For Earth, For Life

Kubota

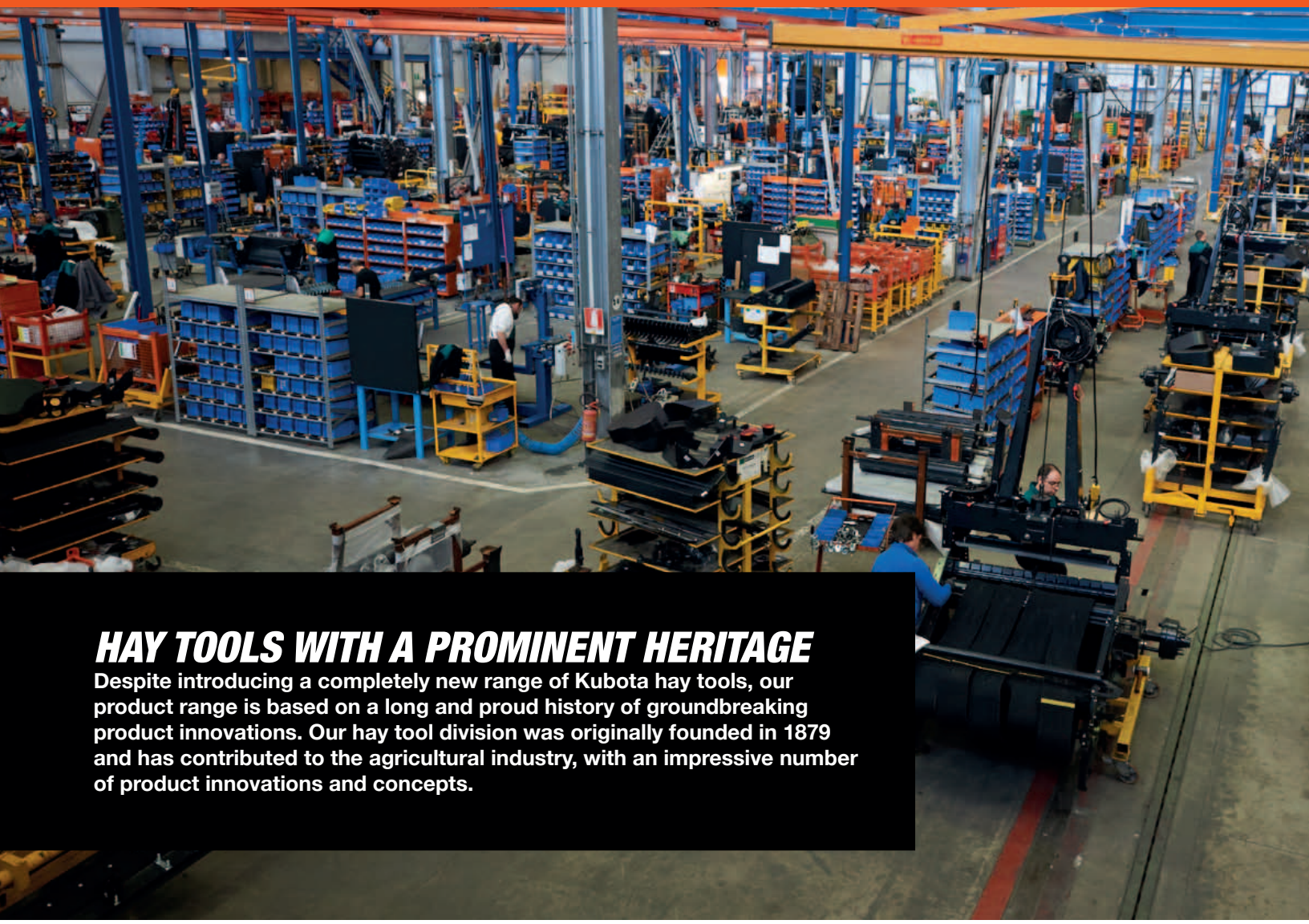
BV/WR

KUBOTA ROUND BALERS AND WRAPPERS

BV4160/BV4180/BV5160/ WR1100/WR1400

4-ft wide and 5-ft/6-ft tall variable chamber round balers and turntable bale wrappers.

OUR BALE



HAY TOOLS WITH A PROMINENT HERITAGE

Despite introducing a completely new range of Kubota hay tools, our product range is based on a long and proud history of groundbreaking product innovations. Our hay tool division was originally founded in 1879 and has contributed to the agricultural industry, with an impressive number of product innovations and concepts.

1949
Introduction of the finger wheel rake.

1961
Invention of the rotary tedder.

1974
Invention of the disc Mower conditioner combination.

1958
Invention of the pendulum spreader.

1965
Introduction of the first loader wagon with a rotor cutting unit.

1976
Introduction of the triangular shaped mowing discs.

R FACTORY

Manufacturing of Balers and Bale wrappers

Kubota's baler factory is one of the most modern baler manufacturing sites in the world. The production facility has more than 30 years of baler manufacturing experience. A new modern factory was opened in 1999 to streamline production and comply with LEAN principles.

- Headquarters for the Kubota Bale Equipment Division.
- Based in Ravenna, Italy.
- Manufacturer of round balers and bale wrappers.
- Founded in 1922.
- First baler introduced in 1958.
- A 323,000 square feet roofed facility.
- Current manufacturing site opened in 1999.

1982
Launch of the integrated BX swath belt for disc mowers.

1985
Invention of first ISOBUS Terminal.

1989
Invention of the Opticut cutting System for balers.

2011
Introduction of GeoSpread, GPS based section control.

1983
First high density big baler suitable for silage.

1986
Invention of the bale wrapper.

2001
First ISOBUS precision farming terminal.

2013
Launch of Kubota Hay Tools.

MORE VALUE I

Kubota BV4160 ECONO
Bale Diameter:
4-ft wide and up to 5-ft Tall
(47” x 31” – 65”).

Kubota BV4160
Bale Diameter:
4-ft wide and up to 5-ft Tall
(47” x 31” – 65”).

Kubota BV4180
Bale Diameter:
4-ft wide and up to 6-ft Tall
(47” x 31” – 71”).

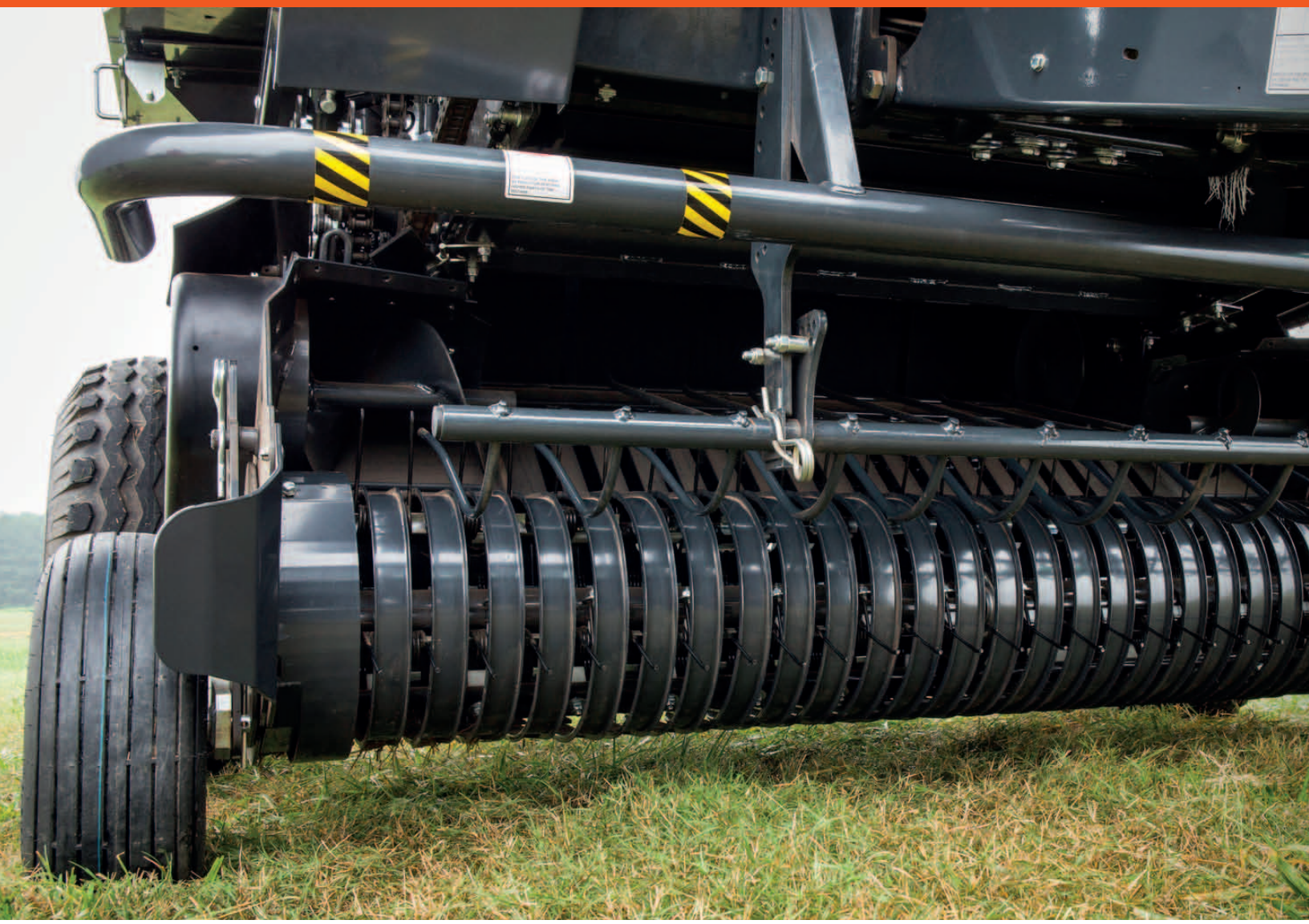
N YOUR BALES

Kubota BV5160 SuperCut-14
Bale Diameter:
4-ft wide and up to 5-ft Tall
(47” x 24” – 65”).

Kubota WR1100
Max Bale Size:
4-ft wide and up to 5-ft Tall (47” x 50”)
- 2650lbs

Kubota WR1400
Max Bale Size:
4-ft wide and up to 5-ft Tall (47” x 50”)
- 2650lbs

BV4160-BV4180 – P



High Capacity Pick-Up

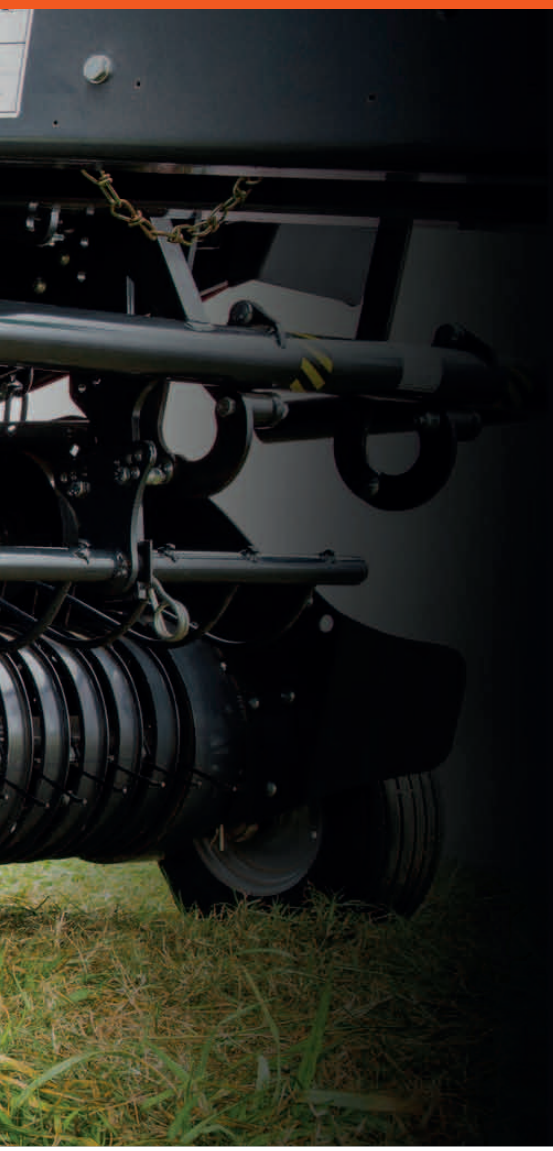
Kubota's small diameter pick-up offers superb in field performance. With its low profile design and closely spaced tines, Kubota balers can cleanly lift even the shortest crop. The pick-up is designed for high capacity and efficient intake. This provides a smooth and even crop flow into the baler.

Designed for Narrow Transport Width

Despite a working width of up to 79", Kubota's BV4000 has a transport width only dependent on the balers wheel size. Thanks to an innovative design which places the driveline inside of the cam track at either end of the pick-up. There is no need to remove the pick-up guide wheels for road transport, reducing unproductive downtime between jobs.

Rugged easily adjustable pick-up guide wheels are equipped with flotation tires.

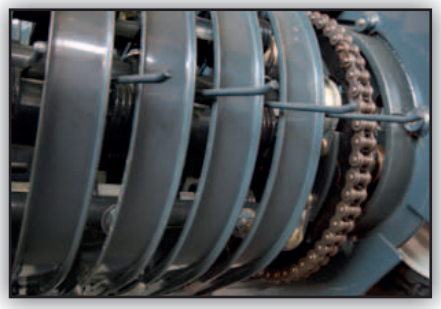
PICK-UP AND INTAKE



FORK FEEDER

Kubota's BV4160 and BV4180 are fitted with an efficient fork feeder intake system. This system provides a direct feed into the bale chamber. The wide opening allows almost unrestricted intake capacity, for a fast and efficient baling process. In conjunction with a wind guard, the fork feeder ensures a consistent crop flow even when in delicate crops such as bermuda and alfalfa.

Kubota BV4160 and BV4180 Premium with 79" pick-up and crop deflector. (Photo left hand side)



The unique compact pick-up drive design keeps the wheels within the overall baler width eliminating the need to remove them for transport.

Kubota BV4160 Econo with 67" pick-up.

BV5160 – PICK-

Strong Dimensions

On Kubota's BV5160, the load on the tine bars is minimized by using two intermediate supports and two separate cam tracks located at either end of the pick-up. Slip clutch protection comes standard. A roller wind guard is fitted on rotor intake models which pre-compresses the crop, further boosting intake performance.

Designed for Narrow Transport Width

Despite a 86" working width, the BV5160 has a transport width only dependent on the balers wheel size. Thanks to an innovative design which places the driveline inside of the cam track at either end of the pick-up. There is no need to remove the pick-up guide wheels for road transport, reducing unproductive downtime between jobs.

Kubota BV5160 with 86" pick-up and roller wind guard.

-UP AND INTAKE

SUPERCUT-14 KNIFE ROTOR

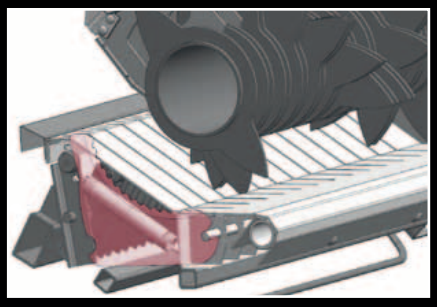
SuperCut-14 Knife Rotor

The SuperCut-14 version of BV5160 is the ideal solution for silage applications. The 14 knife chopping system provides a fast and efficient flow into the baler. With a chopping length of 2.75” it is the ideal solution for producing dense and airtight bales. Also, the bale is easier to break up during the feeding process.

Dense and compacted silage bales are a clear advantage of chopping the silage.

Knife Protection

Each individual knife is spring protected against foreign obstacles. If an obstacle is hit, the knife will automatically swing backward into a safe position. The knife will automatically return to work position once the obstacle has passed.



SuperCut-14 offers individual spring protection of the knives.

Drop Floor for Easy Unblocking

The Kubota Drop Floor enables the operator to clear blockages easily from the tractor cab without any crop loss. Drop the floor to free the rotor of blockage, engage the PTO to feed the blockage through and close the floor to continue baling. Drop Floor is standard on the Kubota BV5160.

The Drop Floor allows you to easily clear blockages, reducing downtime and increasing productivity.

GREAT LOOKING BALE

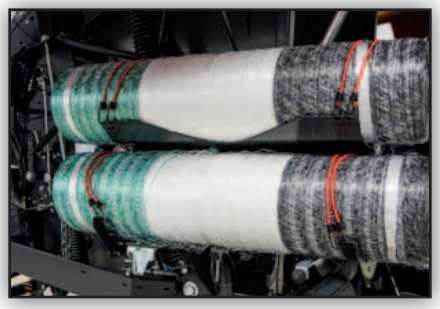
Twine Box.

Both outside twines fed together.

Twine evenly spaced across bale.

Twines crossed over in centre - no loose ends.

Twin tube fast operating twine binding system.



Convenient storage solution for both net and twine applications.

Twine Tying

Automatic twine tying with the fast acting double tube system means simultaneous binding of both edges of the bale, keeping binding time to a minimum. Over crossing of twines in the center of the bale provides no loose ends at the end of the binding cycle. The system is fully user programmable to make sure you make the best looking bales in all crop conditions.

ES - TIME AFTER TIME

The low loading height and intuitive threading system increases overall productivity.

New dependable PowerBind net wrap system.

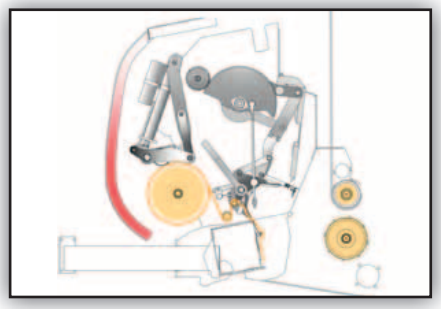
The PowerBind net wrap system allows the net to extend past the edge of the bale.

PowerBind Net Wrap

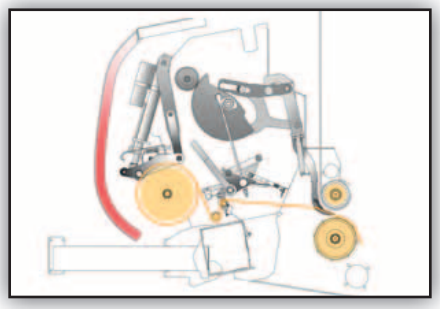
The BV4000 and BV5000 series comes with the new patented PowerBind net wrap system. This completely redesigned technology has allowed Kubota to get away from the old feed rollers, and eliminate many high wear items.

The net is fed directly into the bale chamber by injection plates. This design keeps the net tight at all times, which provides accurate and extremely reliable net injection. In addition, there is absolutely no interference from external factors such as wind and crop.

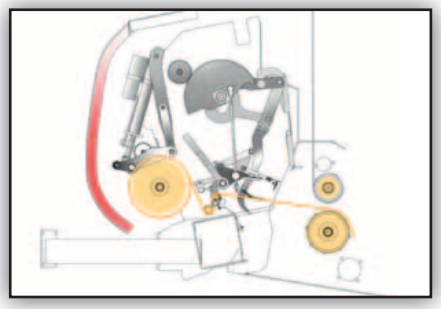
During the baling process, the injection arm keeps a hold of the net. When the bale is 90% complete, the feeder arms moves forward, and prepares for the next net injection. This process proves to be both extremely reliable and productive. In fact, PowerBind is one of the fastest net wrapping solutions available today.



When the bale is 90% complete the feeder arms moves forward ready for the net injection.



Once the bale is finished the injection arm instantly places the net into the bale chamber.



During the net injection the feeder arms moves back to its waiting position. Once the bale is wrapped the knife is activated, cutting the net.

TAKE FULL

Take Full Control

The following functions are operated with the Focus Terminal:

- Bale diameter.
- Density and soft core adjustment.
- Bale growth indicator.
- Bale shape is indicated by the terminal allowing the operator to adjust the driving pattern for optimal bale formation.
- Twine or net tying selection.
- Twine and net tying adjustment: number of net wraps, quantity of twine (on side, middle and center).
- Tying information during binding cycle.
- Manual or automatic tying control gives maximum control to the operator.
- Bale counter that can save up to 40 bale counts: huge possibility to record values from different fields.
- Hydraulic selection between pick-up, knives or drop floor function.

L CONTROL

The Focus Control Terminal.

The Focus Control Terminal

The Focus terminal is a universal control terminal which can also be used with other Kubota implements. It gives you full control of all functions from the tractor cab, and are shown on a large and very clear digital display.

The Focus terminal monitors and controls all necessary functions with all relevant parameters / information visible at a glance. The control box is also driving the binding automatically without any intervention from the operator.

DENSE BALES WITH A

KUBOTA BV4160 ECONO-BV4160-BV4180

Silage, Hay and Straw

The bale chamber of the Kubota BV4160 and BV4180 work well in silage, hay and straw. The two versions offer bale diameters from 31” up to 65” and 71” respectively. The bale diameter is easily adjusted through the control terminal.

A combination of 5 belts and front rollers provides dense bales with a soft core and an easy bale start.

A TIGHT OUTER LAYER

HOW THE BALING CHAMBER WORKS

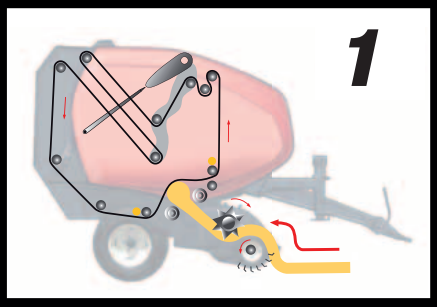
The Kubota BV4000 bale chamber offers a combination of 3 rollers and 5 wide laced belts. This mixed chamber ensures a smooth bale start whatever the intake system, offering smooth bale rotation and reduced crop loss, even in dry conditions.

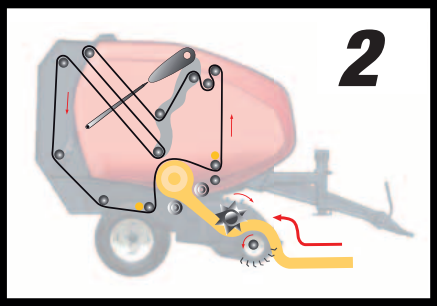
The two aggressive front rollers that come in contact with the crop are constantly cleaned by scraper rollers (BV4160-BV4180) and are designed to perform well in all conditions. They ensure instant and efficient bale starts with every type of crop.

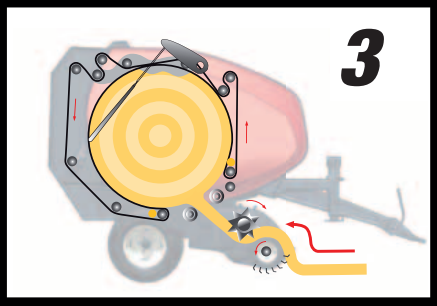
The small pre-chamber at the start of the bale formation ensures well-shaped dense bales with a tight outer layer.

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

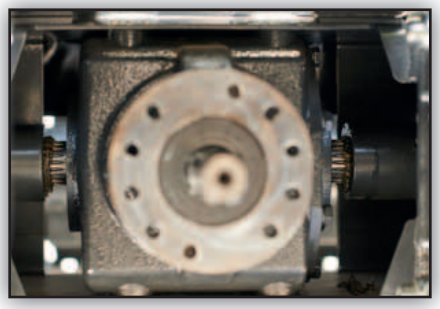
The result is a very firm bale. Straw bales will be more tolerant to poor weather conditions, while silage bales will maintain their shape for improved stacking and easier handling.







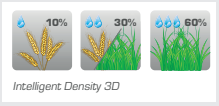
The main bale chamber drive is a heavy duty pitch chain. This allows for a longer lifespan and reduced maintenance.



The split drive gearbox ensures that power is distributed evenly, reducing wear and power requirement.

INTELLIGENT DENS

KUBOTA BV5160



Intelligent Density 3D

Intelligent Density 3D with 3 pre-selected bale density settings making it very easy to choose the correct bale density in different crops

Baling dry straw and want the heaviest bales possible? Maximum pressure is set in every zone.

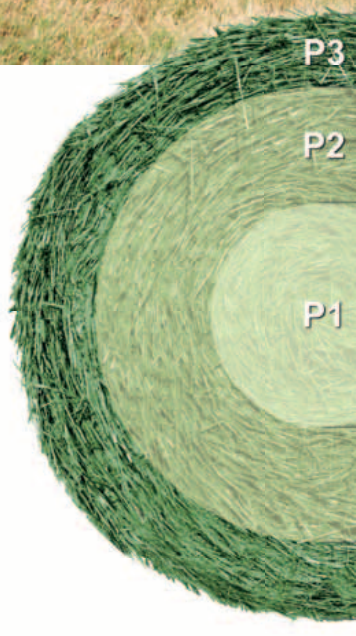
Baling hay? Soft center core to let the bale breath is set, with gradually increasing pressure towards the outer layer.

Baling wet silage? Pressure is reduced in the center and mid zones.

*Pre-selection of bale density for each zone of the bale: core, mid and edge.**

*Diameter (D) and pressure (P) can be adjusted in three stages using the control terminal.**

**Proportional valve standard on the BV5160 and optional on the BV4100 series.*



SITY - TIGHT BALES

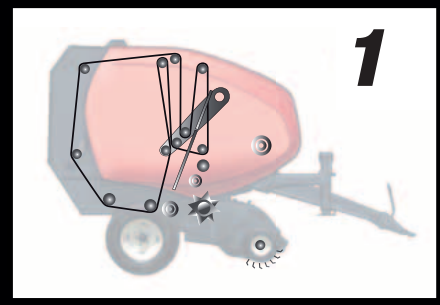
HOW INTELLIGENT DENSITY WORKS

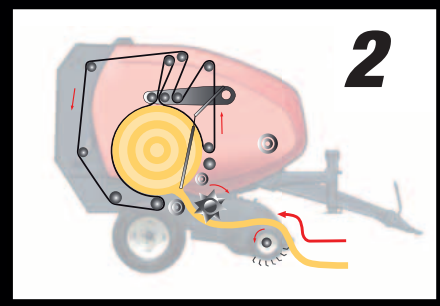
Bales with a Clear ID

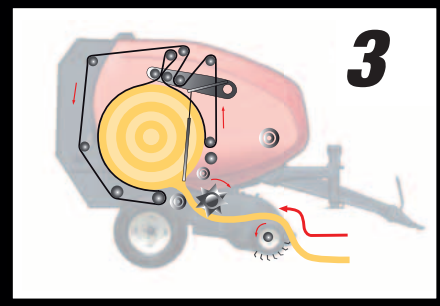
The Intelligent Density 3D bale chamber offers a combination of 3 rollers and 5 endless belts, offering smooth bale rotation and reduced crop loss, even in dry conditions.

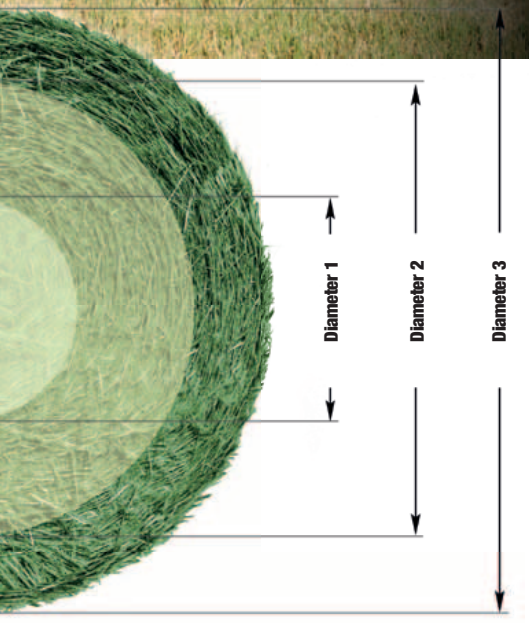
The two aggressive front rollers that come in contact with the crop are constantly cleaned by scrapers and are designed to perform well in wet silage. They ensure instant and efficient bale start with immediate bale formation in all crop conditions. As the bale grows, the belt tensioning arm is subjected to steadily increasing resistance from two hydraulic cylinders and a spring tensioner. So as the bale diameter grows, so does the bale's density.

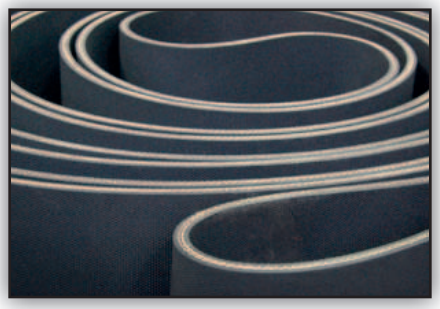
The result is a very firm bale with a moderate core. Straw bales will be more tolerant to poor weather conditions, while silage bales will maintain their shape for improved stacking and easier handling.











The Kubota BV5160 is fitted with 5 durable endless belts without joiners offering smooth running and low maintenance.

The two front rollers with self-cleaning scrapers are designed to work well in silage and provide instant bale formation. The scrapers efficiency keeps the rollers free from wet silage building up.

THREE-POINT MOUNTED

KUBOTA WR1100

Pick-up the bale ...

...and wrap it while carting already wrapped bales to the storage site.

Drop the wrapped bale - all controlled via the optional remote control.

D TURNTABLE WRAPPER

REMOTE CONTROL FOR EASY HANDLING

The entire wrapping process of the Kubota WR1100 can be controlled remotely from the loading tractor. One operator does the entire process of loading, wrapping and stacking.

- Place the bale on the wrapper, press one key on the remote control, and the wrapping process starts.
- The previously wrapped bale is stacked and the next one picked up while the machine continues wrapping.
- Press another key when wrapping is completed and the bale is tipped off.

Wrapping at Storage Site

Kubota WR1100 series are three point mounted wrappers with a simple but very reliable way of wrapping silage bales. The Kubota WR1100 is ideal for 'wrap and stack' operations. When the bale is being transported to the storage site for wrapping, this three point mounted version is the ideal solution. It can be mounted on the rear or front hydraulics of the tractor or used as a static machine with an external power pack unit.

Easy Operation

Once the wrapping process is activated the whole operation runs automatically. You only need to push the button again to unload the wrapped bale. An optional automatic stop ensures that the bale is properly wrapped.

The Kubota WR1100 is operated via computer controls with an integrated bale counter. Also, a remote control is available as option, making it the ideal solution for static use.

TRAILED TURNTA

KUBOTA WR1400

Effective, Easy to Operate Wrapper

The Kubota WR1400 is a pull-type wrapper designed for smaller tractors. The machine is very easy to operate. A fully automatic film cutter comes standard on all models.

Clever Design for Maximum Weight Transfer

To allow for increased stability during bale loading, an extendable wheel arm was incorporated into the frame design. This allows bales up to 2650lbs to be loaded without any counter weights on the machine.

Gentle Unloading

Wide spaced wheels allow for an exceptionally low turntable height. This design allows the table to be tilted downwards until it nearly touches the ground, reducing drop height when unloading bales. This provides the gentlest possible handling of wrapped bales. It reduces the chance of film damage and eliminates the need for a fall damper or drop mat.

ABLE WRAPPER

For narrow transport width, the right hand wheel is turned to the inside of the support arm.

Hydraulically operated loading arm with a low loading height provides fast transfer of bale from arm to turntable.

The Kubota WR1400 can be fitted with a bale on end kit. The bale is tipped off gently without damaging the bale.

The Turntable Principle

Two large diameter rollers, both of which are driven, ensure consistent bale rotation even in the most difficult of conditions. Four endless belts carry and rotate the bale evenly during wrapping. The two large diameter side support rollers ensure that the bale is kept in a central position on the rotating table during the wrapping operation.

Low design of the machine ensures fast and gentle unloading of the bale with no need for an extra fall damper.

Turntable with two driven rollers designed for high bale stability and smooth even rotation.

SPECIFI

Kubota Models	WR1100	WR1400
Weight and Dimensions		
Transport Length (in)	108”	170”
Transport Width (in)	63”	99”
Transport Height (in)	69”	76”
Weight (lbs)	1653	2249
Bale		
Max Bale Size (L x D) (in)	47” x 50”	47” x 50”
Max Bale Weight (lbs)	2650	2650
Wrapping Table		
Mounted Wrapper	•	-
Pull-Type Wrapper	-	•
Support Rollers/Belts (number)	2/4	2/4
Automatic Film Cutter	•	•
Pre-Stretcher 29.5" (750mm)	•	•
Max. Wrapping Speed (rpm)	30	30
Pre-stretcher		
1 pre-stretcher 750 mm	•	•
2 pre-stretchers 750 mm	-	-
Max. wrapping speed (rpm)	30	30
Operations		
Manual Cable Control (M)	-	•
Electro Hydraulic Joystick (J)	-	•
Programmable Computer (C)	•	-
Remote Control (C)	o	-
Oil Consumption (l/min)	28	28
Wheels and Axles		
10.0/80-12	-	•
11.5/80-15	-	-
15.0/55-17	-	-
Options		
Fill Roll Magazine	-	o
Adapter Kit for 20" (500mm) Film Spool	o	o
Bale And Wrap Counter	•	•
Auto-Stop at End of Wrapping Cycle	•	•
Film End/Tear Sensor (C)	o	-
Road Lights	-	o

• = standard o = optional - = not available

Kubota Models	BV4160 ECONO	BV4160
Weight and Dimensions		
Length (in)	176"	176"
Width (in)	99"	99"
Height (in)	106"	106"
Weight (lbs)	5842	5842
Bale chamber		
Diameter Min (in)	31"	31"
Diameter Max (in)	65"	65"
Bale Width(in)	47"	47"
Bale Formation	5 Belts + 3 Rollers	
Endless Belts	-	-
Bale Ramp	•	•
Pick-up		
Working Width (in)	67"	79"
Number of Tine Rows	4	4
Tine Spacing (in)	2.36"	2.36"
Windguard	Crop Deflector	Crop Deflector
Pneumatic Gauge Wheel	•	•
Intake System		
Open Throat	•	-
Fork Feeder	-	•
SuperCut-14 Knives	-	-
Single Knife Protection	-	-
Knife Group Selection	-	-
Unblocking System	-	-
Driveline		
1 1/4" Chains	•	•
W-A PTO Shaft	•	•
Shear Bolt Protection	•	•
Cam Clutch Protection	•	•
Binding		
Twine (double) / Capacity	• / 8	• / 8
Net/Capacity	o / 3	o / 3
Operations		
ISOBUS	-	-
Focus Terminal	•	•
Alpha Bale Monitor	•	-
IsoMatch Tellus	-	-
Hydraulic Outlets	1SA + 1DA	1SA + 1DA
Wheels and Axles		
11.5/80-15	•	•
15.0/55-17	-	-
19.0/45-17	o	o
500/45-22.5	-	-
Others		
PTO (rpm)	540	540
Min. power requirem. (hp)	55	55

• = standard o = optional - = not available

CATIONS

BV4180	BV5160 SC14
176"	176"
99"	99"
112"	106"
5952	7165
31"	24"
71"	65"
47"	47"
5 Belts + 3 Rollers	
-	•
•	•
79"	86"
4	5
2.36"	2.36"
Crop Deflector	Roller Wind Guard
•	•
-	-
•	-
-	•
-	-
-	•
-	Drop Floor
•	•
•	•
•	-
•	•
• / 8	• / 8
o / 3	• / 3
-	•
•	•
-	-
-	o
1SA + 1DA	1SA + 1DA
•	-
-	•
o	o
-	o
540	540
64	75

CONTROL FUNCTIONS, BALE WRAPPERS

Computer Control (C)

Machines equipped with computer (C) control have a fully automated wrapping cycle allowing stress free high output operation for long days in the field.

Remote Control (R)

This option is particularly appreciated on the tractor mounted version for its high output. Place the bale on the wrapper, press one key on the remote control, and the wrapping process starts. The previously wrapped bale is stacked and the next one picked up while the machine continues wrapping.

Mechanical Cable Control (M)

The manual version (M) is ran via flexible cable controlled levers. A wrap and bale counter comes standard to allow for optimal control of film layers, as well as the number of bales wrapped. An automatic table stop is also controlled by this bale and wrap counter.

Joystick Control (J)

The semi-automatic joystick gives proportional control of all functions for silky smooth operation. Once wrapping has commenced the joystick can be released for hands free operation until the correct number of wraps have been applied, at which point the table automatically stops rotating.

The company reserves the right to change the above specifications without notice. This brochure is for descriptive purposes only. Some of the items pictured in this brochure are optional and not standard equipment. Please consult your local Kubota dealer for warranty, safety or product information. Kubota strongly recommends of a seatbelt and ROPS (rollover protective structure) in almost all applications.

Kubota®

KUBOTA TRACTOR CORPORATION
Kubota Tractor Corporation, 3401 Del Amo Boulevard, Torrance CA 90503
Western Division: 1175 S. Guild Ave., Lodi, CA 95240 Tel (209) 334-9910
Central Division: 14855 FAA Boulevard, Fort Worth, TX 76155 Tel (817) 571-0900
Northern Division: 6300 at One Kubota Way, Groveport, OH 43125 Tel (614) 835-1100
Southeast Division: 1025 Northbrook Parkway, Suwanee, GA 30024 Tel (770) 995-8855

Visit our web site at: www.kubota.com

ROPS SEATBELT
PUT 'EM ON KEEP 'EM ON
SAFETY
IT'S THE WAY TO LIVE!

Cat. No. 112003-US, K-9000-US. Printed 10.2014