



**DENSUS**

VARIABLE CHAMBER BALERS



# WHEN FARMING MEANS BUSINESS

Realising the full potential of farming is about growing and developing your business, not only your crop or livestock, but also your profit. Improve productivity and profitability by focusing on the positives and minimising disadvantageous aspects, through strong, dedicated management.

Success springs from determination and clear targets, from laying down the appropriate strategy and allocating correct investments for the future. Quality results require the right ideas and equipment. When there is work to be done, you need the optimal setup and smart solutions that support you towards an easier, more profitable way of working. You need solutions that make tough and demanding conditions less complicated.







**BALE**

As a professional engaged in baling and wrapping, you pride yourself on providing the best result for your customers.

The need to satisfy ever increasing demands, while simultaneously improving the quality of the job being carried out is a given.



## BROAD OFFERING TO SUIT PERFECTLY TO YOUR NEEDS

### WHAT ARE THE REQUIREMENTS FOR YOUR CROPS?

Annual bale count



Crop type



Kverneland model



#### **Densu 7060 EasyFeed**

Bales: Ø0.7m up to 1.65m x 1.23m

#### **Densu 7060 PowerFeed**

Bales: Ø0.7m up to 1.65m x 1.23m

#### **Densu 7060 ChopFeed (15 knives)**

Bales: Ø0.7m up to 1.65m x 1.23m

#### **Densu 7090 EasyFeed**

Bales: Ø0.7m up to 1.85m x 1.23m

#### **Densu 7090 PowerFeed**

Bales: Ø0.7m up to 1.85m x 1.23m

#### **Densu 7090 ChopFeed (15 knives)**

Bales: Ø0.7m up to 1.85m x 1.23m

# KVERNELAND DENSUS

## THE UTMOST EFFICIENT BALING

The Densus is a wide range of variable chamber round balers that priorities **reliability and ease of maintenance** while maintaining its position as a market leader in bale quality and output.

### Bale production capacity at a high level

The new Kverneland Densus sets a new standard in terms of **productivity and cost-effectiveness**: performing at a high level in every crop type and field conditions while maintaining a low ownership cost, and it **steps up round baling to the utmost efficiency ever!**



## EFFICIENT TRANSMISSION

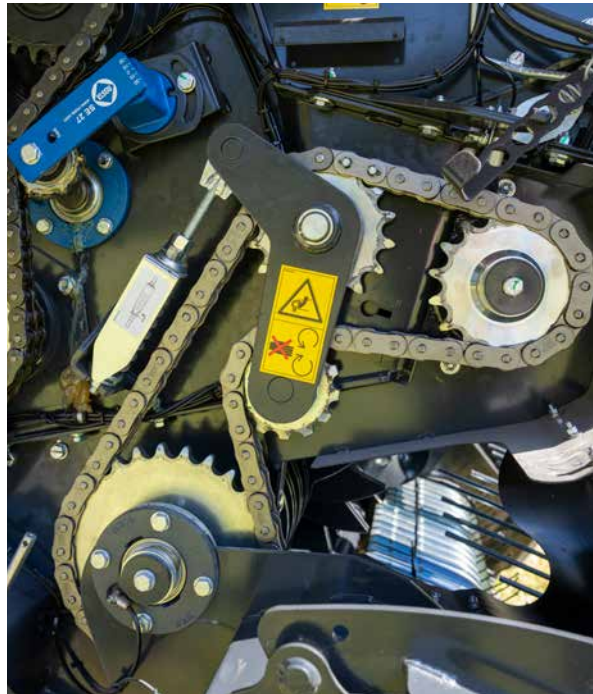
In today's world, no-one can afford downtime. In a busy baling season, timeliness is everything. To guarantee the lowest possible running costs, the Kverneland engineering team have boosted durability to new levels.

### High specification combined with simple maintenance

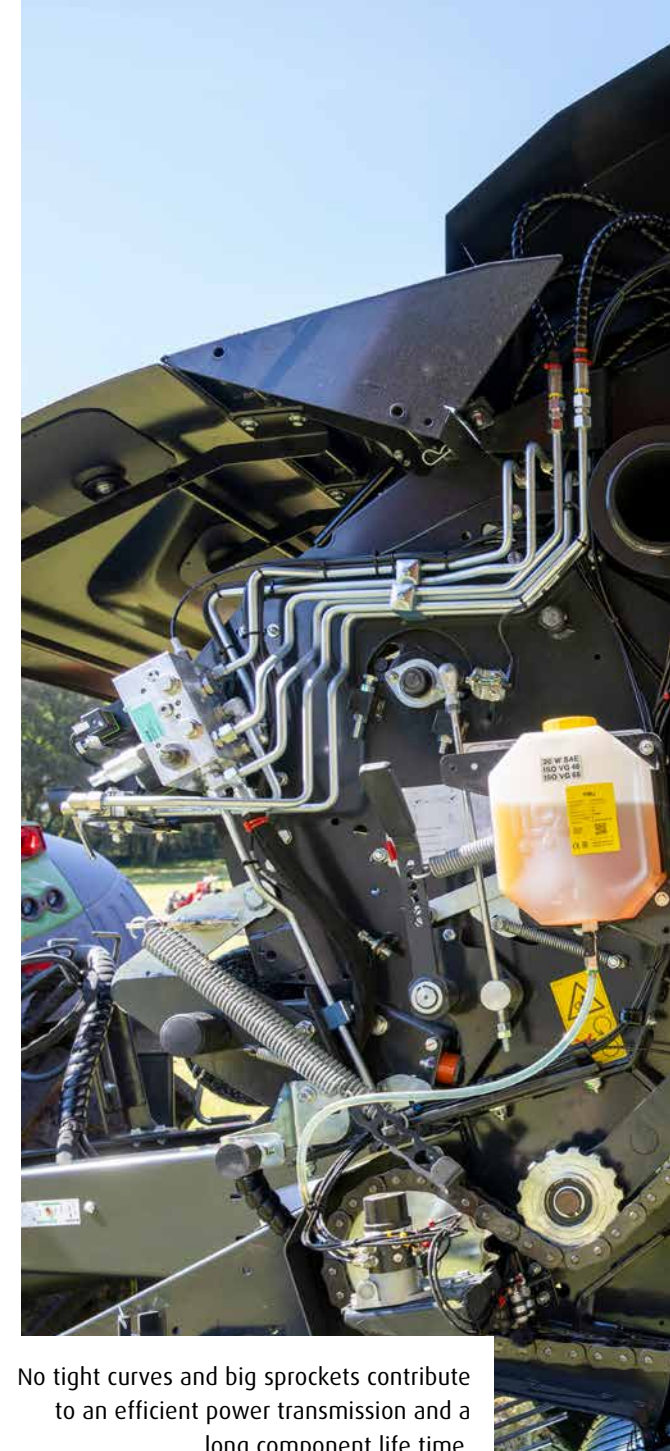
Time is money – and less time spent on daily maintenance means more time for baling. The intake rotor and all bale chamber drives are equipped with heavy duty 1¼" pitch chains.

Long-life 'HBC' rated chains are specified and are all equipped with a spring - loaded tensioner with handy gauge plate, allowing you to see at a glance if any adjustment is required. Joiner links on chains are also colour marked for easy identification at a later date.

*The Kverneland engineering team have boosted durability to new levels.*

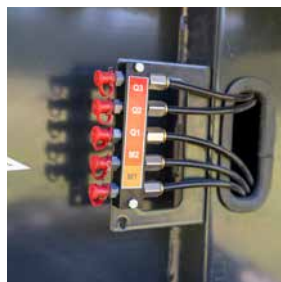


Rotor chain transmission with 1¼" pitch chains.



No tight curves and big sprockets contribute to an efficient power transmission and a long component life time.





Each bearing is clearly marked from the greasing bank making the maintenance simple.



External bearings are reducing the service time to the minimum.



The chain tension are easy to check thanks to the check gauge.



Automatic chain lubrication is standard.



Automatic chain lubrication with individually adjustable outlets.



Large capacity chain lube tank.



### Integrated gearbox

Kverneland Densus series features a one-piece **integrated input gearbox**, which also incorporates drawbar and parking stand mountings. Drive to the rotor and bale chamber are split, **balancing out torque loadings**, while separate output shafts and bearings are eliminated. Perfect alignment and distribution of loads is guaranteed – **your assurance of long term reliability**.

Integrated one piece main gearbox.





## CLEAN RAKING PERFORMANCE IN ALL CROPS



### High Capacity Pick-Up

Assured handling of the widest swaths with Kverneland Densus' super wide 2.3m working width pick-up. Despite its class-leading working width, the transport width remains narrower than its rivals due to an innovative internal drive system – there's no need to remove or fold the guide wheels prior to road transport, making your life easier and reducing downtime.

The low profile reel effectively gets under the shortest crops, while five rows of closely spaced tines provide clean raking even in the toughest working conditions. Long tines in combination with new wider strippers allow for even more effective ground cleaning and higher life time.

*Clean up with Kverneland.*





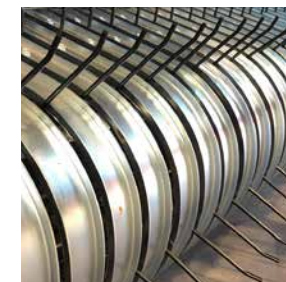
### 2.3m extra wide pick-up

- Five tine bars with 34 tines per bar and close 60mm tine spacing.
- Each tine bar is supported by four ball bearings along its length.
- Twin easy access cam tracks located at both ends of the pick-up.
- Large diameter roller crop press for increased intake speeds.
- Innovative inboard driveline design for reduced transport width.
- Robust  $\frac{3}{4}$ " spec HBC drive chains



### 2.0m pick-up (EasyFeed intake)

- Four tine bars each supported on three ball bearings
- Close 60mm tine spacing
- Innovative inboard driveline design for reduced transport width
- Roller crop press for efficient crop flow
- Robust  $\frac{3}{4}$ " HBC spec drive chains



Galvanized strippers.



Hydraulic pick-up lift with integrated suspension system for accurate ground following.



### Compact internal drive system

The Kverneland Densus pick-up features a patented internal drive system. This offers multiple advantages compared to conventional systems:

- Overall width is reduced as the drive sprocket is contained within the guide flares, so manoeuvrability is improved and risk of pick-up wheels interference with side obstacles is reduced.
- The twin cam tracks are located on the outside of the pick-up frame, allowing for easy access to both the cam itself and the cam follower bearings.
- The large diameter drive sprocket results in reduced wear potential compared to externally separated mounted sprockets.
- There is no 'dead area' at the outside of the pick-up to potentially restrict crop flow.
- The crop centralizing augers are driven on the same principle than pick-up transmission, using the internal drive chains. Pick-up sides are clean of any carters and transmission, avoiding any crop pollution and risk of mechanical damages, while maintenance is reduced to the very minimum.



Generous flotation tyres with simple height adjustment.



## SUPERB INTAKE CAPACITY

### SUPERIOR PERFORMANCES

Large intake rotor provides massive capacity to cope with the toughest harvest conditions. Tines are arranged in a double helix which reduces peak loads. The resulting boost in performance is especially useful when working in heavy first cut crops.



ChopFeed 15





EasyFeed intake system.



PowerFeed intake rotor.

### ChopFeed 15 chopping system for optimal cutting performance

ChopFeed 15 knife pre-chopping system provides higher efficiency and improved crop flow into the baler. Specially profiled knives have been developed to give a consistent chop length with a low power requirement. With a chop length of 70mm, it is the ideal solution for producing tight dense bales, which result in improved fermentation, easier feeding mixers use of the bales and less crop waste.

### Individual knife protection

On the ChopFeed 15 each knife is individually spring protected against foreign obstacles, giving a higher level of protection than systems that protect only the complete knife bank. In the event of contact with an object such as a stone, the knife will be deflected. When the obstacle has passed, the knife automatically resets. The possibility to work with or without knives can be selected from the comfort of the tractor seat, with the monitor showing the status of the knives at all times.

### EasyFeed, smooth crop handling

EasyFeed rotary intake system with excellent intake capacity and gentle crop handling. This technology incorporates integrated augers and rotor design, allowing the crop to flow across the entire width of the bale chamber, resulting in high capacity and excellent bale shape.

### PowerFeed rotor intake for ultimate capacity

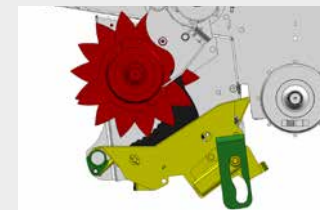
The Kverneland PowerFeed intake rotor increases feed capacity, handling both wet and dry crops in all conditions. The PowerFeed rotor with its 14 fully guided rotor tines forces crop into the bale chamber for increased intake speeds and instant bale rotation. The layout of the floor is also studied for the smoothest crop flow ever, reducing the load peaks on the intake for less stress on transmission and lower rotor blockages risk.



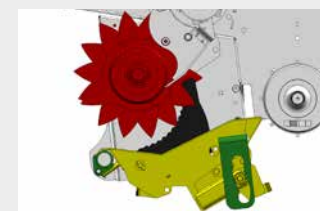
### Parallelogram DropFloor system for faster unblocking

The PowerFeed and ChopFeed 15 intake systems are equipped with the super effective Kverneland Parallelogram drop floor system, which brings faster and easier clearing of blockages. The system not only lowers the rear edge of the drop floor as per traditional systems, but also lowers the front section of the floor, where a blockage is more likely to occur.

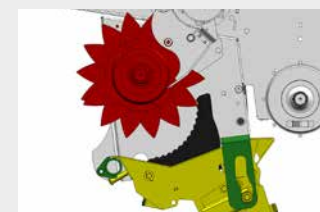
Drop Floor in working position.



Drop Floor in mid position.



Drop Floor in fully lowered position.



Easier removal of all blockage types =  
More time baling



## BALE PRODUCTION – AT A NEW LEVEL!

The defining feature of Kverneland Densus 7060 and 7090 balers is their ability to produce bales of **unrivalled quality in all crop conditions**. Efficiency and performance are unmatched, while smart 'Intelligent density' allows bales to be tailored to perfectly match all customer's requirements.

### Leader in bale quality and output

Designed for professional use in demanding conditions, the bale chamber of the Kverneland Densus 7060 and 7090 models is designed for multi crop use, and is **equally at home in silage, hay and straw**.

### Well engineered bale chamber

A combination of three rollers and four endless belts provide **smooth bale rotation and minimal crop losses**, even when working in dry brittle straw.

*Bales of unrivalled quality in all crop conditions.*

Hydraulic belt tensioner and fast tailgate operation place the Kverneland Densus series in the **top list of most efficient round balers in the market**.







The hydraulic loaded belt tensioner allows a fast tailgate closing for high output.



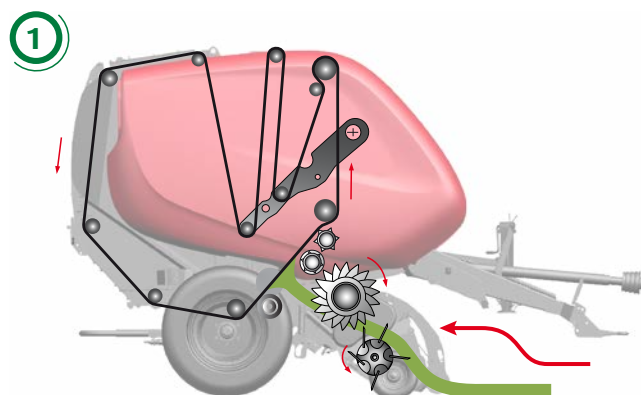
The Kverneland Densus 7060 and 7090 are fitted with four durable endless belts offering smooth running and low maintenance.



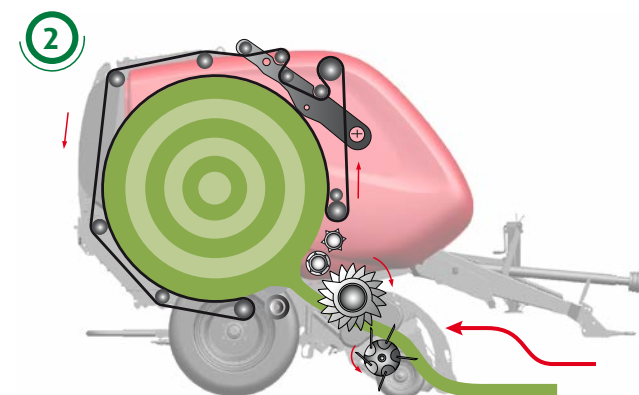
Spiral profile scrapper roller for efficient cleaning effect in all condition.



Profiled rollers provide instant bale formation and are equipped with self cleaning scrapers designed for working in all crop conditions.



**1.** Specially profiled lower front rollers ensure instant bale starting in all crops and are constantly cleaned by a spiral scrapper roller to perform well in all conditions.



**2.** A high density bale with a smaller core is produced. Straw bales are more tolerant to poor weather conditions and silage bales maintain their shape better for improved stacking and easier handling.



# INTELLIGENT DENSITY 3D

## – THE SMARTEST WAY TO PERFECT BALES

Accurate control of baling pressure is essential to achieve correct bale density. Every crop is different and with Kverneland Intelligent Density 3D **you can be sure to obtain the best possible end result** – optimum feed quality for your livestock!

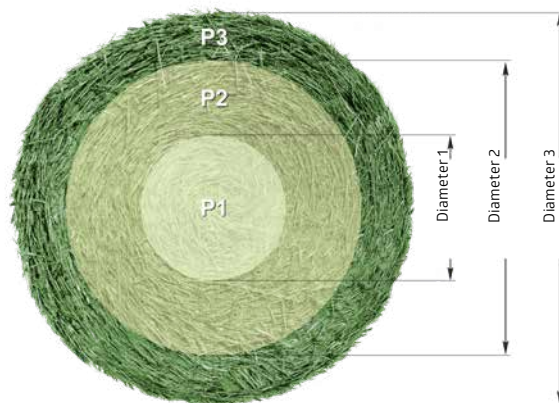
### Intelligent Baling

Intelligent Density 3D gives you three pre-selectable **options for straw, hay and silage** all easily set from the **control box**. It is also possible to customize the bale density yourself. Three separate zones, each with a choice of diameter and pressure **let you set the best strategy**, so that bale structure is perfectly matched to your requirements.

### Customize the bale density yourself

Pre-selection of bale density for each zone of the bale: core, mid and edge.

Diameter (D) and pressure (P) can be adjusted in three stages using the control terminal.



Baling dry straw and want the heaviest bales possible?  
Maximum pressure is set in every zone.

Baling hay? Soft centre core to let the bale breath is set,  
with gradually increasing pressure towards the outer layer.

Baling wet silage? Pressure is reduced in the centre and  
mid zones.





*Intelligent Density 3D*





## FAST ACTING – HIGH COMFORT

With a Kverneland Densus baler you're sure to leave a field of great looking bales. Kverneland's PowerBind net and twine systems **ensure neat, tightly wrapped bales**. Fast acting net cycle - Kverneland Densus balers are equipped with the innovative **front mounted PowerBind net system**. PowerBind eliminates troublesome feed rollers and has market leading cycle time.

### **Minimum time stationary – maximum time baling**

The net is continuously retained in the PowerBind injection arm. When the bale is complete net is fed directly onto the bale in a flat movement angle **keeping the net tight at all times, providing accurate and extremely reliable net injection**, without influence from wind or crop build-up.

### **Low net loading height**

PowerBind offers very low loading height **for maximum convenience and time saving**. To replace the empty roll just swing out the shaft and slide on a new roll.



The smart net roll storage allows a comfortable horizontal loading.



The vertical net roll storage gives an easy access to the transmission of the baler.

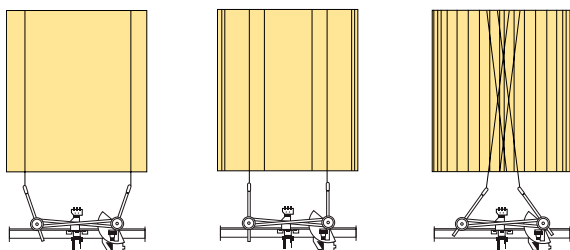




The PowerBind net wrap system allows the net to extend past the edge of the bale.

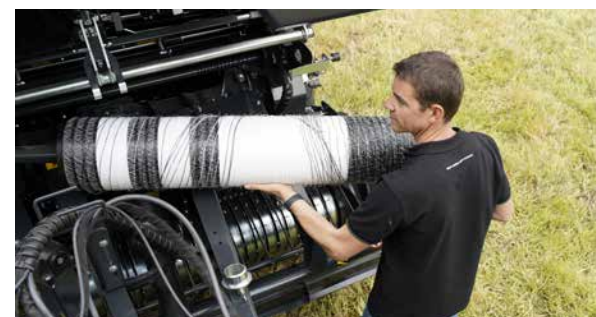


Storage for up to six balls of twine.



### Twine Tying

Automatic twine tying with the fast acting double tube system means simultaneous binding of both edges of the bale, reducing binding time to a minimum. Over crossing of twines in the centre of the bale provides no loose ends at the end of the binding cycle. The system is fully user programmable to make sure you make the best looking bales in all crop conditions.



The very low loading height and the very easy threading of the system mean minimum downtime and maximum time baling.



## SETTING AND CONTROL IN COMFORT

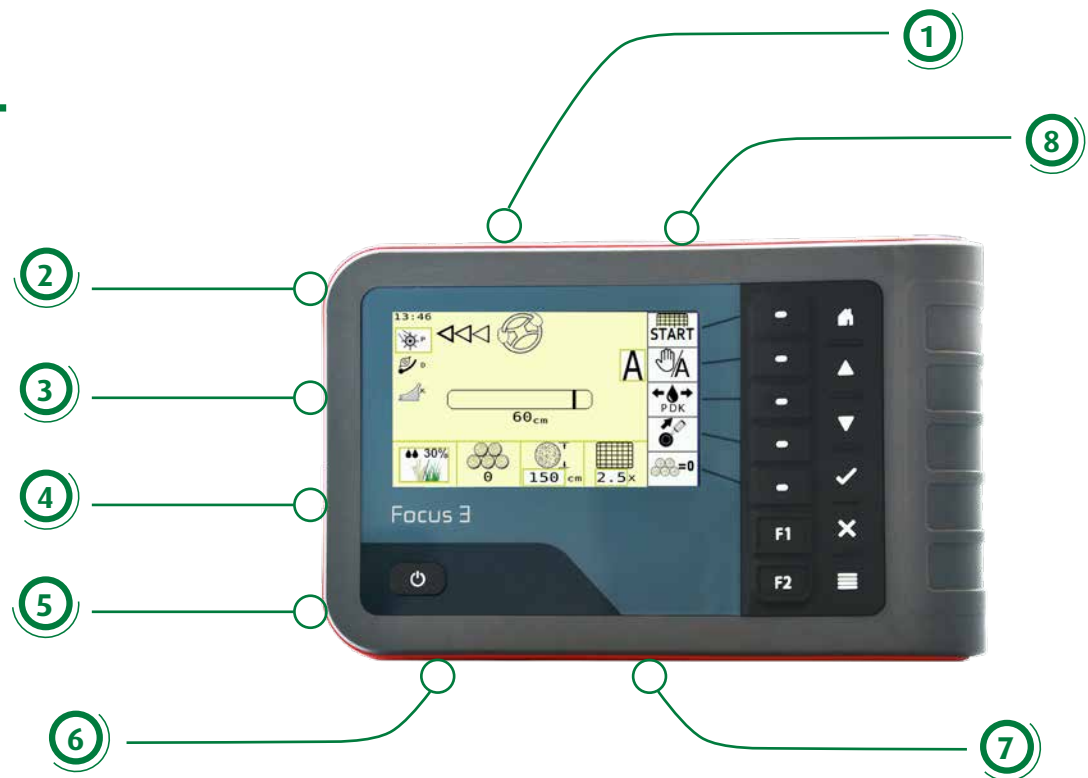
### Easy to Use Control Systems

Kverneland Densus series variable balers feature a simple to use control system *designed to make long working days as relaxing as possible*. Clear colour screen displays with simple graphics show baling information at a glance, with *all important settings made from the comfort of the tractor seat*.

### Focus 3

Designed for easy operation with the following functions operated from the terminal:

- Bale diameter adjustment
- Display of current bale diameter
- Left & Right driving indication
- Selection of net or twine tying
- Net and twine quantity adjustment
- Tying information during tying cycle
- Selection of manual or automatic tying
- Five daily bale counters & total bale counter
- Bale density adjustment
- Selection of knives, drop floor or pick-up (when present)



- |   |                             |
|---|-----------------------------|
| ① Knife, drop floor & pick-up selection                         | ⑤ Current bale size readout |
| ② Bale growth indicator   | ⑥ Daily bale counter        |
| ③ Intelligent Density 3D setting                                | ⑦ Net quantity adjustment   |
| ④ Driving indication for bale shape with steering wheel display | ⑧ Bale diameter adjustment  |





### AUX Compatibility

All our models equipped with ISOBUS are compatible with the ISOBUS AUX. All the function can be assigned to tractor ISOBUS joystick or the IsoMatch Grip joystick.

### IsoMatch (Multi)Eye

IsoMatch Eye and MultiEye are accessories for connecting up to four cameras to any IsoMatch terminal.



### ISOBUS (option)

All models can be optionally specified with full ISOBUS compatibility for direct connection to an ISOBUS tractor, enabling the baler to work through the tractor terminal. In addition to direct connection to the tractor, ISO specified machines can also be supplied with either Tellus GO+ or IsoMatch Tellus Pro touch screen terminals.



### IsoMatch Tellus GO+<sup>\*</sup> – Compact ISOBUS terminal

IsoMatch Tellus GO+ is a full ISOBUS terminal. The compact design makes it easy to integrate in the tractor cab. Tellus GO+ is equipped with a 7-inch touch screen with hard keys combined with a rotary switch for direct access to main functions.

### IsoMatch Tellus Pro terminal\*

The IsoMatch Tellus Pro is a virtual terminal combining two Interface screens in one terminal. The 12" touch screen offers ergonomic use and is designed for clear viewing during long days of operation. With an ever increasing number of functionalities, such as rear view cameras, the Tellus Pro terminal allows the baler interface to be viewed in the top screen, with a camera display to monitor finished bales active in lower part.

(\*) These fully ISO terminals can be fitted on variable chamber balers, provided units are factory ordered with ISOBUS compatibility option.

### Always Connected

Kverneland Sync ensures seamless connectivity to online services, with smooth data transfer to IsoMatch FarmCentre and Kverneland ServiceCentre. Machine tracking, performance reporting, remote service, and enhanced safety are just a few of the benefits that Kverneland Sync delivers.





### Moisture measurement

For added operating convenience the TechnoPack gives continuous real time readout of crop moisture level during baling. During the binding cycle the **average moisture content for the completed bale** is displayed.



## TECHNOPACK\*

### GET TO KNOW MORE ABOUT YOUR BALE

The optional TechnoPack offers professional farmers and contractors the optimum solution in terms of crop harvesting management.

#### TechnoPack

The moisture level of crop entering the bale chamber during the baling process is continuously measured and displayed on the baler terminal.

A sensor plate is mounted in the lower part of the bale chamber, from which the system calculates the percentage of moisture inside the bale. The system is able to detect moisture levels up to 50% allowing the driver to decide at any time if crops such as hay or straw are fit to bale - your assurance of always preserving the best possible forage quality.

*Average moisture content for completed bale is displayed*

#### Bale ramp sensor

Also included in the TechnoPack is a bale ramp sensor which gives a signal when the discharged bale is clear of the bale ramp.

\*Optional equipment



Moisture sensor located inside the bale chamber.

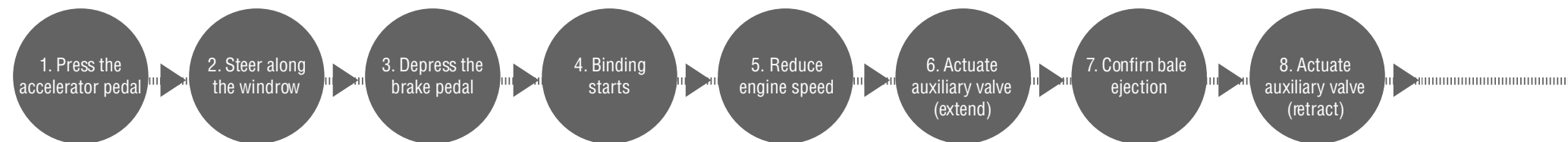


Bale ramp sensor.

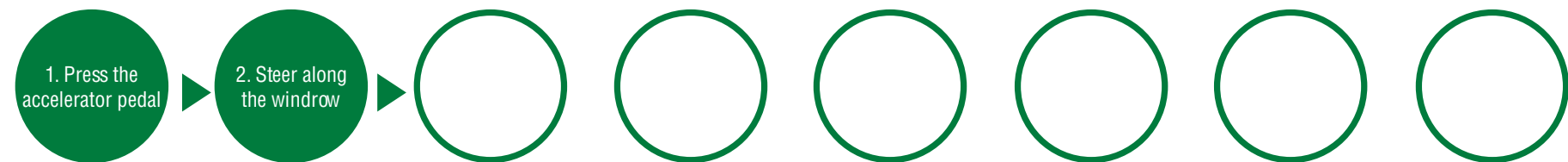




## Fewer actions during baling



Process sequence for standard operation: 10 steps per bale



TIM Baler process sequence with driving speed set by the TIM server: **2 steps per bale**



## TIM BALER\*

### THE IMPLEMENT CONTROLS THE TRACTOR

#### TIM (Tractor Implement Management)

TIM is a cross-product and cross manufacturer ISOBUS solution for the agricultural machinery industry whereby the implement is able to **control certain tractor functions**.

Baling is one of the jobs that requires the greatest **number of actions from the operator**. A Kverneland Densus Series round baler specified with TIM option **handles most of these tasks itself**. As a result, it not only provides a significant gain in comfort and efficiency, but **also ensures consistently high bale quality**.

#### Key advantages in baling

The TIM system really comes into its own in baling operations where the working windows are often **narrow due to weather conditions**. The work is completed more quickly and with a higher bale quality. Contractors and **large farms in particular benefit from the user-friendliness** of the TIM technology, which can be quickly mastered by different operators.

The cost aspect is another factor to bear in mind.

**Highly efficient use of a TIM equipped baler** results in lower costs for parts that wear out, fuel, tyres and so on.

#### Enormous savings in work steps

If the operator **is inexperienced or tired, bale quality and output suffer**. With the help of TIM technology, the baler can perform a number of actions for the driver, meaning a significant increase in comfort. For every 100 bales, **TIM can save up to 800 operations**.

Because the baler opens the tailgate as soon as the bale is tied, **this also increases efficiency**, especially when the operator is tired. If the system detects a completed bale is ready to be released on a slope the driver is alerted and **automatic bale release is paused**. The operator can override the automatic process at any time during baling.

\* Optional equipment



# ORIGINAL PARTS & SERVICE

## LET'S FOCUS ON YOUR BUSINESS

ORIGINAL  
PARTS

- 
- ① LONG LASTING, HIGH QUALITY SPARE PARTS
  - ② OVER 100 YEARS OF PARTS KNOWLEDGE
  - ③ SUPPORT FROM A WIDE NETWORK OF DEALERS
  - ④ 24/7 SPARE PARTS SERVICE
  - ⑤ HIGHLY SKILLED DEALER TECHNICIANS



# MYKVERNELAND

## SMARTER FARMING ON THE GO

### A personalised online platform tailored to your machine needs

With MYKVERNELAND you will benefit from easy access to Kverneland's online service tools.

Receive first hand access to information on future developments and updates, operator and spare part manuals, FAQs and local VIP offers. All information is gathered in one place.



REGISTER YOUR PRODUCT NOW:  
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# TECHNICAL DATA

	Densus Variable Chamber Series					
Model	Densus 7060 EF	Densus 7060 PF	Densus 7060 CF15	Densus 7090 EF	Densus 7090 PF	Densus 7090 CF15
<b>Weight and dimensions</b>						
Length (m)	4.590	4.590	4.590	4.590	4.590	4.590
Width (m)	2.520	2.520	2.520	2.520	2.520	2.520
Height (m)	2.780	2.780	2.780	2.780	2.780	2.780
Weight (kg)	3300	3600	3850	3500	3800	4050
<b>Bale Dimension</b>						
Ch. technology	4 endless belts	4 endless belts	4 endless belts	4 endless belts	4 endless belts	4 endless belts
Diameter min. / max. (m)	0,70 / 1,65	0,70 / 1,65	0,70 / 1,65	0,70 / 1,85	0,70 / 1,85	0,70 / 1,85
Width (m)	1.23	1.23	1.23	1.23	1.23	1.23
Tear drop plate	○	○	○	○	○	○
<b>Pick-up</b>						
Working width (m)	2.00	2.30	2.30	2.00	2.30	2.30
Tine to tine width (m)	1.62	1.98	1.98	1.62	1.98	1.98
Tine rows (nb)	4	5	5	4	5	5
Tines per row (nb)	28	34	34	28	34	34
Tine spacing (mm)	60	60	60	60	60	60
Roller crop press	●	●	●	●	●	●
Cam clutch protection	●	●	●	●	●	●
2 Pneumatic gauge wheels	●	●	●	●	●	●
<b>Intake</b>						
EasyFeed open throat	●	-	-	●	-	-
PowerFeed rotor	-	●	-	-	●	-
ChopFeed 15 knives	-	-	●	-	-	●
Single knife protection	-	-	●	-	-	●
Parallelogram DropFloor	-	●	●	-	●	●
<b>Driveline</b>						
Integrated one piece gearbox	●	●	●	●	●	●
Main drive protection	Cam Clutch	Cam Clutch	Cam Clutch	Cam Clutch	Cam Clutch	Cam Clutch
Main drive chains	HBC 1 ¼"	HBC 1 ¼"	HBC 1 ¼"	HBC 1 ¼"	HBC 1 ¼"	HBC 1 ¼"
Automatic chain lubrication system	●	●	●	●	●	●
Centralized greasing system	●	●	●	●	●	●
Belts double drive rollers	-	●	●	-	●	●



	Densus Variable Chamber Series					
Model	Densus 7060 EF	Densus 7060 PF	Densus 7060 CF15	Densus 7090 EF	Densus 7090 PF	Densus 7090 CF15
PowerBind binding systems						
Net (storage)	1+2 rolls	1+2 rolls	1+2 rolls	1+2 rolls	1+2 rolls	1+2 rolls
Net & Twine (storage)	1+2 rolls/ 6 balls	1+2 rolls/ 6 balls	1+2 rolls/ 6 balls	1+2 rolls/ 6 balls	1+2 rolls/ 6 balls	1+2 rolls/ 6 balls
Electronics & controls						
Non Isobus controls	Focus III terminal	Focus III terminal	Focus III terminal	Focus III terminal	Focus III terminal	Focus III terminal
Isobus compatibility	○	○	○	○	○	○
IsoMatch terminals	Tellus Go+ / Tellus Pro	Tellus Go+ / Tellus Pro	Tellus Go+ / Tellus Pro	Tellus Go+ / Tellus Pro	Tellus Go+ / Tellus Pro	Tellus Go+ / Tellus Pro
Chamber filling indicators	●	●	●	●	●	●
TechnoPack bale eject. & humidity indicators	○	○	○	○	○	○
TIM compatibility	○	○	○	○	○	○
Wheels and Axles						
15.0/55-17	●	●	●	●	●	●
500/50-17	○	○	○	○	○	○
550/45-22.5	○	○	○	○	○	○
Air brakes	○	○	○	○	○	○
Others						
Linkage position	Adj. drawbar (low / high)	Adj. drawbar (low / high)	Adj. drawbar (low / high)	Adj. drawbar (low / high)	Adj. drawbar (low / high)	Adj. drawbar (low / high)
PTO (rpm)	540	540	540	540	540	540
Bale ramp	○	○	○	○	○	○
Hydraulic outlets	1 SA 1 DA	1 SA 1 DA	1 SA 1 DA	1 SA 1 DA	1 SA 1 DA	1 SA 1 DA
Recommended tractor power (kW/hp)	42/55	45/60	56/75	48/65	52/70	60/80

- Standard equipment
- Option
- Not available

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