

# **KONGSKILDE**

## *WING JET*



## Wing Jet

Kongskilde Wing Jet is a boom spreader for fertiliser, microgranulate and seed. It has uniform distribution all along its working width and gives full application rate all the way out to the edge of the field, giving maximum yield in all parts of the field.

Wing Jet has fixed working width of 12, 18, 20 or 24 metres. Minimum wind effect and fixed working width, both independent of the fertiliser used, are important advantages which means a lot for both environment and economy.

The fertiliser is distributed through studded rollers, which gives exact uniform feeding to each outlet. By each spreader plate the fertiliser is then spread over an uniform distribution pattern.

A stepless gearbox, the Variator, is controlling the feeding-rate. Due to the accuracy of the Variator and the fact that the system is ground driven, the feeding mechanism is very accurate. When using GPS (global positioning system) and yield-mapping to set the fertiliser rate, the Variator can be controlled by an electro-motor. The software of the computer is compatible to all common GPS / yieldmapping systems, giving the farmer maximum flexibility.

Wing Jet can be equipped with several types of wheels. Wide tyres with low inflation pressure or narrower tyres for high- or row-crop.

The hopper is made of stainless steel, and all parts coming in contact with the fertiliser are made of non-corrosive material.



### Load carrying

Kongskilde Wing Jet is a load carrying spreader with large capacity for spreading many hectares. The stainless steel hopper contains 4000 litres and can be extended to 6000 litres. The wheel equipment is designed for 0.5 - 0.6 bar inflation pressures in order to avoid soil compaction and at the same time enable high road speeds with loaded hopper. Simple filling from sacks or a farm store together with large hopper and high transport-speeds, give high capacity.

As the chassis is easy to clean due to profiles open outwards and noncorrosive material in many parts, the maintenance is very easily done. This gives the machine a long unproblematic life with a high trade in value.

### Feeding system

Wing Jet spreader has a forced feed from the studded rollers into the ejectors. The material is then blown by a powerful fan in tubes to the spreader-plates. This allows the Wing Jet to spread uniformly regardless of the physical properties of the fertiliser, as well as with a minimum effect of wind. The exact feed system in combination with the delivery boom also makes the Wing Jet spreader suitable for spreading seeds and micro granulates. The feed system is ground-dependent, which means that it supplies the correct amount regardless of the driving speed.

For small application rates a reduction gear can be used by changing place of two gear-wheels. This will allow a wide range of application rates.



Place the same demands on the spreader as those on the sprayer - no spillage along field edges or in ditches.



The outer section is fitted with a spring-loaded safety breakback.



Non-corrosive material in all parts coming in contact with fertiliser.



## The boom

The 24-metre boom has hydraulically buffered side-wings to reduce the movements of the outer ends when driving in rough conditions. The angle of the sidewings can be adjusted hydraulically.

When driving in hilly conditions the horizontal-angle of the whole boom can be hydraulically adjusted to better follow the soil surface. The boom is suspended from a single point and as all movements are hydraulically buffered, it is very easy to set the pressure exact. The result is a very effective buffer system.

The 20 and 18 metre boom is also suspended from a single point and mechanically buffered.

The 12 metre boom has no buffer system.

## The Tronic system

The electronic system, Tronic, enables to both control and adjust the application rate from the drivers seat while on the move.

In areas where needed the rate can be increased in three steps of 10%, and in areas sensitive for lodged corn the rate can be reduced in three steps, each of 10%. The system measures the speed of the feeding shafts and corrects the Variator according to the amount put into the control panel

The display gives information of the actual distribution-rate, not the set-point. This gives the driver feedback and very high reliance to the system.

A simpler system, AKS, can be chosen. This system calculates hectares, controls the hopper level and the partly shut off of the working width.

## Precision farming

Kongsilde Wing Jet is an excellent spreader for precision farming. The precise working width and uniform distribution ensures that the distribution-rate relates to the yield at the same point.

The Tronic computer and electronics are compatible with all common GPS (global positioning system) and yield-mapping programs.

The Tronic computer and electronics can be completed with an intermediate unit translating the signal between the Tronic and the actual GPS-system.

The Tronic can then use the application reading from a GPS computer and adjust the Variator to meet the required application rate.



Large hopper easy to fill ensures cost-efficient spreading.



Hydraulic folding is standard on all booms.



The hopper can be extended to 6000 litres.



Tronic system enables to adjust the feed-rate from tractor cabin.

# Technical data

## Standard

Standard equipment	Optional equipment
<ul style="list-style-type: none"> <li>- Hydraulic on / off feed mechanism</li> <li>- Hydraulic folding of boom</li> <li>- Stainless steel hopper</li> <li>- Tarpaulin</li> <li>- PTO 540 rpm</li> <li>- Calibration tray</li> <li>- Reduction gear</li> <li>- Rear lights</li> <li>- Electric control system with:               <ul style="list-style-type: none"> <li>1/2 or 1/4 width shut off</li> <li>Hectare counter</li> <li>Hopper level indicator</li> <li>Feedshaft rotation control</li> </ul> </li> <li>- Centrally located lubrication points</li> <li>- Wheel size: 600x26.5</li> </ul>	<ul style="list-style-type: none"> <li>- PTO 700 rpm</li> <li>- PTO 1000 rpm</li> <li>- Tronic control system</li> <li>- Stainless-steel hopper extension, 2000 l</li> <li>- Weigh bag and scales</li> <li>- Wheel scraper set</li> <li>- Mud guards</li> <li>- Hydraulic brakes</li> <li>- Pneumatic brakes *</li> <li>- Cleaning tool for feed rollers</li> <li>Wheel sizes:               <ul style="list-style-type: none"> <li>340/85 R38</li> <li>420/85 R34</li> <li>800 x 26.5</li> <li>800 x 30.5</li> </ul> </li> </ul>

\*) only available with 420/85 R34 and 800 x 30.5 tyres.

Type		S 4012	S 4018	S 4020	S 4024
Hopper capacity	litres	4000 (6000 **)	4000 (6000 **)	4000 (6000 **)	4000 (6000 **)
Working width	m	12	18	20	24
No of outlets		20	18	20	20
Filling height	m	2,25 (2,5 **)	2,25 (2,5 **)	2,25 (2,5 **)	2,6 (2,85 **)
Hopper filling area	m x m	2,1 x 2,6	2,1 x 2,6	2,1 x 2,6	2,1 x 2,6
Weight empty	kg	1800	2400	2450	2950
Weight transf. to drawbar	kg	1100 (1500 **)	1100 (1500 **)	1100 (1500 **)	1100 (1500 **)
Max load	kg	6000	6000	6000	6000
Length	m	5,8	5,8	5,8	6,0
Height	m	3,2	3,9	3,9	4,0
Min. horsepower requirement	hp	80	90	90	100

\*\*\*) with hopper extension.

Types of tyres		340/85 R38	420/85 R34	600 x 26.5	800 x 26.5
Recommended infl. press. at max load					
4000 kg	kPa (bar)	250 (2,5)	150 (1,5)	60 (0,6)	50 (0,5)
6000 kg	kPa (bar)	-	190 (1,9)	90 (0,9)	50 (0,5)
Transport width	m	2,4	2,8	2,8	3,0
Track width	mm	1650 - 1980	1840 - 2040	1650 - 1980	1900 - 2180



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