High Performance Variable Chamber Balers
High Capacity Balers with Industry Defining Bale Density
A step up in power, comfort and reliability – the RV 5100 series features everything you need to get the job done, including new Powerbind net and twine binding systems and stylish new shielding design.

Bale Diameter of 1.20 x 0.80 – 1.65/1.80m

The defining feature of RV 5200 series balers is the 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 requirements.

Bale Diameter of 1.20 x 0.60 – 1.65/2.00m

The FlexiWrap offers you the best solution for integrated baling and wrapping in one go. High speed wrapping ensures that wrapping is finished before the next bale is ready – fast and efficient one man operation.

Bale Diameter of 1.20 x 0.60 – 1.65/2.00m

**RV 5116 – RV 5118**

**RV 5216 – RV 5220**

**RV 5216 / RV 5220 FlexiWrap**
Add Value to Your Bales
Efficient
High density bales means putting more material into each bale, being it silage, hay or straw. More material into each bale combined with massive bale diameter of up to 2.00m inevitably means reduced production cost in terms of baling and wrapping, with significant reduction of cost for twine, net and stretch film and not to forget the time spent on carting and stacking the bales.

Intelligent
Accurate control of the bale pressure is essential to achieve correct bale density. Every crop is different - and with Vicon Intelligent Density 3D you get to choose what’s best for your crop conditions. Three separate zones each with a choice of diameter and pressure let you perfectly tailor the structure of the bale to your requirements. Intelligent Density 3D takes the guesswork out of baling.

Versatile
The bale chamber of Vicon RV series work well in silage, hay and straw. RV 5100 from 0.80m up to 1.65 and 1.80m respectively and RV 5200 series offers bale diameter from 0.65m up to 1.65 and 2.00m respectively. The bale diameter is easily adjusted through the control terminal.
Clean Up with Vicon
High capacity pick-up reel
The low profile Vicon pick-up provides clean raking performance in all crop conditions. Despite the generous working width, transport width is dependent only on road wheel specification, thanks to an innovative inboard driveline design, which means there is no need to remove the pick-up guide wheels for road transport.

2.00m Wide pick-up - Single fork feeder models
Featuring four tine bars with centre support bearings, the rugged design provides fast throughput, while the standard fitment of a crop deflector ensures efficient crop flow into the bale chamber.

2.2m Extra wide pick-up – Double fork feeder and rotor intake models
Equipped with five tine bars, each with twin supports along their length and a cam track at either end, the Vicon XL super wide pick-up is specified for assured top performance and long term durability in all conditions. A large diameter roller crop press provides uniform crop flow, allowing increased intake speeds.

Large diameter roller crop facilitates higher intake speeds.

Guide wheels with generous flotation tyres and simple height adjustment.
Superior intake Capacity

Single or Dual Fork Feeder
RV 5100 models can be specified with a cost efficient fork feeder intake system. This provides direct feed transfer into the bale chamber, while the wide opening allows almost unrestricted intake capacity. The fork feeder is provided with a crop press to ensure a regular crop flow and it is particularly suited for fragile crops like clover. The optional DuoFeed with its double feed tines ensures high capacity and output, while still safeguarding fragile crop types.
**PowerFeed rotor intake for ultimate capacity**

Impressive intake capacity can be achieved with the Vicon PowerFeed rotor intake system - handling both wet and dry crops with ease, whatever the conditions. The PowerFeed rotor with its’ 14 fully guided rotor fingers proactively forces the material into the bale chamber for higher intake speed and capacity, proving instant bale start and evenly shaped bales.

**SuperCut-14**

The SuperCut-14 knife chopping system provides a fast and efficient crop flow into the baler. With a chopping length of 70mm it is the ideal solution for producing tight, dense bales. Improved fermentation and easier feeding of bales are just two of the benefits pre-chopping can provide. Each individual knife is spring protected against foreign obstacles. The knife automatically returns to its work position once the obstacle has passed.

**SuperCut-25**

The SuperCut-25 knife pre-chopping system offers the ultimate solution for short chop baling with a chop length of 40mm. The short and precise chop provides dense and airtight bales for the best possible silage quality. The operator can choose to engage 25, 13, 12, 6 or 0 knives, giving maximum flexibility of operation. For instance it is possible to use half the knives in the morning in difficult and demanding conditions and the remaining half in the afternoon, allowing a full day of baling to be achieved with optimum chop quality.

**Dual Action Knife Protection**

The SuperCut-25 knife system is fitted with dual action protection against foreign objects. Each knife is individually spring protected and can move in two directions. If a smaller obstacle hits the knife, it will pivot backwards without losing cutting quality. If a larger obstacle hits the knives they can pivot downwards into a safe position. The knife will automatically return to working position once the obstacle has passed.

**Parallelogram DropFloor system for easy unblocking**

Whichever rotor or pre-chopping intake system you choose, your Vicon baler (*) comes equipped with the new Vicon Parallelogram drop floor system, which brings faster and easier clearing of blockages from the comfort of the tractor cab. This patented system not only lowers the rear edge of the drop floor as per traditional systems, but also provides additional space under the front section of the floor, where the blockage is more likely to occur.

(*) Not available on RV5116F/5116FD/5118F/5118FD

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**Easier removal of all blockage types = More productive time spent baling**

Drop Floor in working position.  
Drop Floor in mid position.  
Drop Floor in fully lowered position.
PowerBind: Fast and Efficient Twine and Net Wrapping

Great Looking Bales - Time after Time
You’re sure to leave a field of great looking bales every time you finish a job. Vicon’s front mounted net and twine systems ensure neat and tidy looking bales that are tightly wrapped. This ensures perfect storage and easy handling.

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.

Both outside twines fed together. Twine evenly spaced across bale. Twines crossed over in centre - no loose ends.

Twin tube fast operating twine binding system. Twine box.
Convenient easy access storage for net and twine for long working days.

PowerBind Net Wrap

The RV 5000 series comes with the patented Vicon PowerBind net wrap system. The system has been simplified in a number of ways compared with traditional systems, with feed rollers having been completely eliminated. Additionally PowerBind provides one of the fastest net wrap actions available. This means minimum downtime and maximum time baling.

The net is fed directly into the bale chamber by an injection arm in a flat movement angle keeping the net tight at all times and providing accurate and extremely reliable net injection.

The net is continuously retained by the injection arm. When the bale is 90% complete the injection arm moves forward, ready for the net injection. This adds to reliability and productivity as no time is spent picking up the net. In fact Vicon PowerBind is one of the fastest net wrapping solutions available today, adding more uptime.

In addition PowerBind offers very low loading height, for maximum convenience and time saving. To replace the empty roll just swing out the shaft and replace it with a new roll.

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When the bale is 90% complete the injection arm moves forward ready for the net injection.

When the bale is finished the injection arm instantly places the net into the bale chamber. Once net is injected, the brake moves down on to the net roll to tension the net.

During the wrapping phase the feeder arm moves back to its’ waiting position. Once the bale is wrapped the knife is activated, cutting the net.

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

The very low loading height and the very easy threading of the system mean minimum downtime and maximum time baling.
The following functions are operated with the control terminal:

- Bale diameter.
- Density and soft core adjustment on the 5200 series.
- Bale growth indicator.
- Bale shape indication allowing the operator to adjust the driving pattern for optimal bale formation.
- Twine or net tying selection.

- Twine and net tying adjustment: number of net wraps, quantity of twine (on side, middle and centre).
- Tying information during binding cycle.
- Manual or automatic tying mode, giving maximum control to the operator.
- Bale counter that can save up to 42 bale counts: huge possibility to record values from different fields.
- Hydraulic selection between pick-up, knives or Drop Floor function.

The IsoMatch Tellus Go and IsoMatch Tellus terminals can also be used with other ISOBUS compatible implements.
Focus Control Terminal
The Vicon Focus terminal is easy to learn and very intuitive, with focus on functionality and operating simplicity. The Focus terminal is a universal control terminal which also can be used with other implements from Kverneland Group. The Focus terminal gives you full control of all functions from the tractor cab. They are shown on a large and very clear digital display. The Focus terminal monitors and controls all necessary functions with all relevant parameters/information visible at a glance. The control box is also driving the binding automatically without any intervention from the operator.

IsoMatch Tellus GO*
– Compact ISOBUS Terminal
IsoMatch Tellus GO is a full Isobus terminal able to control all Isobus machines in a very simple way. The compact design makes it easy to integrate in the tractor cab despite the comfortable 7-inch touch screen allowing perfect machine set-up and control. With hard keys combined with the rotary switch on right hand side, for direct access to main functions while driving. Control of implements has never been so easy.

(*) These fully ISO terminals can be fitted on the 5100 series balers, provided units are factory ordered with Isobus connection kit.

IsoMatch Tellus Terminal*
The IsoMatch Tellus is a virtual terminal offering two Interface screens in one terminal. The large 12” easily programmable touch screen offers ergonomic use and is designed for long days of operation. Due to the increasing number of functionalities that can be added to a machine, such as cameras, the operator can use the baler interface in the top screen and a camera display in the bottom screen, to monitor finished bales. Another possibility is to use the baler interface in the top screen and the tractor interface screen at the bottom.

ISOBUS - Get Connected

ISOBUS 11783
The RV 5216 and RV 5220 are fully ISOBUS 11783 compliant. This means that they will plug directly into an ISOBUS compatible tractor without the need for a separate terminal. Standardisation of controls, easier connection between tractors and implements, together with potential lower machine purchase costs are just some of the benefits that the ISO 11783 standard bring you.

Kverneland Group Mechatronics lead the field in the implementation of the ISOBUS standard and are founder members of the Agricultural Electronics Federation (AEF) which continues to develop and promote ISO technology in agriculture.

All major tractor and machinery manufacturers are committed to this standard with ever increasing numbers of tractors and machines now fully ISO certified - your assurance of a future proofed machine. When operating with an ISO 11783 compatible tractor, an additional implement specific control box is not required, saving on cost and complexity.

The majority of new tractors are currently still not supplied as standard with full ISO compatibility, so the RV 5216 and RV 5220 can be supplied with the Focus terminal, or can be optionally specified with the high end IsoMatch Tellus GO and IsoMatch Tellus colour terminals.
The Vicon RV 5116 and RV 5118 produce great quality bales in silage, hay and straw. The two versions offer bale diameters from 0.80m up to 1.65m and 1.80m respectively.

The bale diameter is easily adjusted from the control terminal. The chamber is set to provide dense bales with a moderate core and tight outer layer, while pressure setting can be adjusted manually.
Fork Feeder or PowerFeed rotor for high intake speed.

Heavy duty chain drive and split driveline for even power distribution.

5 wide laced belts.
Well-Shaped Dense Bales with a Moderate Core

A combination of 5 belts and front rollers provides dense bales with a soft core and an easy bale start.

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

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

* Optional proportional valve required

Diameter 1
Diameter 2
Diameter 3

P3
P2
P1
The RV 5100 bale chamber is equipped with a combination of three rollers and five wide laced belts. This mixed chamber ensures a smooth bale start whatever the intake system, offering smooth bale rotation and reduced crop loss, even in dry conditions.

The two aggressive front rollers that come in contact with the crop are constantly cleaned by scraper rollers and are designed to perform well in all conditions. They ensure instant and efficient bale start with every type of crop.

The small pre-chamber at the start of the bale formation ensures well-shaped and dense bales with a moderate core and tight outer layers.

As the bale grows, the belt tensioning arm is subjected to steadily increasing resistance from two hydraulic cylinders and a spring tensioner. As the bale diameter grows, so does the bale’s density.

The result is a very firm bale with a moderate core. Straw bales will be more tolerant to poor weather conditions, while silage bales will maintain their shape for improved stacking and easier handling.

Main bale chamber drive is by heavy duty 1 1/4” pitch chain for longer lifetime and reduced maintenance.

Automatic chain lubrication is standard with lubrication activated continuously at a predetermined level for each individual chain.

The split drive gearbox on rotor equipped models ensures that power is distributed evenly, reducing wear and power requirement.
VICON RV 5216-5220

The bale chamber of the Vicon RV 5216 and RV 5220 is designed for multi-crop use, and is equally at home in silage, hay and straw.

With the new Intelligent Density 3D, setting of bale density is made very easily with three preselectable options for straw, hay and silage, set from the control box.

It is also possible to customize the bale density in three separate zones yourself, each with a choice of diameter and pressure to let you perfectly tailor the structure of the bale to your requirements.
ISOBUS control for easy and intuitive control and monitoring of main functions.

2.20m wide pick-up with small diameter reel for fast and efficient throughput.

New PowerBind with direct net injection for fast and highly reliable netting.

Parallelogram DropFloor for easy and fast unblocking of crop blockages.
Intelligent Density 3D - The Smartest Way to Perfect Bales

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 with three pre-selectable bale density settings making it very easy to choose the correct bale density in different crops.
How the Baling Chamber works

The Intelligent Density bale chamber offers a combination of three rollers and five endless belts, offering smooth bale rotation and reduced crop loss, even in dry conditions.

The two aggressive front rollers that come in contact with the crop are constantly cleaned by a scraper and are designed to perform well in silage. They ensure instant and efficient bale start with immediate bale formation in all crop conditions.

As the bale grows, the belt tensioning arm is subjected to steadily increasing resistance from two hydraulic cylinders and two spring tensioners. As the bale diameter grows, so does the bale’s density.

The result is a higher density bale with a smaller and denser core. Straw bales will be more tolerant to poor weather conditions, while silage bales will maintain their shape for improved stacking and easier handling.

The RV 5216 and RV 5220 are fitted with five durable endless belts without joiners offering smooth running and low maintenance.

The two front rollers with self-cleaning scrapers are designed to work well in silage and provide instant bale formation.
A One-Man Baling and Wrapping Combination
The Vicon FlexiWrap combines high density bales, fast and accurate bale transfer with a high speed twin satellite wrapper. It is the ideal solution for a one-man operation. It incorporates the RV 5216 or RV 5220 with a twin satellite wrapper, all firmly mounted onto a strong and durable chassis with tandem axles. This combination is designed for working in demanding conditions, and the unique bale transfer solution ensures trouble free operation, even on steep slopes.

Fast and Accurate Bale Transfer
Once the net is applied to the bale the wrapping table is transferred to the tailgate of the baler unit, ready to receive the finished bale. When the tailgate opens the bale is dropped directly onto the wrapping table (no interfering steps from baler to wrapping table). This provides a very safe bale transfer with no risk of the bale rolling off the wrapping table, even when working in very hilly conditions. When the bale is onto the wrapping table it is transferred quickly to the satellite wrapper, and wrapping starts instantly.

High Speed Wrapping
The wrapping table with 4 endless belts and rollers carries and rotates the bale evenly during wrapping with no risk of film damage. The twin pre-stretchers ensure high speed wrapping, so the wrapping process will finish on time before the new bale is ready. The pre-stretchers are positioned close to the bale, to limit the amount of air trapped under the film during wrapping.
Once the bale is wrapped, it can be unloaded automatically or manually during formation of the next bale. The manual option gives the driver the possibility to drop the bale where most suitable, for instance so bales are all dropped in line for easy pick-up. The low mounted wrapping table ensures gentle unloading of the bales. In addition the Vicon FlexiWrap can be fitted with a bale on end kit. The bale is tipped off gently on its end, where the highest number of film layers is applied.

Once the net is applied to the bale the wrapping table is transferred to the tailgate of the baler.

The bale is dropped directly onto the wrapping table.

As soon as the bale is transferred away from the baler, the tailgate automatically closes, and baling of the next bale can start.

The wrapping table moves very fast to the pre-stretchers and wrapping starts instantly.
Strong and Durable Chassis Design

The FlexiWrap baler wrapper combination is firmly mounted onto a strong and durable chassis. Load and weight are evenly distributed for maximum stability, for instance thanks to the low position of the wrapping table. The tandem axle with 500/50-17 tyres provides very good stability when operating in the field or when running on the road.

Twin satellite wrapper with 2 pre-stretchers and 4 endless belts for fast and stable wrapping.

The extra stretch film storage is lowered hydraulically for easy change.
Bale-on-end kit is available as option. During transport the kit is automatically transferred into a safe position inside the wrapping unit.
## Technical Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>RV 5116F</th>
<th>RV 5116FD</th>
<th>RV 5116R</th>
<th>RV 5118F</th>
<th>RV 5118FD</th>
<th>RV 5118R</th>
<th>RV 5216 R</th>
<th>RV 5216 SC14</th>
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<td>Support rollers / belts (nb)</td>
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<td>Film pre-stretcher</td>
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<td>Film roll magazine</td>
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<td>Bale-on-end kit</td>
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<td><strong>Operations</strong></td>
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<td>Focus terminal</td>
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<td>Hydraulic outlets</td>
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<td>1SA+1DA</td>
<td>1SA+1DA</td>
<td>1SA+1DA+R</td>
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<td>11.5/80-15</td>
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<td>Air brakes</td>
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<td><strong>Others</strong></td>
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<td>Reversible drawbar</td>
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<td>PTO (rpm)</td>
<td>540</td>
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<tr>
<td>Min. power requirem. (kW/hp)</td>
<td>38/55</td>
<td>38/55</td>
<td>45/64</td>
<td>45/64</td>
<td>45/64</td>
<td>52/70</td>
<td>45/64</td>
<td>55/75</td>
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* = Standard  o = Optional  - = Not available
RV 5216 SC25 | RV 5220 R | RV 5220 SC14 | RV 5220 SC25
---|---|---|---
4.48 | 4.75 | 4.75 | 4.75 | 7.40 | 7.40 | 7.40 | 7.40
2.52 | 2.52 | 2.52 | 2.52 | 2.99 | 2.99 | 2.99 | 2.99
2.70 | 2.82 | 2.82 | 2.82 | 2.90 | 2.90 | 3.00 | 3.00
3520 | 3340 | 3600 | 3920 | 6050 | 6320 | 6400 | 6720
0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60
1.65 | 2.00 | 2.00 | 2.00 | 1.65 | 1.65 | 2.00 | 2.00
1.20 | 1.20 | 1.20 | 1.20 | 1.20 | 1.20 | 1.20 | 1.20

Hydraulic outlets 1SA+1DA 1SA+1DA 1SA+1DA 1SA+1DA 1SA+1DA 1SA+1DA 1SA+1DA+R 1SA+1DA+R
IsoMatch Tellus terminal o (requiring Isobus compatibility kit) o o
IsoMatch Tellus Go terminal o (requiring Isobus compatibility kit) o o
Focus terminal

Operations
Bale-on-end kit
Film roll magazine
Support rollers / belts (nb)

Wrapping Unit
Net only variant 3 rolls 3 rolls 3 rolls 3 rolls 3 rolls 3 rolls 3 rolls 3 rolls
Twine only variant 8 balls 8 balls 8 balls 8 balls 8 balls 8 balls 8 balls

Binding (PowerBind)
Cam clutch protection o o
Shear bolt protection

11/4" chains
Driveline
Drop floor
Knife group selection
Knife protection (on each knife)
SuperCut 25 knives
SuperCut 14 knives
PowerFeed Rotor
DuoFeed Fork Feeder
Fork Feeder

Intake
Pneumatic gauge wheels
Roller crop press
Crop deflector

Tine spacing (mm) 60 60 60 60 60 60 60 60
Tine rows (nb) 4 5 5 4 5 5 5 5
Working width (cm) 200 220 220 200 220 220 220 220
Bale ramp o o o o o o o o
Greasable roller bearings (central)
Belt width (mm) 220 220 220 220 220 220 220 220
Width (m) 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20
Diameter max. (m) 1.65 1.65 1.65 1.80 1.80 1.80 1.65 1.65
Diameter min. (m) 0.80 0.80 0.80 0.80 0.80 0.80 0.60 0.60
Bale chamber
Weight (kg) 2650 2700 2840 2700 2750 2890 2990 3250
Height (m) 2.70 2.70 2.70 2.78 2.78 2.78 2.70 2.70
Width (m) 2.52 2.52 2.52 2.52 2.52 2.52 2.52 2.52
Length (m) 4.48 4.48 4.48 4.48 4.48 4.48 4.48 4.48

Weight and dimensions
Model RV 5116F RV 5116FD RV 5116R RV 5118F RV 5118FD RV 5118R RV 5216 RV 5216
= Standard    o = Optional   - = Not available

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Kverneland Group

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Kverneland Group spare parts are designed to give reliable, safe and optimal machinery performance - whilst ensuring a low cost life-cycle. High quality standards are achieved by using innovative production methods and patented processes in all our production sites.

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