

# LELY WELGER

## Baler Wrapper Combinations



Silage harvest – baling and wrapping –  
quick and reliable



[www.lely.com](http://www.lely.com)

— innovators in agriculture —

# ***SMARTER, FASTER, STRONGER!***



## Smarter, faster, stronger!

These are three powerful terms 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

Reversing systems only transport crop backwards and forwards through the same gap, swaths are not evened out and therefore there is a high risk that the blockage will reoccur.

To avoid this, drivers are normally required to leave the tractor cab and even out the blockage once it has been reversed, a waste of time and effort. Lely's exclusive HydroFlexcontrol allows these blockages to pass through a wider opening.



## Faster

In order to increase economic viability, machines need to be capable of multi-tasking. Long-term increase in economic viability is achieved through simultaneous procedures.

On the Double Action, this idea has been put into practice in an ingenious manner. Whilst the round baler harvests the crop and compresses it with an exceptionally high density, the bale previously formed is already being wrapped on the interregional wrapper by a high-performance double-armed unit.

Only one tractor and driver are required for both operations. This means that, once the baler has finished a field, the wrapper will be ready one wrapping cycle later. You can't get faster than that!

## Stronger

The best balers are worthless if the bale density is allowed to reduce as the bale is formed. Therefore, Lely Welger round balers are fitted with a mechanical tailgate lock. Whereas hydraulic systems tend to open / leak under heavy loads; the tailgate hooks on the Welger baler remain firmly closed. The result is even-sized, high density, dimensionally constant bales with remarkably little loss of crop







## 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.





## Tried and tested concept – tried and tested technology

The characteristics defining the RP 235 are high capacity, excellent bale density and, not least, superb bale shape. The sturdy construction of this machine, its ease of use and long service life make it ideal for installation in a top-class baler wrapper combination. These two units combined together result in a highly efficient harvesting machine.





## Power split drive, designed for outstanding performance

Machines with a high capacity obviously require a drive line that is able to withstand the high loads which could be placed on it. The Lely Welger round balers RP 235 and RP 235 Profi have the Power split gear transmission, which equally divides 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.





## Power grip steel rollers

The Power grip steel rollers on the RP 235 allow for the highest possible density and bale rotation in any conditions. In a special manufacturing procedure, ten longitudinal ribs are pressed into a thick walled seamless tube. This design gives the high strength rollers a long service life.

## Roller bearings with "self-cleaning effect"

Even with a huge amount of preventative work, dust and harvest residues get into the roller bearing housing. For many years, Lely has had excellent results with the clearing paddle. Penetrating material is transported out through an opening in the side wall of the bale chamber where it cannot cause damage to the bearing.

## PTO shaft

The 80° wide-angle PTO shaft with a quick release lock on the tractor is fast, easy to operate and securely attached. It allows tighter turning without having to switch off the PTO shaft.

This makes the machine extremely easy to manoeuvre and relieves strain on the PTO shaft. The standard automatic re-set clutch protects the machine against inadvertent overload. This is easy to operate, and no time-consuming shear bolt replacement is necessary.

## Wide pick-up with ball bearings throughout

The pick-up on a baler operates in an area where it is subjected to a large amount of wear. Above all, the high proportion of contamination which can gather here means that plain bearings such as those used on other machines for control and support of the tine bars don't stand a chance. Here, too, Lely sets new standards.

Specially sealed grooved ball bearings ensure smooth operation and are also far better than plain bearings as far as service lifetime is concerned. Precise height control via a spring-balanced hydraulic lifting device, accurate position height chains and guide wheels on both sides, (also available as an option in castor wheel design), are standard on this machine.







## 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



DA 235



DA 235 Profi



## DA 235

Even the basic version of the Lely Welger combination unit displays the superb characteristics of a highly reliable harvesting machine.

The rigidly constructed chassis with its 10 "Power grip" longitudinal rib rollers, the mechanical tailgate locking device, the quick and easy to load net wrap ELS (Easy Load System) and the particularly simple E-Link Wrapper Control are already integrated into this machine as standard equipment.

Additional features; for example the crop cutting unit XtraCut<sup>17</sup> or even a tandem axle; are also available on request.

### TECHNICAL SPECIFICATIONS

WELGER Double Action	235
Dimensions L x W x H	6.95 x 2.93 x 2.45 m
Bale chamber diameter	1.25 m
Bale chamber width	1.23 m
Bale chamber volume	1.5 m <sup>3</sup>
Wrapping output: up to	50 bales/h
MasterCut <sup>13</sup> crop chopping unit	o
XtraCut <sup>17</sup> crop chopping unit	o
XtraCut <sup>25</sup> crop chopping unit	–

● = Standard; o = Optional; – = Not available

## DA 235 Profi

With its roller bearings and shafts designed for high performance and strength, this machine is perfect for professional operations. Performance enhancing equipment such as, for example, castor pick-up guide wheels or the XtraCut<sup>25</sup> short cut crop cutting unit are already included in the basic package.

The baler management is dealt with simply via a BC III handset, whilst the fully automatic wrapping control is dealt with by the E-Link. In this way, the operator sees all functions and procedures displayed very clearly and in an easily understandable way.

### TECHNICAL SPECIFICATIONS

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MasterCut <sup>13</sup> crop chopping unit	–
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XtraCut <sup>25</sup> crop chopping unit	●

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## Lely Welger DA 235-235 Profi

Time plays a major role during the silage season - and time is money. Who has never experienced these problems: rain clouds are threatening or the sun is scorching the grass, causing it to dry out far too quickly. Every minute, or even every second counts in these situations. Thank goodness for the Double Action RP 235 and the RP 235 Profi. These machines don't waste a second whilst picking up the crop, compacting it, transferring it to the wrapper and wrapping and discharging it!



## More bales per hour

The RP 235 is internationally renowned for its exceptionally high output and impressive density. All other advantages characterising an RP 235 solo machine are of course present in the Double Action machine.

## Power grip

The basis for the especially high bale compression is the bale chamber with its 18 Power grip rollers arranged around it. In a special procedure, 10 longitudinal ribs are pressed into a thick-walled, seamless tube.

This produces a roller capable of taking on extremely high loads. Supporting plates or similar additional components are not required due to this design.

## HydroFlexcontrol – exclusive to Welger balers

A particular characteristic of the baler is its HydroFlexcontrol floor (for availability, please see specifications). The sprung feed channel floor levels out even severe irregularities in the swath, meaning that blockages in the intake area are mainly avoided. Blockages caused by a massive overfilling or foreign objects can be easily and above all quickly removed by hydraulically lowering the floor.

HydroFlexcontrol can increase baling performance by 15% and more. This makes a reversing system, which doesn't actually remove the blockage, but merely moves it, unnecessary.

## Central lubrication system

We have focussed on good accessibility, as regular maintenance means functional safety and a high service lifetime.

The centrally-positioned continuous chain lubrication with a large reservoir allows for prolonged operation without interruptions. All lubrication nozzles, in particular those on the roller bearings, are easily accessible.

## Varionet wrapping with Easy Load System (ELS)

The well-proven net wrapping system has now the added feature of ELS. The "Easy Load System" may not quite make loading the net roll child's play, but anything easier really can't be imagined. After being inserted from the side, 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, saving you time and effort!







## Quick bale transfer

The bale transfer is an extremely important function in a combination machine. On the Double Action, the wrapping table pivots with its loading arm directly under the tailgate. After leaving the bale chamber, the bale is loaded and pivoted into the wrapping position, whilst the tailgate closes, in total synchronisation with each other. This procedure takes exactly the same time as a Solo RP 235 would to eject a bale, meaning that the Double Action has exactly the same high bale capacity.





#### Monitoring of film breakage

Monitoring film wrapping breakage is carried out via a light barrier on the Double Action. Once a film roll has been used up, or if a film tears, the light barrier can be set so that it switches automatically, making the table rotate at half speed. The current bale then finishes wrapping with the pre-selected overlap using one roll.

Once the fault has been rectified, the system automatically switches back to full table rotation speed. If a film fault occurs, a warning is emitted on the handset, giving the option to continue wrapping at half speed or to rectify the film fault.

#### Safe wrapping system

Thanks to large guide rollers, the bales rotate securely on the wrapping table. This is particularly advantageous when working in extreme conditions, for example on very steep slopes.







## Peak performances in silage

The concept of these machines is based on baling and wrapping of pre-wilted material for high-quality silage. The efficiency of these machines is of equal importance as the high bale density they can achieve. The clean collection of material, the immediate wrapping and therefore the immediate removal of oxygen result in the best fundamentals for silage of the highest quality.



## MasterCut<sup>13</sup>

The wide range of Welger chopping units starts with the MasterCut<sup>13</sup>. 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.

## XtraCut<sup>17</sup> – 100% more operation time

XtraCut<sup>17</sup> offers even more. The group control allows either full usage of 17 knives or selectable usage of group A with 9 blades or group B with the other 8 (or 0). 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.

For the best performances on silage, the Double Action 235 Profi comes with a crop chopping unit in a class of its own:

## XtraCut<sup>25</sup>

With its 25 extra-long blades, the cutting quality is once again considerably improved. Like the XtraCut<sup>17</sup>, 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 simple as the previous two units.

### Everything in view – everything to hand

The Lely Welger RP 235 Profi is supplied as standard with the very easy to use Baler Control E-Link. This electronic control provides information about all operating functions and enables easy preselection, and adjustment of the various operating units.







#### Special equipment:

The Double Action 235 and 235 Profi can be fitted with a number of options which can prove extremely useful. When manoeuvring the machine and when monitoring the wrapping procedure, a rear view camera can be used to observe the area behind the machine from your tractor seat.

For work on difficult terrain, for example wet meadows, the machine can be fitted with a tandem axle, which in turn can have different tyre sizes. A bale ejection mat guarantees "gentle" bale ejection onto stony surfaces.

In particularly hilly areas, it can be advantageous to tip the bale on its end this prevents the bales rolling away, also an additional film roll holder means that you always have enough film, even during the longest of working days.

The permanent roller lubrication device, also available as optional equipment, minimises maintenance and increases the service lifetime of the roller bearings. This gives professionals much-needed operational security.





## Technical specifications

LELY WELGER Double Action	235	235 Profi
Dimensions (Length x Width x Height)	6.95 x 2.93 x 2.45 m	
Bale chamber dimensions diameter	1.25 m	
Bale chamber dimensions width	1.23 m	
Bale chamber dimensions volume	1.5 m <sup>3</sup>	
Twine consumption / Net running length c.	10 m	
Pick-up width	2.25 m	
Spacing between outer tines	1.86 m	
Tine spacing	64 mm	
PTO shaft	540 rpm	
Max. Permitted speed with compressed air brakes	40 km/h	
Net width	1.23 or 1.30 m	
Net running length	2000 or 3000 m	
Wrapping device/Double-arm wrapper,	standard	
Film width	500 or 750 mm	
Pre-stretching	33 or 50 or 70 %	
Wrapper arm speed	28 rpm	
Wrapping output	up to 50 bales/h	
Equipment: ● = Standard; ○ = Optional; – = Not available		
Drawbar, adjustable	●	●
Baler control E-Link	●	●
Pick-up width 2.25 m	●	●
Pick-up castor guide wheels, suspended	○	●
Hydroflexcontrol feeding channel floor	●	●
Crop chopping unit with 13 blades, MasterCut <sup>13</sup>	○	–
Crop chopping unit with 17 blades, XtraCut <sup>17</sup>	○	–
Crop chopping unit with 25 blades, XtraCut <sup>25</sup>	–	●
Varionet net wrapping	●	●
Net roll holder, additional	○	○
Film roll holder, additional	○	○
Compressed air brakes system for 40 km/h	●	●
Single axle, tyres 500/55-20	●	●
Tandem axle with four-wheel brake, tyres 15.0/55-17 Impl.	○	○
Further tyres / axle versions available on request	○	○
Universal joint with free-wheel clutch	●	●
Automatic chain lubrication	●	●
Lubrication system for roller bearings	○	●
Rear view camera	○	○
Bale ejector	●	●
Facing side ejector	○	○
Bale mat	○	○

# 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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