# BiG Pack

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## 5TH GENERATION LARGE SQUARE BALERS

# BiG Pack

## A new generation of balers

**KRONE PowerClean**

A brand new hydraulic knotter fan cleans the knotter permanently. The best part of this is that the air flow is also directed to the areas behind the twine boxes cleaning further areas of the machine.

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**The additive dispenser**

The 5th generation Big Pack models are available with an integral dispenser for applying addivites that improve fermenation or conservation of the crop.

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**The cutting system**

Maximum variability thanks to VariCut – different blade cassettes with 26 or 51 blades available for all models

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**VFS packers**

Tried and tested just got better! Read more on the updated VFS variable filling system

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**Bale chamber**

All models gain the much longer baling chamber from the 1290 HDP for firmer, tighter and heavier bales.

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**KRONE V-knotter**

New KRONE V-knotter with the usual reliability of the Deering double knotter system, with no more twine snippets.

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**Twine boxes**

A new and most functional approach – learn more about the new twine boxes

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# KRONE BiG Pack –
# A new generation of balers.

Even after more than 25 years of big baler production in Spelle, there is no sign of any let-up in the sheer innovative strength of the KRONE engineering team, as is evident from the new series of BiG Pack balers.

Over several years of intensive development, they have come up with a completely new generation of BiG Pack balers which incorporate many well-known technologies and, above all, offer a significant increase in comfort. Almost all of the existing features have been upgraded and adapted to user requirements. How exactly, you will learn on the following pages.

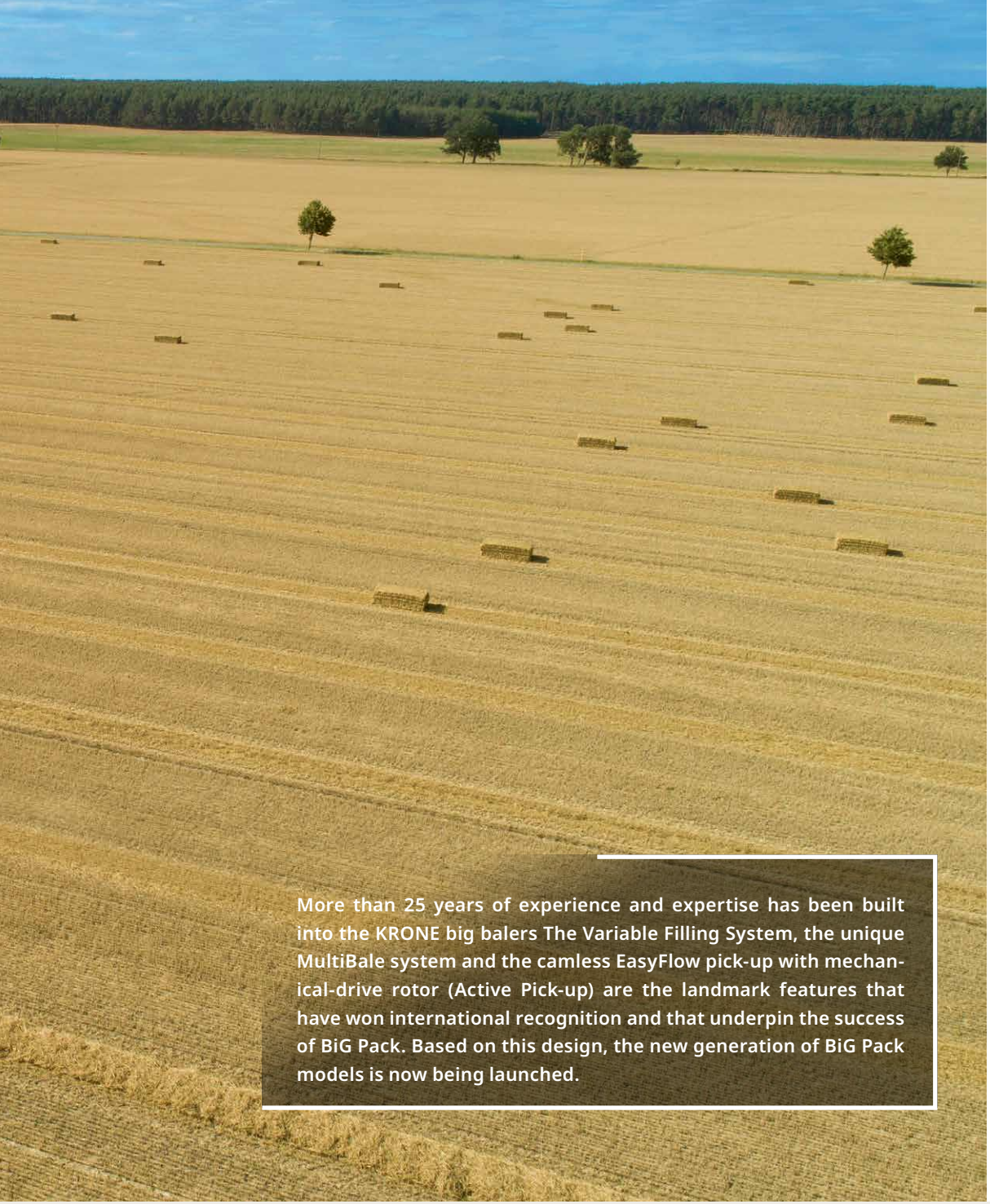
# BiG Pack

## The fifth generation

**BiG Pack 1270 (VC, MultiBale)**
The BiG Pack 1270 offers a 120 x 70 cm chamber – a very popular size especially among farmers. Its patented MultiBale system forms one big bale from up to nine individual packs. The big packs are easier to collect in the field and the smaller packs are easy to handle and distribute in the barn. Also, the new BiG Pack 1270 produces much higher-density bales than its predecessor, a boon for maximising transport and storage efficiencies.

**BiG Pack 1290 (VC)**
The KRONE BiG Pack 1290 (VC) has the 120 x 90 cm chamber which is the most popular chamber size on the international market – not only because it makes very economic use of the twine but also because these bales stack very well. The new version has a much longer chamber and this has a positive effect on the shape of the bales. In addition, the model is now also available with the 51-blade VariCut cutting system.

**BiG Pack 1290 HDP (VC)**
Churning out more than 100 straw bales per hour at bale weights of up to 500 kg, this is the benchmark machine in terms of performance and density. Looking for efficient long-distance haulage of straw and hay bales? Then HDP technology from KRONE is for you.



More than 25 years of experience and expertise has been built into the KRONE big balers The Variable Filling System, the unique MultiBale system and the camless EasyFlow pick-up with mechanical-drive rotor (Active Pick-up) are the landmark features that have won international recognition and that underpin the success of BiG Pack. Based on this design, the new generation of BiG Pack models is now being launched.

| The new generation BiG Pack models (by chamber size) | | |
|---|---|---|
| **BiG Pack 1270**<br>**BiG Pack 1270 VC** | 120 x 70 cm |  |
| **BiG Pack 1270 MultiBale**<br>**BiG Pack 1270 MultiBale VC** | 120 x 70<br>Up to 9 small bales go into one big bale |  |
| **BiG Pack 1290**<br>**BiG Pack 1290 VC** | 120 x 90 cm |  |
| **BiG Pack 1290 HDP**<br>**BiG Pack 1290 HDP VC** | 120 x 90 cm |  |

# BiG Pack

## The success story

**The first BiG Pack**
The BiG Pack is born – KRONE builds its first big baler ...

1993

**Packing several small bales into one big pack**
KRONE presents the MultiBale system – the first baler on the market to tie big bales as well as up to nine small bales in one big pack.


2003


1999

**VFS is launched**
KRONE launches the VFS Variable Filling System. The double knotter is now available for many BiG Pack models.

**More options**
PreChop – The integrated pre-chopping system refines the straw harvest and opens up new opportunities for square bales.


2006


2005

**A new benchmark**
The BiG Pack 1290 HDP is launched and has had a significant impact on worldwide straw haulage ever since.

**Record throughputs**

The BiG Pack HDP II rips up the record book. KRONE launches a completely new big baler that scales new heights in terms of throughput and density.

**Accumulating bales**

The KRONE BaleCollect is an effective tool in optimising straw harvesting. This bale collector can collect up to three bales in the field Thanks to its telescoping drawbar BaleCollect tracks behind the baler like trailer on public roads

**V-knotter**

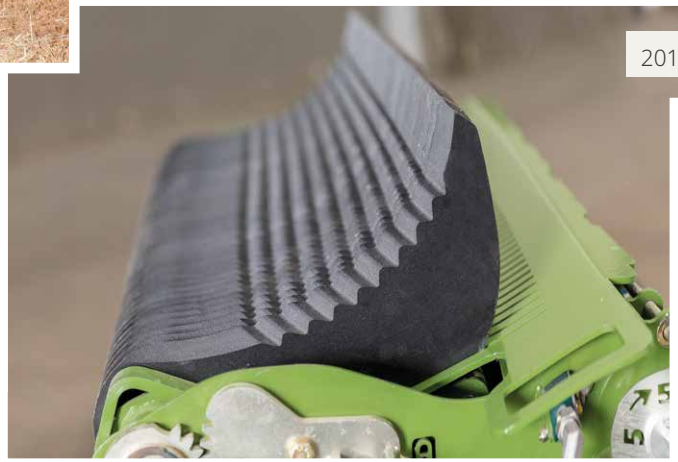
Maximum operational safety thanks to double knotter technology without any annoying twine snippets. The KRONE V-knotter is convincing.





**Higher densities and higher throughputs**

Generation High-Speed overtakes the big baler market – with up to 20% more throughput than their predecessors while maintaining the same density.




**New, variable cutting system**

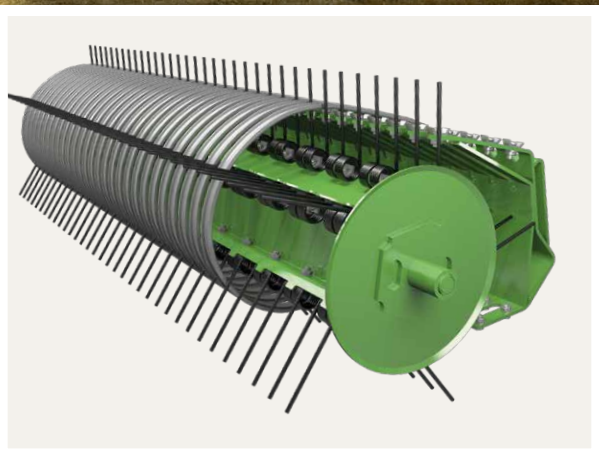
KRONE's short straw cutting range gets a boost with the 51-blade VariCut (VC) cutting system.


**High Performance**

Delivering boosted productivity through higher operator comfort, the new BiG Pack generation is set to supplement the HighSpeed generation

# The KRONE Active pick-up

## Excellent uptake *with minimum wear*

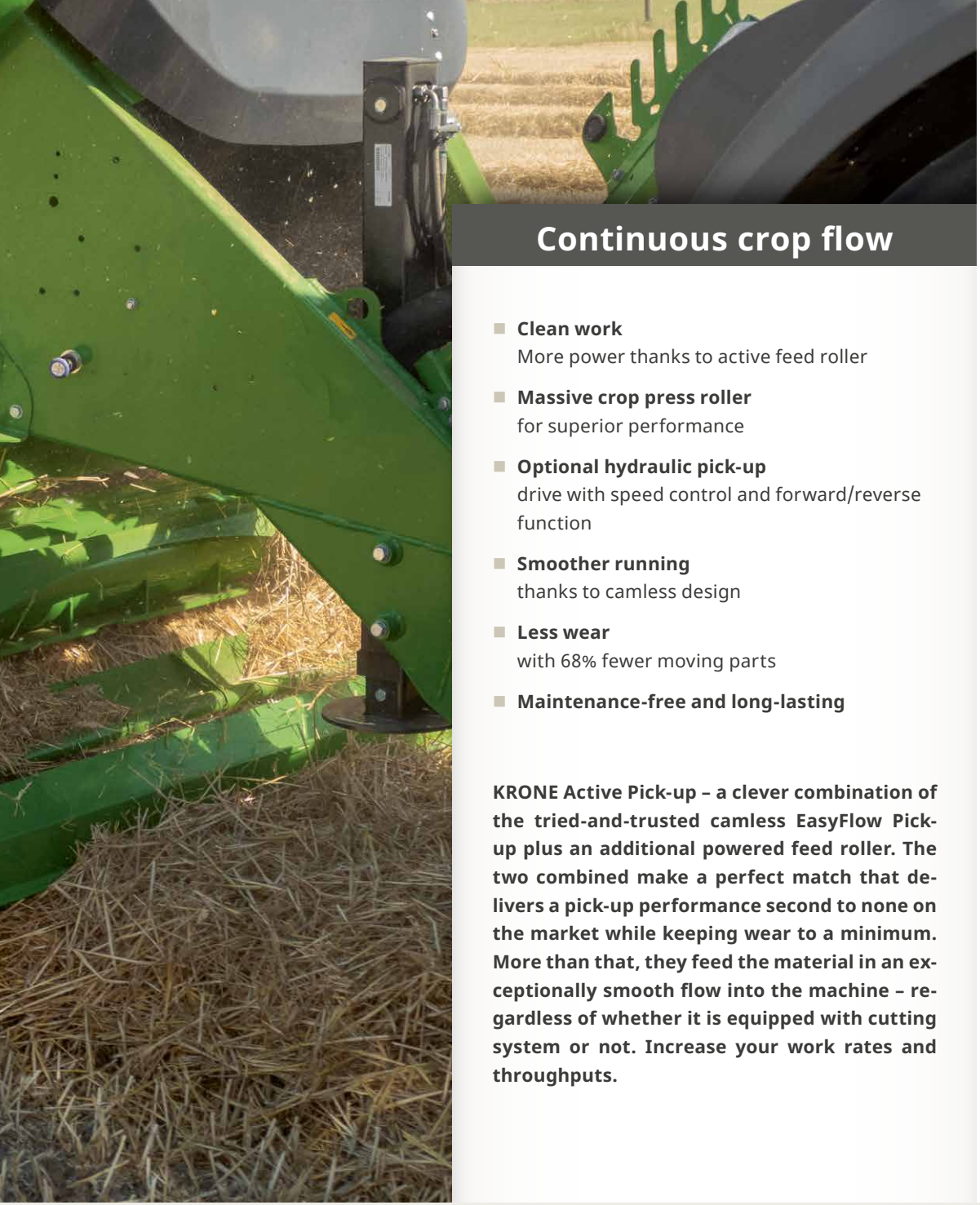


**Less is more**
The camless EasyFlow pick-up has a straightforward design and fewer moving parts which ensures quiet running and reduced wear, which in turn translates into reduced service and maintenance costs.

**Nothing is left behind**
Working at a width of 2.35 m (DIN 11220) and kitted out with five rows of tines spaced 55 mm apart, the camless EasyFlow Pick-up does a clean job every time. The combination of the powered feed roller and the side-mounted augers tick all the boxes in dry, brittle material, delivering massively increased throughputs.



**More information at**



## Continuous crop flow

- **Clean work**
  More power thanks to active feed roller
- **Massive crop press roller**
  for superior performance
- **Optional hydraulic pick-up**
  drive with speed control and forward/reverse function
- **Smoother running**
  thanks to camless design
- **Less wear**
  with 68% fewer moving parts
- **Maintenance-free and long-lasting**

**KRONE Active Pick-up – a clever combination of the tried-and-trusted camless EasyFlow Pick-up plus an additional powered feed roller. The two combined make a perfect match that delivers a pick-up performance second to none on the market while keeping wear to a minimum. More than that, they feed the material in an exceptionally smooth flow into the machine – regardless of whether it is equipped with cutting system or not. Increase your work rates and throughputs.**

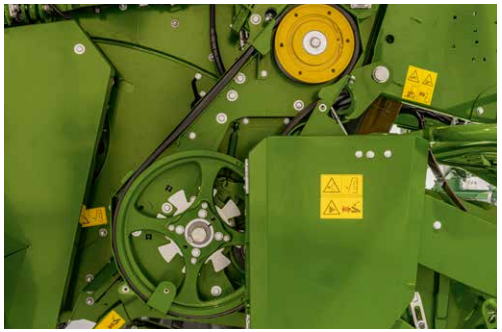
**Depth control fitted as standard**
The standard depth limiter adjusts the pick-up to work in long stubble, reducing the strain on the gauge wheels which only lift the pick-up on very uneven terrain.

**A continuous and smooth flow**
The massive crop press roller ensures a continuous flow of crop into the machine. Its height is conveniently controlled tool-free via chains and suspension comes from springs.

**Ground friendly wheels**
The pneumatic caster wheels follow every curve and are height-adjustable without tools. The sward is even protected on curves, thanks to their excellent castering behaviour.

# The KRONE VariCut (VC)

## 26 or 51 blades for free cutting



**Convenient overload protection**
A side-mounted poly V-belt drives the pick-up and the rotor. Its slip is constantly monitored so the belt. When there is an overload, the powerflow to the pick-up and the cutting system is automatically cut off. To resume operation, the blades are retracted/extended either automatically or manually.

**Clamped and secure**
The blades are engaged hydraulically, after which the blade cassette is clamped in the frame. This takes the strain off the cassette's rolls and any vibrations that occur during cutting are safely absorbed, ensuring smooth running when the cassette is inserted and removed.

**Variable blade control system**
The VariCut 51 system allows operators to select the blades in sets of 51, 26, 25, 12, 5 and the VariCut 26 offers sets of 26, 14, 12, 6, 6 blades. The preselected group is engaged hydraulically from the cab. All cams are attached to the shaft and can be combined to form individual groups.

## Baling short straw

- **Up to 51 blades**
  produce short and highest-quality straw
- **Variable blade group control**
  for various chop lengths
- Belt drive and four-star rotor for maximum efficiency
- **Optional reversing system**
  reduces blockage hold-ups
- **Choice of two systems with 26 or 51 blades**
  to suit individual needs

**VariCut26 and VariCut51 offer machine buyers a very flexible and easy-to-use solution, a cutting system for big balers that ticks all boxes. VariCut26 with 26 blades is the best option for those who cut at a minimum length of 44 mm whereas VariCut51 with 51 blades is for those who seek cuts of half this length.**


**Easy to clean**
A service aperture above the blades can be opened in a single action for removing deposits. The area around the blades and the individual blade protection system on the VariCut 51 is kept clean with an integrated compressed air blower.

**Reversing the cutter**
The optional reversing system removes blockages in an instant by reversing the cutting system. The feature is enabled from the cab for convenient removal of an object that causes the blockage.

**Convenient to fit and maintain**
For easy removal and maintenance, the single-piece blade cassette pulls out conveniently to the side on an optional transport frame that fits on a pallet truck. It can be removed from the machine when baling hay or other crops that are not chopped.

# The KRONE PreChop

## Chopped short and defibered

**Great features for even better productivity**
Chopped and nearly dust-free straw makes perfect bedding in poultry houses and cow cubicles as well as in pig and beef cattle housing. More than that, it is used as animal feed that adds fibre to low-fibre rations but also as mulch in strawberry plantations and nutrient medium in mushroom production. The treated straw has better absorption qualities, spreads more easily in the livestock house, and prevents the slurry drains from blocking up while supporting manure mineralization.

**190 blades for a top quality chop**
The large cutting rotor is 525 mm in diameter and features 96 pivoting blades in a helical arrangement. Rotating at 3,000 rpm, it feeds the material through two rows of counterblades with 47 rigid blades each and from here on to the BiG Pack pick-up. A turbulence generator strip between the counterblades ensures a top quality chop. The intensity of the two counterblades can be adjusted in one of five positions without tools. All blades are reversible for a long service life.

## Low-dust straw

- **Short chop lengths –**
  minimum 21 mm nominal lengths
- **Adjustable LOC,**
  two selectable counterblades
- **Defibration effect**
  for added liquid absorption
- **Mechanical gearbox**
  and hydraulic height control

**PreChop is an integral front-mounted chopping unit on the KRONE big balers of the new BiG Pack 1270 (VC), 1290 (VC) and 1290 HDP (VC) series. It has 96 rotating blades and two rows of 47 counterblades that cut the material to a nominal length of 21 mm. More than than, PreChop also defibrates the stalks visibly.**

**1. Easy to remove**

If the PreChop isn't needed for an extended period, it can easily be removed. Simply remove the pins and the drive shaft and then pull the unit out to the side on its transport rolls.

**2. Neat knots**

In extremely dusty conditions, a powerful knotter cleaning system is key. The KRONE PowerClean knotter is a completely new development that cleans not only the knotters but also other areas of the baler.

**3. Versatile Active Pick-up**

When used with PreChop, the feed roller on the Active Pick-up can be stopped and switched off if necessary. The crop press roller can also be moved away. The PreChop has a high lift-out height, enabling the baler to be used without removing the PreChop.

# KRONE VFS – The variable filling system

The unique pre-chamber *for best bale shapes*

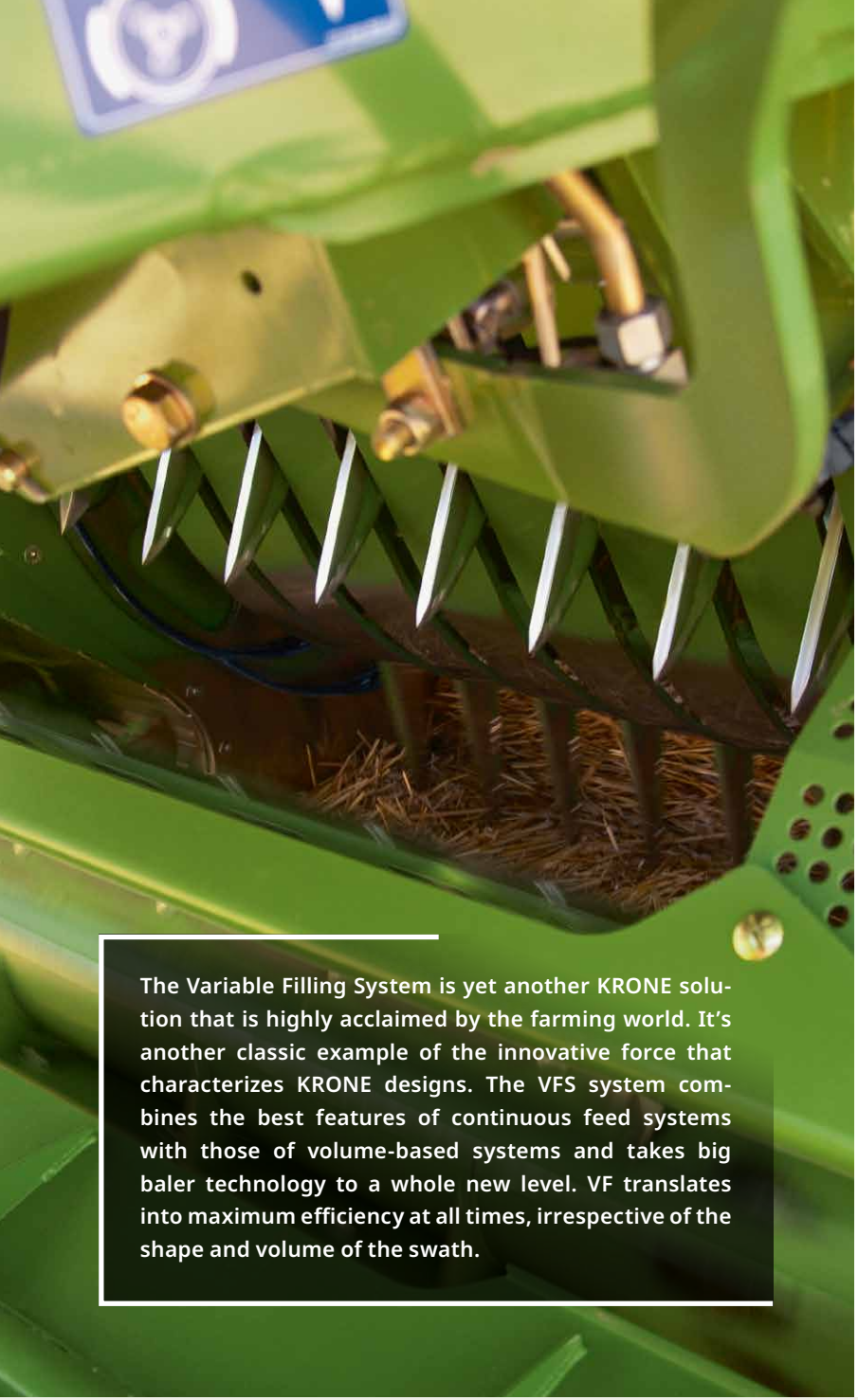
## Pre-baled straw

- **Thorough mixing**
  and uniform pre-compression are the first step to optimum chamber fills
- **Trigger threshold**
  adjustable via the operating terminal
- **The feed chamber load indicator**
  helps uninitiated drivers to achieve maximum throughputs
- **Overload protection clutch**
  for superior operator comfort
- **Best performance**
  in all crops and swath volumes

**Tried and tested gets even better! In line with this adage, the VFS variable filling system has received a performance boosting update. Optimum mixing and effective pre-compression in short and different crops were not enough for the KRONE engineers. They have now implemented a feature that allows operators to control the level of pre-compression from the terminal and which keeps them informed on the current load.**


Maximum operator comfort and optimum machine utilisation are the parameters that translate into high daily outputs. Thanks to the filling level in the pre-chamber, which can be adjusted from the tractor seat, and the torque-based load indicator of the VFS, you always drive the BiG Pack at its limit. Although the throughputs are high, the material is constantly rotated and gently mixed and not exposed to high acceleration forces as on other systems.

**More information at**



**The Variable Filling System is yet another KRONE solution that is highly acclaimed by the farming world. It's another classic example of the innovative force that characterizes KRONE designs. The VFS system combines the best features of continuous feed systems with those of volume-based systems and takes big baler technology to a whole new level. VF translates into maximum efficiency at all times, irrespective of the shape and volume of the swath.**

**Fig. 1**
The VF system uses four packer rakes, one feeder rake and one sensor swing. The packers move in a shared cam track, the feeder rake in a separate cam track which swings into and out of path.

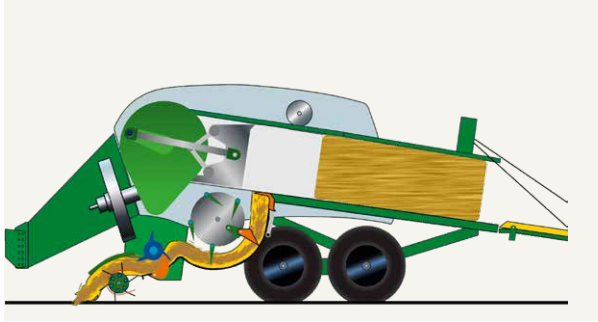


**Fig. 2**
As long as the feeder cam track does not swing off path, the packers and the feeder continue feeding material into the feed chamber, pre-compressing it as they go. The sensor swing with its retaining tine traps the material inside the feed chamber, preventing it from entering the baling chamber.

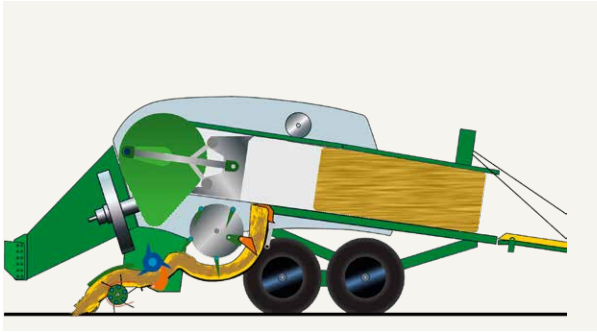


**Fig. 3**
When the pre-chamber is filled to capacity, the sheer volume of the material pushes the swing and retainer into the baling chamber. This clears the way into the bale channel and the collected material is conveyed. If not enough material is collected and the trigger threshold which can be set on the terminal is not reached, another collection stroke is initiated.

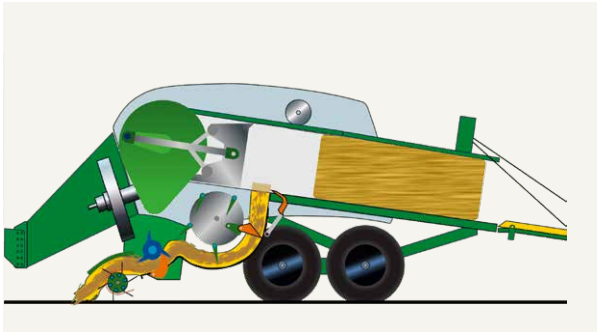
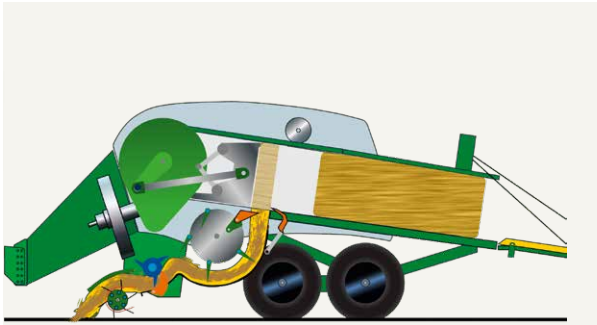
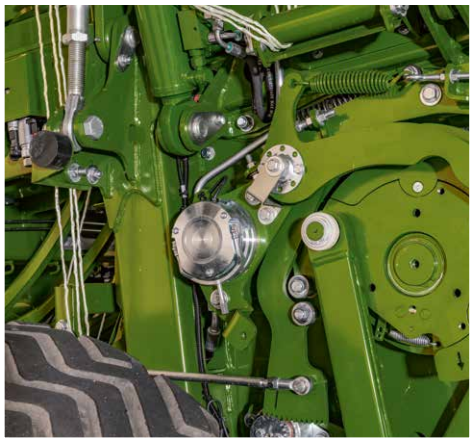


**Fig. 4**
The entire cam track of the feeder rake moves off path so the rake feeds the pre-compressed material into the baling chamber. After that, the sensor swing and cam track return to their previous positions.



# KRONE VFS – The variable filling system

## For even more dimensionally stable bales



**VFS control**

The new BiG Pack has a completely new VFS control system which also has a new sensor that monitors the swing. If there is not enough straw in the pre-compression chamber to produce a full-size pack, an electric brake triggers an extra stroke that collects more material. If the brake is not triggered, the system keeps feeding material into the baling chamber at each turn of the packer. The best part is that operators can control the level of pre-compression, wad thickness and wad number electrically from the cab. From the terminal screen, they can watch the pre-chamber being filled at each turn of the packer and interfere by altering the torque that triggers the mechanism. The brake is not triggered as long as the system is in 1:1 feed mode.

**The focus is on load and utilisation**

A standard torque measurement system in the drive train continuously determines the efficiency of the VFS and therefore of the machine and displays it on the terminal using a bargraph. This means that you can always use the BiG Pack extremely productively and at maximum efficiency.

## Maximum operational reliability

- **Using the same VFS on all chambers and chamber sizes**
  reduces the number of different parts
- **Heavy-duty components**
  sourced from the BiG Pack HDP II ensure superior reliability
- Even uninitiated operators are highly productive thanks to the load indicator and pre-compression control from the terminal
- **The VFS is triggered electrically**
  only when the packers continue filling the pre-compression chamber. It is not triggered when the feeding system is in 1:1 mode.

**Ingeniously simple. Simply ingenious. This summarises the key qualities of the KRONE VFS Variable Filling System. A rotor studded with five rows of tines receives the material from the rotor cutter or the pick-up and mixes and compresses it to perfect pre-packs – a technology that ensures the baling chamber is filled uniformly in a consistent flow of material.**

**Hard wearing**
The inner cam track of the packers is split in two parts for easy replacement when worn or damaged. The bottom part of the cam track is 20 mm wider and boasts a much more heavy-duty design. Also, the idler wheels and actuator arms are all sourced from BiG Pack HDP II to beef up the new BiG Pack generation.

**Auto lubricated**
The automatic lubrication system of the VFS received a comprehensive upgrade that leads to a significant increase in lifespan and dependable operation thanks to shorter service intervals and a new rotary union. These upgrades were developed on new insights won from the BiG Pack X-treme and its work in sugar cane harvesting.

**One for all**
All BiG Pack models have the same VFS system. This means all share the same components – an important detail for spare part supplies. The cross section of the VFS system can be altered and adapted to suit the individual machine. This is done by mounting a cross beam to one of several positions. The feature is particularly useful on PreChop machines.

# The drive

Extremely robust *and comfortable*

## Smooth running

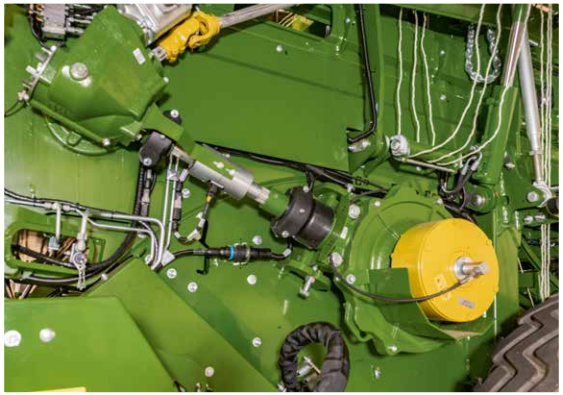
- **High inertia**
  and high speeds for a quiet running system
- **Power is transmitted**
  down clutch-protected drive shafts
- **No shear pins**
  in the drive train for maximum operator comfort
- **Hydraulic starting aid**
  is an option for smooth machine starts

**KRONE has always preferred massive flywheels that are able to absorb peak loads and improve the fuel efficiency of such a big baler. All chains have been replaced by gearboxes and driveshafts for optimum efficiency throughout the entire power-train. You won't find shear pins on the KRONE BiG Pack drivelines but overload clutches protecting all drives.**

**Starting up hydraulically**
A hydraulic start assist system can be specified on each BiG Pack baler for a smooth machine start. The system consists of two hydro motors that accelerate the fly-wheel before the tractor pto is started.

**Quiet and comfortable**
Large flywheels prevent bounce and guarantee a quiet running system. The flywheels absorb peak loads and the machine maintains a consistent work rate whilst requiring significantly less tractor power – for more peace of mind, better fuel efficiency and minimum wear.

**Perfectly protected**
On start-up, the driveshaft to the BiG Pack is protected by a slip clutch. When there is an overload an automatic cut-out clutch is activated protecting the baler effec-tively from the energy that is stored in the flywheel. The two clutches are located in front of the flywheel for easy access and servicing.



**Shafts and gearboxes**

On KRONE big balers, power is transmitted to the packer and the knotters via robust, low-maintenance drive shafts, gears and overload clutches. Buying this technology means buying into dependability and comfort.

**On-board hydraulics**

The VariCut belt drive, the bale chamber control system and the KRONE PowerClean system have their own hydraulic on-board system so these assemblies do not tap into the tractor's oil reserve.

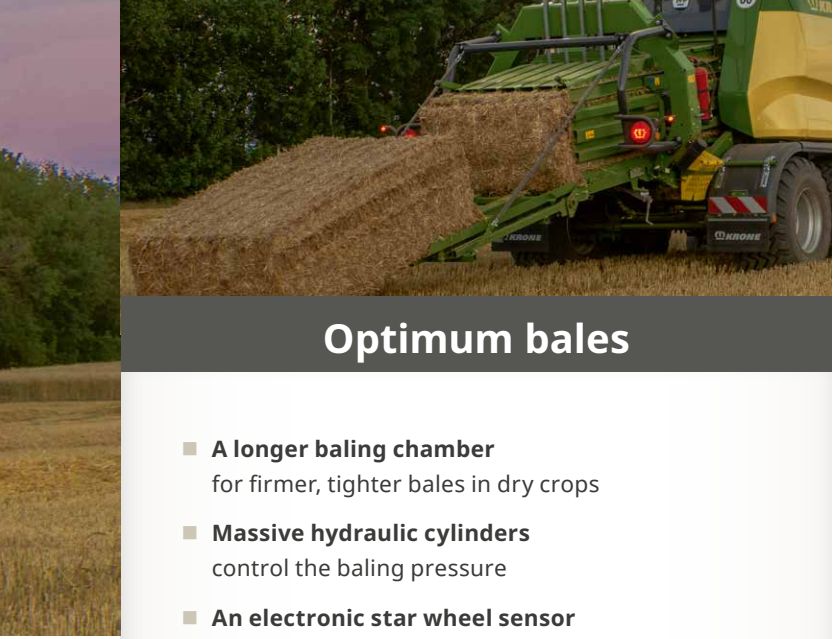
# The bale channel

## Up to six large pressure cylinders


**Full-on power for rock-solid bales**
The bale channel has now been extended by 20 % to 3.60 m and has a full-width upper baling flap on all types. On the BiG Pack 1290 HDP, wear plates are also fitted as standard in the front area. which help press the material into perfect bales and reduce machine wear. Up to six massive rams operate the top and the side walls of the chamber.

**Extendable rear end**
The BiG Pack features a strong frame end with mounting consoles and therefore allows the attachment of bale accumulators. In addition to various chutes, the machine is also available ex works in the 'BaleCollect ready' version.

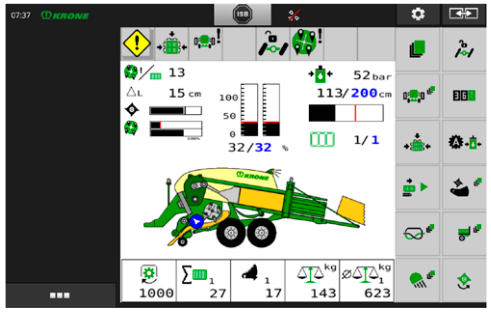
**Consistent bale length every time**
KRONE equips all BiG Packs with a star wheel that measures the bale length electronically. Arranged in the middle of the baling chamber, the wheel is encased for protection from objects and debris.

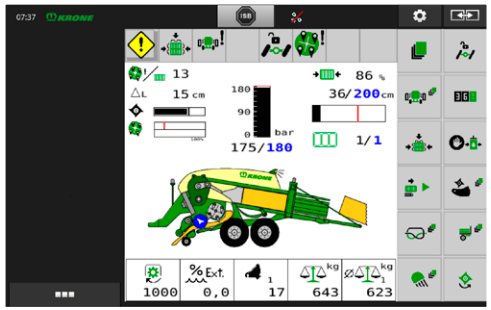
# Optimum bales

- **A longer baling chamber**
  for firmer, tighter bales in dry crops
- **Massive hydraulic cylinders**
  control the baling pressure
- **An electronic star wheel sensor**
  ensures uniform bale lengths
- **Electronic baling pressure**
  control for even bale densities
- **Deselectable pusher dogs**
  either push out only the last bale or clear the entire chamber

**BiG Pack features a 20% longer baling chamber that has now a full-width top plate to produce even firmer, tighter bales especially in very dry crops and at high work rates and throughputs. The on-board hydraulic system with automatic baling pressure control ensures firm bale shapes and tidy edges, even in wet conditions and in different crops.**




**Automatic mode**
The operator selects a density between 0% and 100% on the control box and the baling force control adapts the baling pressure automatically. This way, you get uniform and consistent bale densities also in varying conditions.




**Manual mode**
By default, the baler starts up in manual mode at a pressure of 50 bar. The first chamber filling should always be carried out in manual mode. After that you can select auto mode. Alternatively, you can choose and set a different default pressure between 0 bar and 180 bar. This, however, will disable the auto mode option.

**Ejecting the bale**
The pusher dogs are deselectable so you can choose whether only some are in action to push out the last bale or all of them to clear the the chamber. When the operator enables the pusher dogs, the baling pressure is automatically reduced to a customisable level. This makes ejecting the bale easier depending on the crop. In auto mode, the pusher dogs carry out several cycles.

**More information on the residual bale ejector**

**More information on the baling pressure regulation**

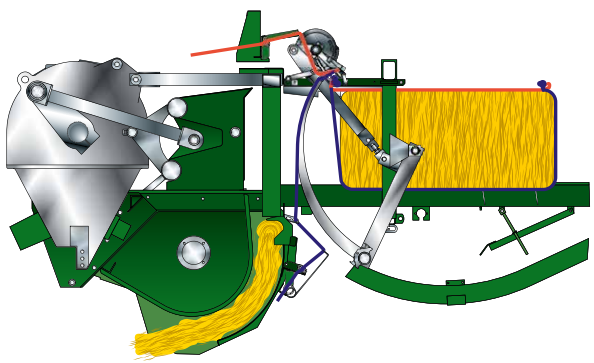

# The KRONE knotter system

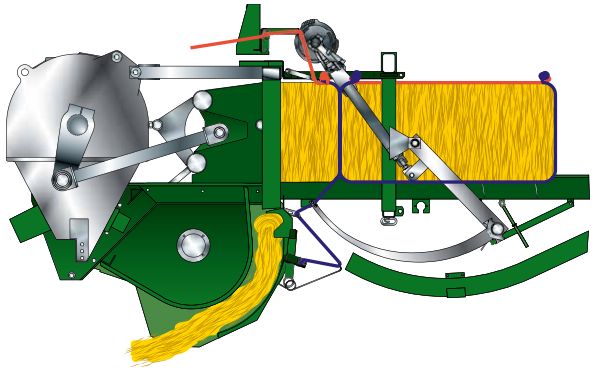
## Reliably tied bales

## KRONE double knotter

- **Double knotter technology**
  for extra reliability
- **KRONE PowerClean as standard**
  With overpressure to prevent soiling
- **Central lubrication provided as standard**
- **Long service life**

**There is no way around double knotters when the task is to make high-density bales. The technology feeds the upper- and under-thread to the knotter without tensioning them. The threads are fixed inside the knotter only for the short moment of tying the knot. This reduces significantly the strain on the thread and on the knotter increasing the reliability of the system.**





**How the double knotter works**
The knotter feeds an upper and a lower twine to the bale as it is being pressed and ties the twine with two knots – one at the front end of the bale (starter knot no. 1) and one at the rear end (finishing knot no. 2). The lower twine is threaded through the needle by a tensioning system that surrounds the base and the two ends of the bale. The upper twine is supplied to the bale directly by a tensioning system and encloses the top of the bale. This system allows the machine to apply maximum baling force in any type of crop.

**Plenty of twine on the machine**

The updates on the twine boxes refer to functions and features but also to the styling. The twine box is integrated in the side panel and opens without tools. The panel keeps the twine balls clean and free of debris. 15 balls feed the twine in a logical arrangement. The box even holds 15 kg balls as an alternative to the customary 11 kg balls – a small detail that expands your operating range significantly.

**How about a little extra?**

In addition to the main twine boxes, KRONE is the only manufacturer to offer two extra twine boxes that are mounted at the rear end of the machine. In between them, the boxes hold six 15 kg twine balls, allowing operators to extend their range by approx. 250-300 bales.

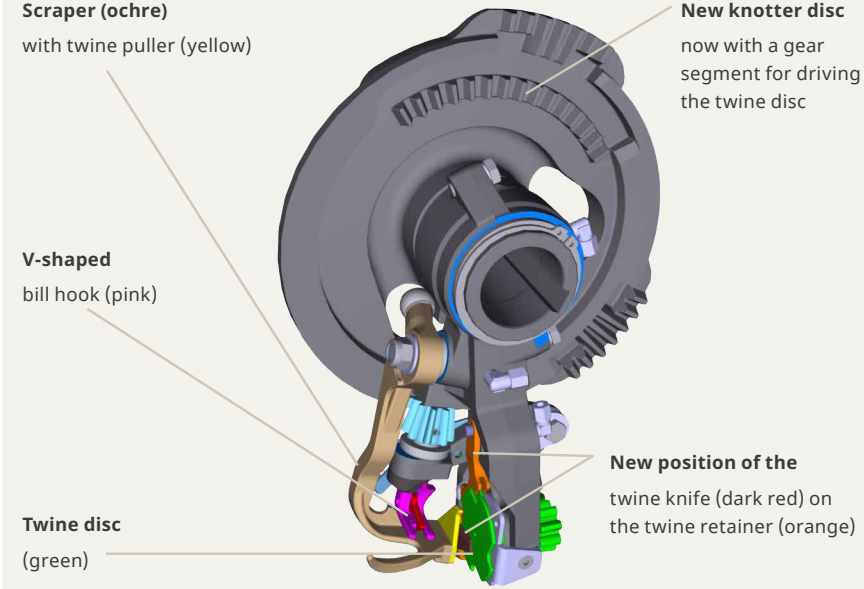


**More information at**

NEW

# The new KRONE V-knotter system

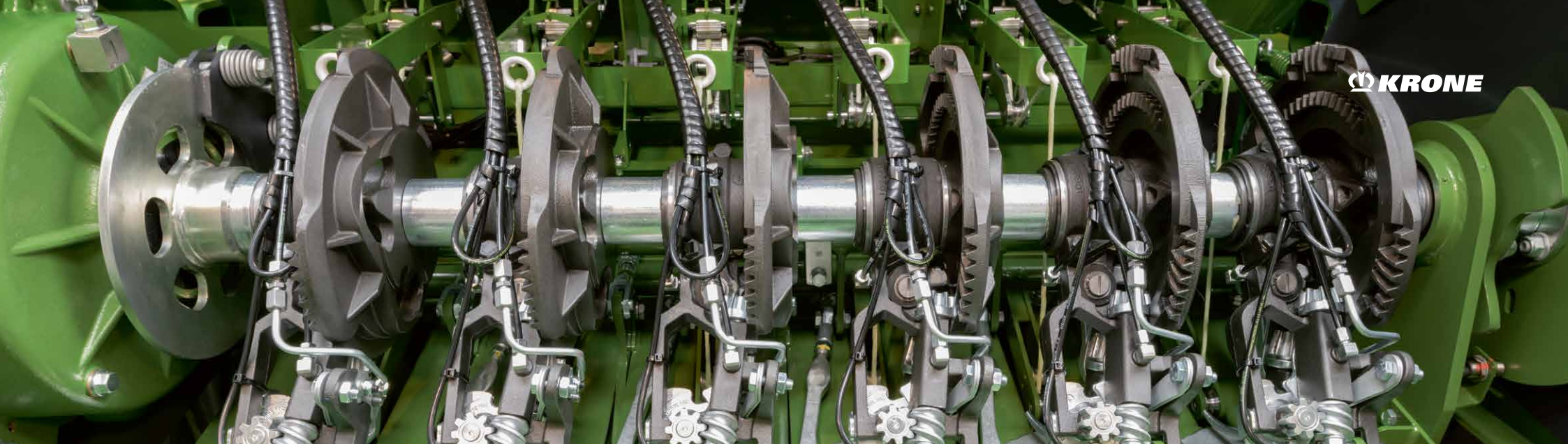
## The new snippet-free V-knotter




**The V-knotter from KRONE produces no scrap ends**

The dependable and hard-wearing V-knotter operates to the Deering system. Yet, instead of cutting the tails off, this design forms the tail into a loop and pulls this into the second knot (starter knot), creating an even stronger knot.

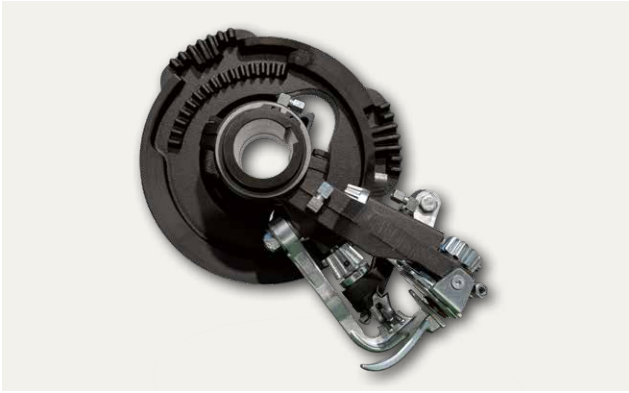
**More information on the KRONE knotter**

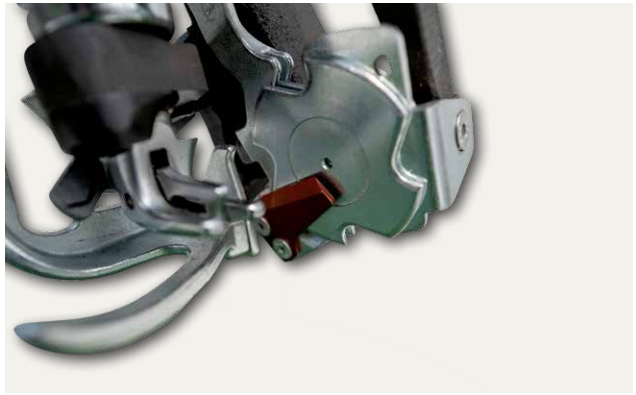


**New knotter disc**
The twine disc and billhook are controlled via the modified contour and segmentation of the knotter disc. The second gear segment for the twine disc is conspicuous in comparison to the conventional Deering double knotter.

**Twine disc with blade**
The blade is now positioned directly in front of the twine disc. By rotating the twine disc between the two cycles of the billhook, the twine strands are pulled through the blade and separated. The wiper arm pushes the knot precisely off the billhook.

**V-shaped billhook**
The KRONE V-knotter is named after the V-shaped open billhook which makes it possible to pull the loop of the second knot, shaped as a loop knot, downwards. The otherwise system-related twine snippet of the double knotter is therefore pulled into the starting knot of the bale as a loop, which increases stability, and does not remain on the bale.





# KRONE PowerClean

## Reliable cleaning

**Easy access**
The large knotter bay opens easily without tools for convenient access to the knotters. The turbines stop automatically when the deck opens.

**Powerful drive**
The on-board hydraulic system powers the fan effectively as the pto is engaged. Superseding the existing pneumatic cleaner, the new system requires substantially less tractor power.

**Massive fans**
Two turbines feed the air from the rear into the knotter bay, creating an overpressure and preventing debris from depositing here in the first place. This means that no material gets onto the bale channel and causes contamination. From here, the exhaust air is directed to the area behind the twine boxes and down to the axles, keeping these areas clean too.

**Boxed and sealed**
The knotter bay is covered by a stylish plastic deck which gives maximum protection.



More information at

## Clean and safe

- **Effectively avoids build-up of crop and debris**
- **Hydraulically powered**
  for superior performance
- **Cleans the knotters,**
  the machine sides and axles
- **Superior convenience and safety**

**With the KRONE Power-Clean cleaning system, KRONE is breaking completely new ground. Maintaining a high air pressure inside the knotter bay, the system prevents material from collecting here in the first place. From here, the air flow is directed to the areas behind the twine boxes and down to the axles, cleaning the machine at maximum convenience and ensuring maximum safety in the field and on roads.**

# The KRONE MultiBale

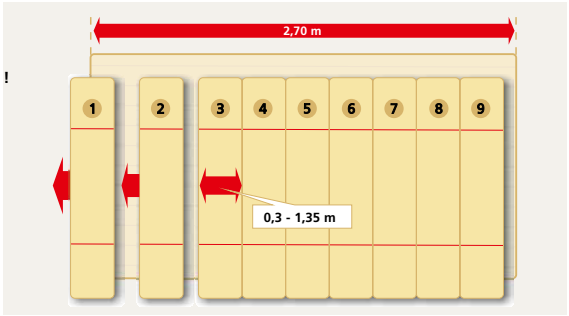
Big in the field a*nd small in the barn*

## Simplified handling

- **Up to nine small bales**
  in one single big pack
- **Small bales**
  from 0.30 to 1.35 m
- **BiG performance**
  in the field
- **Small bales**
  for easy handling in the yard

**The KRONE MultiBale system converts your BiG Pack 1270 into a veritable multi-purpose machine. Available as an option, the kit allows you to make huge bales and clear even large fields fast and efficiently and at the same time deliver your customers small packs that are easy to handle in the barn without a loader. KRONE MultiBale is a unique system that gives you an edge over your competitors and helps expand your business.**

**Customers' wishes come true**
Up to nine single bales are packed in one big bale: The award-winning MultiBale system changes straw handling processes in the barn and stable. The small packs are 0.30 m to 1.35 m in size, allowing users to handle them easily and without the need for costly machinery. This said, you can of course continue baling regular 2.70 m long bales.




**From big to small**
On the move, the operator sets the required number of bales on the control box in the cab, selecting the total length of the big bale and the number of small packs. The small bales are held together with two strings, whereas the big bale has four. Naturally you can also produce conventional full-size single bales tied with six strings.

**More information at**


1


2


**Divided needle yokes**

In MultiBale mode, two knotters knot the small packs and the others tie the big bale, assisted by a divided needle yoke. The two needle yokes are coupled and uncoupled by a controlled latch. For the double knotter to tie the knot, it needs to be supplied with twine. Therefore, the other strings simply pass through underneath the knotters. The small bales are tied with two lengths of twine (1). When the bale is complete, the two yokes are automatically re-engaged so that all the knotters are now supplied with twine (2). Then the big bale is tied.

# Hitch and running gear

## Always comfortable *and safe on the road*

**Bottom- or top-mount drawbar**
All BiG Pack models attach to top-mount or bottom-mount tractor ends – thanks to the modular drawbar that offers tongue loads of up to three tonnes. The compact drive shaft comes with a special holder that offers various positions so the shaft is always as straight as possible. Optional guards are available to protect tractor wheels when making tight turns. A large choice of hitch types is available that suit various national requirements.

**Bottom-mount hitch**
An 80 ball hitch is an option for all BiG Packs. Choose between the ball hitch and ring hitch for use with the pivoting drawbar. The clutches are auto lubricated as a standard feature.

**Stand**
This hydraulic stand is an option and very useful for attachment/removal of machines with 80 ball hitches. The stand is controlled by a double-acting coupler and from the tractor's oil reservoir. A mechanical stand is available as an option.

## Fast on the road

- **Stronger axle**
  offers tongue loads of up to 3 tonnes
- **New and stronger BPW tandem axle**
  for up to 60 km/h
- **Optional 26.5" tyres for cutting unit machines**
  For low drag resistance and even lower ground pressure especially in difficult conditions
- **The boogie axle with parabolic springs**
  for superior rides is a special BPW development for BiG Pack

**The KRONE BiG Pack offers convenient and safe rides in the field and during road transport thanks to a rigid or caster-steer tandem axle offering up to 60 km/h.**

**Caster-steered tandem axle**
The spring-suspended Boogie tandem axle provides smooth and quiet running even at 60 km/h, taking strain off man and machine. The caster-steered rear wheels manage every turn treading gently on the valuable sward. When the machine reverses or travels at speed the steered axle is automatically aligned and locked hydraulically in its straight-ahead position.


**Big boots**
All BiG Packs can take either 500/60 R22.5 or 620/50 R22.5 tyres – the higher-quality radial plies of course. Both sizes have identical diameters but different widths. Neither tyre will push the total machine width beyond the 3 m mark. In addition, 26.5 inch tyres are available for machines with a cutting system. This ensures even better low drag resistance as well as reduced ground pressure in difficult conditions.

**Servicing made easy**
The steered axle is now much easier to service. All lubrications points with less-than-50-hours service intervals are now serviced by the auto lubricator. This cuts the time you spend servicing the machine and keeps the grease nipples clean and tidy.

# Operation

## Technology which inspires

## Easy operation

- **High-resolution colour touchscreens**
- The control units on KRONE BiG Pack big balers are **all ISOBUS-compatible**.
- When hitched to an ISOBUS-compatible tractor, the KRONE BiG Pack can be operated **from the tractor terminal**.
- **On-board control panels**
  allow operators to operate individual assemblies from the ground when servicing the machine

**Even the entry-level DS 500 from KRONE offers convenient and comprehensive control of all major functions from a colour touchscreen. Maximum comfort is provided by the ISOBUS terminals CCI 800 and CCI 1200 which can be used simultaneously for machine operation and as a camera monitor.**


**The DS 500 Terminal**
The compact DS 500 terminal has a 5.7" colour display screen with a clear layout for easy use. You can either operate the machine from the 12 function keys or the touchscreen and the dial control on the back of the device.


**The CCI 800 Terminal**
The CCI 800 ISOBUS terminal with 8" touchscreen serves as user interface and also as camera screen which feeds the images from the bale accumulator for example, offering multi-functionality that saves costs and frees cab space for uninterrupted view. The individual machine functions are shown in mini-view format on the bright, high-resolution colour screen.


**The CCI 1200 Terminal**
The new ISOBUS-compatible CCI 1200 terminal with its 12" touch screen displays the views of two universal terminals (UT) on one screen. This allows the operator to control combinations such as a BiG Pack and a BaleCollect from one single terminal and view footage from several cameras on the same screen – a money-saving feature that provides a better all-round view from the cab. The individual machine functions are shown in mini-view format on the bright, high-resolution colour screen.

**The tractor terminal**
All ISOBUS-compatible KRONE machines can also be controlled from the tractor's existing ISOBUS terminal. Simply connect one single cable and enjoy your customized user interface on the terminal in the cab. Optional controls like the CCI A3 joystick make the tractor even easier to operate, depending on the tractor specification.

**The controls**
The cutting system, the twine boxes, the bale chute and the pusher dogs as well as the LED work and service lights are operated from these BUS controls on the machine. The buttons are backlit and the LED comes on to confirm the specific function has been correctly enabled.

# Maintenance and cleaning

## All-round carefree package

**At eye level**
In order to service a machine properly it is necessary to access all service and maintenance points easily and conveniently. Following this logic, the BiG Pack side panels can also be controlled from the cab or from the keypad panel at the rear end of the machine. Opening wide and clear, they give plenty of headroom and access to all service points at eye level.

**Ergonomically designed**
The twine boxes beneath the side panels lower hydraulically to a convenient height. They are opened without tools for optimum access to and easy replacement of the twine balls.

**Runs like a charm**
The auto lubricator and its large grease reservoir allow operators to spend less time servicing and maintaining the machine. The unit sits underneath the left panel where it is protected from UV radiation.

**Hand wash**
An extra water tank with an integral soap dispenser sits at the rear of the machine, allowing you to wash your hands after a brief intervention on the machine and get back on the tractor with clean hands.



**More information at**

## Effective in every respect

- **The side panels open and close hydraulically** for convenient twine refills and optimum access to service and maintenance points
- **Auto lubricator** extends service intervals and minimises time spent servicing
- **Hand wash tank** with soap dispenser

**Regular servicing increases reliability and lifespan of your BiG Pack. Therefore KRONE developed an innovative folding mechanism that opens the side panels hydraulically for convenient service, repair and twine refills. LED lights come on automatically when you open the panels and lower the twine boxes for excellent visibility day and night.**

*Practical side hoods for convenient maintenance and repair work*

# The lighting concept

## Well illuminated all around

Work lights on the twine boxes

Lights in the knotter bay

Lights on the needles

Lights inside the twine boxes

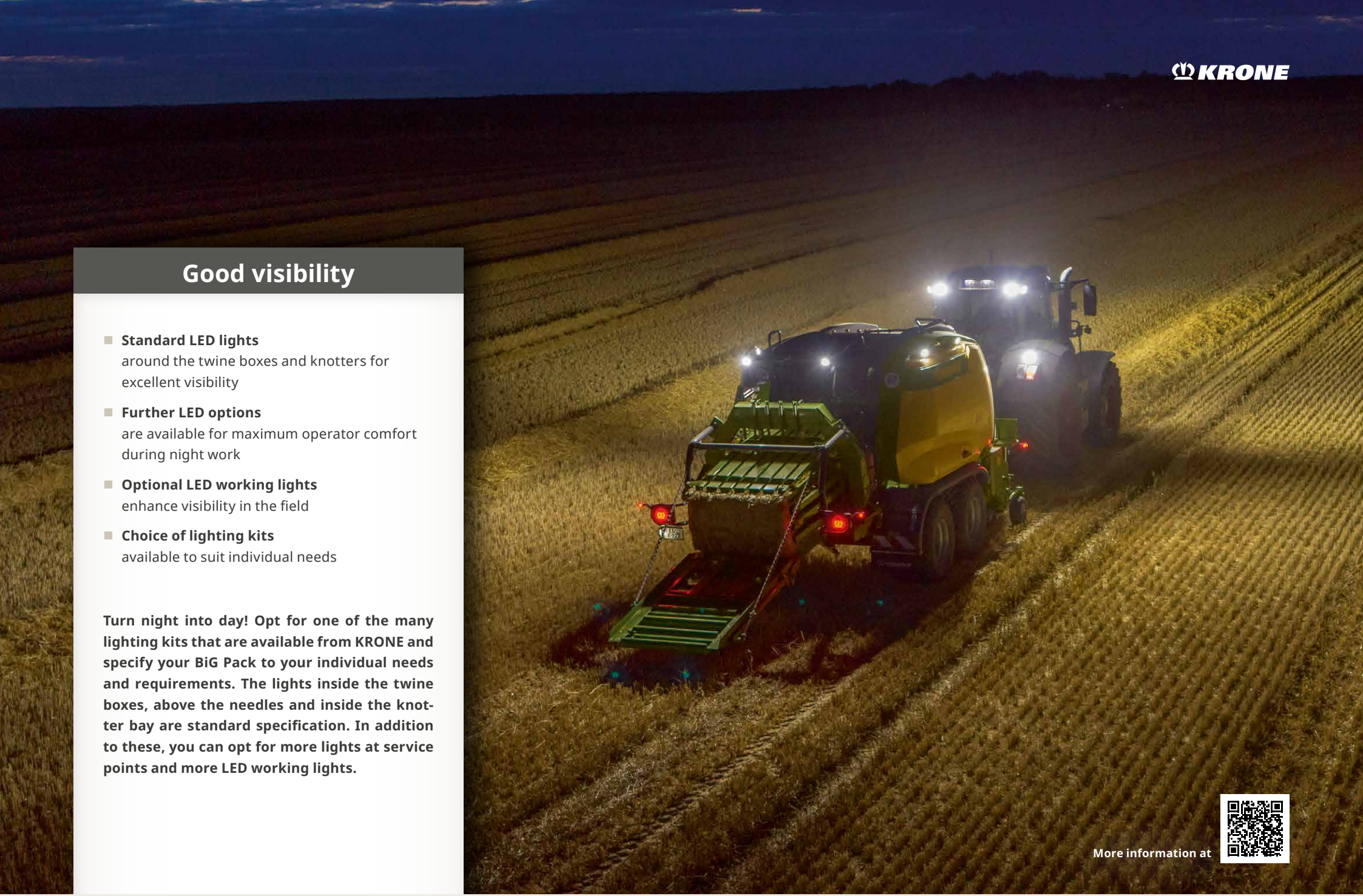
Lights behind the twine boxes

Rear view

Lights on steps

Lights on the pick-up

LED lighting



## Good visibility

- **Standard LED lights**
  around the twine boxes and knotters for excellent visibility
- **Further LED options**
  are available for maximum operator comfort during night work
- **Optional LED working lights**
  enhance visibility in the field
- **Choice of lighting kits**
  available to suit individual needs

**Turn night into day! Opt for one of the many lighting kits that are available from KRONE and specify your BiG Pack to your individual needs and requirements. The lights inside the twine boxes, above the needles and inside the knotter bay are standard specification. In addition to these, you can opt for more lights at service points and more LED working lights.**

**More information at**

# High-Density-Press: BiG Pack 1290 HDP (VC)

## Baling high-density square bales

## Highly compacted bales

- **Ground-breaking high-density baling technology**
- **Exceptionally high density** and excellent handling
- **Even more efficient** straw logistics

**Today, about one in ten large square balers sold worldwide is a KRONE BiG Pack 1290 HDP. This machine delivers high-density 120 x 90 cm square bales.**

**Get the field cleared fast**

Harvesting a crop that yields 4 tonnes of straw per hectare and producing 500 kg bales rather than the 400 kg from a conventional big baler cuts the number of bales to be collected by two per hectare. Even though the machine uses higher quality twine – KRONE recommends the KRONE excellent HDP Strong² – twine costs drop by up to 25% courtesy of the higher baling density.

**Cutting costs**

The profitability and cost-effectiveness of straw baling depends to a great extent on the baling, transportation and storage costs. KRONE has the answer with the HDP system. The up to 25% higher density bales cut the production costs per tonne, increasing the profit potential of professional straw sales. A BiG Pack HDP is your guarantee of success. It's the smart way to work.


**The HDP concept**

How can we effectively reduce costs, time and storage capacity in the straw trade? KRONE asked itself this question in 2003.

It quickly became clear that all these factors could be optimised by a higher bale weight or a higher bale density!

*The concept of a 'High-Density-Press' was born!*

# The KRONE BaleCollect bale accumulator

Collecting up to three bales

## Reducing loading durations

- **Saves time and money in big bale logistics**
- **Telescoping drawbar**
  for optimum rides behind the tractor
- **Choice of unloading modes for subsequent work steps**
- **Standard and integral weighing system**
- **Efficient and gentle on the soil**

**Running behind the baler, the KRONE BaleCollect collects up to three square bales from a 120 cm wide chamber or up to five bales from an 80 cm chamber. And has a choice of unloading modes to prepare the bales for the next steps in the field, significantly shortening post-baling loading times, reducing journeys and minimizing soil compaction.**

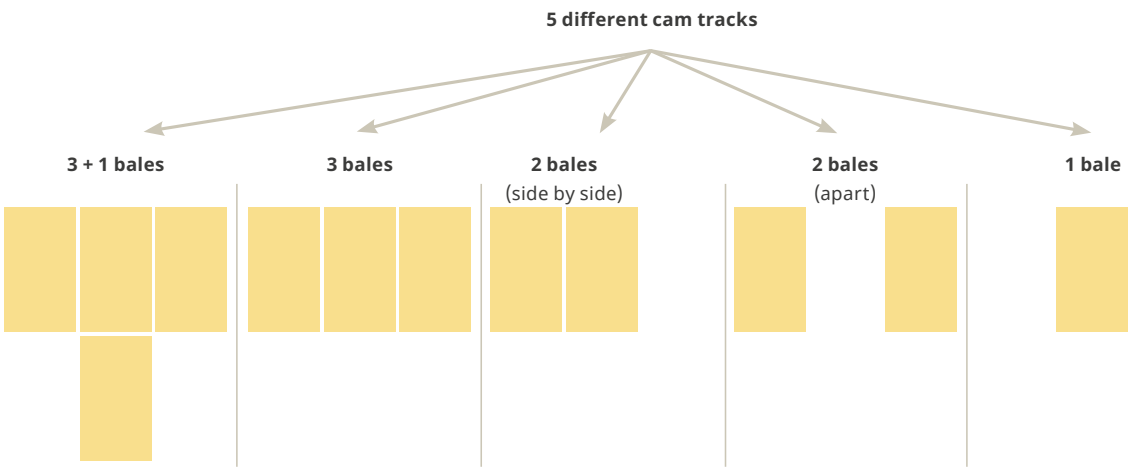
**How it works**

The BaleCollect platform can store up to three bales that leave a 120 cm chamber or up to five bales from an 80 cm chamber. When a bale leaves the chamber it is pushed to the right or left side by a bar, clearing the way for the next bale to enter the platform. All bales are automatically pushed off the platform according to the unloading mode selected by the operator.

**Depositing the bales to needs**

Depending on the individual harvest and process chain, customers may want to have their bales deposited in specific patterns. To suit individual needs, BaleCollect offers five different strategies or modes of depositing the bales in the field. The ‚3 bales‘or ‚3+1 bales‘ modes are used to deposit all bales on or near the headland. By comparison, silage bales will be deposited to the ‘2 bales side by side’ mode or the ‘2 bales apart’ mode. These strategies are selected in harvest chains where the following wrapper is wrapping two silage bales into one pack or even picks up the bales itself. Of course, the operator can also push off the bales manually at any time by pressing a button. A new feature allows operators to drop the bales along as many as five waylines for more uniform results and convenience.


KRONE
60
KRONE
BiGPACK
1270 VC
50
KRONE


5 different cam tracks
3 + 1 bales
3 bales
2 bales
(side by side)
2 bales
(apart)
1 bale

# Silage additive dispenser

## For the 5th generation BiG Pack

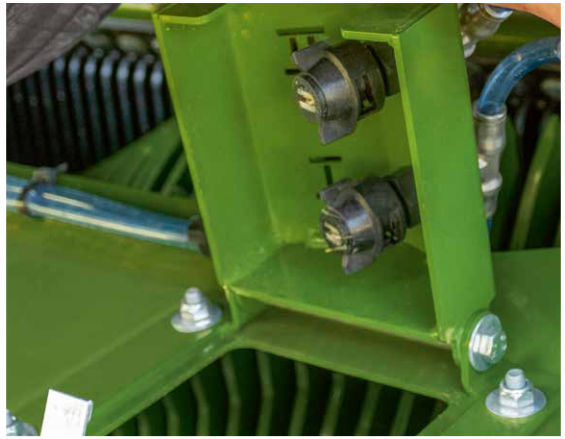

## Optimising ensiling process

- **A 400-litre tank**
  is mounted above the bale chamber behind the yoke
- **A mobile pump assembly**
  is housed in an easy-access and dust-tight box on the yoke
- **Spray nozzles above the pick-up**
  apply the additive at selectable and uniform rates across the pick-up width
- **Various applications programs**
  are available for accurate rates and best forage quality
- **Easy use, service and maintenance**

**Whether ensiling or preserving – with the optional, fully integrated silage additives unit, your 5th generation BiG Pack is even more versatile. The unit is used for applying silage and conservation additives when moisture levels are not ideal or for boosting the fermentation process in the bale.**

**Enough additives on board**
The 400-litre tank for additives is a special development for the 5th generation BiG Pack where it is mounted on top of the baling chamber at the rear end of the machine. It has an electric filling level sensor that constantly sends its information to the cab terminal. The tank is either filled through the large and screened opening or through the side-mounted riser pipe at the rear end of the machine.


**Dust-proof pump housing**
The pump unit, including filter and valves, is installed in a dustproof pump box on the yoke. The pump unit can be removed without tools in just a few steps, e.g. for frost-proof storage in winter. Useful features, such as a compressed air connection for emptying the lines, have been thought of, as has proper drainage of the pump box. An extra button operates the pump manually for service and maintenance.



**Accurate application**
Two flat spray nozzles at the end of each feed line apply a uniform spray on the material as it passes through the pick-up. As different nozzle sizes can be combined, a very wide range of dosing rates is possible. The nozzle holders fold out without tools for easy maintenance.


**Easy operation**
Forming an integral feature of the BiG Pack operator terminal, the dispenser offers various application modes – application at a fixed rate (l/min), at a throughput-related rate (requires the optional weighing chute), at one of three different moisture-level related rates (requires the optional moisture measuring system) or by flow rate percentage. All application rates are set up easily and conveniently in the menu settings.

# Additional equipment

## The right kit *for every job*

**Hitch for quiet running**
Farmers in different countries use different attachment systems: A top- and bottom-mount drawbar is a standard feature on all BiG Packs. A ball- or ring-hitch drawbar is an option for all BiG Packs. Choose between the ball hitch and ring hitch for use with the pivoting drawbar.

**Smooth start**
All KRONE big balers feature a hydraulic start assist system. Two hydromotors bring the flywheel up to speed before the tractor pto is engaged – all operated conveniently via the terminal in the cab, naturally.

**Standing firm**
To enable the machines to be attached and removed even more easily, KRONE offers an optional hydraulic stand for all Big Packs. The hydraulic unit is double-acting and controlled by the tractor hydraulics.

## Simply more

- **Fully integrated moisture sensor** in the baling chamber
- **Fully integrated weighing system** in the bale chute
- **Camera system for safe reversing**
- **Extra twine boxes** at the rear
- **Silage additive dispenser** optimises the forage quality

**For even greater convenience and effectiveness, choose from a number of options that add even more features to your machine, including moisture sensing and bale weighing systems that give accurate information on the job at hand, or LED work lights and reverse cameras for unobstructed vision and a clear all-round view.**

**More twine on board**
In addition to the regular twine boxes, KRONE offers two extra boxes that are mounted at the rear end of the machine. In between them, the two boxes hold six 15 kg twine balls for boosted daily outputs.

**Cutting edge**
All BiG Pack machines with the XCut or VariCut cutting system and PreChop can be fitted with an extra set of blades as an option.

**KRONE PowerClean**
KRONE is leading the way in terms of machine cleaning. The new cleaning system consists of two hydraulic turbines that create an overpressure inside the knotter bay, preventing any debris from collecting here in the first place. From here, the air flow is directed to the areas behind the twine boxes and down to the axles.

*These options are certainly worth the investment.*

# Additional equipment

## Further options *for even more comfort*

**Clear crop quality display**
The data from the optional moisture sensor at the entrance of the baling chamber are read out on the display screen, keeping operators informed on current conditions. The information is read out on a cab-based monitor. An alarm is issued automatically whenever a preset parameter is exceeded.

**Precise weight**
Would you like to keep track of whether the bale weight is meeting your customers' needs? Then the optional bale chute with integrated weighing system is just the right technology for you. The terminal displays not just the weight of every single bale but also the total weight of the finished baling job.

**Clear view to all sides**
You can opt for a reverse-drive CCTV system that comprises a camera and a colour screen which has a second port for a second camera. The camera can also connect to the CCI terminal.

**KRONE SmartConnect KSC – the telemetrics unit**

The KRONE SmartConnect telemetrics unit is the hardware element of the KRONE data management system. No matter whether you prefer the Agrirouter, KRONE Smart Telematics or simply E-Solutions software licences – KRONE SmartConnect with a multi-network SIM card is the easiest way to make a connection, because it logs automatically into the network that offers best reception at the site. KSC is a standard feature on the BiG Pack.

**KRONE Smart Telematics**

KRONE Smart Telematics offer fleet managers a bird's-eye view of all machines and their data, keeping them on top of what's going on in the harvest chain without having to make a single phone call. The system generates clear bale maps and detailed information on each bale. There is no better way to document a job! And with a few clicks, you convert the data to simple pdf reports.


**agrirouter – the data sharing hub**

agrirouter is an internet-based and universal data sharing hub for farmers and contractors that connects machines and farm software applications no matter the brand or developer. The universal approach allows owners of mixed fleets to use and share the data of all their machines – a huge benefit that saves time and increases productivity of your business.

**More information at**

# KRONE excellent twine

## Original twines from KRONE for optimum grip


- This twine has been developed and **optimized to the specifications of the KRONE BiG Pack baler and its knotting system**.
- **Greatest knot strength**, superior to regular twines
- **Optimum fibrilling** ensures effective knotting

| | | Knotters | MultiBale (Smart)² Regular bale density | HDP Smart² High bale density | HDP Strong² Very high bale density | HDP X-treme² Extremely high bale density |
|---|---|---|---|---|---|---|
| BiG Pack 870 HDP 80 x 70 cm (2'7.5" x 2'4) |  | 5 | | | | |
| BiG Pack 890 80 x 90 cm (2'7.5" x 2'11") |  | 4 | | | | |
| BiG Pack 1270 120 x 70 cm (3'11" x 2'4") |  | 6 | | | | |
| BiG Pack 1290 120 x 90 cm (3'11" x 2'11") |  | 6 | | | | |
| BiG Pack 1290 HDP 120 x 90 cm (3'11" x 2'11") |  | 6 | | | | |
| BiG Pack 1290 HDP II 120 x 90 cm (3'11" x 2'11") |  | 8 | | | | |
| BiG Pack 4x4 120 x 130 cm (3'11" x 4'3") |  | 6 | | | | |

| | | MultiBale Smart² | MultiBale | MultiBale² | HDP Smart² | HDP Strong² | HDP X-treme² |
|---|---|---|---|---|---|---|---|
| Double pack | order no. | 27 023 342 0 | 927 943 0 | 923 944 0 | 27 023 343 0 | 27 023 217 0 | 27 023 218 0 |
| Colour | | | | | | | |
| Max. knot strength | kgf | 245 | 245 | 245 | 280 | 315 | 335 |
| Weight | kg/roll | 11 | 10 | 11 | 11 | 11 | 11 |
| Roll length | m/roll | 1,342 | 1,050 | 1,430 | 1,287 | 1,188 | 1,122 |
| Roll length | m/kg | 122 | 105 | 130 | 117 | 108 | 102 |
| UV-stability | | high | high | high | high | high | high |

**New KRONE excellent twines**
KRONE is the only manufacturer to offer 15 kg twine balls in addition to the well-proven 11 kg balls. More twine per ball translates into fewer refills and higher productivity – so operators gain time, comfort and reliability.

- **Approx. 36% extra roll length** and consistent knot strength
- **Fewer refills** – more bales per day
- **Gain in comfort and time**
- **More savings, higher productivity**

NEW

| | | MultiBale ² 15 kg | HDP Strong² 15 kg | HDP X-treme² 15 kg |
|---|---|---|---|---|
| Order no. | | 27 025 897 0 | 27 025 895 0 | 27 025 896 0 |
| Colour | | | | |
| Max. knot strength | kgf | 245 | 315 | 335 |
| Weight | kg/roll | 15 | 15 | 15 |
| Roll length | m/roll | 1,950 | 1,620 | 1,530 |
| Roll length | m/kg | 130 | 108 | 102 |
| UV-stability | | high | high | high |

KRONE

11 kg*
24,25 lbs*


**HDP Strong² 11 kg**
The 11 kg twine spools can be used in all ONE BiG Pack series.

15 kg*
33 lbs*


PLUS 27 %*

**HDP Strong² 15 kg**
The exclusive 15 kg twine spools can be used in all 5th generation balers (series 305 and 405).

* compared to 11 kg twine spool.

# Technical data

## The BiG Pack (BPx05) programme

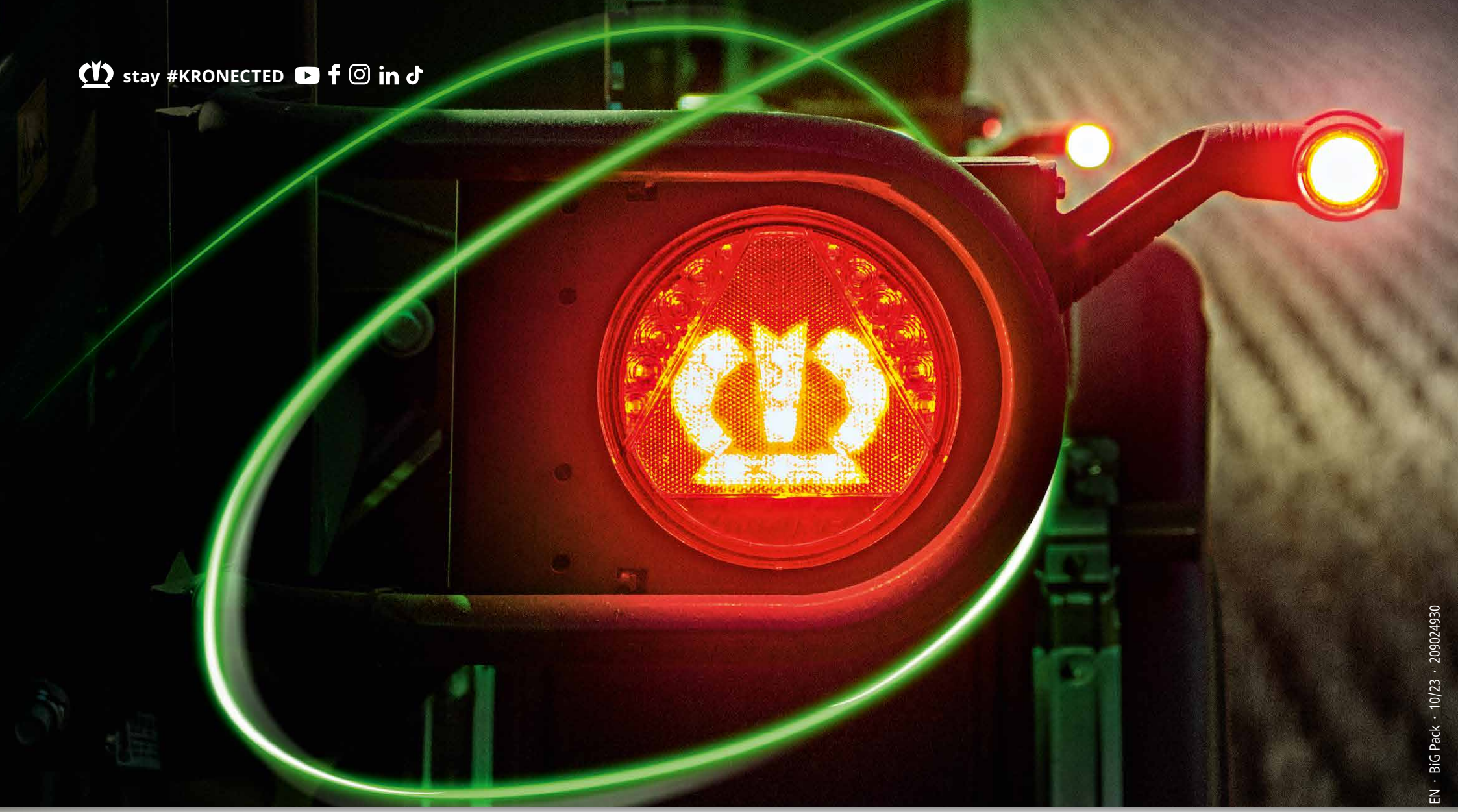
| | | BiG Pack 1270 (BP 305-10) | BiG Pack 1270 VC (BP 305-11) | BiG Pack 1290 (BP 405-10) |
|---|---|---|---|---|
| **Chamber width x height** | cm | 120 x 70 (3'11" x 2'4") | 120 x 70 (3'11" x 2'4") | 120x90 (3'11" x 2'11") |
| **Bale length** | m | 1.0 - 3.2 (3'3" - 10'6") | 1.0 - 3.2 (3'3" - 10'6") | 1.0-3.2 (3'3"- 10'6") |
| **Tractor power** | min. kW/hp | 120 / 163 | 140 / 190 | 120 / 163 |
| **Pick-up work width DIN** | m | 2.35 (7'9") | 2.35 (7'9") | 2.35 (7'9") |
| **Length in transport position** | m | 8.85 (29'0") | 8.85 (29'0") | 8.85 (29'0") |
| **Length in working position*** | approx. m | 10.31 (32'11") | 10.31 (32'11") | 10.31 (32'11") |
| **Height** | m | 3.25 (10'8") | 3.25 (10'8") | 3.45 (11'4") |
| **Width** | m | 2.99 (9'10") | 2.99 (9'10") | 2.99 (9'10") |
| **Min weight**** | approx. kg | 10,500 (23,148 lbs) | 12,300 (27,117 lbs) | 11,000 (24,251 lbs) |
| **Tyres for the 40 km/h single axle** | | – | – | – |
| **Tyres for 50-60 km/h tandem axles** | | 500/60 R22.5<br>620/50 R22.5 | 500/60 R22.5<br>620/50 R22.5<br>620/55 R26.5****<br>710/50 R26.5 (Width 3.18)**** | 500/60 R22.5<br>620/50 R22.5 |
| **Brakes** | | Air/hydr. | Air/hydr. | Air/hydr. |
| **Twine storage**** | No. of rolls | 30 | 30 | 30 |
| **PreChop** | | – | Option | – |
| | | – | – | – |
| **Double knotter** | | 6 series | 6 series | 6 series |
| **MultiBale** | | Option | Option | – |
| **Max. no. of blades** | | – | VC26 = 26 / VC51 = 51 | – |
| **Min. cutting length** | mm | – | 44/22 | – |
| **Plunger strokes** | no. of strokes/ minute | 45 | 45 | 45 |
| **BaleCollect** | | Option | Option | Option |


| | | BiG Pack 1290 VC (BP 405-11) | BiG Pack 1290 HDP (BP 405-20) | BiG Pack 1290 HDP VC (BP 405-21) |
|---|---|---|---|---|
| **Chamber width x height** | cm | 120x90 (3'11" x 2'11") | 120x90 (3'11" x 2'11") | 120x90 (3'11" x 2'11") |
| **Bale length** | m | 1.0 - 3.2 (3'3" - 10'6") | 1.0 - 3.2 (3'3" - 10'6") | 1.0 - 3.2 (3'3" - 10'6") |
| **Tractor power** | min. kW/hp | 140 / 190 | 155 / 210 | 180 / 245 |
| **Pick-up work width DIN** | m | 2.35 (7'9") | 2.35 (7'9") | 2.35 (7'9") |
| **Length in transport position** | m | 8.85 (29'0") | 8.85 (29'0") | 8.85 (29'0") |
| **Length in working position*** | approx. m | 10.31 (32'11") | 10.31 (32'11") | 10.31 (32'11") |
| **Height** | m | 3.45 (11'4") | 3.45 (11'4") | 3.45 (11'4") |
| **Width** | m | 2.99 (9'10") | 2.99 (9'10") | 2.99 (9'10") |
| **Min weight**** | approx. kg | 12,800 (28,219 lbs) | 12,900 (28,439 lbs) | 14,700 (32,408 lbs) |
| **Tyres for the 40 km/h single axle** | | – | – | – |
| **Tyres for 50-60 km/h tandem axles** | | 500/60 R22.5<br>620/50 R22.5<br>620/55 R26.5****<br>710/50 R26.5 (Width 3.18)**** | 500/60 R22.5<br>620/50 R22.5 | 500/60 R22.5<br>620/50 R22.5<br>620/55 R26.5****<br>710/50 R26.5 (Width 3.18)**** |
| **Brakes** | | Air/hydr. | Air/hydr. | Air/hydr. |
| **Twine storage**** | No. of rolls | 30 | 30 | 30 |
| **PreChop** | | Option | – | Option |
| | | | | – |
| **Double knotter** | | 6 series | 6 series | 6 series |
| **MultiBale** | | – | – | – |
| **Max. no. of blades** | | VC26 = 26 / VC51 = 51 | - | VC26 = 26 / VC51 = 51 |
| **Min. cutting length** | mm | 44/22 | - | 44/22 |
| **Plunger strokes** | no. of strokes/ minute | 45 | 45 | 45 |
| **BaleCollect** | | Option | Option | Option |



All specifications, weights and dimensions do not necessarily comply with standard specifications and are therefore not binding. Specifications are subject to change without notice.

* With weighing chute, ** Varies according to machine equipment, *** With optional additional twine boxes (+ 12 rolls), **** These tyres increase the overall height by approx. 22 cm

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