seed planting depth. The new intermediate pressure roller prevents the seeds rolling out of place in the furrow. Furthermore, better soil contact is achieved in heavy soil (capillary effect).
• The new star scraper (Ø260) removes clods, stones and plant residues in unprepared or minimally prepared soil containing a large proportion of crop residues.
• New leaf spring for the disc fertiliser coulter

New design 2013
At Agritechnica 2013, the “Aeromat” HKP 8 DTE “E-Motion” from Becker will sport a new, contemporary and future-oriented design along with its tried and tested technology.

Thanks to its technical innovations and future-oriented design, the Becker-Aeromat is well equipped to meet the ever-growing demands of the market, now and in the future.
An adapted colour scheme represents membership of the Kongskilde Group.
At Agritechnica 2013 diet feeder specialist JF-STOLL introduces a completely new range of big, compact diet mixers designed for large dairy and beef farms.

**Efficient and Homogeneous mixing with 3 augers**
The new range of JF-STOLL FEEDERS is based on 3 vertical mixing augers with capacities from 21 m³ - 28 m³. With 3 augers in the mixing tub, 2 effective process areas are created where the knives from 2 augers meet. This results in extraordinarily high efficiency for shredding and cutting of long material, round and big bales etc. With 15 (5 per Auger) knives as standard and up to 36 knives as option, the process can be adapted to the needs of the individual farmer - those who want a mix with high contents of fibres as well as those who want to make compact diet.

**Compact and flexible diet feeder**
The new diet feeders have a width of only 224 cm and a height of 259 cm (VM 21-3 SB) so can enter very low buildings. Narrow diet feeders are easy to handle as there will be more room width ways in the barn and the operator has a much better view from the tractor seat. The low overall height (259 cm for 21 m³ and 305 cm for 26 m³ with bogie) guarantees a high loading capacity and reduces time consumption as you do not have to raise the front loader to the highest position or push out the loading arm of the telescopic handler.

**Effective unloading**
The new FEEDER range is available with 1, 2 or 3 side doors on each side for unloading. Unloading with 3 doors allows a high driving speed, reducing wear on the tractor clutch and increases feeding capacity.

The FEEDER models with cross conveyor (SB) are equipped with a very big front door which has a 120 cm wide opening to the cross conveyor, which is recommended for mixes with high contents of fibres. Optional extension elevators are also available.

**Strong diet feeder for professional farmers**
A strong bogie with 4 springs and axles with big hubs and large brakes guarantee stability high braking power and makes it possible to use truck wheels as spare wheels. 6 weigh cells between the chassis and tub support the tub optimally and guarantee reliable weighing information. Wireless weighing system is standard, which means the main display is placed in the loader, enabling you to load the feeder from all sides.

All complete diet mixers from JF-STOLL are delivered with 15 mm auger windings made of steel quality S500. S500 is a high-strength steel with very high wear resistance compared to the market standard, which is quality S355. The tub sides are made of steel quality S650, which is also unique.

For extreme use on large cattle farms producing many mixes each day, JF-STOLL offers tub side reinforcements of stainless steel, making the feeder nearly impossible to wear out.

**A new big range consisting of 4 families in 4 sizes.**
The VM 3 S range is available in models with various door options, models with cross conveyor and the combination cross conveyor and straw bedding equipment.
Models with possibility of 3 side doors at each side and rear door.
VM 21-3 S
VM 24-3 S
VM 26-3 S
VM 28-3 S

Models with possibility of 2 side doors at front and 2 corner doors at the rear (special versions)
VM 21-3 S C
VM 24-3 S C
VM 26-3 S C
VM 28-3 S C

Models with cross conveyor at front and the possibility of 2 corner doors at the rear
VM 21-3 SB
VM 24-3 SB
VM 26-3 SB
VM 28-3 SB

Models with straw bedding equipment in combination with cross conveyor at front and the possibility of 2 corner doors at the rear
VM 21-3 SB Multi
VM 24-3 SB Multi
VM 26-3 SB Multi
VM 28-3 SB Multi

The new VM-3 S range of JF-STOLL FEEDERS is available in 4 basic versions and in 4 sizes with capacities of 21 m³ - 28 m³. The picture shows VM 26-3 S with an overall height of 305 cm and with possibility of 3 doors at each side, which gives a huge unloading capacity.
The new VM-3 S range of JF-STOLL FEEDERS is based on 3 vertical mixing augers. With 3 augers in the mixing tub, 2 effective process areas are created where the knives from 2 augers meet. With up to 36 knives as option, the process can be adapted to the needs of the individual farmer - those who want a mix with high contents of fibres as well as those who want to make compact diet.

The strong bogie with 4 springs and strong axles with big hubs and large brakes guarantee stability and high braking power. 6 weigh cells between chassis and tub support the tub optimally and guarantee reliable weighing information.
At Agritechnica 2013 JF-STOLL introduces a new 3-point mounted mower with a new type of disc.

**Suspension**
The GXS 4005 mower follows the ground independently of the tractor due to JF-STOLL’s unique Vari Float suspension system. Therefore this machine is perfect for farmers working under various ground conditions as the risk of crop contamination is minimised. The result is a higher quality when the grass is chopped or mixed in the diet feeder. Higher feed quality increases milk yield. This means all processes are optimised, which is one of JF-STOLL’s aims.

**Cutter bar**
The PTO power is transmitted through 1st disc and distributed to all other discs through large dimensioned gear wheels. This means the gear wheels of the cutter bar are able to resist heavy load, which increases efficiency and operational reliability, thereby reducing the overall operating costs. The cutter bar is protected by guide shoes covering the whole width and integrated with the stone guards. This reduces the risk of damage to the cutter bar and protects the plant “crown” to ensure quick re-growth.

Maintaining the driving gear in the cutter bar is easy and fast. It only requires 6 fixings to be removed to detach the disc drive modules from the cutter bar.

The mower has a working width of 3.85 m. For transport the machine is moved to a position behind the tractor by using the hydraulic cylinder, which also acts as stone release during mowing, reducing operational costs in case of collision.
At Agritechnica 2013 JF-STOLL introduces a new high-capacity trailed forage harvester with metal detector.

The high-capacity forage harvester FCT 1360 from JF-STOLL has undergone several constructional changes and has been upgraded, now being introduced as FCT 1460 MD with even bigger output potential. The FCT 1460 MD is equipped with the proven Upper Cut system which has a 25-50% higher capacity than conventional precision chopper, - with the same power requirement.

Drive line
The entire drive line to the feed rollers has also undergone a comprehensive upgrade, which means it has become stronger and more service-friendly. The strong gearbox is now more user-friendly, for example, the chop length can be changed by means of a selector on the gearbox. This has 4 adjustments, from 6-32 mm cutting lengths.

All functions are controlled electro-hydraulically from a user-friendly control box in the tractor cab. Therefore the machine is easy to operate, even under varying ground conditions. The foldable chute can be turned 20 degrees more towards the front in relation to FCT 1360. This makes it possible to fill up the trailers completely and use the potential of the chopper.

The FCT 1460 MD is a good alternative to self-propelled precision choppers. Comparing the power consumption it has a higher capacity than self-propelled choppers and the tractor can be used for other purposes all year, which makes the investment even more cost-effective.
At Agritechnica 2013 JF-STOLL is introducing a new front-mounted disc mower - SMF 3005 - with centre rotating discs; a different way of cutting grass without compromising on quality. With this model it is possible to place the grass perfectly between the tractor tyres.

Suspension
The SMF 3005 front mower is developed to follow the ground terrain independently of the tractor, and without using any extra hydraulic outlets. With this new front mower the risk of soil entering the swath is reduced, resulting in a top quality feed when the grass is chopped or mixed in the diet feeder, thereby increasing the cow’s milk production. This optimizes the whole field to muzzle process, which is central to JF-STOLL’s core philosophy. The front mower is designed for close mounting to the tractor, and with a weight of only 700kg it has a very low power requirement, enabling it to be used on tractors from 60hp upwards.

Cutterbar
The driveline from the PTO shaft goes directly through the first disc and continues via a series of large gears to the other discs. The benefit of this feature is that the cutterbar is able to resist bigger loads, which means higher efficiency and reliability, thereby reducing the total running costs. Furthermore the cutterbar is equipped with unique 1-piece skids and stone guards. This reduces the risk of cutterbar damage, also protecting the grass from being damaged, and ensures quicker regrowth after mowing.

A straightforward top service facility on each disc makes internal cutterbar inspection an easy process. Just loosen 6 nuts and you have quick access.

All guards on the front mower can be folded up at the same time, giving easy access to the cutterbar from all sides. The toolbox is fitted on the left-hand side and contains a special tool for quick and easy knife replacement. Furthermore it is possible to fit double swathing rollers, which can adjust the swath width down to 1.2 metres. The front mower’s working width is 2.96 metres, with a transport width of 2.86 metres.
Global action radius - local network