

Germinator



Precision seedbed cultivator

Germinator



The Germinator makes it possible to produce the ideal seedbed which in turn ensures a fast and even germination

Correct Seedbed Preparation Increases Yield

The basis of a good economic return is in the seedbed preparation. Only by selecting the right equipment to prepare the seedbed can the full benefit of chemicals, fertilization and the weather conditions be achieved. This will result in higher yields and ultimately a higher financial return.

The Germinator makes it possible to produce the ideal seedbed which in turn ensures a fast and even germination. This results in an increase in yield and most importantly an increase in earnings.

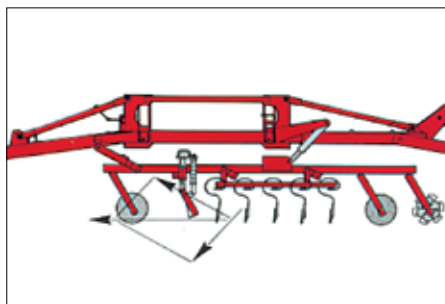
But these factors are not the only items which make the Germinator a profitable investment. In the majority of soil conditions it is possible to create the perfect seedbed in one pass. This can result in the reduction of man hours, fuel consumption etc.

Very often only the surface of the field is analysed before and after drilling. However the correct analysis must take place in the area where the seed is to germinate. This is the reason why the seedbed must be prepared at a uniform depth.

Precise working depth even at shallow depths

In order to obtain this precise working depth Kongskilde has designed a pat-

ented system, where the pulling point is placed directly behind the first row of tines (see drawing below). Due to this the correct balance of the machine is achieved.



The Germinator is equipped with two cage rollers. One in front and one behind the tine section. The cage rollers support the machine in its working position whilst it is moving the soil. This results in an even seedbed down to a maximum depth of 8 cm. The rotacrat is placed behind the rear cage roller in order to ensure the correct compaction and finish is achieved.

Situated between the front cage roller and the tine section is a spring loaded adjustable levelling bar. This ensures the clods are crushed and the soil is levelled prior to the tine section commencing work.



Kongskilde Germinator SP-tine.



Track eradicator kit for all models is available as an optional extra.



The cage rollers support the machine in its working position.



Spring loaded adjustable levelling bar.



The Germinator at work

Due to the Germinator being a trailed machine a precise working depth is achieved due to no external forces being transmitted from the tractor to the machine.

The Germinator is equipped with 3 hydraulic systems which are designed in such a way that only a double acting hydraulic system is required on the tractor.

The hydraulic systems consists of:

1. Single acting system for replenishing of the pressure cylinders.
2. Double acting system for folding of the cultivator
3. Double acting system for raising and lowering of the transport wheels.



The Germinator consists of narrow tine sections. This ensures that each section prepares the soil at a predetermined depth.

When turning and for road transport the entire cultivator is raised by the means of two large transport wheels.

The depth is adjusted by the means of a spindle on each section. This ensures that all movements of the tine section is in the horizontal plain and the correct angle of the tines is maintained.

The precise working depth is only achieved by the combination of several factors within the Germinator. The tines are mounted on strengthened flat bar which ensures a precise depth is achieved. The resilient top of the tine primarily serves as stone safety release. The Germinator tine is, of course, included in the comprehensive Kongskilde warranty period.

To ensure the soil is worked thoroughly the Germinator has 19 tines per metre at a uniform tine spacing of 5 cm.

The changing or turning of the reversible shares is very straight forward. By releasing the four catches positioned on the corners of each tine section it enables one to remove the complete tine selection.

Only with very heavy soil or under very difficult conditions are two passes necessary.

In order for the side extensions to give a steady and precise movement when folding double acting cylinders have been fitted, which ensures a steady and controlled oil flow rate.



The Germinator is equipped with 3 hydraulic systems but only a double acting hydraulic system is required on the tractor.



Transport width 3,0 m (SP 4000 only 2,5 m).



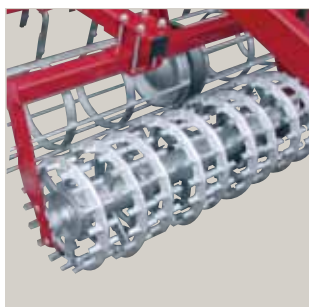
The working depth is adjustable by the means of a spindle on each section.



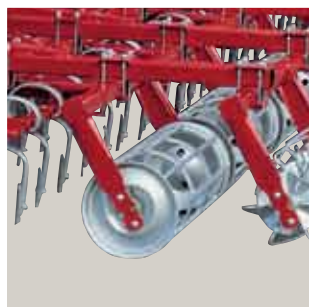
By releasing the four catches on each tine section, the section can be removed from underneath the Germinator when changing the shares.

Technical data

Standard	Accessoires
<ul style="list-style-type: none"> • SP-tine • 5 cm tine spacing • 1,0 m or 0,8 m wide tine sections • Spindle depth adjustement • Hydraulic folding • Hydraulic pressure cylinder 	<ul style="list-style-type: none"> • Track eradicator kit • Different types of rollers



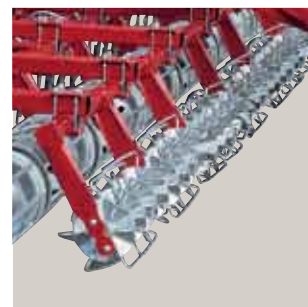
Crosclillet roller.



B-roller.



C-roller.



R-roller.

Size of cultivator	3 m	4 m	5 m	6 m	7 m
Working width	3 m	4 m	5 m	6 m	7 m
Transport width	3 m	2,5 m	3 m	3 m	3 m
Length, Working position	6,2 m	6,2 m	6,2 m	6,2 m	6,2 m
Length, Transport position	5,7 m	5,7 m	5,7 m	5,7 m	5,7 m
Number of tines	55	80	95	115	135
Distance between tines	5 cm	5 cm	5 cm	5 cm	5 cm
Maximum working depth	8 cm	8 cm	8 cm	8 cm	8 cm
Power requirement	75-85 hp	80-100 hp	100-125 hp	120-150 hp	140-175 hp
Hydraulic requirement	140 bar	140 bar	140 bar	140 bar	140 bar
Transport wheels	7,00x12-4 ply	7,00x12-4 ply	7,00x12-4 ply	8,50x12-8 ply	8,50x12-8 ply
Tyre pressure	2,5 bar/35 PSI	2,5 bar/35 PSI	2,5 bar/35 PSI	3,5 bar/50 PSI	3,5 bar/50 PSI
Drawbar hitch eye	5 cm	5 cm	5 cm	5 cm	5 cm
Weight, pulled	1170 kg	1555 kg	1785 kg	2370 kg	2500 kg
Weight, track eradicator kit	111 kg	111 kg	111 kg	111 kg	111 kg



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