



Cameleon

INTENSIVE FARMING
EVEN WITHOUT PESTICIDES



A system that satisfies all your needs

System Cameleon is designed to provide more flexibility and opportunities for successful farming even without pesticides. The system is not only a seed drill. Due to the machine's inter row technique it can also work between the crop rows after it's emergence. This means that the system replaces multiple machines and provides completely new field applications like inter row fertilization. As a seeder it drills the crop in exact line spacing which subsequently enables precise inter row hoeing which is closer the crop rows than otherwise possible. The combined effect of the system is reduced machine costs, maximized precision and a higher return than traditional technology.

By thinking outside the box we can supply a modular overall concept which is unique to the market. Welcome to System Cameleon.



The most developed system for organic farming

Better nitrogen mineralization occurs through accurate placement of fertilizer as well as by the powerful cultivation action of inter row hoeing when compared to the performance of competitors. (Read more on page 4.)

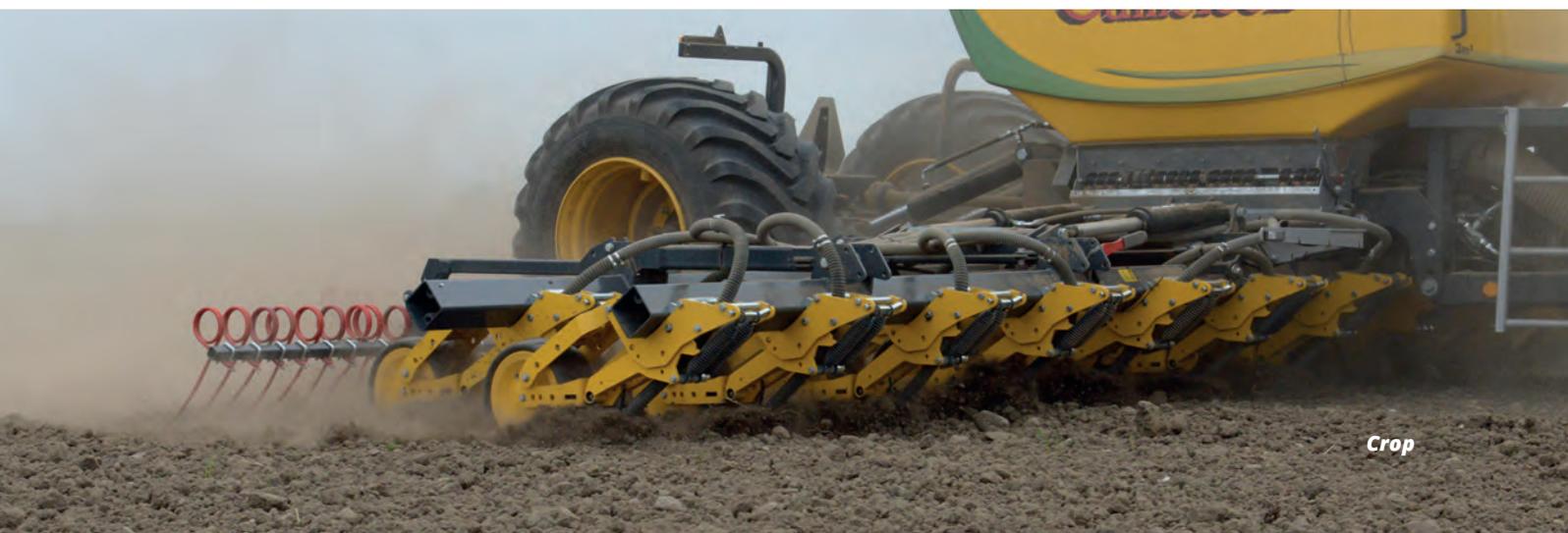
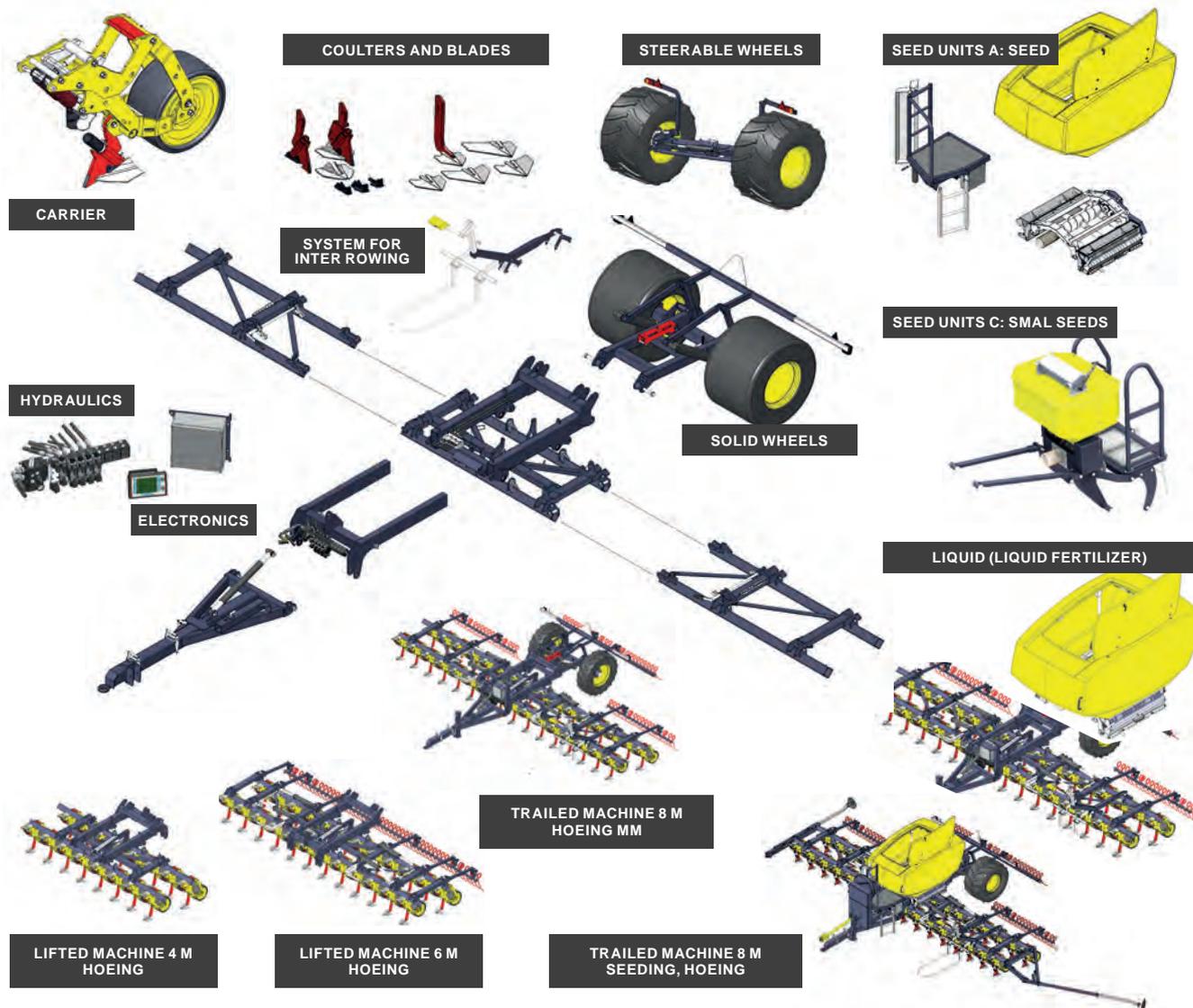
The System Cameleon combines accurate seed placement and low power requirement. For an 8 m System Cameleon, equipped for sowing, fertilization and inter row hoeing, a 160 hp tractor usually enough.

These are just some of the benefits that make System Cameleon to the most developed system for arable farming, without, or with reduced use of pesticides.

We know how often conditions change That's why our system is modular

The modular design allows the system upgradeable. You can thus spread your investment and in most cases, follow on with technology without trade your machine.

Different module combinations gives synergies and new field opportunities in one machine. For example: Inter row fertilization, inter row seeding, inter row crust harrowing and inter row weed harrowing.





Inter row fertilization

High fertilizer rate capacity and revolutionary placement increases profitability

System Cameleon is designed to optimize the fertilizer effect even for long term fertilizer as pelletized organic fertilizer or conventional synthetic NPK fertilizer.

The systems module for sowing and fertilizer combined with the inter row system creates a new type of field work, inter row fertilization. In the spring, in autumn drilled crops, there is now possibility to do fertilizer placement in moist soil between the crop rows. Because of that benefit winter crops will get an similar nitrogen effect like fertilized spring crops.

AUTOMATIC INTER ROWING

System Cameleon can be equipped with automatic inter rowing. It allows that tillage can be made with high precision in between the crop rows.

The inter rowing system is based on a camera that monitors the crop rows and transmits the information to a computer that steer the machine in between the lines.

To minimize downtime the machine sets quickly between sowing and hoeing by working the framework hydraulically to one side. The machine can for example in springtime fertilize autumn seeded crops, hoe weeds with great accuracy, harrow crust in between the rows and weed harrow in between rows. It can also be used for under sowing new crops in between existing lines.

This provides unprecedented opportunities for increased profitability in arable farming.

INCREASE CROP YIELDS WITH CORRECT FERTILIZE PLACEMENT

Correct placement of fertilizer in moist soil is very positive with the use of organic and others more poorly soluble fertilizer.

These fertilizers requires moisture and ground contact to obtain mineralization. A broad cast above ground or basis incorporation with the traditional technique requires a lot of rain. In dry weather conditions the impact of the expensive fertilizers missing altogether. When the fertilizer is placed deep in moist soil, the mineralization process is independent of the availability of rain.

The Cameleons powerful hoeing loosens the soil and put air inside which provide mineralization and gives optimal conditions for the crop. Tillage in between the rows provides nitrogen mineralization for the growing crops which will increase the yield while leaching is minimized.



Fertilization before sowing

Accurate seeding with low horsepower requirement

System Cameleon is built to provide accurate seed placement independent of earlier deep of harrowing. Although this is usually enough with a 160 horsepower tractor for an 8 m Cameleon equipped for seed, fertilizer or weed management.

These properties are important to get a uniform emergence and to reduce soil compaction when sowing. The low horse power requirement also means that an additional investment in a larger tractor rarely needed for investment in an 8 m Cameleon.

Central depth adjustment

The depth setting is done centrally for all coulters at once while the carriers that keep the coulters, ensures that each coulters still have individual ground following.

Revolutionary seeding technology

The Cameleons seed coulters system is designed to clean and loosen around the seed without pressing down plant residues. or compaction in any direction. This is important especially in peas who easily are affected by compaction.

Inter row under sowing

Flexible coulter for more field work.

Flexible coulter for more field works



Inter row under seeding

Powerful and combined solutions for management weeds inter row hoeing

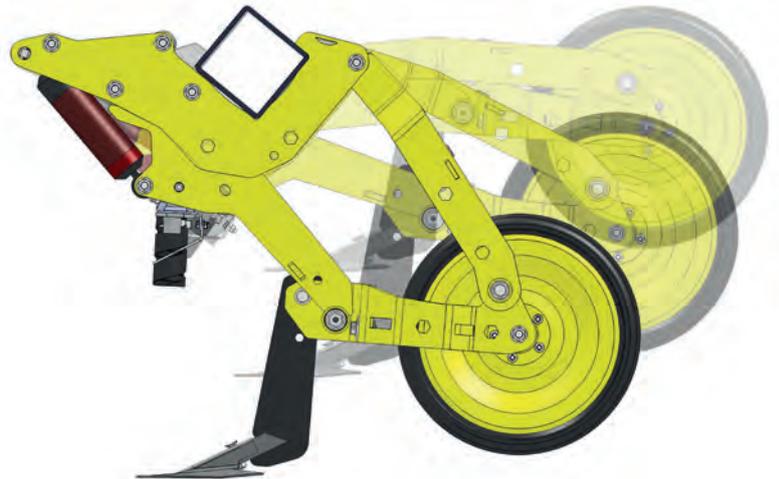


Inter row hoeing

INTER ROW HOEING

System Cameleon has a powerful design which gives a positive impact on inter row hoeing.

Cameleon is designed with several carriers where about blades and / or coulters are mounted. The carrier is unique and provides an extreme stability capable of maintaining the accuracy required for exactly hoeing while providing individual ground ride for each carrier. The carrier is designed so the blade not should move laterally as well provide high cut ability. In hard soil the carrier are pushed backwards instead of upwards. With this construction the hoeing blade never go on tip. Instead the hoeing occurs with the entire blade width. (See image below.)



HARROWING

At wide hoeing blades the systems Cameleon can be used as a cultivator and then gives full hoeing of the entire soil layer in one pass.

This type of tillage has particular advantages in the spring. An early harrowing lifts the entire layer of soil so that weed seeds get start impulses which at delayed sowing create maximum weed effect. At harrowing in the autumn, the system manages to cut through the beams better than a ordinary tine can handle.

WEEDING

System Cameleon equipped with camera control allows inter row weed harrowing.

This means that the weed harrowing can be carried out without damaging the crop after crop emergence. Of course, it also allows weed harrowing without camera control even in the earlier stages before crop emergence.



Weeding



Seeding

Combination runs and more field works

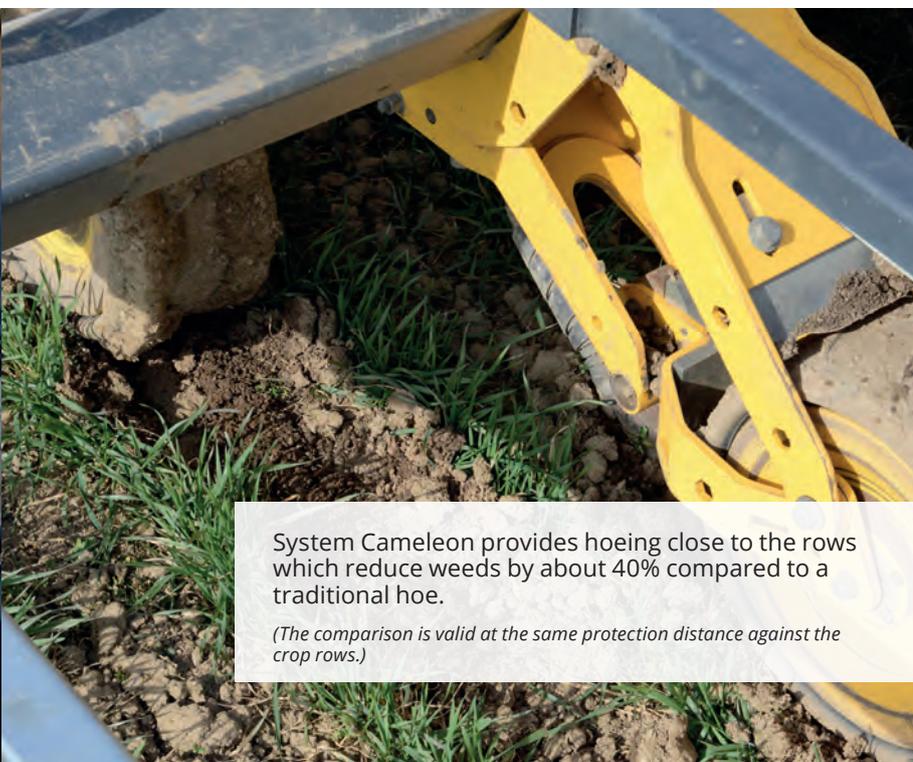
System Cameleon's unique construction creates complete new driving opportunities and many runs can be done simultaneously.

Thanks to the camera steering, the system Cameleon can hoe, weed harrow, harrow crust in between the lines and so do the work without damaging the crop.

By combining the camera control system and the seed units the system can drill in between the lines. For example, a grass seed ley establishment can easily be done in between the crop rows.

Some runs can be done simultaneously. For example, the fertilization can be done while the space between the rows is weed harrowed. Similarly crust harrowing can be done while fertilizer is placed in moist soil.

System Cameleon can also inter row drill or wide spread drill in band above or below ground, while hoeing. At weed harrowing the machine can drill in rows below ground or wide spread above ground.



System Cameleon provides hoeing close to the rows which reduce weeds by about 40% compared to a traditional hoe.

(The comparison is valid at the same protection distance against the crop rows.)



Steerable wheels make curves straight

System Cameleon can be ordered with fixed or steerable wheels. Steerable wheels offer many positive features. A sensor detects the angle between the Cameleon and the tractor and adjusts thereby the Cameleons rear wheels automatically. Steerable wheels effectively utilized both for seeding and hoeing. They can also be used to compensate side hills on slop fields.

HOEING ON THE HEADLAND

In curves the Cameleons wheels follow the rear wheels on the tractor which means that the driving method is the same as that runs in a straight line, i.e. the driver follows the track mark even in curves.

SEEDING WITH STEERING WHEEL

With steerable wheels the Cameleon is turning faster and smoother on the headland. It also reduces pair seeding in curves, which is important for later on hoeing in curves.

COMPENSATES FOR SIDE SLOPS

Steerable wheels can be used to compensate against side slop on uneven fields.



Flexible tools that meet your needs

Flexible coulters meet various needs at seeding, fertilizing placement, hoeing and much more.

SEEDING AND FERTILIZERS

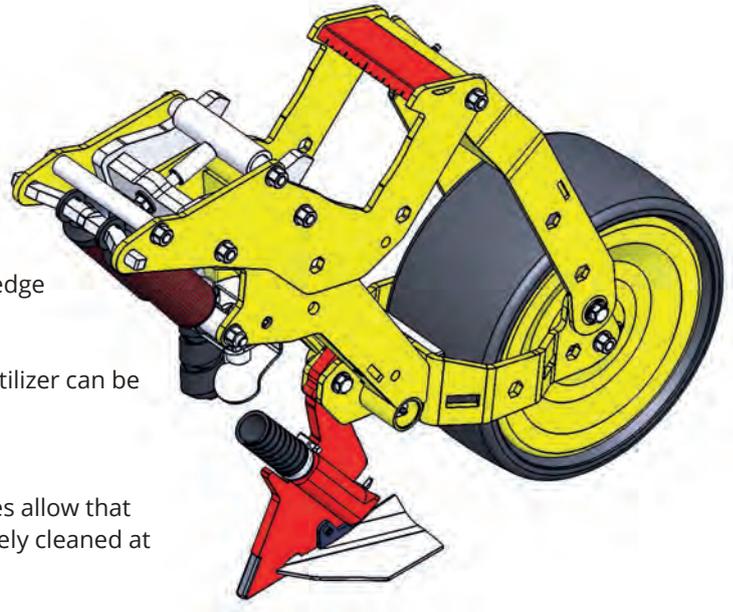
System Cameleon coulters are the result of agrarian knowledge and innovative engineering.

Thanks to the robust design of the carriers, seeding and fertilizer can be done at the right depth and with precise spacing.

Select between row or band seeding

Row-seeding can be done with blades or without. The blades allow that the surface that later on not can be hoed becomes completely cleaned at seeding.

The coulters design provides fast and easy conversion between different options.



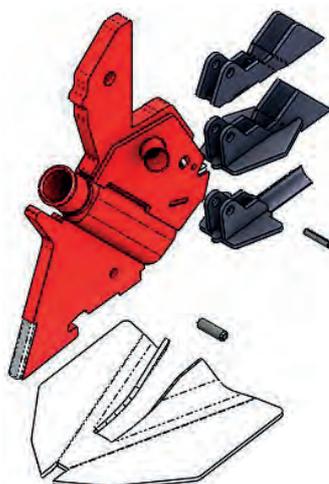
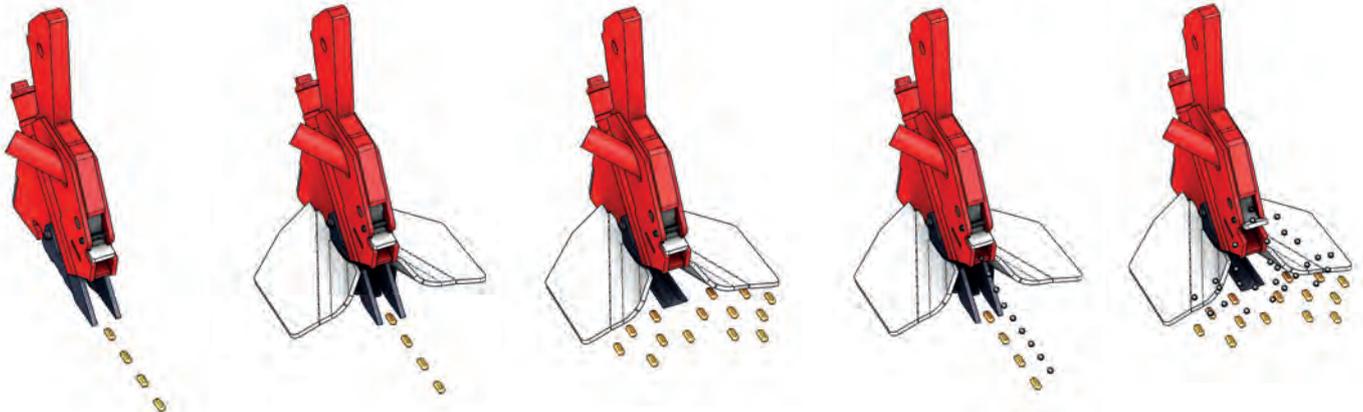
FLEXI COULTER CS. COULTER FOR OPTIMUM FLEXIBILITY (SEEDING AND HOEING)

ROW SEEDING WITHOUT BLADES

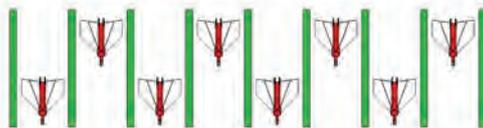
ROW SEEDING WITH BLADES

BAND SEEDING WITH BLADES

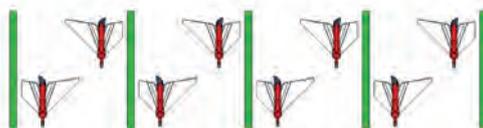
ROW SEEDING WITH BLADES (SMALL SEEDS)



HOEING 25 CC

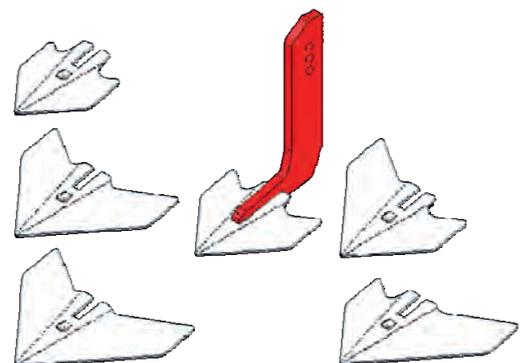


HOEING 50 CC



Q COULTER

ONLY FOR HOEING SYSTEM



Can also be combined with different types of blades and offset blades.

Offset blades allows switching between hoeing of 25 cm to 50 cm row spacing in minutes.

Fast changes of blades with quick release.

One system. Several fields

BEFORE GERMINATION

- harrowing
- fertilizing placement (solid or liquid)
- seeding (row or band)
- harrowing
- fertilizing placement (solid or liquid)
- seeding (row or band)



HARROWING



FERTILIZING BEFORE GERMINATION



SEEDING



INTER ROW CRUST HARROWING

More work. Increased profitability.

AFTER EMERGENCE

- fertilizer placement
- weed harrowing
- inter row hoeing
- under seeding
- seeding
- crust harrowing

QUICK CHANGEOVERS

- replacement blades
- change the line spacing
- central depth adjustment
- hydraulic adjustment, for example seeding / hoeing



INTER ROW FERTILIZING



INTER ROW WEED HARROWING



INTER ROW HOEING



INTER ROW UNDER SEEDING



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