

LELY WELGER

Round Baler with Variable Chamber



High performance balers and round baler wrapper for straw, hay and grass



www.lely.com

— innovators in agriculture —

SMARTER, FASTER, STRONGER!



Smarter, faster, stronger!

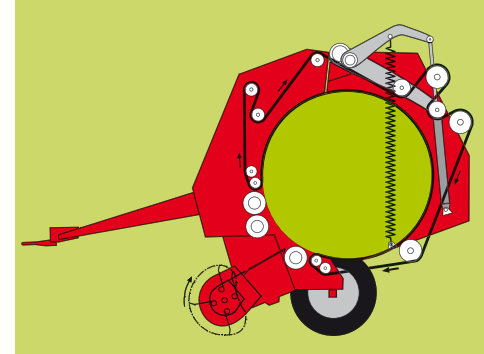
These are three powerful statements describing precisely why Lely machines differentiate themselves so clearly from those of their rivals. The innovative methods of our design engineers ensure surprisingly simple solutions which make our comprehensive range of machines even more efficient. Long service life and ease of operation play an important role here. That's why we at Lely are justified in saying "we're the innovators in the field of agriculture".

Smarter

Constant Pressure System. On most round balers with variable chambers, the bale density reduces as the diameter increases; as a consequence, the quality of the bale reduces along with the overall weight of the bale. Lely Welger round balers with variable chambers operate via an ingenious belt tension system which keeps the specific surface pressure consistent. This produces a constantly high density right into the outer layers of the bales.

The Constant Pressure System is independent of the tractor. Two large tension springs ensure that the oil which has been forced past a relief valve into the rear of one of the density rams as the bale has been formed is returned to the front sections of the rams, meaning that primary hydraulic pressure is not required.

Rollers which have been made as large in diameter as possible have been used throughout the construction due to the fact that the larger the roller, the less liable it is to wrap up with material.



Faster

Material flow speeds have been accurately calculated; this, combined with an extra large intake opening, allows the Lely Welger round balers to achieve an impressively high output.

Due to the mechanical tailgate lock, for which only a single tractor control valve is required consistent size of bales are produced. The bale ejection is much faster than on competitive machines using double-acting tailgate rams. With the Varionet net wrapping system (standard equipment), the bales are wrapped efficiently and accurately in a matter of seconds.

Stronger

Every professional who has used these machines knows that the weakest point of a belt is the joiner. Lely Welger round balers have endless belts as standard, meaning there is no joiner! Due to this endless belt, which can take on extremely high loads, bale densities can be achieved which are unimaginable on other machines.

The extra heavy drive chains, the thick-walled, seamless tubes used for all the rollers and not least, the one-piece solid axle (used on trailers) are clear characteristics for the above average long lifetime of these machines.





Quality fodder for higher profits

The quality and quantity of fodder determines to a great extent how healthily and efficiently milk and meat can be produced. By producing nourishing and appetising feed from one's own fodder you avoid having to purchase expensive additives and concentrates. This is beneficial for the animals, for manure management and – perhaps the most importantly – the farm's profits.

Lely guides you to toward perfect fodder in five steps

LELY SPLENDIMO



Mowing is decisive for further processing of fodder

The choices that you make for mowing – time of mowing, with or without conditioner, regular or wide swath – have a direct impact on the further processing of fodder. Proper adjustments as well as the correct mowing pattern are crucial to the condition of the turf as well as limiting any delay in re-growth and favouring the quality of the first cut of grass.

LELY LOTUS



Tedding for fast and even drying

Especially when having to deal with heavier cuts of grass, timely tedding is important to ensure fast and even drying. Sufficient output combined with a proper turning action limits the wilting period and, hence, the field period as well as any delay in re-growth. Properly tilled fodder is free from the turf and is raked together more easily. Proper ground contours as well as correct machine adjustments avoid crop contamination.

LELY HIBISCUS



Clean fodder in the right swath

A cam rake should allow fast operations as well as the possibility to lay down an effective swath with the correct shape and width. After all, a good swath is decisive for the output and cutting action of the baler, forage harvester or pick-up loader wagon. Ground assimilation, stability as well as adjustments ensure a clean raking job eliminating any fodder contamination due to soil or dried-up manure.

LELY WELGER



Proper density provides many benefits

Big packs and round bales ensure a substantial improvement of fodder quality because the compaction process starts right away. Transport of the heavy packs is more flexible. Heavy tractors for processing the fodder are not required. Since the crop is cut by means of the advanced cutting mechanisms of the balers, there is more effective compaction while the fermentation process starts sooner and the crop can be processed more easily later on.

LELY ATTIS



Quick preservation ensures optimum fodder

Wrapping finishes the process that you have started with baling. Immediate packing of the bale in a film – be it in a combined or individual working pass – ensures immediate airtight sealing of the bale so that the fermentation process sets in as soon as possible. The bale is not opened until the time when you actually need the fodder. Heating and decay are eliminated and tasty fodder is ensured.



Large chamber – great performance!

With a diameter of up to 2 m and a resulting bale volume of almost 4 cubic meters, the RP 505 or the RP 535 can achieve bale weights of up to 600 kg in wheat straw, a result which is more than double the bale weights from some rival machines. This also means that overall baling costs are further reduced compared to smaller bales due to less stopping time and the reduction in net/plastic consumption, and the disposal costs of plastic, the field is therefore cleared more quickly.

Constant Pressure System (CPS) = consistently high bale density!

On most round balers, the bale density decreases as the bale diameter increases. This isn't the case on the Lely Welger round balers. Thanks to the intelligent CPS belt tension system, they can achieve the highest bale densities even in the most difficult of conditions. Initially, as the bales are formed, the belts are tensioned with a mechanical tension system. This allows immediate, entirely trouble-free bale start up.

After the bale core has been formed, a sophisticated hydraulic system comes into play. The belt tension consistently increases in relation to the increasing bale diameter. This means that the bale is always compressed to the same density right up to the maximum bale size, and also this high bale density is consistent right through the bale; even in the outer layers.

CPS works completely independently of the tractor hydraulics system. Primary pressure is unnecessary – meaning simple and fast operation.

High density bale chamber with special belts

The core components of the bale chamber are the four belts, manufactured in a special procedure, which have an extremely high lifetime. The core of the belts is made from synthetic material which ensures that they can take on and transmit extremely high tensile forces. High tensile forces mean high belt tension, high bale density and high bale weights.

Hydroflexcontrol*

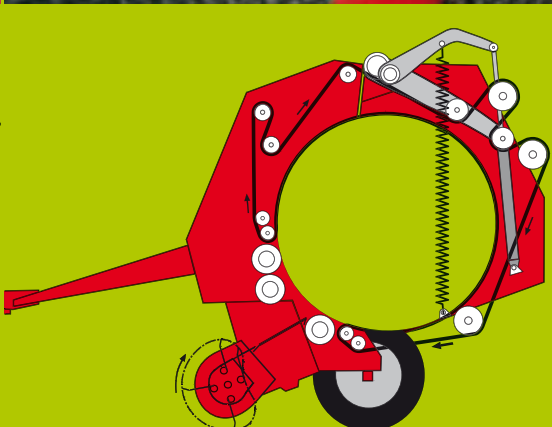
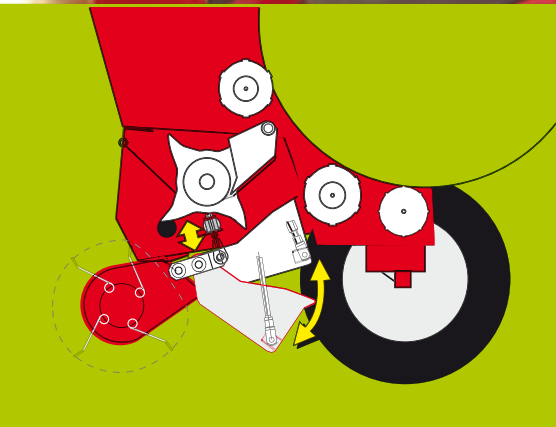
High capacity performance equals the best output! With the unique Hydroflexcontrol feed channel floor and the almost unlimited intake capacity of the chamber, these machines achieve performances previously only dreamed of! (*Optional equipment for RP 435 and RP 535).



Advantages of specialised endless belts:

- Exceptionally smooth running
- No irritating noises made by the joiner against the guides
- Extremely high load capacity and therefore the highest of densities
- If the belt should turn over during operation, it will not cause any problems
- Exceptionally long service lifetime

The special shape of the belt tension system allows trouble-free bale start-up at normal working speed! The belts are constantly under tension, thus avoiding slack belts when the bale chamber is open.



Crop chopping units for best quality silage

MasterCut¹³

The wide range of highly-developed crop chopping units starts with the MasterCut¹³: 13 extra-long blades, reaching deep into the ring of the rotor, ensure consistent cutting of the crop.

This increases the bale density, speeds up the fermentation process and produces a better structure of feed for ruminants. The digestibility of the bales is dramatically improved.

XtraCut¹⁷ – 100% more operating time

Using the crop chopping unit XtraCut¹⁷, the best silage quality can be achieved. This has positive effects both on the necessary feed consistency and the complete baling operation.

XtraCut¹⁷ offers even more. The E Link control system allows either full usage of 17 knives or selectable usage of group A with 9 blades or group B with the 8 blades or all blades can be retracted.

The advantage is clear with this option:

100 % longer operation time between maintenance intervals required for re-sharpening. Of course, the blades can be removed quickly and are protected against overload. Not only the quantity of cuts are important, but also the quality. On the XtraCut¹⁷, the extra-long blades also reach deep into the ring of the rotor.

Due to this overlap, even stalks lying transverse to the swath cannot escape being cut!

XtraCut²⁵ – the premium class crop chopping unit

With its 25 extra-long blades, the cutting quality is once again considerably improved. Like the XtraCut¹⁷, this crop chopping unit has a group control, but this one can select 25, 13, 12 or 0 blades respectively.

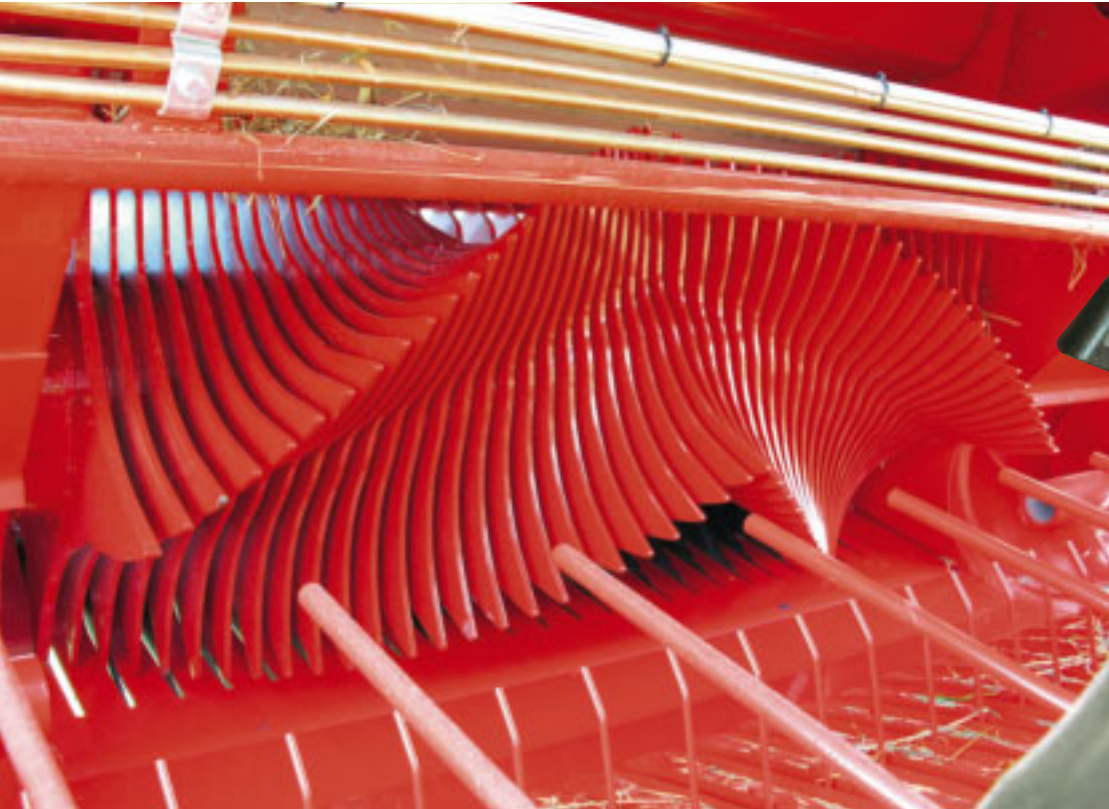
The hydraulic protection against foreign objects and easy removal of blades is as easy as on the previous two units.



Optimum material flow

Rotor feed

The RP 435, RP 435 Master, RP 535 and RP 535 Master are equipped with two lobe feed rotors. Star rotors are used on the V 160 and the RP 505 Special, which are particularly resistant against stones and which need only low power due to their efficient design, ensuring an impressive output.



BCE or E Link Baler control

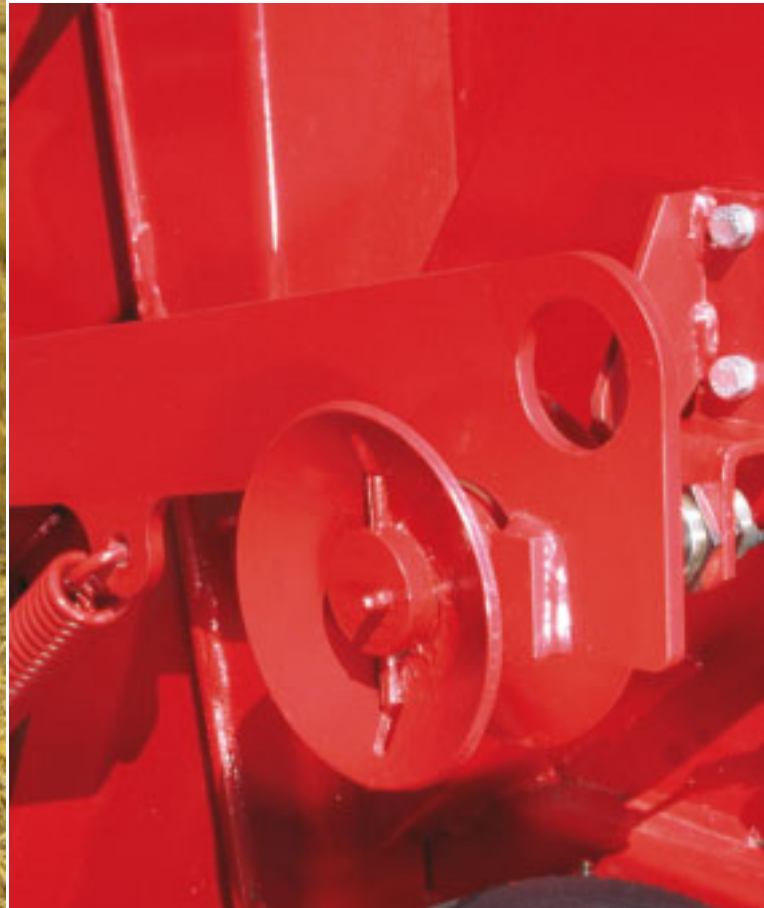
Even the most reliable machines must be correctly operated, controlled and monitored.

In addition to the well-proven mechanical systems, Lely has the easy-to-use BCE or E Link Baler control.



All important functions such as selecting automatic or manual activation of the net wrap system can be operated and controlled from the tractor seat via the illuminated key. The bale counter is clearly visible on the large display during work.





Mechanical tailgate lock

Like all round balers from Lely, the V 160, RP 435, RP 505 and RP 535 are equipped with a mechanical tailgate lock. This holds the bale chamber securely closed.

Only when the pre-selected bale diameter has been reached and the bale has been securely tied is the lock released and the tailgate lifted.

This is an important requirement for the maximum bale weight and for even bale sizes.



Lely: high-quality products through innovative and durable design

The companies in the Lely Group are dedicated to Offering a range of products that are well matched to the needs of modern cattle farmers and contractors. Innovation has always been the driving force upon which the Lely organisation was founded.

Always seeking improvement

A team of highly qualified and enthusiastic designers are constantly active, developing new products as well as refining existing equipment. In doing so, they can make use of the most advanced equipment and software.

Reliability due to extensive testing

Prototypes are built and carefully monitored during nationally and internationally recognised testing procedures. Durability testing takes place on a bumpy track or on the drop-testing jig to discover potential weak points or to test the durability.

Quality first and foremost

During production, the quality control of all the materials applied is crucial.

Check on the correct dimensions or material quality are constantly performed on all incoming components, even for parts suppliers.

Proper back-up

Correct operation and service are in practice just as important as a good design and precise fabrication! Lely therefore invests a great deal in frequent customer visits and much (international) training to instruct dealers and end users.

Quick and correct parts supply

Due to ongoing automation of our parts supply infrastructure we ensure fast supply of spare parts just at the time when you expect us to.





Lely Welger



RP 435



RP 505



RP 535



V 160



ATTIS HR 16

RP 435

Even the widest swaths are 'swallowed' by this 2.25 m wide pick-up with a ravenous appetite! The ring rotor guarantees a smooth flow of material into the bale chamber.

The tried-and-tested Power split gearbox transmission system transmits the drive through both sides of the machine.

TECHNICAL SPECIFICATIONS

WELGER RP 435

Bale chamber diameter	0.90 - 1.60 m
Bale chamber	width 1.23 m
Pick-up width	2.25 m
MasterCut ¹³ crop chopping unit	o
XtraCut ¹⁷ crop chopping unit	o
XtraCut ²⁵ crop chopping unit	o

RP 505

The unique bale size of up to 2 m diameter turns even this basic model into something very special. The high intake capacity, the short stops for wrapping and ejection and the large bale volumes result in the baler operating longer in the swath and fewer bales lying in the field ready to be collected – a surprisingly high overall total performance.

TECHNICAL SPECIFICATIONS

WELGER RP 505

Bale chamber diameter	1.10 - 2.00 m
Bale chamber width	1.23 m
Pick-up width	2.00 m
MasterCut ¹³ crop chopping unit	–
XtraCut ¹⁷ crop chopping unit	–
XtraCut ²⁵ crop chopping unit	–

RP 535

Due to the use of the crop chopping units, these machines are regularly used for silage, and therefore 'all-rounders'. Whether large straw units, medium hay bales or even smaller diameters for grass silage; nothing proves difficult for the Lely Welger RP 535.

TECHNICAL SPECIFICATIONS

WELGER RP 535

Bale chamber diameter	1.10 - 2.00 m
Bale chamber width	1.23 m
Pick-up width	2.25 m
MasterCut ¹³ crop chopping unit	o
XtraCut ¹⁷ crop chopping unit	o
XtraCut ²⁵ crop chopping unit	o

V 160

A 2 m wide pick-up and behind that a star rotor allows this model to achieve exceptionally high performances. The transmission system used transmits power down one side of the machine via a simple, robust chain drive.

The BCE Baler control is used to monitor the most important functions from your tractor seat.

TECHNICAL SPECIFICATIONS

WELGER V 160

Bale diameter	0.90 m - 1.60 m
Bale width	1.23 m
Bale volume	up to 2.5 m ³
Dimensions L x W x H	4.98 x 2.32 x max. 2.76 m
Pick-up width	2.00 m
PTO shaft	540 rpm

ATTIS HR 16

This fully automatic wrapper for round bales is characterised both by its robust construction as well as by its simple, easy operation. It can be mounted either on the rear or front linkage.

Due to the robust structure of this machine, bales can be wrapped up to a diameter of 1.65, and a weight of up to 1500 kg.

TECHNICAL SPECIFICATIONS

LELY ATTIS

HR 16

Length	1960 mm
Width	2150 mm
Height	3000 mm
Bale diameter	1.10 - 1.65 m
Bale width	1.15 - 1.25 m
Bale weight	max. 1500 kg



Lely Welger RP 435

Lely Welger round balers are famous world wide for their performance capability and reliability. These variable bale chambers, with their bale diameter of 0.90 - 1.60 m, RP 435 and the RP 435 Master are certainly interesting for the discerning farmer as they can be used for almost any crop, anywhere for baling straw, hay or silage.



RP 435

Even the widest swaths are 'swallowed up' by this 2.25 m wide pick-up with a hungry appetite! The ring rotor guarantees a smooth flow of material into the bale chamber.

As an option, the RP 435 can be fitted with a Hydroflexcontrol feed channel floor and a Mastercut crop chopping unit.

RP 435 Master

This model offers use of the E Link control, a highly simple and effective yet sophisticated monitoring and operating system. Individual functions can be activated from the tractor seat. The performance-increasing Hydroflexcontrol is fitted as standard on this machine in combination with the feed rotor.

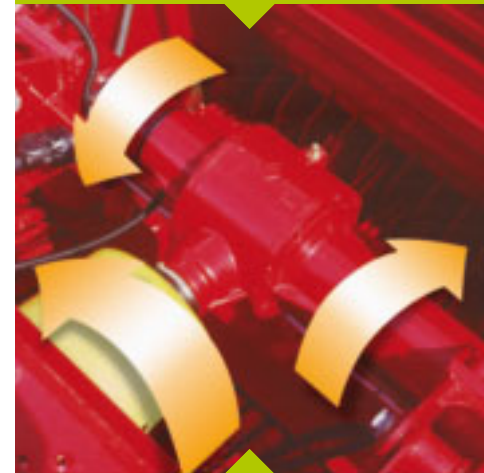
Power split main drive with performance distribution

Low power requirements and a long service life; these were the objectives of the Powersplit gearbox design.

The machine's power requirement is divided in this heavy cast gearbox housing so that half the power is transmitted via one drive shaft to drive the rotor and pick-up, and the other shaft transmits the power to drive the bale chamber.

Even under the highest loads, the high stability of the cast housing guarantees excellent support for the angular drives and the shafts, thereby preventing unnecessary long term wear.

As no machine reverse is required on this unique machine, the feed rotor can be driven directly, without any loss in efficiency.



Universal shaft with cam clutch

If the machine performance limit is reached or a foreign obstacle enters the machine, the cam clutch disconnects the drive to the baler. After the machine overload has been relieved, the clutch re-engages automatically.

The tractor U/J is quick and simple to connect with its QS coupler. A free-wheeling device mounted on the machine makes fitting the P.T.O. shaft easy.

This high-specification strong drive shaft is standard equipment on the RP 435 and the RP 435 Master.



Wide pick-up

The most important target when developing the pick-up for Lely Welger balers was a consistently clean pick-up leaving the best possible condition for the growth of the grass left in the ground – and this, of course, whilst driving at high speeds!

Adjustable pick-up height chains and large guide wheels allow the pick-up to follow the ground precisely. Spring balanced hydraulic lift rams reduces the pressure placed on the ground. Ground unevenness can be followed constantly. The tine bars are supported in maintenance free, durable ball bearings. The double tines have support brackets to reduce breakage. Even the widest swaths are easily picked up and moved via the side augers to the feed rotor and then the chamber.



Varionet wrapping with Easy Load System (ELS)

The well-proven net wrapping system has now the added feature of ELS.

The "Easy Load System" this unique, safe, easy to use system makes life easier for the operator. After the nett roll has been inserted from the side, the roll is simply tipped backwards, the spindle is then tightened and the new roll is ready to use.

Varionet spreads the net wide and taut over the evenly-shaped bales. If wide nets are being used, they reach to the outer edges of the bale, resulting in optimum protection against weather conditions and crop losses. This process removes any unnecessary air pockets, thereby improving feed quality.



Variotwin

The special feature of this twine tying system is the variable speed control. This device allows for a sufficient number of rotations of the twine at the edges of the bale, enabling the bale to be wrapped quickly yet ensuring that the ends do not fall apart.

In this way, even delicate harvest materials can be tied securely, quickly and economically.



Technical specifications

LELY WELGER	RP 435	RP 435 Master
Bale chamber diameter	0.90 m - 1.60 m	0.90 m - 1.60 m
Bale chamber width	1.23 m	1.23 m
Bale chamber volume	up to approx. 2.5 m ³	up to approx. 2.5 m ³
Bale chamber max. permitted weight	1.5 t	1.5 t
Wrapping material net	running length 2000 or 3000 m	
Wrapping material net	width 1.23 or 1.30 m	
Pick-up width	2.25 m	2.25 m
Pick-up spacing between outer tines	1.86 m	1.86 m
Pick-up tine spacing	64 mm	64 mm
Dimensions Length x Width x Height	4.98 x 2.32 (max. 2.70) x max. 2.76 m	
PTO shaft drive	540 rpm	540 rpm
Permitted maximum speed, unbraked	25 km/h	25 km/h
Permitted maximum speed with compressed air brakes	40 km/h	40 km/h
Equipment: ● = Standard; ○ = Optional; – = Not available		
E / E-Link Baler control	●/○	–/●
Height-adjustable drawbar	●	●
Pick-up 2.00 m with guide wheel	–	–
Pick-up 2.25 m with guide wheel	●	●
Pick-up-guide wheels suspended	○	○
Power split gear transmission	●	●
Hydroflexcontrol baler channel	○	●
MasterCut13 crop chopping unit	○	○
XtraCut17 crop chopping unit	○	○
XtraCut25 crop chopping unit	○	○
Varionet/EasyLoadSystem net wrapping system	●	●
Compressed air brake device	○	○
Hydraulic brake device	○	○
Tyres 11.5/80-15.3	–	–
Tyres 15.0/55-17	●	–
Tyres 19.0/45-17 (500/40-17)	○	●
Tyres 500/50 - R 17	○	○
Tyres 500/55-20	○	○
Bale thrower	●	●
Universal joint with free-wheel clutch	●/●	●/●
Automatic chain lubrication	●	●



Lely Welger RP 505-535

The RP 505 / RP 535 are the largest variable chamber baler available in Europe. Following the trend to achieve high performance capability this machine is the trend setter in round balers, and is without equal in its performance. The available options allow us to adapt the machines chassis, equipment and performance capability to the requirements of each individual business.

RP 505 Special

Even the basic range model is fitted with a 2.0 m wide pick-up as well as a star rotor which transports the material continuously into the bale chamber. The Power split gearbox transmission ensures strong and safe drive in all operational conditions.

The BCE Baler control is used to operate the most important functions from the driver's cab.

RP 535

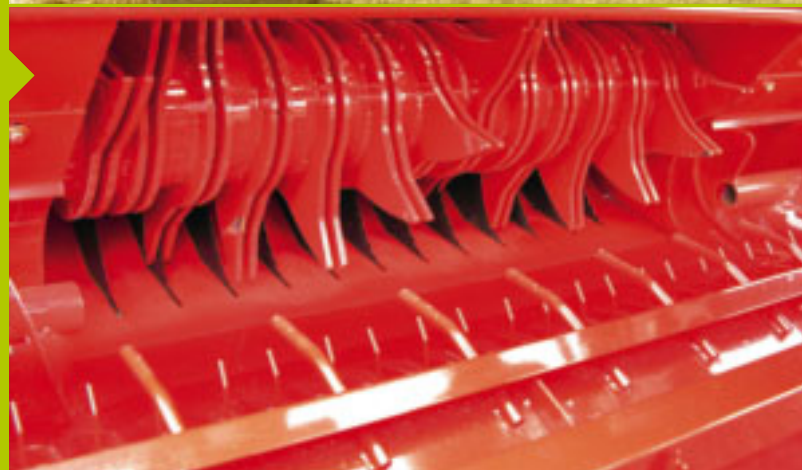
The basic model of the 535 series is equipped with a 2.25 m wide pick-up as standard. The performance of this pick up for output and gathering off all of the material is unrivalled. The ring rotor ensures continual material flow. The Power split gearbox transmission divides the total power equally to the bale chamber and pick-up. The BCE Baler control is used to operate the most important functions from the driver's cab.

RP 535 Master

In addition to the already comprehensive equipment offered in the basic model, the RP 535 Master includes the E Link control monitoring and operation system, which is extremely easy to use and can be operated from the driver's cab. The machine is also equipped with the Hydroflexcontrol floor and the specialised feed rotor, thus further improving the already high performance.

Convincing specifications:

- Modern design! Protective side guards – easy to open and close, optimum access for maintenance work
- Unique bale size! Bale diameter up to 2.00 m!
- Super belt design! Endless belt without joiners!
- Excellent bale compaction, Constant Pressure System – there's no end to our baler pressure!
- Exclusive main drive! Power split main transmission for low wear
- Robust feed system! Feed rotors in all constructional series for optimum material flow



Power split main gear transmission with power distribution drive

The exceptionally strong cast main gearbox is used as a stabilising component of the baler chassis, and integrates the angular gears and the transverse shafts in the same housing, which equally divide the total amount of power required to the respective units (bale chamber and rotor drive).

This type of drive system also reduces the amount of tractor power required. The angular gears and the shaft bearings align even under the highest loads, thus preventing wear on these components. This means that all the components have a long service lifetime and low power requirements.

Universal shaft with cam clutch

This particularly strong universal shaft with a wide angle joint mounted on the tractor and a QS coupler, mounted on the machine with a cam clutch and free-wheeling device is part of the standard equipment on the RP 535 and the RP 535 Master. The tractor joint is quick and simple to connect with its QS coupler.

The cam clutch and free-wheeling device mounted on the machine is presently the best overload protection on the market. A universal shaft with cam clutch is also available on request for the RP 505 Special as part of the range of optional equipment.

Wide pick-up – 2.00 m for RP 505 Special, 2.25m for RP 535 and RP 535 Master

The tine bars in the pick-up, supported and guided by ball bearings, are a unique design. The doubled tines, made out of spring steel, are mounted in support brackets.

Adjustable pick-up height chains and accurately adjustable guide wheels guide the pick-up precisely over the ground.

Even the widest swath can be transported into the chamber width via the large augers. Spring-balanced hydraulic lift rams reduce the pressure placed on the ground when working on uneven land. These are the requirements for clean crop pick-up and the best possible protection of the growing crop left in the ground.

Mechanical tailgate lock

A further requirement for the highest density bales with uniform size is a mechanical tailgate lock. On Welger round balers, these secure locks ensure that the tailgate does not open until the enormously high standard Welger bale densities have been achieved.



Technical specifications

LELY WELGER	RP 505 Special	RP 535	RP 535 Master
Bale diameter	1.10 m - 2.00 m	1.10 m - 2.00 m	1.10 m - 2.00 m
Bale width	1.23 m	1.23 m	1.23 m
Bale volume	up to approx. 4.0 m ³	up to approx. 4.0 m ³	up to approx. 4.0 m ³
Wrapping material net	Running length 2000 or 3000 m		
Wrapping material net	Width 1.23 or 1.30 m		
Twine consumption	67 - 147 m		
Pick-up width	2.00 m	2.25 m	2.25 m
Pick-up spacing between outer tines	1.60 m	1.86 m	1.86 m
Pick-up tine spacing	64 mm	64 mm	64 mm
Dimensions Length x Width x Height	5.23 x 2.40 x 3.17 m		
Required tractor performance from	55 kW (75 PS)	75 kW (100 PS)	75 kW (100 PS)
PTO shaft drive	540 rpm	540 rpm	540 rpm
Permitted maximum speed, unbraked	25 km/h	25 km/h	25 km/h
Permitted maximum speed with compressed air brake	40 km/h	40 km/h	40 km/h
Equipment: ● = Standard; ○ = Optional; – = Not available			
E / E-Link Baler control	●/–	●/○	–/●
Height adjustable drawbar	●	●	●
Pick-up 2.00 m with guide wheels	●	–	–
Pick-up 2.25 m with guide wheels	–	●	●
Pick-up-guide wheels suspended	○	○	○
Power split gear transmission	●	●	●
Hydroflexcontrol feeding channel	–	○	●
MasterCut13 crop chopping unit	–	○	○
MasterCut17 crop chopping unit	–	○	○
MasterCut25 crop chopping unit	–	○	○
Varionet/EasyLoadSystem net wrapping	●	●	●
Variotwin twine-tying system	○	○	–
Compressed air brake device	●	●	●
Tyres 15.0/55-17	●	●	●
Tyres 19.0/45-17	○	○	●
Tyres 500/55-20	○	○	○
Tyres (up to 25 km/h) 500/60-22.5	○	○	○
Bale thrower	●	●	●
Universal joint with free-wheeling / cam clutch	●/○	●/●	●/●
Automatic chain lubrication	●	●	●



Lely Welger V 160

Lely, as the leading manufacturer of compression technology for agricultural harvest materials, knows better than any other company what is required for such processes. We face up to the demands of the market. When developing new products, we consistently follow the requests of our customers with the objective of combining the highest possible quality, intelligent and reliable technology and high economic viability.

Collection, baling and tying

The new V 160 variable round baler means that Lely can fulfil the basic requirements of crop-gathering for the modern farmer to the highest possible level. This machine is tailored to the harvesting of mainly drier materials. Even in the most adverse of conditions, this round baler is able to produce an excellent end product.

Simple operation, easily understandable technology, solid construction and superb outputs allow relaxed working hours. Collection, baling and tying – bale upon bale, the reliability of the V160 and its low maintenance requirements are easily visible.

High bale density

The belt tension of the endless belts increases in the same proportions as the bale diameter. The Constant Pressure System CPS consistently produces an even surface pressure. This gives the bales an even, consistent density right through to the outer layers. The completely new designed chamber geometry in connection with "truly" endless belts lead to optimum bale traction without unnecessary loss of crops.

Endless belts

Two core inserts made of special synthetic material allow particularly high tensile loads: no joiner, no problem!

Everything under control

A gauge displays the current bale pressure. This can be varied via a manual pressure adjustment. The lights show whether the tailgate is locked or whether the bale ejector is in the upper position or not. The actual bale diameter is also shown on an indicator.

Pre-selectable bale diameters

Bale diameters are pre-selectable from 90 cm to 160 cm. This means that the bale size can be adapted to suit the customer's requirements.



Bale width: 1.23 m
Bale diameter: 0.90 m - 1.60 m
Pick-up width: 2.00 m

Optimum pick-up

Finely adjustable pick-up height chains and guide wheels and a spring-balanced relief system mean that the pick-up height is accurately adjusted. Ground unevenness can be accounted for immediately and the harvest material is picked up cleanly.

**Drawbar hitch**

Holes in the cross member and a fully adjustable drawbar eye mean the machine can be easily and quickly adapted to all standard tractors.



Technical specifications

LELY WELGER	V 160
Bale diameter	0.90 m - 1.60 m
Bale width	1.23 m
Bale volume	up to approx. 2.5 m ³
Wrapping material net Running length	2000 or 3000 m
Wrapping material net Width	1.23 or 1.30 m
Pick-up width	2.00 m
Pick-up spacing between outer tines	1.60 m
Pick-up tine spacing	64 mm
Dimensions Length x Width x Height	4.98 x 2.32 x 2.76 m
PTO shaft drive	540 rpm
Equipment: ● = Standard; ○ = Optional; – = Not available	
E Baler control	●
Height-adjustable drawbar	●
Pick-up width 2.00 m	●
Pick-up guide wheel, adjustable	●
Net wrapping	●
Twine-tying	○
Tyres 11.5/80-15.3	●
Tyres 15.0/55-17	○
Tyres 19.0/45-17 (500/40-17)	○
Bale thrower	○
Automatic chain lubrication	○

Mechanical tailgate lock

Like all round balers from Lely Welger, the V 160 is also equipped with mechanical tailgate locks. These hold the bale chamber securely closed.

Only when the selected bale diameter has been reached and the bale has been securely tied are the locks released and the bale ejected.

Stable Construction

The V 160 is mounted onto a stable axle as used in the transport industry

Robust drive

Drive chains on only one side are fitted with sprung self-adjusting clamps, thus minimising the daily maintenance.





Lely Attis HR 16

With high-quality silage, one of the prerequisites is that anaerobe conditions are produced as swiftly as possible. In plain language: air should be securely excluded immediately. The Lely/Welger engineers took this principle into account when developing the ATTIS HR 16 round baler wrapper. As a result, the company has been able to bring a machine onto the market which is characterised by its high load capability, its supremely easy operation and its unique ease of use.

The wrapping control on the ATTIS HR 16 allows the user to select three different operating modes:

1. Fully automatic operation

The touch of a button starts the load and wrapping processes, which runs until finished, fully automatically.

2. Semi-automatic operation

In this mode, the loading process is initiated. The loading arms grip the bale, the table pivots into the wrapping position and the loading arms travel to their resting position. By pressing the start button again, the wrapping programme is activated. Gentle start-up and wrapping of the first layers, release of the initial layer from the film holder, complete wrapping of the bale and finally cutting and clamping of the film are electronically operated.

For safety reasons, the automatic ejection is always activated by pushing a button. The loading arms clamp and hold the fully wrapped bale until the table has pivoted into vertical position and the bale contacts the ground. The advantage of this procedure is that the bale doesn't fall onto the ground but is lowered onto it gently. This helps to avoid damage to the film and prevents the bales rolling away in hilly regions.

3. Manual operation

In this mode, all functions can be pre-selected and carried out by pressing a button. Users have the possibility of reacting quickly to unusual operating conditions.

Simple operation

The E Link wrapper control, with a completely graphical display, makes working with this device child's play. All parameters and functions are clear and easy to recognise - even in the dark.





Secure bale pick-up and bale guidance

Bales that are uneven in shape can be firmly gripped by our clever clamping arms and loaded safely. Due to the machine's robust construction, the processing of bales with a diameter of up to 1.65 m and a weight of up to 1500 kg is possible. Large, specially shaped rollers position the bale securely onto the wrapping table. This means that the wrapping process can be continued whilst the machine is moving.

Universal mounting system

Naturally, the ATTIS HR 16 can be used in other positions than on the rear hydraulic linkage of the tractor.

Tractor front hydraulic system and also telescopic handlers also work well.

Film width 500 or 750 mm

The pre-stretching unit is easily adjusted to the required film width without the need for an adapter. A single valve is required for adjustment, ensuring an even overlap of film to exclude any air.



Technical specifications

LELY	ATTIS HR 16
Weight	approx. 760 kg
Length	1960 mm
Width	2150 mm
Height	3000 mm
Film width	500 or 750 mm
Pre-stretching	33, 55 or 70 %
Wrapper	
arm speed	27 rpm
Bale diameter	1.10 - 1.65 m
Bale width	1.15 - 1.25 m
Bale weight	max. 1500 kg
Oil amount from	20 l/min
Oil pressure from	160 - 210 bar
Hydraulic connections	1 SA + 1 FL
Power supply	12 V DC

60 years of unstoppable agricultural progress

At the beginning of the previous century, Cornelis and Arij Van der Lely were already busy, as children with their Meccano kit, giving expression to their ideas for making physical labour in the agricultural sector easier. With the invention of the tedder, Lely made its mark as an agricultural company in 1948. Developments took shape in rapid succession. Around 1958, Lely started the development and production of the unique fertiliser spreader. In 1965, Lely marketed the uniquely shaped Lely Lotus hook tines. Lely's real breakthrough came with the development of the Lelyterra rotor head harrow in 1968. This development also signalled the company's internationalisation. In 1983, mower technology received an enormous boost thanks to the introduction of the modular cutter bar. The milking robot introduced in 1992 is undoubtedly the 20th century's most important invention for dairy farmers.

Under the inspirational management of the second Van der Lely generation, too, the company is constantly looking for methods that can improve dairy farmers' lives both financially and socially. In addition to the introduction of rakes and tedders with maximum working widths, the development of increasingly robotised barn equipment fits in with this aim. And ... this 60th anniversary bodes well for the years to come.



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