RV 2160 - RV 2190 - RV BalePack

Variable Chamber Round Balers



Specialist in the Art of Baling



Leader in baling technology
The ability to produce top quality bales in all crop conditions sets Vicon RV balers apart from all others. Perfect shaped bales, combined with huge output and outstanding long durability, ensure that an RV baler will be a profitable investment. Vicon has many years of experience in round baler technology and this knowledge has been put to good use, to ensure ease of operation over long working days while achieving consistently high daily outputs.

Profitable operation
Bale quality and density are fundamental to the profitable operation of a round baler. Unique Vicon innovations such as Progressive Density and Integral Rotor Technology make a real difference in field performance. Vicon RV balers have the ability to pack the absolute maximum into each bale, increasing the potential for profitable operation by reducing the cost per ton of crop baled, whether operating in silage, hay or straw.

Service
Vicon RV balers are designed to keep service requirements to an absolute minimum. In the event of a breakdown, an extensive network of professionally trained dealers is fully qualified to provide expert support.

Spare parts supply
Kverneland Group world wide spare parts back-up is second to none, with a sophisticated distribution network designed to reduce downtime by keeping lead times to a minimum.



Optimum Throughput

Up to 2.3m intake width
The Vicon RV Balers offer swath collection from a 2.1m or 2.3m wide, fully galvanised pickup that efficiently gathers the heaviest of swaths at high forward speeds.

Integral Rotor – a constant flow of crop for optimum throughput
Vicon's Integral Rotor Technology raises intake performance to a new level.
Large diameter, heavy duty auger flights are incorporated directly onto the outer sections of the rotor.

Crop is positively handled by three rows of feeding tines arranged in a helix pattern, maintaining an even feed, regardless of variations in swath condition. This means the heaviest of swaths are force-fed through the intake system, resulting in higher forward speeds for outstanding productivity.

Smooth crop flow
Large diameter, height adjustable guide wheels with pneumatic tyres carry the spring balanced pickup over every ground contour, resulting in the cleanest raking job.
A crop baffle plate above the pickup helps to even out the flow of material, pre-compressing the crop in front of the rotor regardless of conditions. For the most awkward swaths, the baffle plate can be equipped with a roller press to guide it over the swath for even smoother material flow.





Four Different Intake Systems

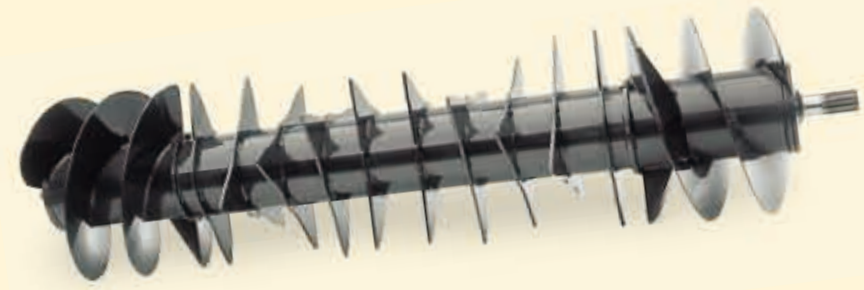
Designed for the Biggest Swaths



Open throat

Open throat

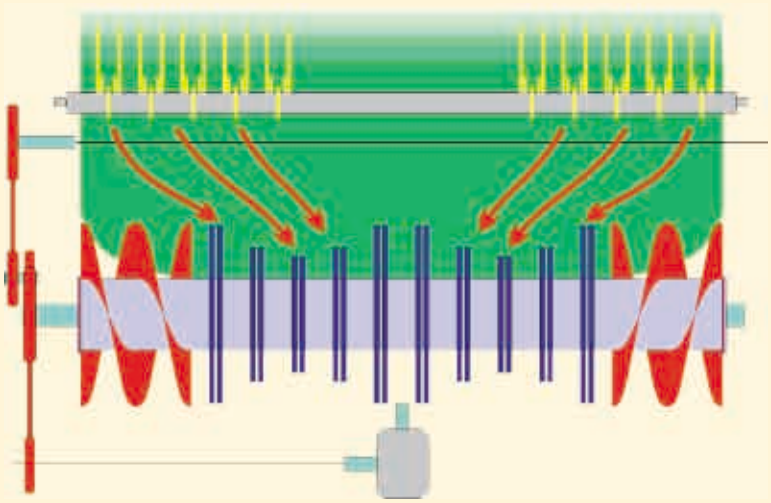
The wide pickup allows easy handling of the heaviest of swaths produced by high capacity combines and mower conditioners.
With the open throat bale chamber design, there is no restriction when feeding crop into the baler, all of which contributes to high, in-field performance.



Rotor intake

Optifeed Rotor

The OptiFeed intake rotor with triangular feeding tines and integrated augers provides a positive flow of crop into the bale chamber.



Integral Rotor Technology

Vicon's integration of a feed rotor into the pick-up raises intake performance to a new level. Large diameter, heavy duty auger flights are incorporated directly onto the outer sections of the rotor, giving the crop nowhere to go, but inside the baler.

Vicon OptiCut System with 14 or 23 Knives



The 14-knife OptiCut crop cutting system delivers a chop length of 70mm

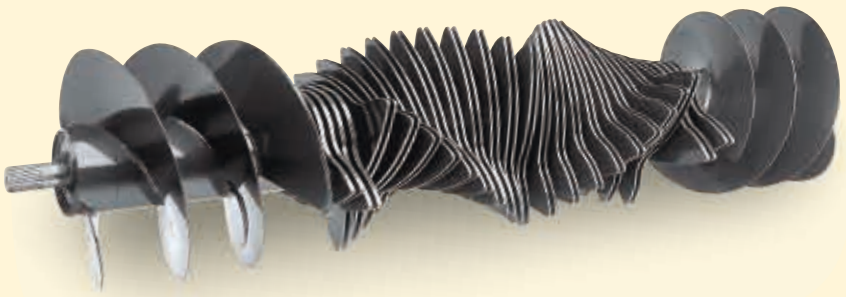
Vicon OptiCut 14

Equipped with three rows of tines, the integral rotor used by the 14-knife OptiCut system is designed for maximum throughput.
Bulky crops or light swaths are force-fed into the bale chamber.
The 14-knife OptiCut chopping system creates a chop length of 70mm. Knives and scrapers overlap across the prechopping area for maximum efficiency.









The SuperSilage crop cutting system with 23 knives delivers a chop length of just 45mm

Vicon SuperSilage 23

SuperSilage, exclusive to Vicon, combines the benefits of intensive cutting with 23 knives and the simplicity of mechanical protection.
Each pair of knives is spring protected against damage from hidden foreign objects in the swath.







OptiCut 23 with HydroProtect

For those who want ultimate flexibility, Vicon offers the OC23 HydroProtect. The knives are individually protected against foreign objects by a dual circuit hydraulic system with twin accumulators. Any obstruction simply pushes the affected knife to its retracted position, with the accumulator restoring the knife to its working position as the obstruction passes. Where crop chopping is required, the operator can choose to engage all 23 knives or can select alternate banks of 11 or 12 knives, so that in difficult conditions one half of the set can be used in the morning and the other half in the afternoon, maintaining chop quality throughout a long days work.

Instant Bale Starting in all Crop Conditions

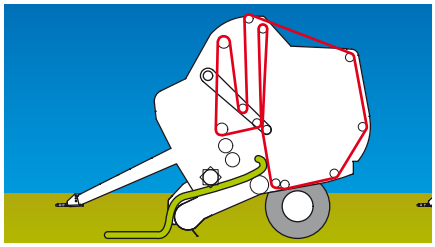


With the emphasis on continually improving bale quality and machine performance Vicon introduces two new variable chamber round balers for use in silage, hay and straw.

Badged the RV 2160 and RV 2190, the new balers offer bale diameters extending from 0.8m up to 1.6m and 1.85m respectively.

Improved bale rotation

Bale formation has been refined by the use of belts and rollers to start the bale. In this pre-chamber, in which moderate or soft cores can be chosen, an immediate bale start is guaranteed. The combination of powered bale rollers and five “Multi-grip” wide-section belts, reduces crop losses and improves bale rotation.





PROGRESSIVE DENSITY

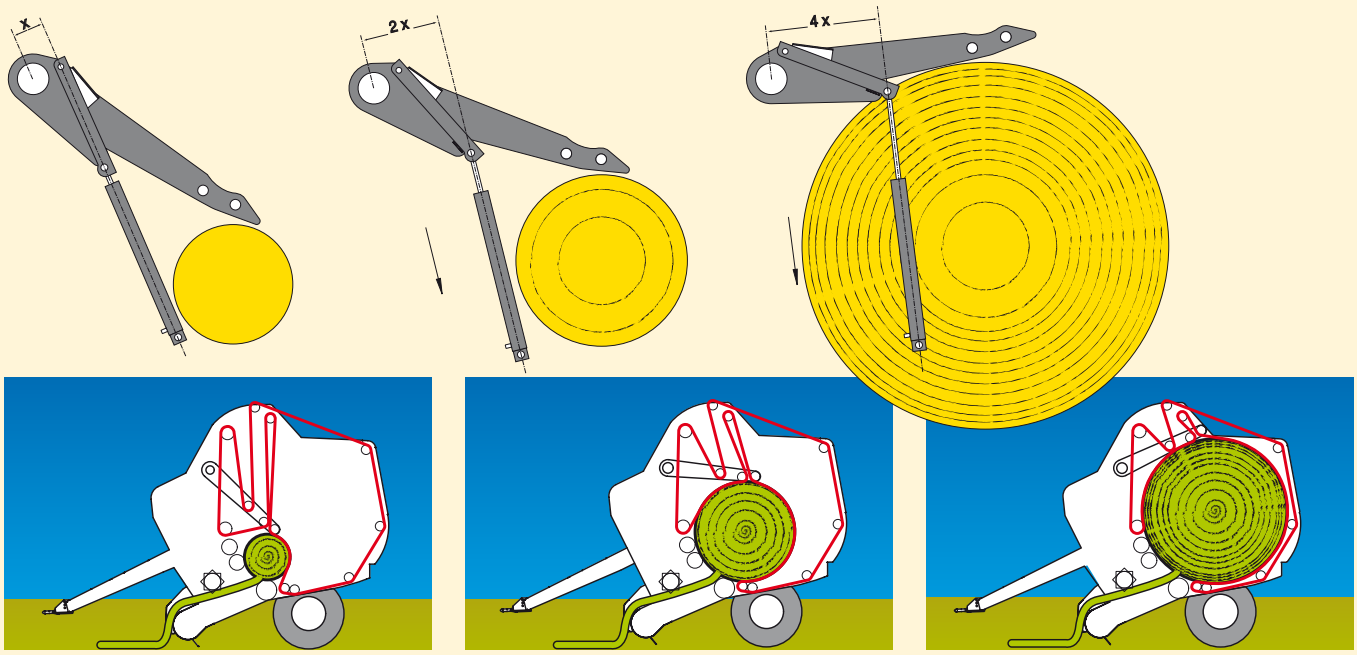
High Density Bales with a Moderate Core

Progressive density bale formation

Key to the latest generation RV balers is the development of a progressive density bale formation system for improved bale structure. As the bale grows within the bale chamber, the belt tensioning arm is subjected to steadily increasing resistance from two hydraulic cylinders and a spring tensioner. So as the bale diameter grows, so does the bale's density. The result is a very firm bale with a moderate core - not too soft, or too hard. With a tougher outer shell, straw bales will be more tolerant to poor weather conditions, while silage bales will maintain their shape for improved stacking and easier handling.







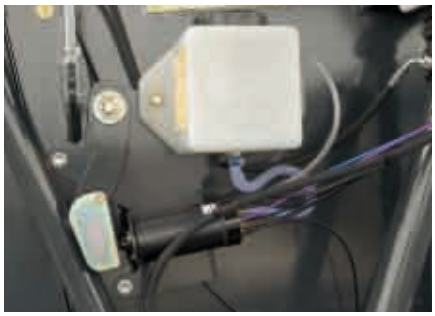
As the bale grows, the belt tensioning arm is subjected to steadily increasing resistance from two hydraulic cylinders and a spring tensioner. So as the bale diameter grows, so does bale density.



Robust Driveline







Simple driveline
By opening the side doors, access to the RV baler's simple but robust driveline becomes very easy. The heavy duty 1 1/4" chains are designed for the toughest conditions but require the minimum of maintenance.

Active chain lubrication
Every time a bale is produced, the chains get a shot of lubrication. Adjustment of the amount of oil on eeach chain can individual be adjusted.

Total Operator Control







AutoPlus - simplified in-cab controls

The AutoPlus in-cab control box provides clear, easy to read information on the baling and wrapping process. Choose from net or twine tying, select the number of wraps, activate the crop chopping system, pick-up or bale counter - all functions can be preset with ease and monitored through the control box. The system can be switched between manual or automatic modes at the touch of a button to suit conditions. An integral magnet and hook means the AutoPlus control box can be quickly installed in the cab without tools.





Isobus

The new RV 2160 and RV 2190 balers are 2007 ISOBUS compatible. That means when your tractor is also ISOBUS compatible, you won't need a separate control box for the baler. Those who don't have ISOBUS compatible tractors can use Vicon's Focus or Tellus control boxes.

Focus

With the Focus terminal you have total control shown on a large, clear display.
With large soft-touch buttons on the Focus terminal, baler adjustments can be easily made from the comfort of the tractor cab.
The Focus terminal controls and monitors the bale growth, bale tying and rear door operation. The system also warns of baling errors.

Tellus

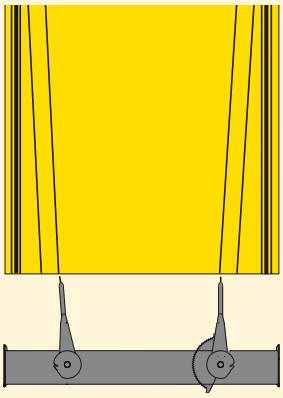
The ISOBUS compatible Tellus terminal gives increased clarity with a full-colour screen. Machine adjustments can easily be made with the intuitive, large soft-touch keys. The Tellus terminal can also be used with many other ISOBUS compatible machines.

A Neatly Tied Package
Bale after Bale, after Bale...

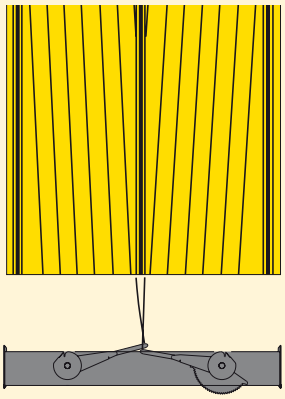
Twine tying system

The twine binding system reduces overall cycle times and leaves bales neat and tidy. The cycle starts with both twine tubes moving from the centre to the outside of the bale, applying the end wraps first. Then gradually working back to the centre of the bale, the arms finally cross over each other during the final stages in the centre of the bale, before the twine is cut.

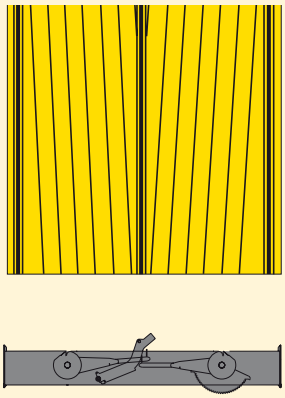




Both outside twines fed together



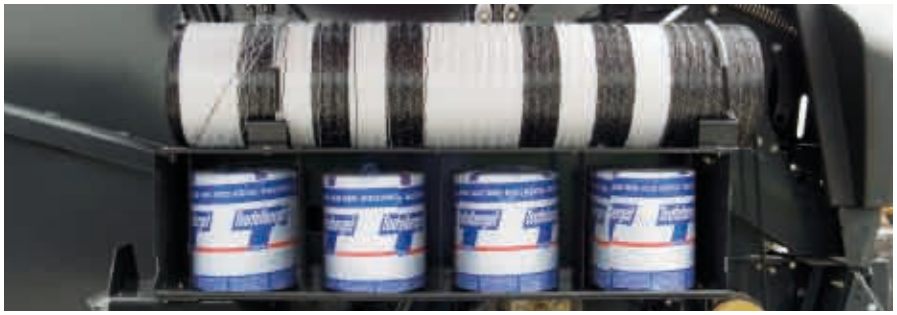
Centre twines overlapped



No loose ends at edge of bale

Twine or net

For those baling in different situations, Vicon offers both twine and net tying systems on the RV balers. By selecting the correct option in the control box, you can choose from either net or twine tying.





Net binding system

With the new RV balers, Vicon has revolutionised the application of net wrapping. Changing the net roll is now very easy, with simple access at the front of the baler while still standing safely on the ground. And from the tractor seat, the operator now has an excellent view of the tying process.

By running the net feed system at 90% of the bale's rotational speed, our engineers have created constant tension throughout the entire roll of net as it is applied. This fixed stretch ratio combined with feeding net onto the bale in the shortest, most direct route, provides consistent bale tying conditions regardless of bale size or crop quality.





More Perfect Bales - Less Work



RV BalePack Combination
Two Machines in One

The RV BalePack baler/wrapper combination offers an unbeatable package for profitable one-man baling and wrapping operations. As a world leader in both baling and bale wrapping technology, Vicon has been able to utilise this expertise to provide a really effective, simple to use machine, capable of working on even the steepest slopes.
Fast and reliable bale transfer combined with a high speed twin satellite wrapping system, give the RV BalePack the capacity to achieve outputs of up to 60 bales per hour.



Stay in control with Tellus
Operation of the RV Balepack could not be simpler, with all functions controlled by the Tellus terminal. No need to operate any spool valve levers of switches. All you have to do is stop baling when the terminal signals that the bale is complete. The net is applied and the bale is automatically ejected from the balechamber, transferred to the wrappping table and wrapped. As soon as the tailgate is shut, baling can continue.



Focus
With the Focus terminal you have total control shown on a bright, clear display. With large soft-touch buttons on the Focus control box, baler adjustments can be easily made from the comfort of the tractor cab.



The Intelligent Wrapping Technology

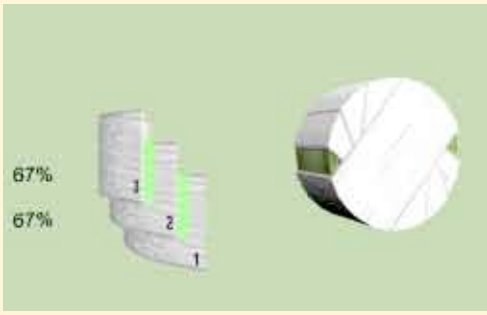
The pioneer in wrapping and baling technology, leading the way for over 25 years with innovative products such as bale wrappers, bale-wrapping combinations and 3-D wrapping, has developed a new revolutionary way of wrapping technique called *IntelliWrap*™

***IntelliWrap*™ is a unique, intelligent and sophisticate way of bale wrapping.**

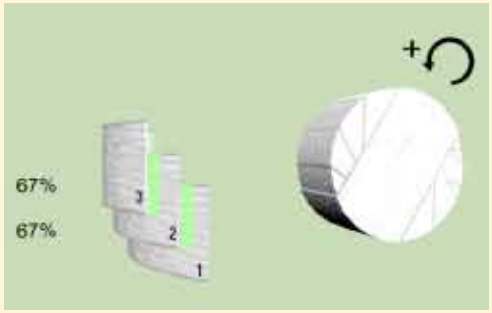
One of the features of ***IntelliWrap***™ is that we are able to pre-select any number of layers without concessions to be made. Easily select 4,5,6,7,8,… number of layers. Just as easy as that. The machine will automatically take care of the settings. When 5 layers are selected this means 5 layers is applied where ever on the bale.



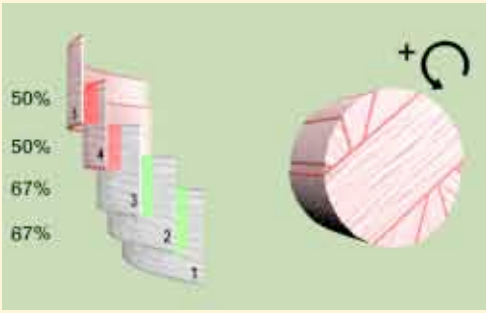
Pre-select the number of layers (5)



The bale is being covered with 3 layers and 67% overlap



Increased wrapping table speed



Finish wrapping with 2 layers and 50% overlap

3D



Another feature belonging to ***IntelliWrap***™ is the improved 3D wrapping. 3D wrapping is a intelligent and innovative way of applying stretch film to round bales. Key to the 3D process is its ability to distribute the total film quantity more uniformly across the entire



surface of the bale. 3D comes into its own when wrapping high value crops where maintaining the quality of forage is the ultimate goal.

With the pre-stretchers in their horizontal position, only the bale is turned on the wrapping table.



The satellite arms rotate automatically to ensure a overlap beyond the edge of the bale. After closing the cylindrical site of the bale, the pre-stretcher return in their vertical position to apply the remaining layers to close the bale.



A clean and secure cut.



Low mounted wrapping table with four wide belts and guide rollers

Robust Design = Durability and Performance

Twin loading forks for rapid and reliable bale transfer

Key to the success and potential output of any baler/wrapper combination is the design of the bale transfer system. Vicon recognises that not all silage is made in perfect field conditions, and the RV BalePack has been designed to perform even when working on steeply sloping fields.

The first loading fork (red) collects the bale as it leaves the bale chamber. The wrapping table is tilted forward ready to receive the bale.

Advantage Vicon:

There is no possibility of the bale rolling off the rear of the wrapping table even when facing up a steep slope.

The second loading fork (blue) transfers the bale onto the wrapping table. The tailgate shuts automatically, with the second fork still in the raised position.

Advantage Vicon:

This saves time and also prevents any chance of the bale rolling forward into the tailgate when facing downhill.

The wrapping table returns to the horizontal position and the second loading fork is lowered. The bale sits low on the table supported by four wide belts and four lateral guide rollers.

Advantage Vicon:

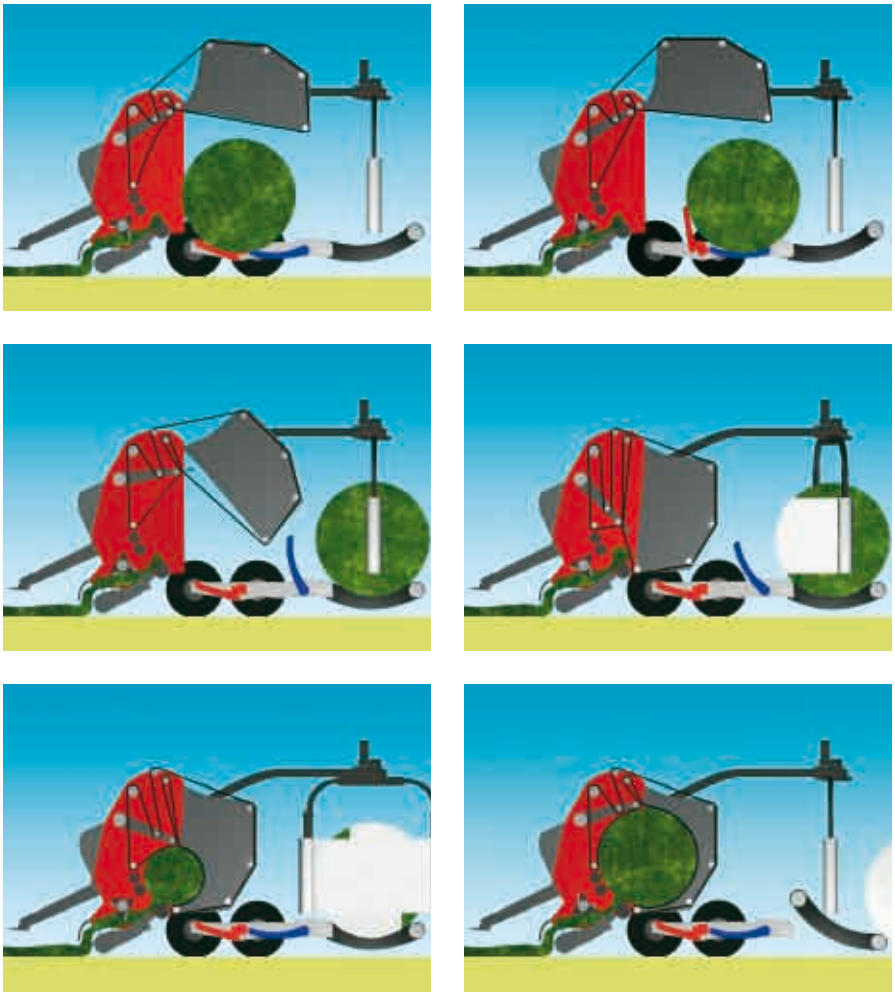
Regardless of bale size, the table offers good support and allows effective wrapping.

The twin satellite wrapping system with close mounted pre-stretchers rapidly wraps the balein either conventional or (optional) 3D mode.

Advantage Vicon:

Vertically mounted pre-stretch units ensure no grass is sprinkled between the layers of film during wrapping for effective sealing between film layers, promoting highest possible silage quality.

The low mounted table allows the wrapped bale to be gently discharged on the move, either automatically, or more usually at the operators convenience at any time during formation of the next bale.



Advantage Vicon:

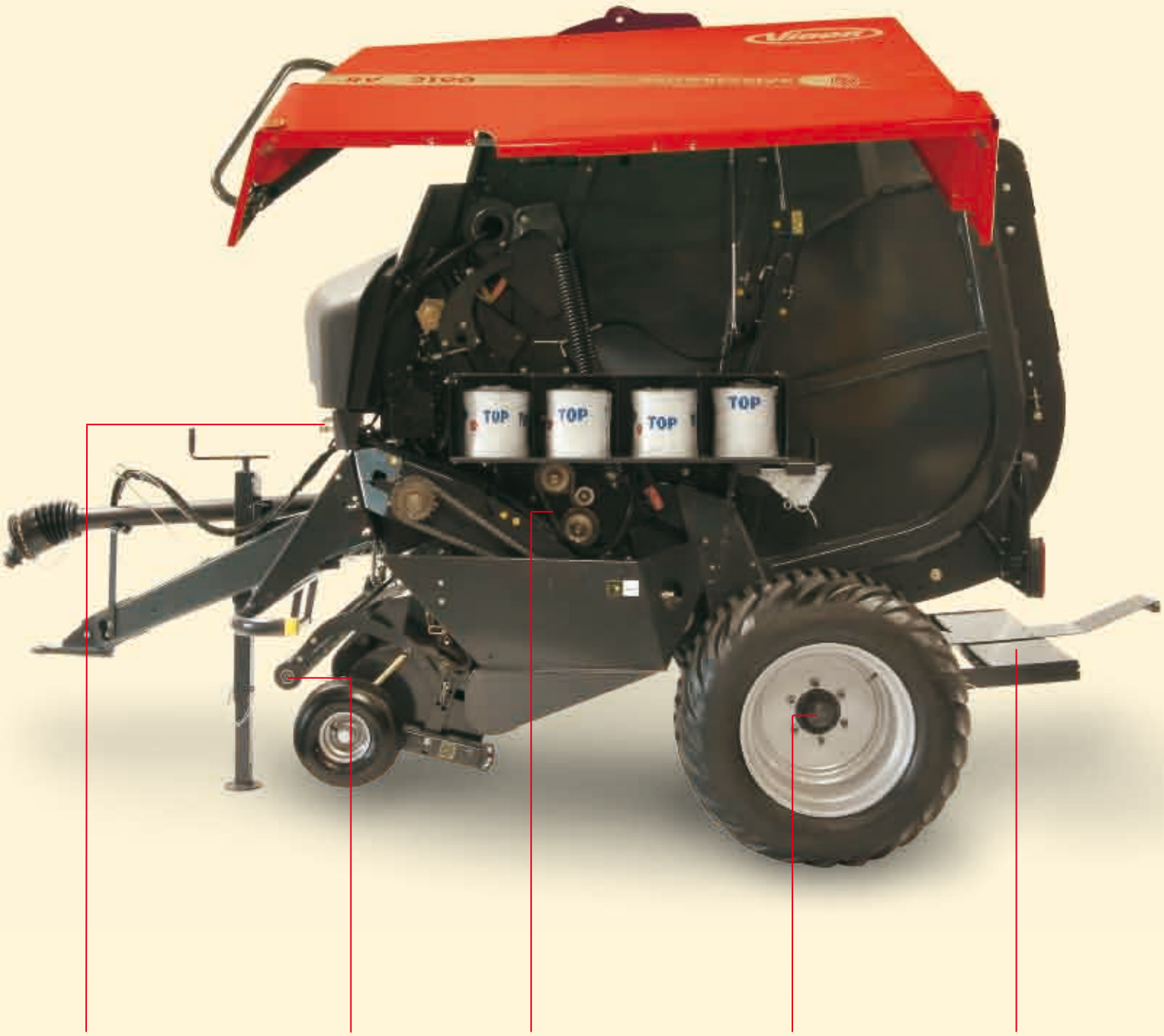
When working on sloping ground, the wrapped bale can be discharged while net is being applied to the following bale, saving time and increasing output potential.

Inherent strength and durability

The BalePack is constructed around a strong chassis so loads are evenly distributed for minimum stress and maximum durability. Riding on a tandem axle rated at 7.6 tonnes, the RV BalePack gives the operator a comfortable ride whether in field or on road. When equipped with 22.5” flotation tyres, the BalePack still comes in at under 2.8m wide, so manoeuvrability isn’t compromised.



Options



The proportion valve is resulting in a very firm bale with a moderate core; not to soft, or too hard.

Baffleplate roller.

Automatic individual chain lubricaton.

A wide choice of wheels and tyres sizes.

Bale ramp.

Information provided in this brochure is made for general information purposes only and for worldwide circulation. Inaccuracies, errors or omissions may occur and the information may thus not constitute basis for any legal claim against Kverneland Group. Availability of models, specifications and optional equipment may differ from country to country. Please consult your local dealer. Kverneland Group reserves the right at any time to make changes to the design or specifications shown or described, to add or remove features, without any notice or obligations. Safety devices may have been removed from the machines for illustration purposes only, in order to better present functions of the machines. To avoid risk of injury, safety devices must never be removed. If removal of safety devices is necessary, e.g. for maintenance purposes, please contact proper assistance or supervision of a technical assistant.
© Kverneland Group Geldrop BV

Vicon - Leading the Way in Baler Technology



KVERNELAND GROUP SPARE PARTS

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.

The Kverneland Group has a very professional network of partners to support you with service, technical knowledge and genuine parts. To assist our partners, we provide high quality spare parts and an efficient spare parts distribution worldwide.



A part of your day

kverneland group SPARE PARTS

Technical Specifications

	RV 2160 Open Throat	RV 2160 Optifeed	RV 2160 OptiCut 14/23	RV 2160 BalePack
Dimensions				
Length (m)	4,02	4,02	4,02	6,41
Width (m	2,46	2,46	2,46	2,99
Height (m)	2,67	2,67	2,67	3,00
Weight empty (kg)	2210	2490	2595 / 2895	
Bale dimensions				
Diameter min. (m)	0.8	0.8	0.8	0.8
Diameter max. (m)	1.6	1.6	1.6	1.6
Width (m)	1.2	1.2	1.2	1.2
Max bale weight (kg)				
Pick-up				
Pick-up width (cm)	210	210	210 / 230	210 / 230
Number of tine rows	4	4	4 / 5	4 / 5
Tine spacing (mm)	61	61	61	61
Baffle plate	Standard	Standard	Standard	Standard
Pneumatic gauge wheels	Standard	Standard	Standard	Standard
Intake				
Open troath	■	-	-	-
Integral rotor	-	■	-	-
Integral rotor 14 OC	-	-	■	■
Knife protection	-	-	Single / spring	Single / spring
Integral rotor 23 OC HydroProtect	-	-	❍	❍
Knife protection	-	-	Single / hydraulic	Single / hydraulic
Integral rotor 23 OC SuperSilage	-	-	❍	❍
Knife protection	-	-	Double / spring	Double / spring
Bale chamber				
Bale formation	5 belts + 3 rollers	5 belts + 3 rollers	5 belts + 3 rollers	5 belts + 3 rollers
Belt width (mm)	215	215	215	215
Lacings	Mato / Endless	Mato / Endless	Endless	Endless
Binding				
Double twine wrap / capacity	■ / 8	■ / 8	■ / 8	■ / 8
Net binding / capacity	❍ / 1+2	❍ / 1+2	❍ / 1+2	❍ / 1+2
Net and twine / capacity	❍ / 1+1 / 8	❍ / 1+1 / 8	❍ / 1+1 / 8	❍ / 1+1 / 8
Operation				
Control system	AutoPlus / Focus / Tellus	AutoPlus / Focus / Tellus	Tellus / Focus	Tellus / Focus
Wrapping unit				
3D wrapping	-	-	-	❍
Film end / break sensor	-	-	-	■
Proportional valve for satellite	-	-	-	■
Wheels and axles				
Single axle 15,0/55-17	■	■	■	-
Single axle 500/50-17	❍	❍	❍	-
Tandem axle 400/60-22,5	-	-	-	■
Tandema axle 500/45-22,5	-	-	-	❍
Hydraulic / pneumatic brakes	■ / ❍	■ / ❍	■ / ❍	■ / ❍
Others				
PTO	540	540	540	540
Min power requirement (kW / hp)	40/54	50/67	50/67 / 60/80	68/90

■ = standard equipment ❍ = optional equipment - = not available

	RV 2190 Open Throat	RV 2190 Optifeed	RV 2190 OptiCut 14/23	RV 2190 BalePack
Dimensions				
Length (m)	4,12	4,12	4,12	6,41
Width (m	2,46	2,46	2,46	2,99
Height (m)	2,87	2,87	2,87	3,04
Weight empty (kg)	2260	2540	2655 / 2950	
Bale dimensions				
Diameter min. (m)	0.8	0.8	0.8	0.8
Diameter max. (m)	1.85	1.85	1.85	1.6
Width (m)	1.2	1.2	1.2	1.2
Max bale weight (kg)				
Pick-up				
Pick-up width (cm)	210	210	210 / 230	210 / 230
Number of tine rows	4	4	4 / 5	4 / 5
Tine spacing (mm)	61	61	61	61
Baffle plate	Standard	Standard	Standard	Standard
Pneumatic gauge wheels	Standard	Standard	Standard	Standard
Intake				
Open troath	■	-	-	-
Integral rotor	-	■	-	-
Integral rotor 14 OC	-	-	■	■
Knife protection	-	-	Single / spring	Single / spring
Integral rotor 23 OC HydroProtect	-	-	❍	❍
Knife protection	-	-	Single / hydraulic	Single / hydraulic
Integral rotor 23 OC SuperSilage	-	-	❍	❍
Knife protection	-	-	Double / spring	Double / spring
Bale chamber				
Bale formation	5 belts + 3 rollers	5 belts + 3 rollers	5 belts + 3 rollers	5 belts + 3 rollers
Belt width (mm)	215	215	215	215
Lacings	Mato / Endless	Mato / Endless	Endless	Endless
Binding				
Double twine wrap / capacity	■ / 8	■ / 8	■ / 8	■ / 8
Net binding / capacity	❍ / 1+2	❍ / 1+2	❍ / 1+2	❍ / 1+2
Net and twine / capacity	❍ / 1+1 / 8	❍ / 1+1 / 8	❍ / 1+1 / 8	❍ / 1+1 / 8
Operation				
Control system	AutoPlus / Focus / Tellus	AutoPlus / Focus / Tellus	Tellus / Focus	Tellus / Focus
Wrapping unit				
3D wrapping	-	-	-	❍
Film end / break sensor	-	-	-	■
Proportional valve for satellite	-	-	-	■
Wheels and axles				
Single axle 15,0/55-17	■	■	■	-
Single axle 500/50-17	❍	❍	❍	-
Tandem axle 400/60-22,5	-	-	-	■
Tandema axle 500/45-22,5	-	-	-	❍
Hydraulic / pneumatic brakes	■ / ❍	■ / ❍	■ / ❍	■ / ❍
Others				
PTO	540	540	540	540
Min power requirement (kW / hp)	40/54	50/67	50/67 / 60/80	68/90

■ = standard equipment ❍ = optional equipment - = not available

kverneland group







Kverneland Group

Kverneland Group is a leading international company developing, producing and distributing agricultural machinery and services.

Strong focus on innovation allows us to provide a unique and broad product range with high quality. Kverneland Group offers an extensive package of systems and solutions to the professional farming community. The offering covers soil preparation, seeding, forage- and bale equipment, spreading and spraying.



















Extensive Product Range

Vicon offers an extensive range of farm implements: mower conditioners, drum and disc mowers, tedders, rakes, fixed and variable chamber round balers, big square balers, bale wrappers, fertiliser spreaders, maize choppers, sprayers, soil cultivation and seeding systems.

Kverneland Group UK Ltd.
Walkers Lane, Lea Green, St. Helens
Merseyside WA9 4AF, UK
phone 017 448 532 00
info-uksales@kvernelandgroup.com

www.vicon.eu

Vicon

F-1617-GB