



 **KRONE**

# Ultima<sup>®</sup>

The non-stop  
round baler wrapper combination



Ultima EN

[www.krone.de](http://www.krone.de)



# Ultima®

Non-stop, top-notch



- The world's first non-stop baler wrapper operates fully automatically
- bales, wraps and unloads the bale on the move
- produces up to 50 % more bales per hour
- achieves highest bale densities through its special pre-compression technology
- offers superior operator comfort and automatic processes
- employs Tractor Implement Management (TIM) technology for a smooth crop flow and firm bales, with the baler controlling the tractor's forward speed
- has its own on-board hydraulic system
- produces variable 1.25 m - 1.50 m (4'1" - 4'11") diameter bales
- offers versatile use in silage, hay and straw
- features a hydraulic artic drawbar for better ground clearance







## Ultimate efficiency

Churning out bale after bale in straw, hay and silage without ever stopping, the machine automatically transfers net-wrapped hay and straw bales to the wrapper and unloads them on the move.

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# Ultima®

## Powerful details

- Camless pick-up with helical tines
- Massive 750 mm (2'6") diameter rotor cutter
- Hydraulic knife selection system
- Feed chamber floor and knife bed lower hydraulically
- Knife bed pulls out to the side



### EasyFlow – more efficient and more effective

Working at a width of 2,150 mm (7'1") (DIN 11220) and benefitting from an extremely strong frame and high speeds while boasting massive augers that feed the crop to the middle, this camless pick-up lives up to the most exacting demands. The following gauge wheels run smoothly on the sward without scuffing.

### Picking up every stem

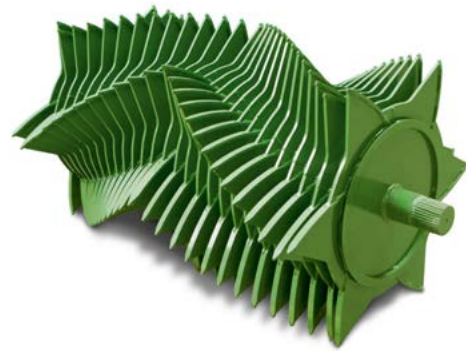
Double tines are arranged in a helix to ensure they pick up each and every stem. The crop press roller ensures a continuous flow into the machine, even in less than uniform windrows.





# Uncompromising

The camless and smoothly running EasyFlow pick-up features 5 rows of helically arranged tines that collect the crop fast and cleanly. The rotor cutter was given a massive circumference to boost the feed capacity in this area. Operators enjoy an unsurpassed convenience that comes from special features – the hydraulic knife selection system as well as the lowering feed floor and the pull-out knife bed.



## Massive 750 mm (2'6") rotor

The massive rotor cutter with its Hardox plated tines in chevron arrangement suggests top-notch cuts, a continuous crop flow and densely packed crop inside the pre-compression chamber.



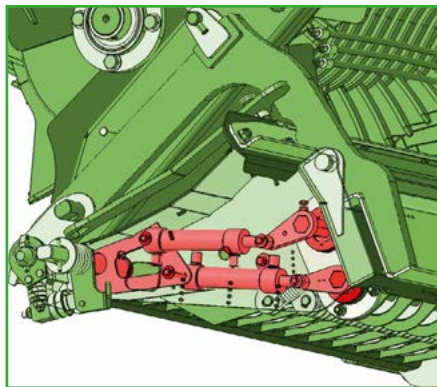
## The pull-out drawer

The knives are bedded in a drawer that drops hydraulically and then pulls out to the side for easy fitting/removal from the side of the machine.



## Maximum protection

All knives feature individual spring protection to ensure smooth operation even when picking up a foreign object. After the object passed the cutter, the affected knives automatically resume their work positions.



## Hydraulic knife selection system

The hydraulic knife operation system engages and disengages the knives in sets of 0, 13, 13, and 26. The operator can choose between two spacings – 42 mm (1.7") and 86 mm (3.4") – and set these from the seat.



## Trouble-free functionality

Should a blockage occur, the floor of the feed area and the knife bed lower hydraulically to increase the cross section of the passageway and allow the crop to pass smoothly.

# A KRONE exclusive!

## Non-stop baling

- Bale, wrap and unload on the move
- Highest densities from a pre-compression chamber and semi-variable bale chamber
- Transfer the bale swiftly to the wrapping table
- Automated processes
- Powerful film wrapper configured to Ultima®



### Sneak view into the pre-compression chamber

The pre-compression chamber is made up from a pair of conveyor belts that are arranged at top and at the bottom. These collect and compress the material during the net wrapping / bale transferring cycles. The operator can control the level of compaction and advance depending on the crop.



### Handling the bale

The bottom conveyor belt and the front starter roller lower to increase the opening to the bale chamber and speed up the filling process. The large opening makes for a smooth and unobstructed flow into the machine.





# Unique – and a KRONE exclusive

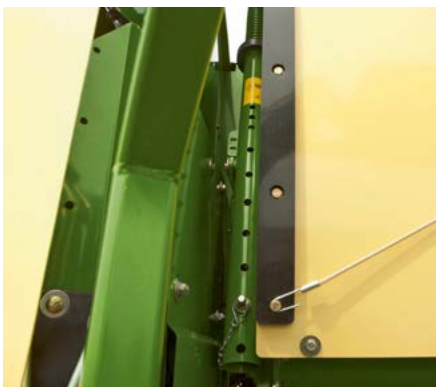
Ultima® is the world's first baler wrapper that continues collecting crop while the finished bale is being net wrapped and transferred to the film wrapper.

This non-stop operation is attributed the unique pre-compression chamber technology. On the wrapper, the net-wrapped bales are film wrapped and unloaded on the move. Ultima® puts out up to 50% more bales per hour than established round baler wrappers. The semi-variable bale chamber produces 1.25 m -1.50 m (4'1"-4'11") diameter bales.



## Transferring the bale

When the bale chamber opens the bale instantly drops on the wrapping table by its own weight.



## The semi-variable bale chamber

On either machine side, a pin on a telescoping rod restricts the tensioning swing and alters the bale diameter in 5cm increments from 1.25 m to 1.50 m (4'1"-4'11").



## The heavy-duty driveline

The massive 1 ½ inch drive chains withstand even the highest loads. Spring-loaded chain tensioners reduce maintenance and extend the service life of the chains.

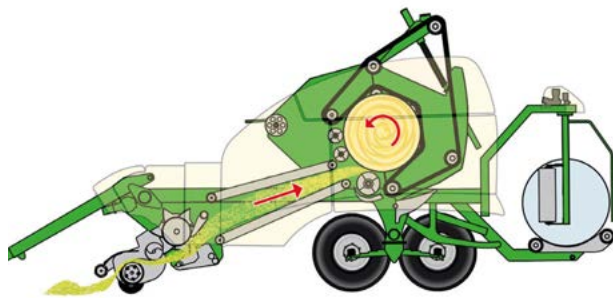


## NovoGrip:

The grippy KRONE NovoGrip elevator with endless rubber fabric belts and metal slats ensures positive bale roll in all conditions and for unsurpassed densities.

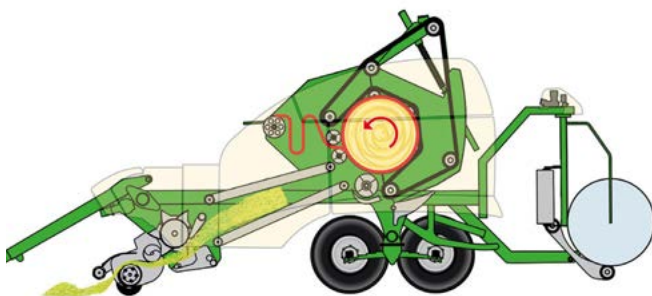


## How Ultima<sup>®</sup> works:



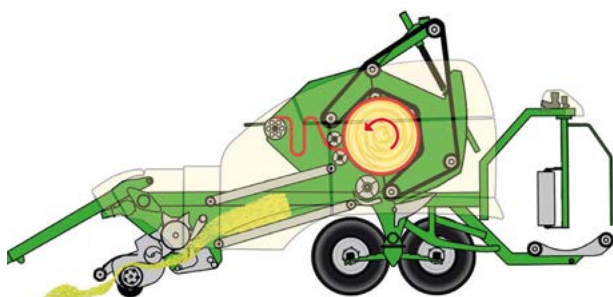
### The baling cycle

The material flows from the pick-up to the tapering conveyor belts which form the pre-compression chamber and feed it to the empty semi-variable bale chamber. Here, the NovoGrip system forms the material to high-density round bales. Then, the bale is transferred to the wrapper for film wrap, if this is desired.



### The pre-compression cycle

The pre-compression cycle starts when the bale inside the chamber nears completion. Two conveyor belts in a conical arrangement reverse briefly, feeding the crop a short way back to the rotor cutter – a procedure that ensures a smooth start of the net wrapping cycle. As the rotor cutter continues feeding more crop to the belts, the material is being compressed. At the same time, film wrapping is completed and the finished bale is placed on the ground.



### Net wrapping

While the net is being applied, the rotor continues feeding material to the bale chamber, compressing it as it does so. In high-volume crop, the bottom belt lowers to increase the capacity of this pre-compression area.





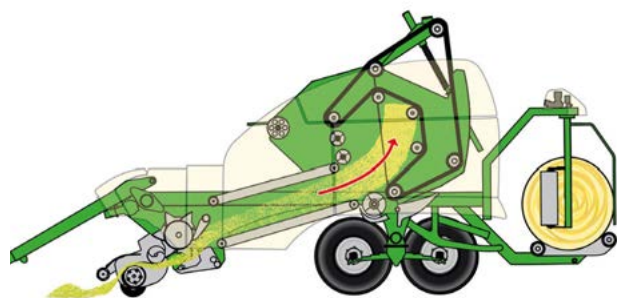
### Transferring the bale to the wrapper

Once the net wrapping cycle is completed, the finished bale is transferred to the wrapping table, where the wrapping cycle starts. During the transfer phase, incoming crop is being reversed by the belts and compressed as the rotor cutter continues feeding more crop to the bale chamber. This way, the belts actively support the baling cycle.



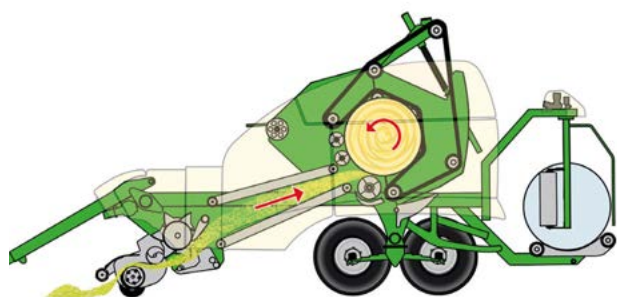
### Releasing material into the bale chamber

When the rear door closes, the belts start feeding the material to the bale chamber. The starter roller, which is arranged between the baling chamber and the conveyor belts, lowers to clear the way into the baling chamber and allowing the material to flow into the chamber. The NovoGrip belt-and-slat elevator starts rolling the material.



### Forming a new bale

As soon as the pre-compressed material flows into the bale chamber, the bottom belt and the starter roller are raised and the pick-up continues collecting material and feeding it to the belts, which continue conveying it to the bale chamber, where the next bale is growing in size whilst the previous bale is being finished on the wrapping table.







# First the net, then the film

## Applying two wraps

- Auto-feed net wrapping
- Convenient net roll lifter for easy refills
- Effective twin-arm film wrapper
- Plenty of storage space for 3 net rolls and 18 film rolls



### Net wrapping

The net wrapping cycle is very fast and short, a fact that makes it easy to control the crop flow between the pre-compression chamber and the bale chamber. The net is actively fed into the bale chamber via a swing and a feed roller assembly.

### Straightforward and clever

A lifter helps place a fresh net roll into the cradle. The storage compartment accommodates 3 net rolls, each providing 3,600 m (2.2 miles) length of net.





# Perfect bales wrapped perfectly

The net wrap and film wrap systems stand out for their effective design and functionality. Both systems are tailored to the special functionality and capacity of Ultima®.

The twin-arm wrapper operates fast and effectively and clears the table in time for the next bale.



## Perfect guidance

The Ultima® wrapping table is designed like a concave tray and features massive bobbins that hold the bale in position and exert a firm grip on its faces – important when baling on slopes.



## Plenty of film storage

The large storage compartments jointly hold as many as 18 film rolls (750 mm (2'6")) and offer protection from dust and rain. The roll holders swing down for easy refills.



## Perfect

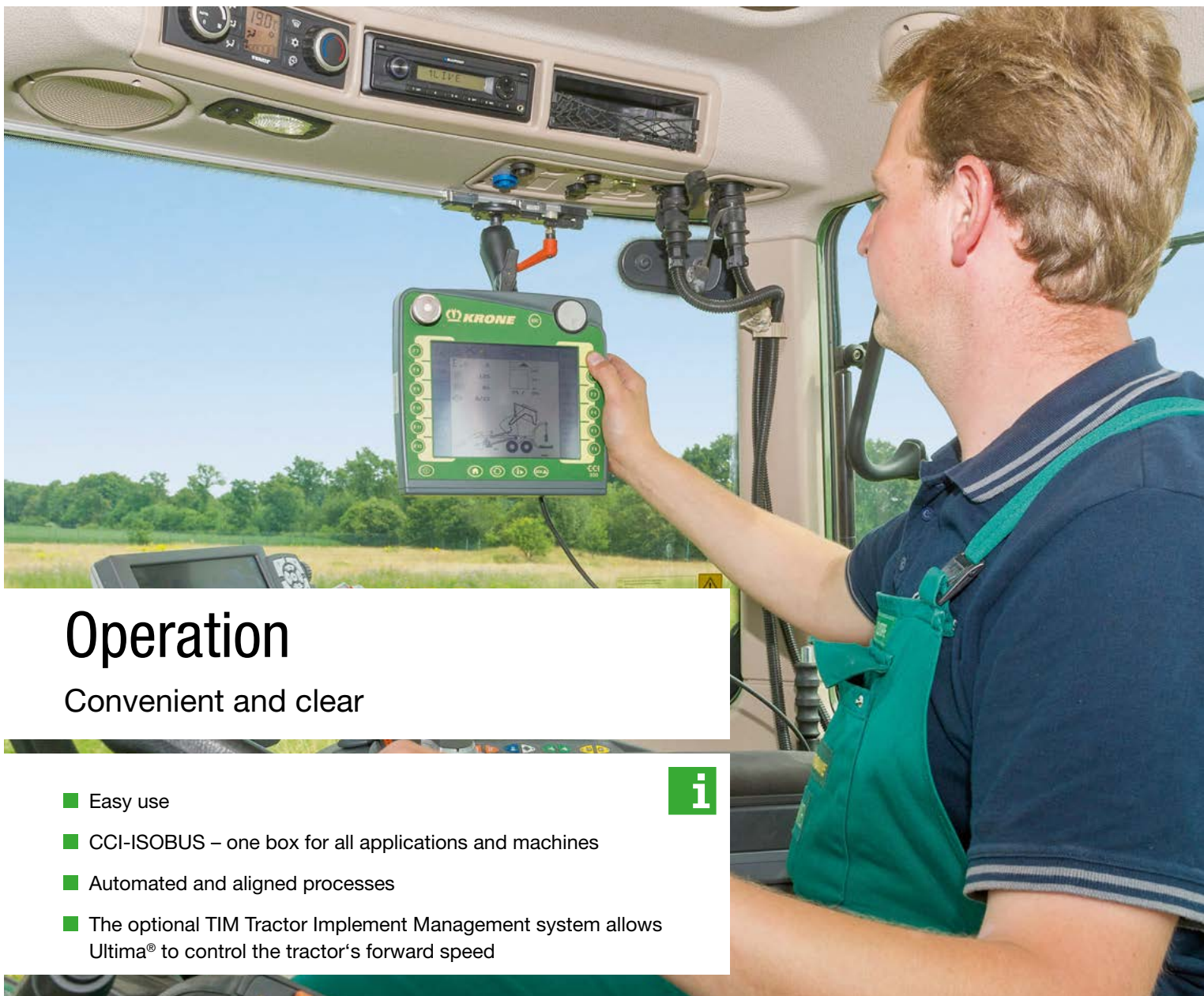
The hydraulic elevator and wrapper drives are fully sequenced and aligned to each other to ensure perfect film overlaps. The dead man's handle stops the wrapping process the moment the operator touches it.



## Two work faster than one

The twin arm dispenses 750 mm (2'6") film and applies it in no time at all. The sensor controlled system goes automatically into single-arm mode should film on the other arm break or end.





# Operation

Convenient and clear

- Easy use
- CCI-ISOBUS – one box for all applications and machines
- Automated and aligned processes
- The optional TIM Tractor Implement Management system allows Ultima® to control the tractor's forward speed



## Vin tune

The TIM Tractor Implement Management system controls the tractor's ground speed relative to the load on the baler to avoid overfills. There is plenty of time for

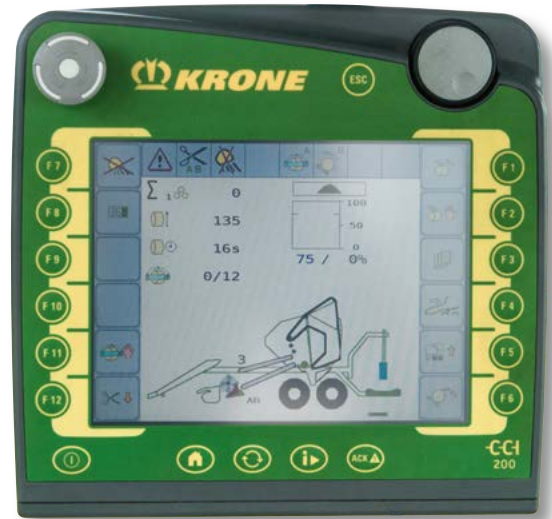
the bale to perform as many rotations in the chamber as necessary to achieve the required density.





# Working at ease

Operator comfort is a key issue during those long working days and nights. The CCI operator terminal provides a clear user interface and updates the operator on all current machine operations and allows him to interfere instantly as required. The TIM Tractor Implement Management system takes strain off the operator and automatically controls the tractor's ground speed.



## One terminal for all makes and machines

The CCI terminal serves as a master control unit for ISOBUS controlled machines of many different brands. The display unit features intuitive menu navigation and advanced controls and gives audible and visual alarms to update the operator on all operations.

## Everything under control

A camera and a display screen are standard features on Ultima®. This level of specification ensures the operator is in full control of what is going on at the rear. A second camera is an option, which connects to the CCI operator terminal.



## Separate hydraulic system

The on-board hydraulic system including an oil cooler takes care of a steady supply of oil to the individual hydraulic components and assemblies. An inspection window in the oil reservoir shows the current filling level. The oil filters are software controlled.



## Solenoid spools

The solenoid spool chest controls the net wrapping system, the rear door, starter roller lift/lower and the bottom conveyor belt. All spools are neatly grouped and also offer manual control.



## The on-board electronic box

The job processor forms part of the 'Comfort' level of electronic equipment and is standard specification on Ultima®. The 'Comfort' system allows operators to control the machine either from an ISOBUS compatible head unit or from KRONE's CCI terminal.





# Ultima®

A thought-through system

- Easiest access
- Auto-lube systems apply oil and grease
- Hydraulic artic drawbar for better ground clearance
- Caster-steer and spring-loaded tandem axle for up to 60 km/h (37 mph) road travel
- LED lighting for ultimate safety



### Automatic chain lubrication

The chain lubricator has a large reservoir and uses an eccentric pump to apply the oil and grease. Set the required oil rate for each chain separately.

### Central lubrication system

An automatic and central lubrication system is standard specification and attends to all grease points automatically and continually – making service and maintenance easier and boosting longevity and durability.

### LED lights

Safe road travel comes from the LED rear and position lamps – powerful LED work lights illuminate the net wrapping system, the film wrapping system and the storage boxes for convenient work at night.







### Tandem axle

The caster-steer Boogie axles with parabolic springs benefit from generous up/down travel, carry the same load and are approved for 60 km/h (37 mph). Big flotation 620/40 R 22.5 tyres are base specification.



### Plenty of ground clearance

The standard hydraulic articulated drawbar offers plenty of ground clearance. The bottom-mount drawbar and the K 80 ball hitch offer superior driver comfort and reduce wear.



### Hydraulic stand

The standard hydraulic stand is height-adjustable and saves time and makes attachment/removal easy. Investing in KRONE Ultima® means investing in superior comfort and safety.

## Technical Data

Ultima® CF 155 XC		
Bale size (Ø x width)	approx. mm	1,250 - 1,500 x 1,200 (4'1" - 4'11" x 3'11")
Length	approx. mm	9,000 (29'6")
Width	approx. mm	3,000 (9'10")
Height	approx. mm	3,900 (12'10")
Weight	Approx. kg	11,400 (25,132 lbs)
Camless pick-up Work width (DIN 11220)	approx. mm	2,150 (7'1")
Number of tine rows		5
Rotor cutter with 26 knives		Standard
Minimum knife spacing	approx. mm	42 (1.7")
Hydraulic knife selection system controls knives in sets of 0 – 13 – 13 – 26		Standard
Tyres on caster tandem axle		620 / 40 R 22,5
Power requirement	Approx. kW/hp	105/143
Power input		12 Volt
PTO speed	r/pm	540
No. of required spools		2 x sa / 1 x da

Specifications, weights and dimensions herein do not necessarily comply with standard specifications and are therefore not binding.



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24/7... This service gives you the opportunity to find your KRONE part at any time and without waiting. The KRONE Agroparts Portal has an article number and exact description for every part. You can order the part instantly at your local KRONE dealer by sending an e-mail to Agroparts.



## KRONE shop

Are you looking for a gift or are you a collector of farm models? Then you should definitely shop around at our KRONE shop. We take your orders at any time of the day.

Your KRONE dealer

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