

# ROLL-BELT

Roll-Belt 150 | Roll-Belt 180



# Roll-Belt. Change your baling style.

New Holland has led the Roll-Belt baler segment for over 25 years, and has introduced a string of pioneering firsts that have revolutionised the way variable chamber balers operate today. Over 275,000 Roll-Belt balers are working around the globe in the expert hands of farmers and contractors to bring the harvest home. The latest generation is set to redefine round baling with advanced Roll-Belt technology that can improve capacity by up to 20% and density by up to 5%. What's more, operators can select between a 150cm or 180cm maximum bale size to suit their individual needs. The Roll-Belt baler will also captivate the eye with its distinctive sweeping lines, which add a touch of class to every baling operation.

## Outstanding capacity

Think variable chamber productivity. Think New Holland Roll-Belt baler. Capacity has been increased by up to 20% thanks to the redesigned pick-up. Just imagine clearing every field 20% faster, or doing 20% more work every day! This higher throughput means more crop is baled at optimum conditions. The feed assist roller makes all of this possible, funnelling crop into the rotor even more efficiently. Seconds have been shaved off already impressive wrap times to get you back to baling even more quickly.

## Bale quality

The Roll-Belt guarantees top drawer bale quality. Always. An all-new moisture sensing system, which uses two discs on either side of the bale chamber to calculate average moisture, enables operators to respond, in real time, to changing baling conditions. Bale shape sensors on either side of the chamber provide instant feedback to the operator so that they can adjust their driving pattern to make perfect shaped bales. Operators can select how dense a core they require. In-cab density adjustment allows the operator to customize the core and outer density of the bales to suit their preference. Softer cores are perfect for easy feeding and when the bale needs to 'breathe' whereas a firmer core makes for excellent storage and handling properties. Furthermore, uniform wrapping completes the package.

## Ease of ownership

The Roll-Belt baler belongs in the field, and efficient servicing and maintenance mean your baler will spend more time in the field, earning its keep, as opposed to being kept. The one piece side and front shields mean operators have unfettered access to all service points and moving parts to keep the baler in tip-top condition. All service points can be reached from the ground and additional net storage enhances baler autonomy.

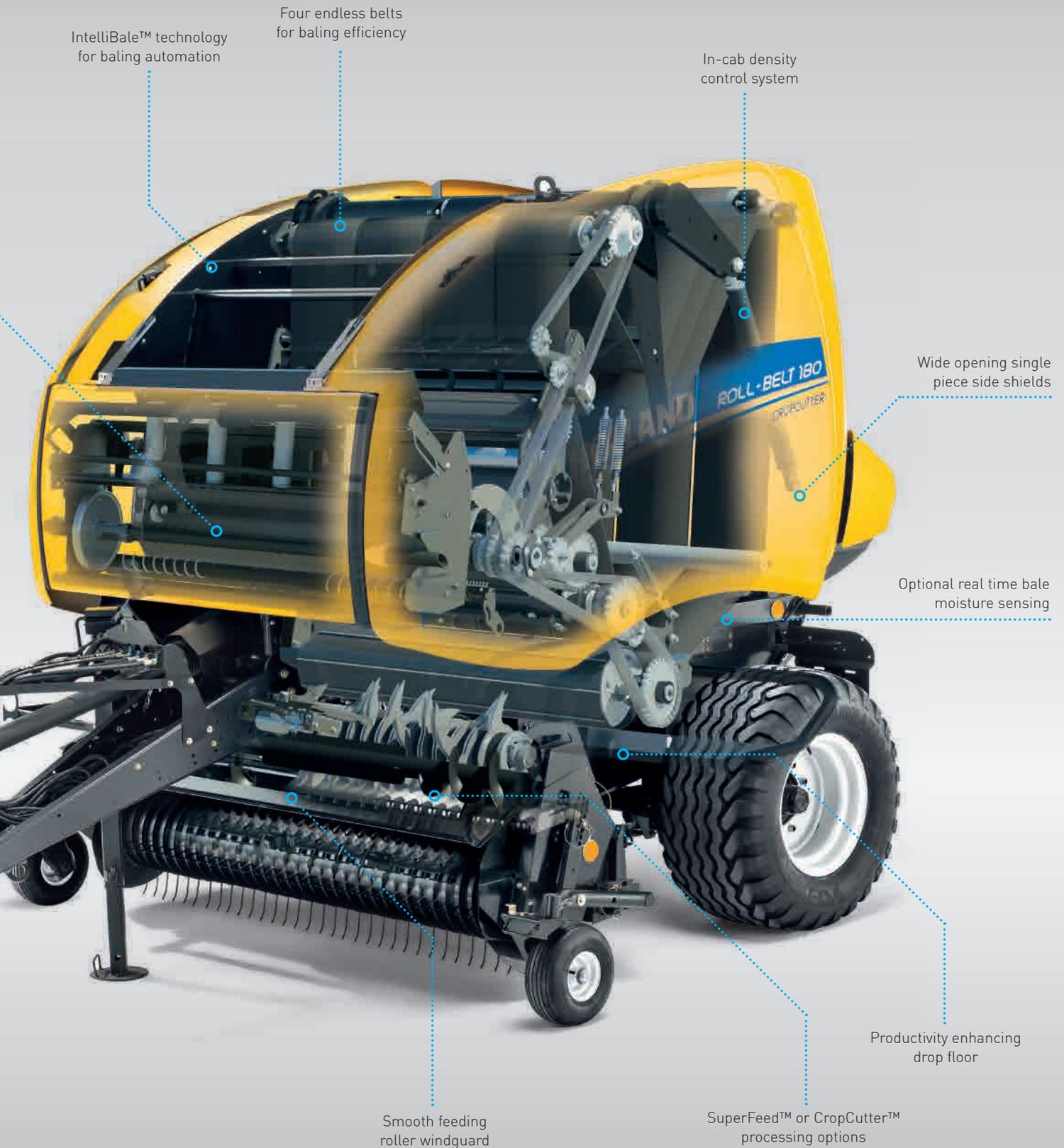
## Absolute baling pleasure

Operators will relish long baling days as the Roll-Belt baler has been designed with them in mind. IntelliBale™ technology enables the baler to control the tractor's forward motion: bringing it to a halt when it is ready to wrap the bale, raises and closes the tailgate when the bale has been ejected and then gives a signal to continue baling. Drop floor technology, which can be operated from the cab, together with density control functions, both increase productivity and reduce operator fatigue.

Fast Duck bill net application system with EdgeWrap™ system



Models	Version available	Bale Diameter Min. / Max. (cm)	Bale Width (cm)	Minimum PTO power (hp)
Roll-Belt 150	SuperFeed / CropCutter	90 / 150	120	70 / 100
Roll-Belt 180	SuperFeed / CropCutter	90 / 180	120	80 / 105



# A long history of Roll-Belt baling from New Holland.

New Holland invented modern baling over 70 years ago with the invention of the world's very first self-tying pickup baler in 1940, and an unceasing quest for continual innovation was started. The very first round baler was launched 40 years ago back in back in 1974. Fast forward 15 years to 1989, and the first Roll-Belt baler was produced, the Model 630, and the rest, as they say, is history. Born in New Holland's ancestral home and Centre of Round Baling Excellence in Pennsylvania, USA, today's Roll-Belt balers have been designed and developed in Plock, Poland, in collaboration with New Holland's Centre of Harvesting Excellence in Zedelgem, Belgium. An extensive global testing programme, which saw over 125,000 bales produced, means your Roll-Belt baler is sure to satisfy your individual needs.



- 1974:** The very first round baler is developed, the Model 850 and uses chains to produce a 150cm bale.
- 1976:** The range's popularity leads to the introduction of the Model 845, which produces smaller, 120cm bales.
- 1978:** The fast expanding range now features the Models 851 and 846.
- 1979:** The Model 852 proves a hit with farmers.
- 1982:** The most advanced chain baler to date is unleashed: the Model 849.
- 1989:** The face of variable chamber baling changed forever with the introduction of the Model 630, the very first belt baler.
- 1991:** Keen to enhance performance, New Holland upped the game with the Models 650 and 660.
- 1992:** Responding to requests from hay and forage contractors, the Model 640 Silage Special is launched: delivering super dense bales.
- 1995:** Bale-Slice™ technology is introduced on the Model 664 Silage Special. Enabling greater nutritional values, it became popular with livestock farmers the world over.
- 2002:** The upgraded BR700 series is launched, and the all new BR740 CropCutter, for the finest chop, and densest silage bales, is launched.
- 2005:** The BR-A series comes into being, which offers a greater choice for baling professionals.
- 2006:** The milestone of 200,000 round balers is reached at the New Holland production facility in Pennsylvania, USA. Testament to the baler's universal popularity.
- 2007:** The BR7000 is unveiled to the world, with 4 models, it is the most complete baling offering to date.
- 2013:** The Roll-Belt baler with 20% higher capacity, distinctive New Holland styling and advanced features is set to significantly enhance baler productivity.
- 2014:** New Holland celebrates its 40<sup>th</sup> anniversary since the introduction of the first Round baler.
- 2016:** Launch of the IntelliBale™ system for more efficient in-field operation.

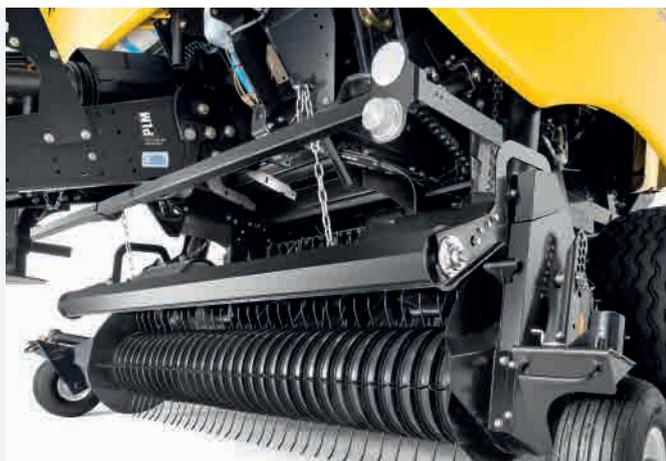


## The fastest way to clear fields.

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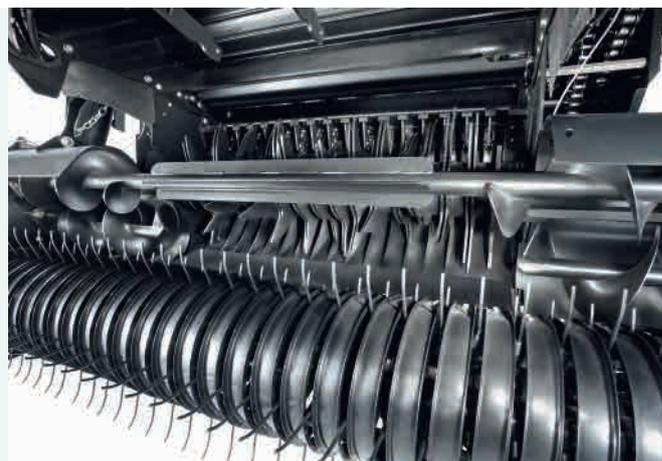
The pick-up is perhaps one of the most important parts of your Roll-Belt baler. New Holland has completely redesigned the 2.3 metre wide pick-up to boost capacity by up to 20%. If that wasn't enough, state-of-the-art baling technology ensures uniform flow for non-stop, high capacity baling.





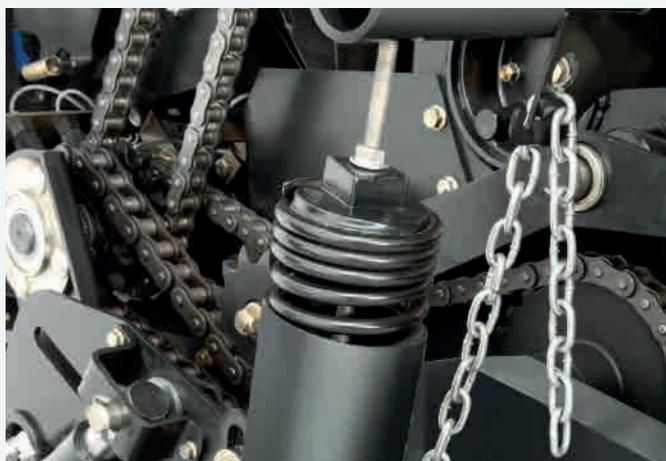
### Uniform crop flow

- The standard roller windguard continually rotates to guarantee a smooth, even flow of crop into the baler to increase crop processing efficiency
- Operators can regulate the height of the roller windguard to guarantee optimal flow into the baler



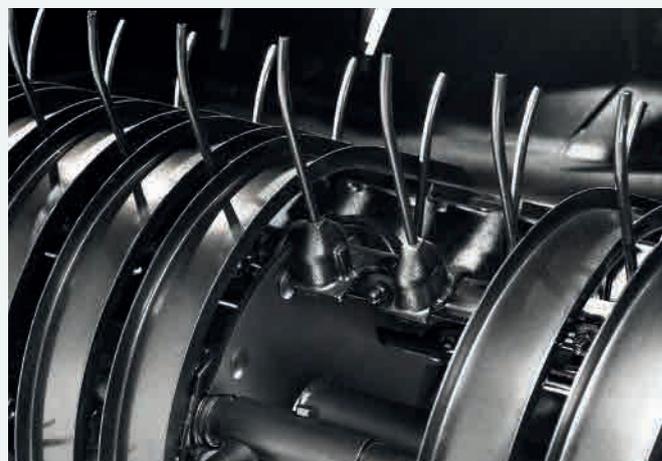
### Ultimate feeding performance

- The feeding logic has been developed which is set to significantly improve baler efficiency
- The system uses two counter rotating overshot and undershot augers to direct and merge the crop flow into the rotor
- Feed assist roller positively directs the crop into the rotor to maintain a constant crop flow at all times



### Customisable floatation performance

- Pick-up floatation can be regulated using two easy to adjust springs, at either side of the pickup
- Select rigid setting for flat fields when baling uniform straw swaths
- Select flexible setting when working in undulating terrain or in uneven silage swaths for fast reactivity



### Heavy duty tine bars to match all conditions

- On SuperFeed™ or CropCutter™ models a heavy duty five bar solid tine pick-up comes as standard and has been designed for silage operations or those which work in stony or uneven ground
- The solid rubber tines are 10% stiffer than conventional tines and can last up to five times longer for sustained baling performance

# Flexible crop processing solutions.

What are your bales going to be used for? As no two baling operations are the same, the Roll-Belt baler offers different crop processing options to suit your individual requirements. The SuperFeed™ option enables straight through processing, to maintain long unbroken straw. CropCutter™ models guarantee super fine chopping for the densest, most nutritious silage bales. No matter what the crop, growing conditions or usage profile, the Roll-Belt baler has an option which is right for you.

## CROPCUTTER™ PROCESSING OPTION



### Highly efficiency CropCutter™ System

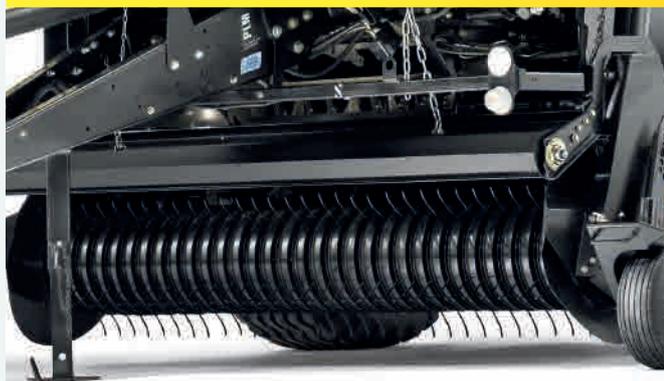
- 15 integrated knives guarantee super fine chopping, ideal for silage or chopped straw for bedding
- Proven "W" pattern rotor configuration ensures an even distribution of cutting force and smooth and uniform chopping performance



### Easy sharpening and hard faced knife kit

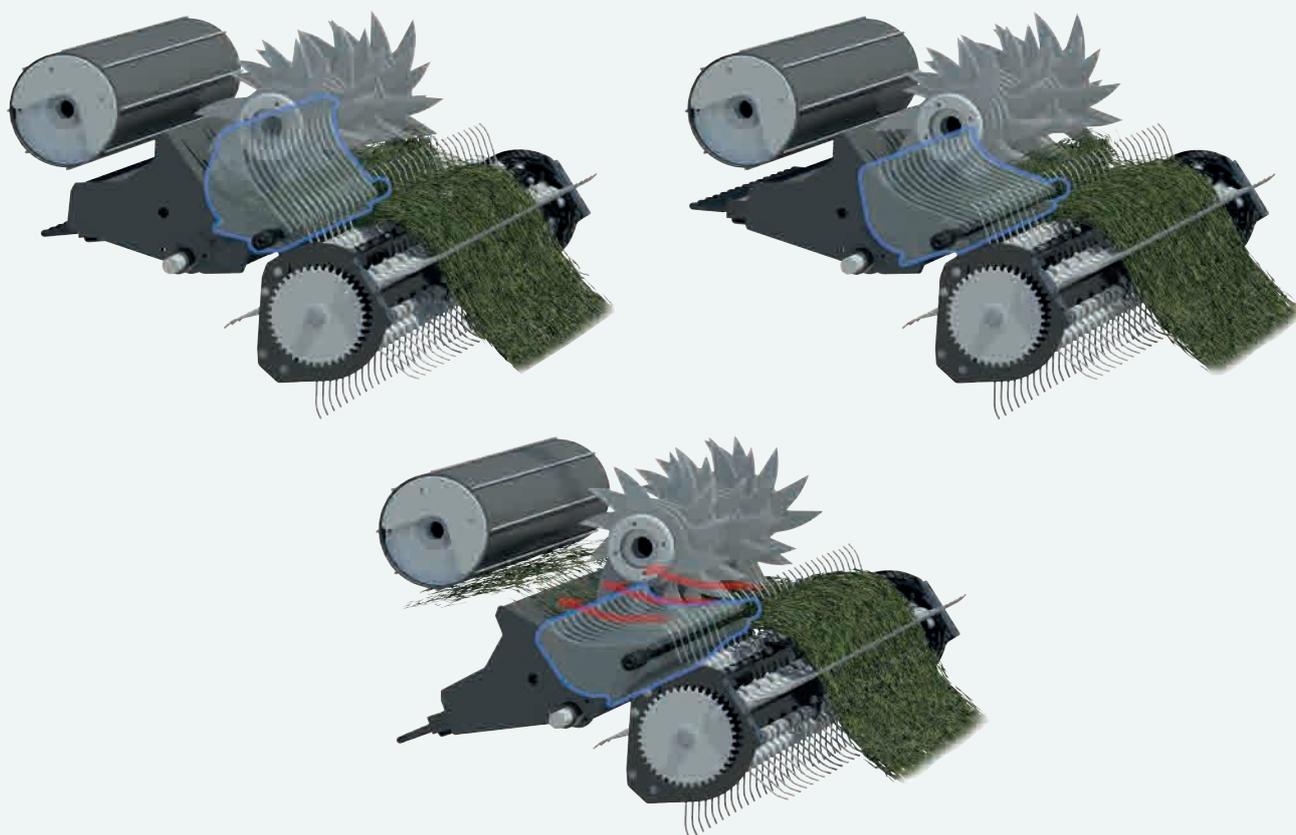
- The entire knife drawer can be unlocked and the knives removed for easy sharpening
- The hard-faced knife kit for CropCutter™ models is constructed from specially treated steel to increase knife durability and longevity by three fold

## SUPERFEED™ PROCESSING OPTION



### Long unbroken straw and hay thanks to the SuperFeed™ system

- SuperFeed™ system guarantees even feeding performance
- The ingenious design not only divides the power requirement equally over the two rotor halves, but also ensures an equal distribution of the crop
- 15 rows of fingers, each with three tines, maintains optimal crop integrity



### Maximum performance. Hassle free operation.

- When working at maximum capacity, and in the very densest silage swaths, the pick-up can sometimes become blocked
- Activated from the cab, the new drop floor functionality lowers the pick-up floor which enlarges the space to allow more crop to enter the baler
- This facilitates non-stop baling and reduces downtime, as well as significantly enhancing operator comfort

# The perfect bale for your operation.

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New Holland has perfected bale formation and its 275,000 Roll-Belt balers are testament to this success. The combination of both rollers and belts ensures that bales are perfectly formed with a dense core. Furthermore, even density across the entire bale makes them resistant to extensive handling and improves the fermentation profile of silage bales. The variable chamber technology means that operations can vary the size of the bale produced in 5cm increments, from 90cm right up to 150 or 180cm to enhance baling flexibility.



### The densest cores around

- Initial bale density is determined by five formation rollers, of which three are pivoting, and form a natural 'D' shape to make the first roll
- This shape has been proven, during extensive testing, to produce the densest bale core



### Endless belts for endless baling efficiency

- The four new endless, 273mm wide belts, feature improved reliability and reduce crop losses
- Constructed from advanced materials, the self-cleaning belts have been specifically engineered to maintain better contact with the crop, especially in short grasses
- Uniform pressure is exerted for more even bale formation
- Decreased belt 'wobble' further enhances durability while reducing maintenance



### The ultimate in easy maintenance

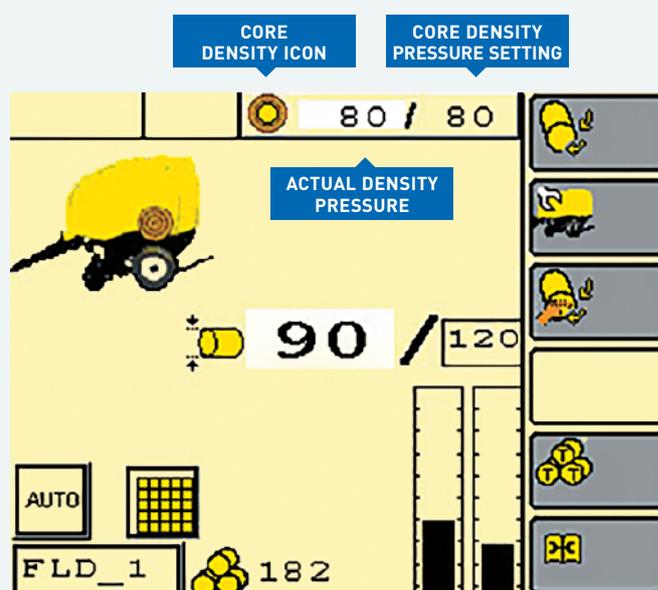
- Laced belts are the default choice for customers looking for the ultimate in easy maintenance
- Should a belt snap, it can be quickly and easily replaced using all-new low profile alligator staples for near seamless joining
- Strong and durable, perfect for all conditions

### The densest bales from New Holland

- The standard dual density system can increase bale density by up to 5%
- Two density cylinders, on either side of the bale chamber, control the rate of belt expansion to produce the densest bales possible
- Only allowing the belts to expand when pressure reaches a pre-set level produces solid bales
- The density is easily regulated from the cab using the IntelliView™ IV touchscreen monitor

### Intuitive density control system

- New Holland has developed an intuitive, in cab, bale density control system to cater for varying crop conditions and bale end uses
- Operators can adjust bale density in 10 bar increments from the cab using the IntelliView™ IV colour touchscreen monitor
- The actual bale density is displayed on the monitor and users can set different core and outer layer densities
- Lower core density is ideal for hay baled in marginal conditions which needs to breathe or will be used for feed
- High density cores are ideal when extensive handling is required



## Tailored wrapping options.

Efficient tying and wrapping are what makes a nice bale, instead of a mountain of material. New Holland also knows that no two operations are alike, hence the two wrapping options: net only or twine and net, the latter is perfect for contractors who work with a variety of customers. The entire wrapping system has also been upgraded, to speed up the process and to enhance accuracy to deliver best-in-class bale shape first time, every time.



### Second generation Duckbill system

- Second generation Duckbill system is physically closer to the bale, speeding up the entire wrapping process
- Spreader rolls maintain uniform coverage across the entire bale and the net wrap is actively placed inside the chamber, next to the bale for more accurate wrapping performance
- The amount of net used is regulated by sensors and this simple, reliable system, guarantees consistent net tension and tighter tying



### Right to the edge with EdgeWrap™

- The renowned EdgeWrap™ system ensures the net wrap goes to the edge of the bale, and in some cases, it forms an envelope over the edge of the bale
- This protects the bales and helps retain their overall shape
- Essential during extensive handling or when being used with a separate bale wrapper



### Efficient twine tying

- Redesigned twine mechanism now features a centre pivoting dual twine application system
- Consistent left to right travel guarantees uniform coverage to deliver unsurpassed integrity during extensive handling

# At a glance baler management.

The Roll-Belt baler comes standard with the IntelliView IV colour touchscreen monitor. This monitor enables you to manage all key baling parameters from the comfort of the cab. The Roll-Belt range features automatic wrapping technology, so when your bale has reached the pre-set size, wrapping automatically begins. If you've already got a monitor you like, then the optional ISOBUS compatibility has been designed for you.



## Moisture and bale fill sensors

An all new moisture sensing system uses two discs, situated either side of the bale chamber to detect real time bale moisture. Readings are taken every 10 milliseconds, and an averaged reading from the two sensors is sent to the cab every second, for real time data transmission. Moisture between 7-60% can be detected, ensuring accuracy in both dry and wet crops, including hay, straw, silage and maize stover. What's more, upper and lower moisture limits can be set, if surpassed, baling can be stopped to preserve quality. Two fill sensors, located on either side of the bale chamber continually monitor the fill profile. The in-cab display relays this information to the operator, who can adapt their driving pattern accordingly to ensure consistent, uniform bales.



## IntelliView™ IV monitor; touchscreen baler control

- Intuitive, colour touchscreen IntelliView™ IV monitor is ideal for professional baling operations
- Touchscreen facilitates instantaneous adjustment of key parameters in response to changing conditions
- Large screen size enables at a glance monitoring of all key parameters

## IntelliBale™ technology

IntelliBale™ technology means that the Roll-Belt baler can communicate with your tractor. It will bring the tractor to a halt as soon the pre-set bale diameter has been reached, net wrap application begins automatically and then the tailgate is raised. A sensor on the bale ramp tracks the complete process and closes the tailgate as soon as the bale has been ejected. A signal is then given to the operator to move forward. The benefits of the system are:

- Increased productivity
- Reduced operator fatigue
- Uniform bale size
- Reduce fuel consumption

## Absolute baling safety

- To enhance safety, New Holland has positioned an electrical cut off switch on the drawbar
- This cuts drive to the baler to ensure that it is fully deactivated when changing net or unblocking the baler

# 360°: Roll-Belt baler.

The new Roll-Belt baler has been designed to simplify daily maintenance. All service points can only be accessed when the baler is completely stationary for industry leading maintenance safety. Best-in-class service access means these balers will spend more time in the field.

Storage for up to 6 balls of twine or one additional roll of net to keep you baling for longer.

Safety interlocks prevent inadvertent opening for enhanced safety.

Centralised greasing banks and oiling reservoir, accessed from ground level via the front panel.



Optional ultra-wide 500/55-R20 tyres reduce compaction to facilitate regrowth for subsequent silage cuts. They also deliver more comfortable road transport.

Self-supporting, single-piece gull wing side shields facilitate servicing.



Pick-up wheels switch from field to transport mode without the use of tools.

Rear mounted holder for one additional roll of net to increase baling autonomy.



## Dealer Installed Accessories

A comprehensive range of approved accessories can be supplied and fitted by your dealer.

## Models

## Roll-Belt 150

## Roll-Belt 180

Type		SuperFeed™	CropCutter™	SuperFeed™	CropCutter™
<b>Bale dimensions</b>					
Diameter Min. / Max.	(cm)	90 / 150		90 / 180	
Width	(cm)	120		120	
<b>Tractor requirements</b>					
Minimum PTO power	[kW/hp(CV)]	52/70	75/100	60/80	78/105
PTO speed Standard / Optional	(rpm)	540 / 1000		540 / 1000	
Hydraulic remotes Min. / Max.		2 / 4		2 / 4	
<b>Main drive</b>					
Gearbox		Enclosed oil immersed			
Protection		Cut-out clutch			
<b>Pick-up</b>					
Standard working width	(m)	2.3		2.3	
Five tine bar pick-up with rubber tines		●		●	
Roller windguard		●		●	
Feed assist auger		●		●	
Flotation		Adjustable spring		Adjustable spring	
Hydraulic pick-up lift		●		●	
Pick up protection		Cut-Out Clutch		Cut-Out Clutch	
No tools folding pickup gauge wheels		●		●	
Gauge wheels (15x6.00-6)		●		●	
<b>Feeding system</b>					
Feeder		Rotor width 455mm W' tine configuration		Rotor width 455mm W' tine configuration	
Drop floor		●	●	●	●
CropCutter™ system		-	●	-	●
Knives options		-	15	-	15
Knife distance	(mm)	-	65	-	65
Knife activation, in - out		-	Hydraulic	-	Hydraulic
Knife protection		-	Individual spring	-	Individual spring
<b>Bale formation</b>					
Type		Roll-Belt™ technology (Combination of rollers and belts)			
Pivoting formation rolls		3		3	
Belts		Four 273mm endless		Four 273mm endless	
Bale shape indicators		●		●	
<b>Tying system</b>					
Net only		●		●	
Twine and net		○		○	
Net wrapping system		Duckbill		Duckbill	
Net storage net only		3 ●		3 ●	
Net storage net and twine		2 ● + 1 ○		2 ● + 1 ○	
Net coverage		EdgeWrap™		EdgeWrap™	
Twine storage		6 ●		6 ●	
Twine pattern		Left to right		Left to right	
Twine arms		Twin centre pivot		Twin centre pivot	
<b>Bale density system</b>					
Dual density system		●		●	
Density control		In-cab control through monitor			
<b>Electronic control system</b>					
ISO 11783 connection ready		●		●	
IntelliView™ IV monitor		●		●	
IntelliBale™ system		○		○	
Real time bale moisture sensor		●		●	
Electronic safety cut out		●		●	
<b>Maximum travelling speeds</b>		50kph		50kph	
<b>Bale ramp</b>		●		●	
<b>Servicing</b>		In-cab control through monitor			
<b>Baler dimensions</b>					
Length	(m)	4.475		4.815	
Width / Height on 380/55-17 tyres	(m)	2.415 / 2.79		2.415 / 3.05	
Width / Height on 480/45-17 tyres	(m)	2.61 / 2.83		2.61 / 3.09	
Width / Height on 500/55-20 tyres	(m)	2.85 / 2.76		2.85 / 2.985	
<b>Weight (Max.)</b>	(kg)	3715		3815	
<b>Standard equipment</b>		centralised oiling system, amber beacon			
<b>Optional equipment</b>		Density system pre-charge kit, Splitter valve kit for dropfloor / knives, Hardface CropCutter knives kit, Loop front Serpentine with scraper kit, Automatic Greasing			

● Standard ○ Optional - Not available

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Safety begins with a thorough understanding of the equipment. Always make sure you and your operators read the Operator's Manual before using the equipment. Pay close attention to all safety and operating decals and never operate machinery without all shields, protective devices and structures in place.

The data indicated in this folder are approximate. The models described here can be subjected to modifications without any notice by the manufacturer. The drawings and photos may refer to equipment that is either optional or intended for other countries. Please apply to our Sales Network for any further information. Published by New Holland Brand Communications. - Printed in Australia - 20NHROLLBELTBRO