

Flexi Drill



The multipurpose drill for low-cost farming



Flexi Drill is a multi-purpose disc coultter machine for drilling in a variety of conditions, right from direct into stubble in certain conditions, through cultivated or ploughed stubble, to semi-prepared soil in the springtime.

It can also be used for non-tillage drilling in light and medium-to-heavy soils.

The Flexi Drill has a unique design of hydraulically controlled coultter sections giving exactly the same coultter pressure across the working width regardless of the horizontal position of the coultters. The coultter pressure (which is proportional to the drilling depth) will also remain even regardless of the weight of seed in the hopper during drilling.

These features make the Flexi Drill unique in the market.

The Flexi Drill is available in seed only (S model) and two combi versions, one with separate fertilizer coultters (C model) and another version placing fertilizer through the seed coultters (M model). The model range covers 3 and 4 m working widths.

The Flexi Drill can be equipped with a variety of optional equipment enabling it to handle soil preparation, fertilizer placement, drilling and consolidation in one pass.

The Flexi Drill is the answer for cost reduction in drilling.

Unique coultter concept

The Flexi Drill uses disc coultters mounted in 50 cm wide sections covering four seed rows (and two fertilizer rows on combi versions). Each section can move indepen-

dently up and down for maximum flexibility and contour following characteristics across the whole working width.

This together with large diameter depth control wheels results in perfect seed placement even in rough fields. Each individual disc coultter is fitted with rubber buffers to absorb any shocks from hitting stones when drilling at high speed.

These features make the Flexi Drill ideally suited to stony conditions.

Advanced Coultter Hydraulics

Coultter pressure is set through a system of linked hydraulic cylinders, with a pressure gauge at the front of the drill displaying the coultter pressure. The hydraulic system enables very easy adjustment of the coultter pressure during operation.

The adjusted coultter pressure remains the same regardless of the weight of the machine, so the drilling depth is therefore not affected as the hopper empties during drilling.

The hydraulic system ensures even coultter pressure on all sections irrespective of the drilling depth of the individual sections.



Land wheel / depth control wheels.



Fertilizer coultters can be raised independently (combi version).



All adjustments on the same side for easy calibration.



Advanced K - PLUS control box with can bus connection.



Multifunctional Depth Control Wheels

The coulter sections move up and down on a parallelogram linkage. The two large diameter wheels in front of each section control the drilling depth, and can be set via an adjustable spindle. These wheels also compact the top layer slightly, increasing soil contact around the seeds to ensure a more even germination.

The wheels can be loaded up to 1000 kg/m across the working width. This is clearly very useful when drilling in ploughed or soft soil where even compaction and perfect seed placement are very important. In loose soil the front wheels also take some weight from the rear wheels resulting in lower pulling power.

Consolidation

The big wheels 7.5 x 16 at the back of the drill consolidate the worked soil and also function as transport wheels. They are independent from the coulter sections but hang in a similar hydraulic system. This gives even pressure across the working width regardless of the contours of the field.

The wheels are fitted with large tractor pattern tyres to consolidate the soil around the seed. The tractor tread pattern creates a rough surface better suited to coping with heavy rainfall without the risk of capping.

User- friendliness

Flexi Drill is easily connected to the tractor via a two- point hitch. Two single acting hydraulic valves and an electrical connection are also needed. An additional double acting hydraulic valve is needed if a front cultivator is mounted.

Front and rear loading platforms permit easy filling, whilst a newly-developed control box with can bus connections places all the drill functions at the operator's fingertips.

As the depth control wheels are fitted to the frame of the coulter sections, the drilling depth is always controlled automatically without being affected by weight changes in the hopper.

Metering drive is taken from one pair of front wheels with a tractor tread pattern, ensuring a positive drive. Flexi Drill is therefore ready to go to work at a moment's notice.



Big rear wheels 7.50 x 16.



Heavy duty inter wheel packer with 7.50 x 16 wheels (alternative).



Integrated grass seed hopper (optional).



Different types of front cultivation equipment (optional).

Technical Data



Standard equipment:	Alternative equipment:	Optional equipment:
<ul style="list-style-type: none"> • Drawbar adjusting cylinder • Tarpaulin cover for hoppers • Screen in fertilizer and seed hoppers • Agitator shaft in both hoppers • Adjustable middle wall (combi) • Vario-K gear box(es) • Coulters in 0,5 m sections • Disc coulters, 400 mm diameter • Rear wheels 7.50 x 16" • Automatic markers with independent control • Stone protection for rear wheels • Electric area meter • Non-slip loading platforms 	<ul style="list-style-type: none"> • Attachment to tractor: <ul style="list-style-type: none"> 2-point hitch mounting CAT II 2-point hitch mounting CAT III Heavy duty inter wheel packer • Front wheels: <ul style="list-style-type: none"> 175 / 70 R14 car pattern wheels 7.00 x 12 tractor pattern wheels • Rear harrow: <ul style="list-style-type: none"> Max-flow, 8 mm tines Straight tines, 12 mm 	<ul style="list-style-type: none"> • Tramline device • Remote control • Hopper level sensor • Rotation control • Grass seed box • Pre-emergence markers • Discs for row markers • Mudguards • Multi Flex levelling board • S-tine front harrow • Front disc harrow

Model	FD3000 C	FD4000 C	FD3000 S	FD4000 S	FD3000 M	FD4000 M
Working width, cm	300	400	300	400	300	400
Transport width, cm	300	400	300	400	300	400
Filling height (rear), cm	205	205	205	205	205	205
Weight, empty, kg	3810	4870	3530	4490	3610	4620
Number of seed coulters	24	32	24	32	24	32
Number of fertilizer coulters	12	16	-	-	-	-
Disc diameter, cm	40	40	40	40	40	40
Row distance, seed, cm	12.5	12.5	12.5	12.5	12.5	12.5
Rear transport wheels, size	7.50x16	7.50x16	7.50x16	7.50x16	7.50x16	7.50x16
Seed hopper capacity, ltr	1080-1830	1430-2430	3220	4410	1080-1830	1430-2430
Fertilizer hopper capacity, ltr	1270-2140	1690-2850	-	-	1270-2140	1690-2850



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