

LELY WELGER

Variable-chamber balers



www.lely.com

innovators in agriculture

It's a pleasure opening each new bale



Wide pick-up for maximum output

The 2.25 m camless pick-up easily picks up wide swaths, even on sharp bends. The five tine bars ensure excellent crop pick-up as well as smooth crop intake, eliminating any loss of crop.



Good chopping provides many benefits

A timely change of blades ensures an effective chopping action. Thanks to the Xtracut system, both knife banks can be engaged from the tractor seat, ensuring consistently high output.



High bale density thanks to the Constant Pressure System

High bale density reduces major costs such as binding material (net/twine), wrapping film and transport. The Constant Pressure System ensures consistent bale density right from the inner through to the outer layers of the bale.

Endless belts for high loads

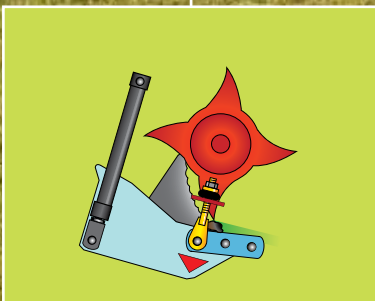
Lely Welger round balers feature endless belts, i.e. without any connectors! These endless belts can cope with extremely high loads.



Gentle handling of the grass is essential for high-grade forage

The proof that round bales make excellent quality silage is the low ammonia content. Opening a fresh bale and breathing in the fresh smell indicates the outstanding quality of the silage.

Round balers provide the benefit of the crop being picked up, chopped, packed and consolidated by the wrapper which instantly seals in the quality. A good chopping mechanism makes packing the bale easier because the crop can be compacted more effectively, thanks to the shorter stem length.

**Reliable throughput**

Output is decided by the space that is available for the crop to flow into the machine. Blockages are avoided due to the Hydroflexcontrol system.



What you feed is what you get!



Harvest results

A million cows are milked daily by Lely robotic milking systems but it's not only the Astronaut that makes robotic milking such a success. It's the knowledge and experience of our employees that help farmers to achieve the best results with their cows.

That's why we know – more than anybody else – that good quality roughage is the basis of your success. It ensures good animal health, maximum fodder intake and avoids additional cost for concentrates and additives...

Your forage harvesting is the start for good and efficient milk and meat production.





Camless pick-up for modern balers

The camless pick-up of Lely Welger RP balers has been designed as a result of the increased output from these machines. Improved crop throughput to the bale chamber has eliminated the need for the specific movement of a conventional pick-up. With no cam track the pick-up consists of fewer moving parts. It is more reliable, less sensitive to wear, quiet and maintenance friendly.



More tine bars – cleaner pick-up

Due to the additional space created through the absence of a cam track, five tine bars are now fitted to the pick-up. Along with the 64 mm interspacing of the tines, this allows an optimal pick-up capacity resulting in an even better and cleaner pick-up of the crop.

New pick-up – new tines

The tines are the most crucial part of a pick-up and therefore a completely new tine has been developed for the camless pick-up:

- The angle of the tine has been adjusted to ensure the cleanest possible crop pick-up under all conditions.
- The longer tine is more flexible and features improved adaptation possibilities.
- The tine is made of 5.60 mm thick material, favouring tine life. Due to the larger coil, the tine remains flexible.
- Improved tine fixation prevents tine breakage as the tension within the material is more evenly spread.

Closer to the rotor – improved crop throughput

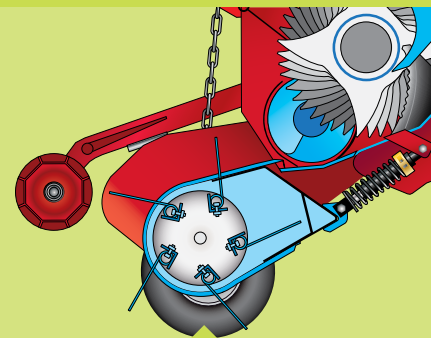
Due to its compact design the pick-up is positioned closer to the rotor. This ensures an improved crop flow to the bale chamber, well-shaped uniform bales and increased baling output.

Wear-resistant thanks to non-steered tines

Since the camless pick-up does not have a cam track, the pick-up unit consists of fewer moving parts. This is more reliable, less sensitive to wear, quiet and maintenance friendly. The result is clear to see: lower maintenance costs and a higher trade-in value!

Strong tines

The 5.60 mm Heavy Duty tine is fitted as standard on the camless pick-up.



No cam track

The pick-up has a rotor with five fixed tine bars and therefore fewer moving parts.



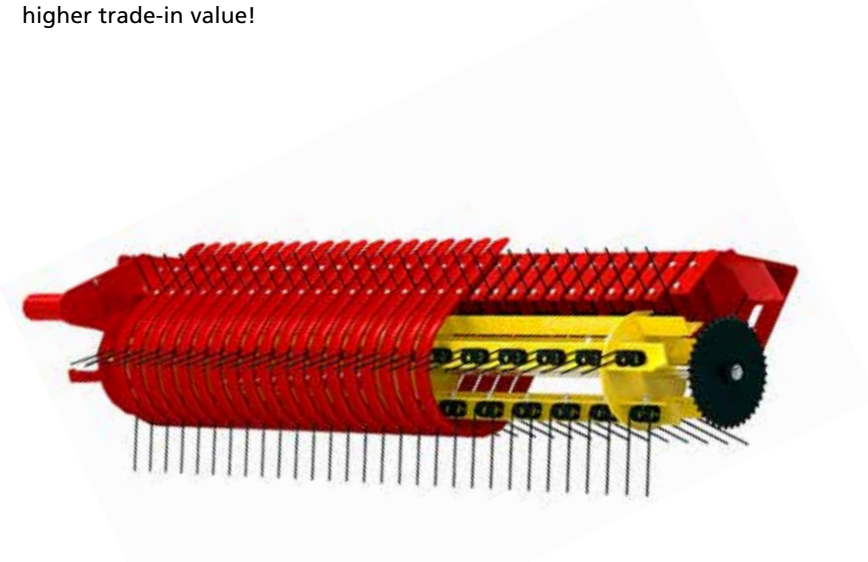
Closer to the rotor

Due to its more compact design the pick-up is closer to the rotor.



Crop press roller

The crop press roller is reinforced to avoid damage when it is raised by the crop flow.





Chopping silage improves your results in many ways

Lely Welger offers many options when choosing a chopping system for your baler. Initially this may seem like an additional investment, but chopping the crop will help improve the quality of your forage and thereby your results in so many ways that you would actually need a reason not to choose one.

Chopping for higher-density bales

Chopped hay, straw and silage crops are much easier to bale due to the reduced length and easier compaction of the forage. This ensures that heavy dense bales are produced leading to a reduction in handling, transport and twine/net-tying costs.



Chopping to improve feed intake

Silage that has been cut well will ferment much better due to the sugars in the crop being readily available. This results in tastier fodder, which has a positive effect on the roughage intake of animals. In addition, short crops are generally digested better.



Chopping saves time through easier distribution at feeding time

Chopping the crop will avoid the build-up of material and prevent blockages on moving parts of diet feeders, forage boxes and straw choppers, etc. Shorter material is also easier and faster to distribute.



Xtracut – extra output and additional comfort

To ensure optimum performance when chopping, Lely Welger has designed the Xtracut¹⁷ and Xtracut²⁵ chopping units with selectable knife banks. From the E-link control box in the cab the operator can choose various knife bank selections when baling different crops, which is ideal for contractors. When the baler is equipped with a BCE control box, the groups are selected manually on the machine.



Chopping lengths that can be easily adjusted

Both Xtracut versions have two sets of knife banks that are hydraulically protected. So on the Xtracut¹⁷ you have an option of not chopping, or of having eight, nine or seventeen knives engaged. With the Xtracut²⁵ you have a choice of not chopping, or of having twelve, thirteen or twenty-five knives engaged. For the Xtracut²⁵ this means a chopping length of 45 mm when all knives are engaged, or 90 mm when using twelve knives.



Proper chopping action

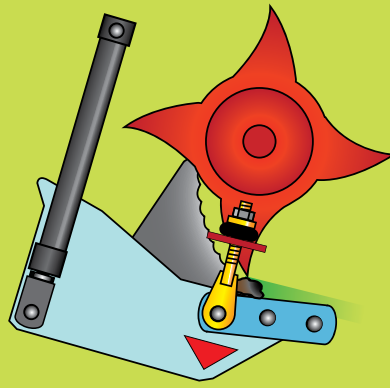
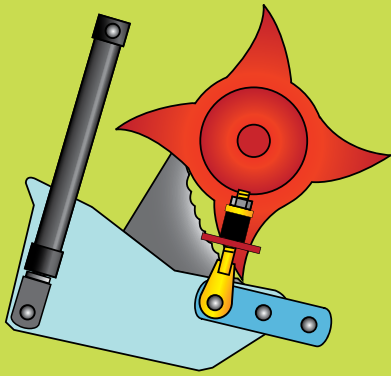
Consistently sharp knives ensure a proper chopping action and prevent excessive fuel consumption. The Xtracut option offers flexibility to the operator using one of the two banks of knives. When necessary the other bank of knives can be engaged in one simple operation from the tractor cab, ensuring continuing high output with a new sharp set of knives.





Hydroflexcontrol – a unique advantage

Quite often, time for harvesting is limited and sometimes operators overstep a baler's limits in terms of overload capacity. These limits are determined by the space the crop has to flow through in the machine, which is decisive for its output. With balers, the space underneath the rotor is the critical factor. The Hydroflexcontrol anti-blockage system increases this room in the case of a peak load, whilst at the same time reducing downtime as a result of an incorrect forward speed or resolving a blockage.



Flexcontrol + Hydroflex = increased baling output with less downtime

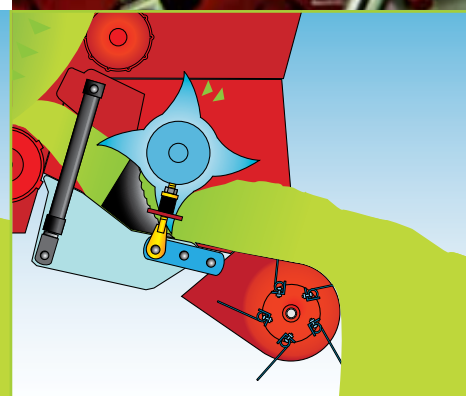
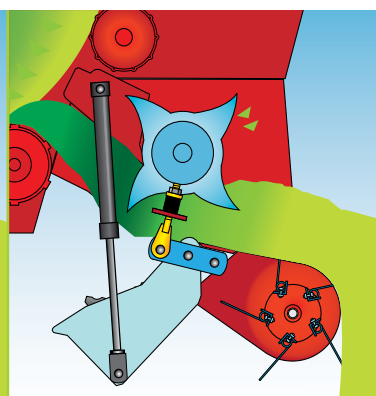
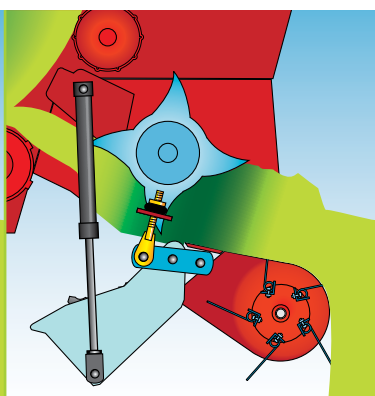
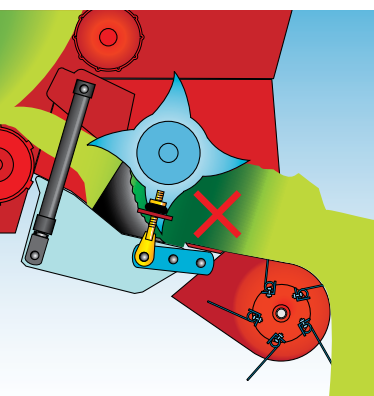
The two functions that are hidden in the name Hydroflexcontrol relate to the Hydroflex floor which is underneath the rotor. The flex part avoids blockages; the hydro part solves blockages as and when they may occur. All Lely Welger balers with a chopping unit can be fitted with the Hydroflexcontrol system.

The flexible floor deals with peak loads

Flexcontrol is situated under the rotor where the feed passage is at its narrowest. It allows movement of the front part of the feed chamber floor which can flex up and down via a rubber suspension unit – hence the word 'flex'. If a small foreign object or a wet lump of material is picked up from the swath, this flexing action will smooth out the crop flow reducing the risk of blockages in the feed area.

Dealing with blockages from the tractor cab

The second feature is the hydraulic stage, whereby the rear of the feed table floor can be lowered hydraulically from the tractor seat to clear the rotor of any blockage. When lowering the feed table floor, the fact that all knives are also withdrawn ensures that the blockage has passed into the bale chamber without any crop wastage before the operator re-engages the machine.



Step 1
Blockage.

Step 2
Feed table floor opens completely and knives are withdrawn.

Step 3
Drive is engaged and blockage passes into the bale chamber.

Step 4
Feed table floor is closed, proceed with baling!

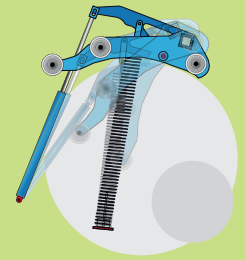
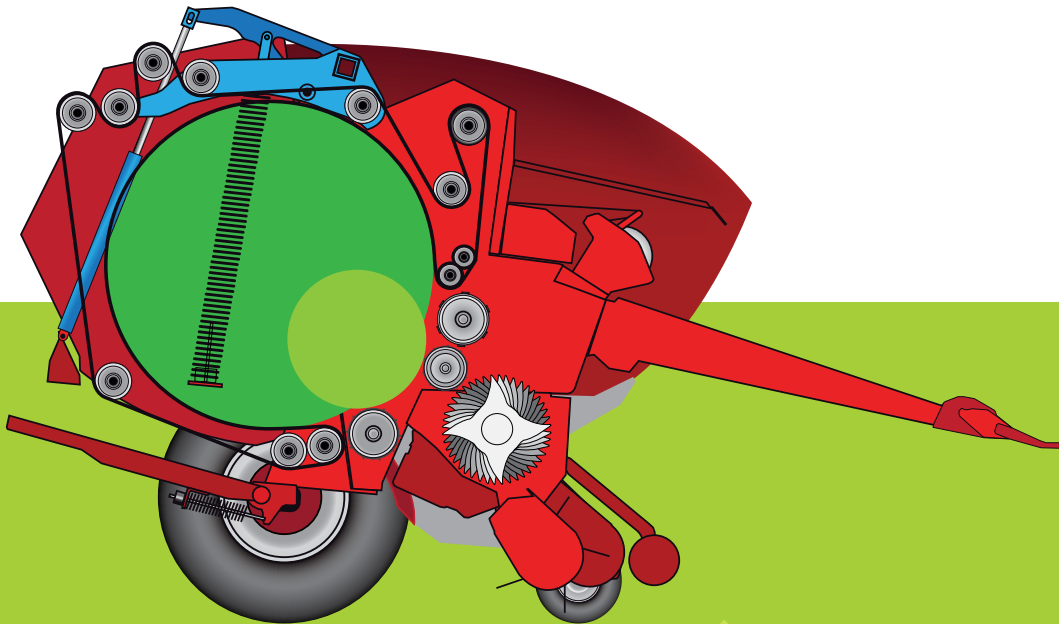
Heavy bales – reducing costs

In terms of cost price per bale, bale density is the most important success factor of any baler. A smaller number of bales reduces major costs such as twine/net tying material, wrapping film and transport.



The fastest bale start

The bale chamber is fitted with two rollers above the feed system, ensuring that a new bale is quickly produced. The big CPS springs ensure flexibility for the belts enabling a quick start; at the same time, they make sure that pressure is exerted on the crop right from the core of the bale.



The highest bale density

The Constant Pressure System is the only system that ensures consistent bale density right through to maximum diameters.



The best bale chamber geometry

The bale is always in the middle of the bale chamber. The tail gate even moves slightly to ensure a perfect bale shape.

Mechanical tail gate locking

Time is saved due to uniform bale size and the single-acting rams which make the tail gate go up and down faster.



The best drive

Bale rotation is ensured by the Opticlean system, three rollers in the bale chamber plus four belts with double drive.

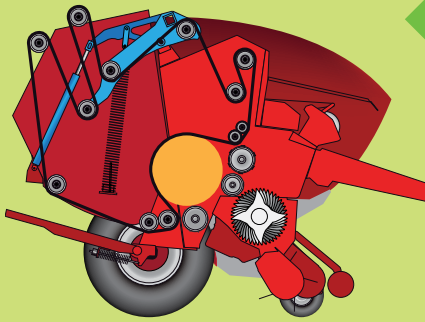
The strongest belts

Four endless belts, made of layers of synthetic material plus rubber layers, ensure optimum grip on the crop and, due to their unrivalled tensile strength, can exert an impressive pressure on the bales.

CPS – consistent density through increasing pressure

Correct bale density control is paramount in ensuring optimum performance of the baler from the start of the bale to its outer layers. Therefore, all Lely Welger variable-chamber balers feature the Constant Pressure System. This system increases the pressure when the surface of the bale grows, so density remains consistent through the entire baling process. Due to the balance between mechanics and hydraulics, cost price per bale is kept to a minimum.



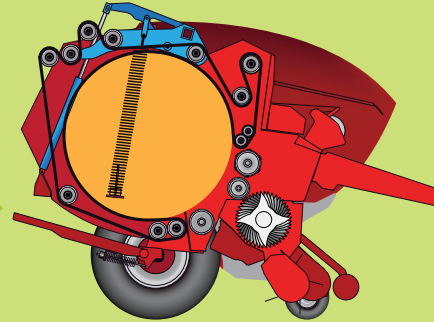


Step 1

Tension on the belts by large springs. Easy bale formation at a high forward speed. Good start because of the spring tension on the belts.

Step 2

After the initial bale formation by the springs, tension on the belts is taken over by the hydraulic system. Two rams connected to a self-contained hydraulic system will increase the tension on the belts and keep that tension consistent throughout the whole bale diameter. The carefully designed geometry results in a constant bale density.



Always in the centre of the bale chamber

Throughout the baling process, the core of the bale always remains in line with the crop feed system and the heart of the bale chamber. The tail gate even changes its position during the baling process. This geometry is hugely important for bale size and bale rotation and is the only way to make perfect bales.

Mechanical locking system opens and closes the tail gate far more quickly

To ensure minimum differences in terms of bale diameter, two mechanical hooks secure the tail gate once it is fully closed and ensure that it remains so throughout the baling process. This locking is linked to the two single-acting rams of the tail gate; these rams can open and close the tail gate far more quickly than double-acting rams on a baler with a hydraulic locking system.

Full speed right from the start

When starting a new bale, the operator can start at full speed. This is because the four belts of the baler take up the crop material effortlessly, right from the start of the baling process. The two big springs that form part of the CPS system ensure correct bale density right from the core. This benefits bale formation and ensures a properly structured bale core, which is very important for the end product. The big springs have a great capacity for adaptation, which provides space for the belts; they can easily absorb the major left-hand – right-hand differences in bale diameter.

A high density on the outer layers of the bale increases the bale weight exponentially

After the core of the bale has been formed, the hydraulic system is activated. Hydraulics react more gradually to changes than a mechanical system and can be controlled better. The hydraulic system keeps building up pressure until the pre-set density is achieved. The intelligent construction of the belt tension device and the position of the CPS rams make sure that the tension on the belts increases proportionally to bale circumference. Thus, the CPS ensures a constant density achieving maximum filling.



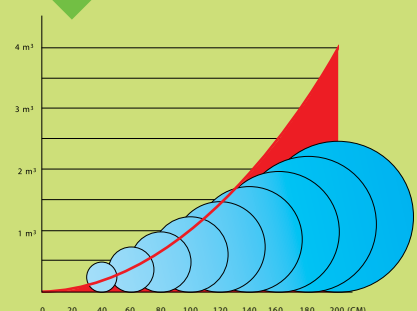
Bale density adjustment

The pressure that the hydraulic system transfers to the bale is manually controlled by RP 415 – RP 445 with BCE or through the E-link control in the tractor cab.



Better protected for weathering.

Volume increase is greatest on the outer layers of the bale. The graph below shows how important it is that a density control performs best in that precise area.





Effective tying saves costs and time

Making a perfect bale is one thing – preserving the bale for a longer period of time is a different matter... A variety of methods for storing, preserving and feeding bales necessitates a flexible tying system. Correct use of tying material limits costs and reduces the time required for tying the bales, which in turn increases output per hour.

Varionet – for perfect bale coverage every time

We do not just accept high-density bales, they should also look good. The Lely Varionet net wrapping system works perfectly with all standard net widths. Thanks to exhaustive testing, the well-proven tensioning system and a special net-spreading device, the net wrap is evenly applied across the bale. Wide net wrap will even reach over the edges of the bale. This means that not only do the bales look great, they are also completely protected against bad weather conditions and crop losses. This process also eliminates any unnecessary air pockets, thereby improving feed quality.

Varionet wrapping with Easy Load Net System (ELS)

The well-proven net-wrapping system now has the added feature of ELS which allows easier loading of the net roll from ground level from the left-hand side of the machine. After loading, the new net roll is simply tipped backwards with the storage container, lifted into the operating position via the spindle and then locked into position. A spare net roll can also be stored on the machine frame ready for use. It could not be any easier and will save you time and effort.

Variotwin – secure – fast – economically viable

The unique feature of this twine-tying system is the variable speed control. This device allows for an increased number of twine rotations at the bale edges, enabling the bale to be tied quickly and ensuring that the ends do not fall apart. In this way even the lightest of crops can be tied quickly and securely in a cost-effective manner.



The curved spreading tube conveys the net material up to and just around the edges of the bale.



Cost-effective tying with the combined function.



Lely Welger – experience and innovation result in the strongest and most reliable balers in today's market place



Wear-resistant and maintenance friendly

Since the new camless pick-up does not have a cam track, the pick-up unit consists of fewer moving parts. This is more reliable, less sensitive to wear, quiet and maintenance friendly. The result is clear to see; lower maintenance costs and a higher trade-in value.



Endless belts for the longest lifetime

Two core inserts made of special synthetic material allow particularly high tensile loads. These layers are securely manufactured with a large overlap, and independent from each other. No joiner, no problems!



Powersplit – designed for outstanding performance

Machines with a massive throughput need a drive system that is able to withstand the consequent high loads. The Powersplit transmission equally divides the amount of power required by the rotor and the bale chamber. This split drive train reduces the amount of horsepower required.

Environmentally friendly chain lubrication

Small swaths and wet crops constitute the heaviest conditions for a baler's drive chains. The automatic chain-lubrication system ensures that all baler drive chains are constantly lubricated with oil, ensuring a long lifetime. The quantity of oil can be adjusted for each chain and brushes apply the oil directly onto the chain. The large capacity of the oil reservoir means that oil does not have to be replenished on a regular basis.





Our experience can't be bought – that's why you get it for free!

You work with our machines in the great outdoors, an environment that is greatly influenced by the soil, weather and other external factors. New challenges are presented to machines every day. If you run into a problem it is essential that any breakdowns resulting from damaged parts are limited to an absolute minimum. It is for this reason that our dealers are geared up to respond rapidly, so that your activities can be resumed as soon as possible. They hold stocks of the most essential parts and have the expertise needed to get the machine in question performing optimally again. Furthermore, they can rely on the back-up of the Lely organisation seven days a week. So opting for Lely entails more than just choosing a machine. We ensure that your forage harvesting goes smoothly.





Lely Welger



RP 415



RP 445



RP 535 – RP 545



RPC 445 Tornado

Lely Welger RP 415

A new generation of variable non-chopper round balers with a very basic configuration. With bale diameters from 0.90 m – 1.60 m, these balers meet the high demands of today's users in terms of bale density and capacity.

TECHNICAL SPECIFICATIONS

WELGER	RP 415
Bale chamber diameter (m)	0.90 – 1.60
Bale chamber width (m)	1.23
Bale chamber volume (m³)	2.50
Pick-up width (m)	2.25
Pick-up rake width (m)	1.86

Lely Welger RP 445

The most advanced variable round baler in the market place, with bale diameters varying from 0.90 m – 1.60 m and the best tensioning system, crop intake and chopping systems. These balers ensure high throughput and a constant density throughout the whole bale. Configure these balers from very basic to the Master model which offers maximum comfort and flexibility.

TECHNICAL SPECIFICATIONS

WELGER	RP 445
Bale chamber diameter (m)	0.90 – 1.60
Bale chamber width (m)	1.23
Bale chamber volume (m³)	2.50
Pick-up width (m)	2.25
Pick-up rake width (m)	1.86
Chopping system (blades)	0, 13, 17, 25

Lely Welger RP 535 – RP 545

This series of balers will let you make round bales from 1.10 m to 2 m – the largest in the world. The Constant Pressure System ensures consistent density and the different intake systems are renowned for their large capacity.

TECHNICAL SPECIFICATIONS

WELGER	RP 535	RP 545
Bale chamber diameter (m)	1.10 – 2.00	1.10 – 2.00
Bale chamber width (m)	1.23	1.23
Bale chamber volume (m³)	4	4
Pick-up width (m)	2.25	2.25
Pick-up rake width (m)	1.86	1.86
Chopping system (blades)	0, 13	0, 13, 17, 25

Lely Welger RPC 445 Tornado

With the Lely Welger RPC 445 Tornado, Lely now has the first fully variable baler/wrapper combination in the market place. In addition to a variable baling chamber, the automatic wrapping system is variable as well. The time the Tornado takes to wrap a bale is so short that the output of the variable round baler can be maximised.

TECHNICAL SPECIFICATIONS

WELGER	RPC 445 Tornado
Bale chamber diameter (m)	0.90 – 1.60
Bale chamber width (m)	1.23
Bale chamber volume (m³)	2.50
Pick-up width (m)	2.25
Pick-up rake width (m)	1.86
Chopping system (blades)	25



Lely Welger RP 415

Round balers with variable chambers are used in varying circumstances and therefore the demands that are made on these machines also differ widely. The Lely Welger RP 415 range features perfect specifications for use in silage, hay and straw when there is no need to chop the crop. The feed rotor and wide pick-up have been designed for easy processing of wide swaths, while the proven CPS ensures optimum bale density. The best indication of the outstanding quality and sustainability of these balers can be found in the name... Lely Welger!



Wide pick-up – large swaths

The Welger RP 415 model has a 2.25 m wide camless pick-up with five tine bars. Pick-up capacity is huge; the long 5.60 mm tines have large coils and are therefore ideal for retrieving the crop from high stubble. Due to their great flexibility, the tines can easily adjust to uneven ground contours, thus eliminating contamination. Suspension of the pick-up is adjustable and perfect ground contour following is ensured in combination with the height chains and pick-up wheels.

Good crop intake – optimum results

An even and constant crop flow is of paramount importance to good output and bale shape. Especially with balers with a wide pick-up, a good feed system means the difference between a smooth, continued operation and a 'jerking and jolting' feeding of the crop. Due to the two transport augers, the crop that is collected on the outside of the pick-up is effortlessly conveyed to the 1.25 m wide entrance of the baler. Thus, the outer layers of the bale are even and compact.

Large feed rotor – maximum throughput

The Welger RP 415 model features a large feed rotor with large tines. Due to the diameter of the rotor shaft, the opening to the bale chamber is maximal, which ensures a tremendous flow. Power requirements remain low thanks to the low resistance in the feed channel.

CPS – best bales, highest speed

For round balers, the start of the bale is crucial in terms of bale shape and output. The mechanical part of the CPS ensures flexibility for the belts, making starting a bale smooth and easy. Especially in crops such as hay and straw, this ensures a huge increase in output.

As soon as the bale has a core formed, the hydraulic CPS mechanism is engaged and due to the well-designed geometry of the tensioning device for the belts, a highly consistent bale density is ensured thanks to the increasing pressure exerted by the belts. Thus, correct bale formation is ensured since baling density remains constant even up to the maximum diameter. The hard outer layer eliminates any loss of quality due to weathering and rain being absorbed.



The strong tines are made of resilient steel allowing them to avoid foreign objects quite easily.

Both the special rubber surface and the pressure exerted by the CPS ensure maximum grip on the bale.





Easy manual adjustment

The settings for bale size, bale density and net length are easily adjusted on the machine. Clear visible indicators show the density and the increasing bale size. A light indicates whether the tail gate is locked or not.



ADS – extra power for heavy crops

To be able to convey additional power to the belts, the RP 415 models can be fitted with the ADS (Additional Drive System) feature. The additional drive make the baler more suited to silage operations.



Balercontrol E

Four endless belts – endless trust

The four belts of the baler are constructed from five cord plies alternated with rubber intermediate layers, with strongly staggered connections between the layers. Result: a supple yet outstandingly strong belt that hardly stretches and contains no joiners. All in all, endless baling without replacement or repair.

Variable bales – easy to control

Baling density can be read from a clearly visible pressure gauge. Bale density can be controlled manually by means of a control block on the machine. In addition, the operator always has a clear view of the bale diameter. A light indicates whether or not the tail gate is locked.

Balercontrol E

As soon as the pre-set bale diameter has been reached, the BCE sends a signal to the operator, after which tying (net, combi or twine) is started either automatically or manually. BCE also shows the number of bales per day as well as the total number of bales.

As standard, the Lely Welger RP 415 model comes with

- 2.25 m camless pick-up.
- Large feed rotor.
- Varionet net-tying system.
- Balercontrol E.
- Automatic chain lubrication.
- Pick-up wheels.

Options

- Castor wheels for pick-up.
- ADS – Additional Drive System.
- Variotwin tying system.
- Variotwin and Varionet Combi tying.
- Wide-angle drive shaft with overload protection.
- Bale discharge ramp.



Lely Welger RP 445

Variable means: flexible. And that characterises this wide range of round balers. Whether operating in hay, straw or wet silage, the Lely Welger RP 445 model offers you the best performance. There is a lot of flexibility in the wide range of possibilities that this machine has to offer. Bale density, bale diameter, tying material and even cutting length can be controlled from the baler handset in the tractor cab if necessary.



Additional Drive System

All RP 445 models include an additional belt drive eliminating slipping of belts and ensuring correct operation in the heaviest of crops.



Opticlean

The Opticlean rollers not only keep the belts clean. In addition, they ensure the smooth running of the belts plus net feeding without any problems.

Wide pick-up with standard crop press roller and optional swivel wheels.



Flexibility of control

The RP 445 model can be fitted with either the simpler Balercontrol E or the more comprehensive E-link Pro.



The E-link Pro is more user friendly. First of all, the bright display is clear and offers a lot of space for useful information about the baler. The display also shows a status bar for left and right filling of the bale chamber leaving no excuse for a poorly shaped bale. The system is based on ISOBUS, so any tractor can be easily connected allowing you to use the control panel of the tractor too.



Wide pick-up – large swaths

As standard, the Welger RP 445 model comes with a 2.25 m wide camless pick-up with five tine bars. Pick-up capacity is huge; the long 5.60 mm tines have large coils and are therefore ideal for lifting the crop from the stubble. Due to the 2.25 m width of the pick-up, wide swaths can be picked up easily, even when making sharp turns with the machine. The pick-up suspension is adjustable, and in combination with the height chains, flexible tines and pick-up wheels, excellent ground contour following and the cleanest possible forage are ensured.

Powersplit – split power drive concept

Obviously, machines with a massive throughput need a drive system that is able to withstand the consequent high loads. The rugged Powersplit transmission (with oil bath) equally divides the amount of power required by the rotor and the bale chamber. Thanks to the Powersplit transmission, all shafts rotate in the correct direction straight away so that additional transmissions are not required while power loss remains restricted at the same time.

As standard, the Lely Welger RP 445 model comes with

- 2.25 m camless pick-up.
- Large feed rotor.
- Powersplit drive.
- Varionet net-tying system.
- Balercontrol E.
- Automatic chain lubrication.
- Fixed pick-up wheels.
- ADS – Additional Drive System.
- Opticlean roller.
- Crop press roller.

Options

- Castor wheels for pick-up.
- Mastercut¹³ chopping unit.
- Xtracut¹⁷ chopping unit.
- Xtracut²⁵ chopping unit.
- Hydroflexcontrol.
- E-link control.
- Variotwin tying system.
- Variotwin and Varionet Combi tying.
- Wide-angle drive shaft with overload protection.
- Bale discharge ramp.

Feed rotor or chopping unit

Depending on your requirements and applications, the baler can be fitted with either a feed rotor or one of three different types of chopping units. The large feed rotor features an exceptionally wide opening towards the bale chamber, ensuring its huge – and renowned – output. The durable rotor has tines made from resilient steel.

The benefits of an efficient chopping unit

- Lower costs per bale due to increased bale density.
- Improved forage intake due to improved preservation and feed quality.
- Time saving because of easier processing of the feed.

The additional investment in a chopping system is always worthwhile and the Lely Welger RP 445 range therefore comprises three configurations with thirteen, seventeen or twenty-five knives.

Mastercut¹³ – rigid and affordable

The comprehensive range of state-of-the-art chopping units starts with the Mastercut¹³. The crop is cut thoroughly by thirteen extra-long knives, reaching deep into the ring area of the large cutting rotor. Crops can be chopped to a bare minimum of 90 mm. The two-star rotor guarantees an impressive crop throughput.

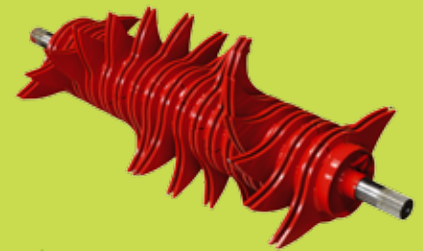
Xtracut¹⁷ – high throughput and optimal ease of operation

The seventeen knives of this chopping unit are divided in two groups of eight and nine knives respectively, which can be selected by the operator – via the E-link hand set – from the tractor cab. The large cutting rotor has an exceptionally open construction ensuring that the spirally configured tines have a good grip on the crop. Due to this rotor construction, crop throughput to the bale chamber is massive, ensuring high output when baling high-volume crops.

Xtracut²⁵ – maximum comfort and optimum chopping facilities

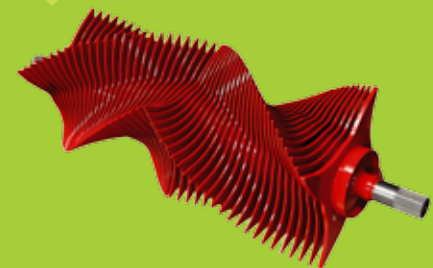
The Lely Welger RP 445 can be fitted with an Xtracut²⁵ chopping system with selectable knife banks. The twenty-five knives can be split into different groups, which can be used independently of one another. The operator can select twenty-five, thirteen or twelve knives from the E-link handset in the tractor cab without having to physically remove the knives, saving both time and effort.

Due to the large number of tines – four on each ring – the Profi rotor has a tremendous grip on the crop, ensuring year-round silage operations. This high-grade rotor guarantees non-stop performance and superior chopping quality in all crop types and weather conditions.



Xtracut¹⁷.

Xtracut²⁵.





Lely Welger RP 535 – RP 545

Lely offers Europe's largest variable-chamber round baler. To meet the trend for ever-increasing power and efficiency for crop harvesting we have developed a round baler of a unique quality for producing even larger bales. The available models offer a wide range of possibilities to meet the demands of all farmers and contractors.



2.25 m wide pick-up

Standard crop press roller and optional swivel wheels.

Huge bale chamber – enormous capacity

With a diameter of 2 m and a width of 1.23 m the resulting volume of nearly 4 m³ means weights of up to 600 kg with wheat straw can be produced. This is double that of some other balers. This reduces baling costs: it considerably reduces the number of bales, standing time is minimal and net consumption is reduced. Finally, field clearing time is also dramatically reduced.

Constant Pressure System – highest possible bale density

The bale chamber is designed so that the specific area pressure on the bale surface is constant from 1 m to the set bale diameter up to 2 m. This is achieved by increasing the belt tension with respect to the increase in bale chamber diameter. Therefore a high compression of the baled crop is achieved throughout the bale diameter.



Wide pick-up – large intake possibilities

The Welger RP 535 and RP 545 are fitted with a 2.25 m wide pick-up as standard, which gathers the widest of swaths leaving a clean field. The crop is then transported via a heavy feed rotor into the bale chamber. The Powersplit gearbox divides the drive between the intake and the bale chamber.



Feed rotor or chopping unit

The Welger RP 535 can be fitted with a feed rotor or the same cutting systems as the RP 445 – Mastercut¹³, Xtracut¹⁷ and Xtracut²⁵. The RP 545 can be fitted with the Xtracut¹³, Xtracut¹⁷ and Xtracut²⁵. In addition these balers come with Hydroflexcontrol. This feature allows blockages to be cleared from the feed rotor without leaving the tractor seat, which gives increased work output.

Bales up to 2 m!



RP 545 – a totally renewed front

The Welger RP 545 features a renewed Powersplit drive. The rugged housing now connects the drawbar to the main frame. An extensive pattern of holes in the casting provides ample opportunities for adjusting the renewed drawbar to the upper or lower linkage. The front of the baler also features a new safer standing platform. The machine now features one single standing platform with a banister on either side.

More durable technology

The Welger RP 545 has new 50 mm double roller Profi bearings in the tensioning system, which makes the baler more durable than ever before. All rollers and shafts which are part of the bale chamber will be fitted with greaseable bearings.

More comfort with ISOBUS electronics

The new E-link Pro is more user friendly. First of all, the bright display is clear and offers a lot of space for useful information about the baler. The display also shows a status bar for left and right filling of the bale chamber, leaving no excuse for a poorly shaped bale. The system is based on ISOBUS, so any tractor can be easily connected allowing you to use the control panel of the tractor too.

Handy field wizard for all field and customer statistics

All field and customer statistics can easily be set by the field wizard, a simple guide for gathering important data about number of bales or hours worked per field or customer. You will be able to export the data to your own computer using the USB connector.



Technical specifications

WELGER	RP 415	RP 445	RP 535	RP 545
Bale chamber	four endless belts			
Bale chamber diameter (m)	0.90 – 1.60		1.10 – 2.00	
Bale chamber width (m)		1.23		
Bale chamber volume (m³)	2.50		4.00	
Transport length (m)	4.98		5.23	
Transport width (m)		2.40		
Transport height (m)	2.75		3.15	
Pick-up width (m)		2.25		
Pick-up rake width (m)		1.86		
Pick-up tine bars		5		
Pick-up tine spacing (mm)		64		
Pick-up type	camless			
Crop press roller	S	S	S	S
PTO speed (rpm)	540			
Power requirements (kW/Hp)	52/70	60/80	81/110	
Hydraulic requirements	2 x SA		2 x SA (1 x DA)	
Power Split transmission	X	S	S	S
Automatic chain lubrication	S	S	S	S
Feed rotor	S	S	S	S
Mastercut ¹³	X	O	O	O
Xtracut ¹⁷	X	O	X	O
Xtracut ²⁵	X	O	X	O
Hydroflex	X	O	O	O
Balercontrol E	S	S	S	X
E-link control	X	O	O	X
E-link Pro	X	O	X	S
Varionet net wrap	S	S	S	S
Variotwin twine wrap	O	O	O	O
Combi tying	O	O	O	O
Bale discharge ramp	S	S	S	S
Pick-up swivel wheels	O	O	O	O
Wide-angle PTO shaft with overload protection	S	S	S	S
Hydraulic brakes	O	O	O	O
Air brakes	O	O	O	O
15.0/55-17	S	S	S	S
19.0/45-17	O	O	O	O
505/50R17	O	O	O	O
500/55-20	O	O	O	O
500/60-22.5	X	X	O	O

S = Standard / O = Optional / X = Not available on this machine



Lely Welger RPC 445 Tornado

A variable chamber provides the opportunity to produce bales with different diameters with great ease. Consequently, you can always produce bales with optimum efficiency, or respond to customer requirements. Obviously, you require the same flexibility from the wrapping system. After all, the film should cover the heart of the bale and the number of rotations should be consistent with the bale diameter and the required number of film layers. Thus, all bales are perfectly wrapped, costs for film are correct and wrapping times are minimal. The Lely Welger RPC 445 Tornado is the first baler/wrapper that meets this full set of requirements. The Tornado operates amazingly fast and automatically adjusts the entire wrapping process to the bale diameter.



The wrapper rotates even before the tail gate is closed.

Silent drive of the wrapper by rubber rollers.



Smooth bale transfer – even on extremely steep slopes.

The Tornado wrapping system – the new benchmark!

The entirely new set-up of this baler/wrapper springs from the idea of designing a wrapping system that is so fast that bales with a diameter of between 0.90 m – 1.60 m can be perfectly wrapped.

Tail gate open, tail gate closed and off you go

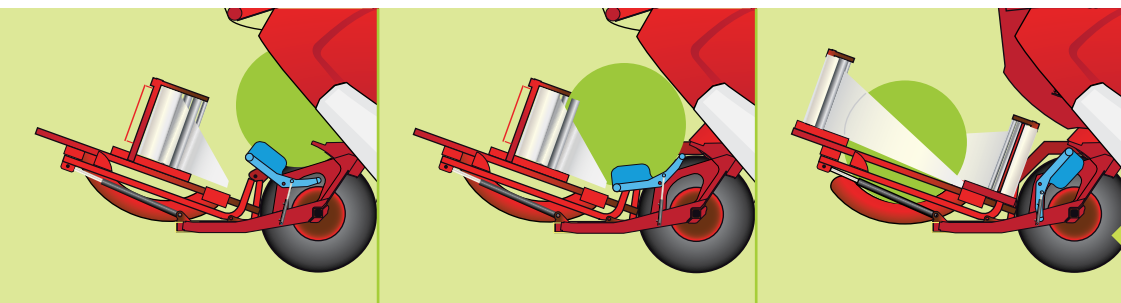
If you want to be really fast, you need to utilise every split second, just like a 100 m sprinter. This is exactly what the wrapping system does. The machine's quick bale transfer is a perfect example of optimum time saving; the baler being positioned higher, the bale – steered by the bale guidance – is transferred smoothly onto the wrapping table. As a result the tail gate can be closed immediately. At the same time, the ring wrapper makes optimum use of the space behind the tail gate. The fact is that the Tornado is already wrapping even before the tail gate is closed...

Fast and steady bale transfer

The major gain in speed is in the bale transfer; even with difficult angles, the bale will smoothly roll onto the wrapping table. The transfer between the baler and the wrapping table is smooth and accurate, even on steep slopes.

Smooth drive – little maintenance

The ring is driven by rubber drive rollers, while two other rollers ensure that the position is maintained as well as tensioning the ring. Also, the ring is supported by rubber rollers so that the entire assembly operates very smoothly and is noise free. The brake device consists of brake shoes that are pressed against the wrapping ring.





Simple film-break sensor; in the case of a broken film, the bale can be wrapped with the remaining one, or the ring will stop and the broken film can be repaired – programmed from the handset.



A consistent overlap during the bale rotation being monitored.



New and highly compact film clamps with a huge scope.



Careful depositing of bales on the ground due to the low position of the wrapping table.



Automatically adjusted to any bale

The essential factors for automatic operation of the wrapper are bale diameter and the required number of film layers. Therefore, the bale diameter is measured during net tying and passed on to the wrapping system, which immediately adjusts the correct height of the wrapping ring. Thereafter, the computer calculates the number of rotations that are needed to provide the bale with the required number of film layers.

Easy variation and the utmost versatility mean that if the last bale in the field does not reach the required bale diameter, or, quite the opposite, is slightly bigger, that is no problem at all. The Tornado wrapping system measures every bale, so that the wrapper adjusts to the correct settings at the moment of net tying. This is the ultimate in flexibility!

Correct rpm quickly reached

Time saving during the wrapping process contributes greatly to the short cycle time of this baler/wrapper. Due to the smooth drive of the ring wrapper, the film rollers can be quickly adjusted to correct rpm rates. The film clamps also play an important part. Thanks to the re-engineered construction, only a small opening is required to release the film, and consequently the wrapper does not have to slow down needlessly.

Baling without wrapping

The wrapper can be switched off for the baling of hay or straw; the completed bale would then be transferred via the table to the ground, or retained until a second bale is formed so that two bales can be deposited together.



New big rotor

The extra-large rotor with six tines on each ring guarantees outstanding crop flow.



Hydroflexcontrol

Obviously, the Tornado has Hydroflexcontrol for the rotor as standard.



Large tyres

The large tyres ensure minimum ground compaction/damage, and also give good stability both in the field and in road transport.



Film clamps – large reach, smooth operation

Because of the varying film height, the film clamps need to have a very large reach. Therefore, the two step film clamps have an exceptionally wide opening through two steps. The locking method ensures maximum grip on the film so that it is properly cut and held in position.

A well-known baler with a new feeding system

The heart of this baler/wrapper – the familiar 4-series variable balers – has proved its outstanding bale density, output and reliability for many years. On that score, there is absolutely no doubt that the new 800 mm cutting rotor adds a new dimension to its reputation. The generous set-up of the rotor – with six tines on each ring – features the Xtract²⁵ chopping unit.

Hydroflex, of course!

Every Lely Welger baler with a chopper rotor can be fitted with the Hydroflex feeding channel floor. The rubber blocks ensure that the floor can flex downwards underneath the rotor so that a stone or crop lump can pass through. Should a blockage occur, the floor can pivot downwards so that the problem can be easily sorted.

Camless pick-up

The Tornado features a re-engineered 2.25 m wide pick-up without a cam. The revolution speed of the five tine bar pick-up, augers and rotor have been adjusted in such a way that a perfect pick-up and flow of crop are ensured. Since the pick-up does not have a cam track, the number of rotating parts is minimal, making this combination baler/wrapper even more reliable and maintenance friendly.

Exceptionally compact in transport

Up to now, roads with hedges, narrow bridges and gates have always remained an obstacle for many agricultural machines. This new baler/wrapper combination has been designed so that its transport width remains restricted to a mere 2.80 m with a length of only 5.75 m! Combined with the wide tyres, the upshot is an outstandingly manoeuvrable, stable and versatile machine.

As standard, the Tornado comes with

- 2.25 m camless pick-up castor wheels for pick-up.
- Extra-large Profi rotor.
- Xtracut²⁵ chopping unit.
- Hydroflexcontrol.
- ADS drive system and Opticlean rollers.
- Varionet net-tying system.
- Pro-link control unit.
- Automatic chain lubrication.
- Drive shaft with cam clutch.
- Storage for twelve rolls of film.
- 710/40R22.5 tyres.
- Film-break sensors.



Fourteen film rolls: two on the ring and twelve underneath the guards.



Easy change of film rolls.



Exceptionally compact in the transport position due to the nearly vertical configuration of the wrapping ring.



Suited to upper and lower linkage.



Easy manual controls at the rear of the wrapper.



Bale tipper.

Technical specifications

WELGER	RPC 445 Tornado
Bale chamber	four endless belts
Bale chamber diameter (m)	0.90 – 1.60
Bale chamber width (m)	1.23
Bale chamber volume (m ³)	2.50
Transport length (m)	5.75
Transport width (m)	2.80
Transport height (m)	3.45
Weight (kg)	6,100
Pick-up width (m)	2.25
Pick-up rake width (m)	1.86
Pick-up tine bars	5
Pick-up tine spacing (mm)	64
Pick-up type	camless
Crop press roller	S
Pick-up swivel wheels	S
PTO speed (rpm)	540
Wide-angle PTO shaft	S
Power requirements (kW/Hp)	97/130
Hydraulic requirements	1 x DA, 1 x press (40 l/min), 1 x free return / 1 x DA + LS
Load-sensing preparation	S
Power Split transmission	S
Automatic chain lubrication	S
Xtracut ²⁵	S
Hydroflex	S
Pro-link control	S
Varionet net wrap	S
Film holders (mm)	2 x 750
Extra film rolls	12
Film-break sensor	S
Wrapping cycle time for 6 film layers (seconds)	45
Tyres 710/40R22.5	S
Additional net roll storage	1
Hydraulic brakes	S
Air brakes	O
Bale tipper	O

S = Standard / O = Optional / X = Not available on this machine



Passionate about farming

Lely has a long and deep history of recognizing the needs of modern farmers. Our products are developed with the cow as starting point. We strive to let her excel and as such, we supply products to farmers and contractors ranging from forage harvesting, to feeding, housing, caring, milking and energy sourcing. In addition we boast specific knowledge and experience in facilitating farmers to get the best out of their equipment. As such our in-depth knowledge of the complete farm cycle – from grass to glass – is unrivalled in the agricultural business.

*We are committed to a sustainable, profitable
and enjoyable future in farming.*

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