

Variable Chamber Round Balers

VB SERIES



www.kuhn.com



be strong, be **KUHN**



VB**3100 series**

TAKE HIGH DENSITY BALING TO A NEW LEVEL!



KUHN is offering a new generation of round balers enabling you to meet the new challenges of tomorrow.

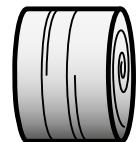
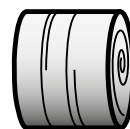
The KUHN round balers are designed with your main baling needs in mind. They have been developed to help boost the profitability of your baling operation

INNOVATION THROUGH EXPERIENCE

The driving force behind KUHN is to supply the best quality in all aspects of baling. Employees here often come from farming backgrounds, creating a great sense of personal involvement and drawing on a wealth of knowledge and skill.

THE BALER SPECIALIST

Many years of experience has given us valuable know-how and expertise in producing baling equipment. Our aim is to create simple, but efficient techniques to improve the quality of work for our customers.



MODEL	Ø 80 - 160	Ø 80 - 185
VB 3155	X	
VB 3185		X
VB 3160	X	
VB 3190		X
VB 3165	X	
VB 3195		X



VB**3100 series**

DESIGNED BY KUHN, MADE BY KUHN

INTRODUCING THE VB 3100 RANGE

The KUHN variable chamber round balers take high density baling to the next level. The VB 3100 series offers a wide range of variable chamber round balers to match your individual preferences. KUHN variable chamber round balers are developed with the latest product innovations to ensure farmers and contractors worldwide get the maximum benefit.

The VB 3155-3185 are designed for the baling of dry materials such as hay and straw.

The VB 3160-3190, premium all-round balers, are standard ISOBUS balers that are designed for baling a wide range of forage materials, including silage.

For more extreme conditions we offer the VB 3165 and 3195 series. These balers are designed to work in the heaviest conditions across the world.



VB 3155 - 3185



VB 3160 - 3190 PREMIUM



VB 3165 - 3195 PREMIUM XD

**THE KUHN VARIABLE
CHAMBER ROUND
BALERS TAKE HIGH
DENSITY BALING TO
THE NEXT LEVEL**

CROP FLOW CONTROL

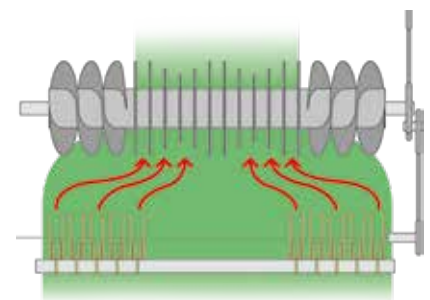


KUHN VB 3100 balers guarantee optimal crop intake. Its wide cam-track pick-up unit provides maximum ground adaption when combined with its pendulum capabilities enabling it to work in the toughest conditions.

INTEGRAL ROTOR

The entire VB 3100 range is equipped with our INTEGRAL ROTOR Technology. This simple, maintenance free, intake system guarantees an enormous throughput capacity at all times. The short distance between rotor and pick-up tines maintains consistent crop flow. The design of this force-fed intake makes higher forward speeds possible for increased productivity and reduces crop damage. The INTEGRAL ROTOR units are provided with tines made out of HARDOX® wear plates*. HARDOX® combines extreme hardness and toughness to reduce rotor tine wear. Longer wearing life of the rotor tines will help to provide time and money savings for the operator.

* Except VB 3155-3185.



HARDOX®
WEAR PLATE

INTAKE TYPE	VB 3155 - 3185	VB 3160 - 3190	VB 3165 - 3195
DIRECT FEEDING SYSTEM - Open throat	•	•	
OPTIFEED - Without cutting device	•	(Optional DROPFLOOR)	(DROPFLOOR)
OPTICUT 14 - 70 mm cutting length	•	(DROPFLOOR)	(DROPFLOOR, GROUP SELECTION)
OPTICUT 23 - 45 mm cutting length			(DROPFLOOR, GROUP SELECTION)



GROUP SELECTION

INTAKE PERFORMANCE

NON CUTTING VERSIONS

When cutting the crop is not required, the **DIRECT FEED** and **OPTIFEED** intake systems ensure a controlled and consistent crop flow to the bale chamber.

DIRECT FEEDING SYSTEM – OPEN THROAT

The direct feeding system has an unrestricted intake unit. In heavier conditions, like big wide straw or hay swaths, the top roller acts like a pre-compactor and is powered by the primary driveline of the baler. There are no fingers or rotor tines which can hinder the flow and therefore limit the intake capacity. This generates huge input potential and can prevent blockages.

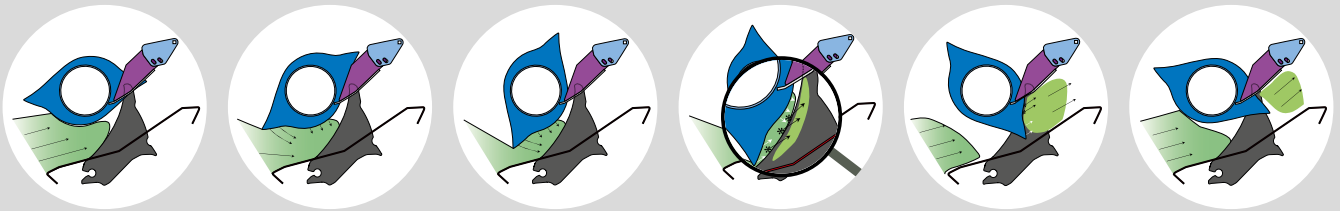
OPTIFEED ROTOR

The OPTIFEED rotor design, with single feeding tines and integrated augers helps even out the swath by spreading the crop evenly for consistent bales every time.



CUTTING VERSIONS

The **KUHN OC cutting systems**, with elliptical shaped rotor tines, are acknowledged by users as one of the best cutting systems on the market. The silage is guided and drawn down to the knives from an early stage which improves flow and cutting performance and also prevents unnecessary blockages.



OPTICUT 14

The 14-knife OPTICUT system is designed to even out the swath and force-feed the crop into the baler. The 14-knife OPTICUT cutting system provides a theoretical cutting length of 70 mm and each single knife is spring protected against damage from foreign objects. GROUP SELECTION offers a choice of 0, 4, 7, 7, or 14 knives in operation.

OPTICUT 23

The 23-knife OPTICUT system has the benefits of intensive cutting and mechanical protection. This cutting system provides a theoretical cutting length of 45 mm and each single knife is spring protected. The 23-knife OPTICUT GROUP SELECTION offers a choice of 0, 7, 11, 12, or 23 knives in operation.

The VB 3165-3195 models also have mechanical GROUP SELECTION for easy knife changing and improved driver comfort.



CROP INTAKE

FOR YOUR CONVENIENCE



DROPFLOOR

The floor and knives can be hydraulically lowered from the comfort of the tractor cab in the case of a rotor blockage. After the blockage is cleared, they can easily be brought back into work position.



ROTOR DISENGAGEMENT

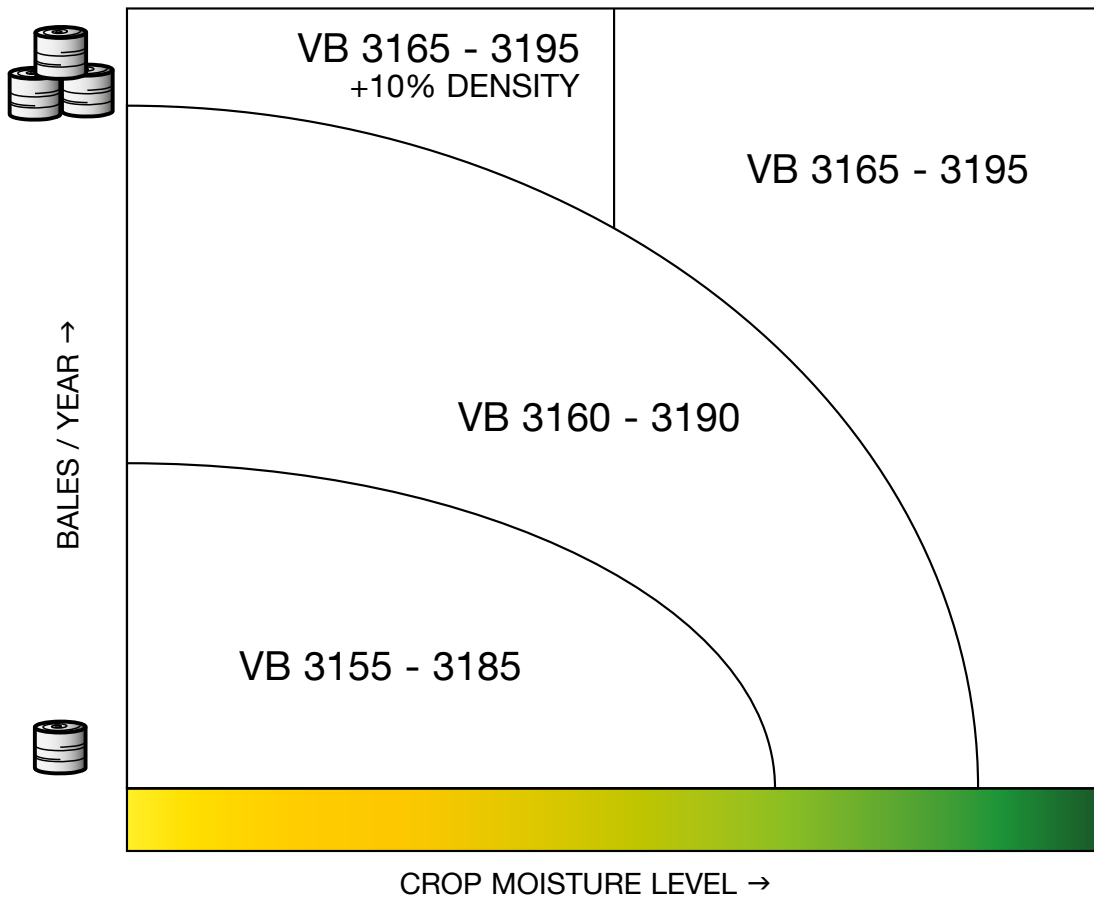
You can manually disengage the rotor drive from the bale chamber drive when dropping the floor is not sufficient. This will enable the operator to bind and eject the bale from the chamber before continuing.

Both the rotor disengagement and DROPFLOOR technology ensures a fast clearance in case of a blockage and enables you to quickly continue your baling operation.



VB3100

CHOOSE YOUR BALER



NOTE

This is for reference only, actual choice may vary because of personal preferences or local conditions.
Please contact your KUHN specialist for further information.

BALE FORMATION

THE IMPORTANCE OF BALE SHAPE

Consistent, perfectly shaped bales represent quality in every form. Firm round bales indicate that the majority of air has been removed from the bale, improving feed quality preservation!

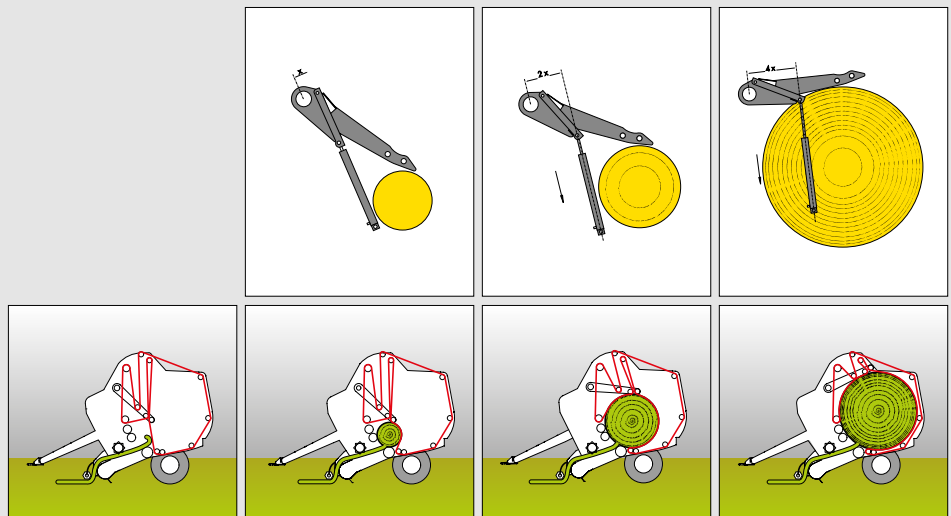


PROGRESSIVE DENSITY - THE KUHN SOLUTION

The PROGRESSIVE DENSITY system has proven its value on all KUHN VB balers. The system increases tension as the bale grows providing a firm bale with a tough outer shell.

HOW DOES IT WORK?

As the bale grows within the bale chamber, the belt tensioning arm is subjected to steadily increasing resistance from two hydraulic cylinders and a spring tensioner. So as the diameter increases, the bale's density does too. The result is a very firm bale with a moderate core – not too soft, not too hard. With a tougher outer layer, straw bales will be more tolerant to bad weather conditions, while silage bales will maintain their shape for improved stacking and easier handling.



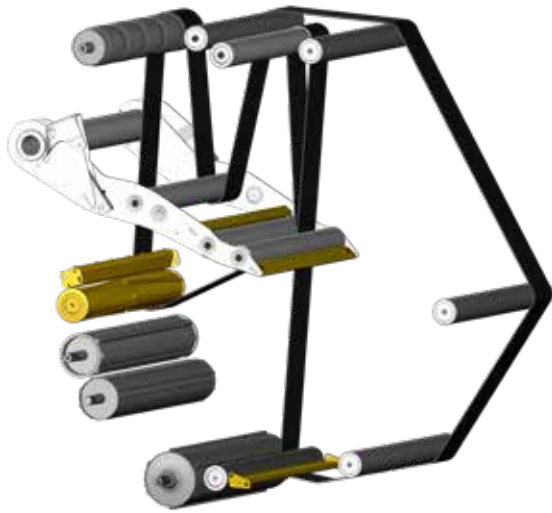
FAST, PERFECT BALE FORMATION

The 5 belt, 3 roller design of the VB 3100 series bale chamber ensures fast, consistent bale formation whatever the intake system. The aggressive profile of the top chamber roller improves crop contact and reduces crop loss. The front segment of the baler is fitted with a large smooth roller and driven cleaning roller that prevents crop build up at the front of the machine.

The unique mix of the KUHN PROGRESSIVE DENSITY system and smart bale chamber design guarantees perfect bale formation every time.

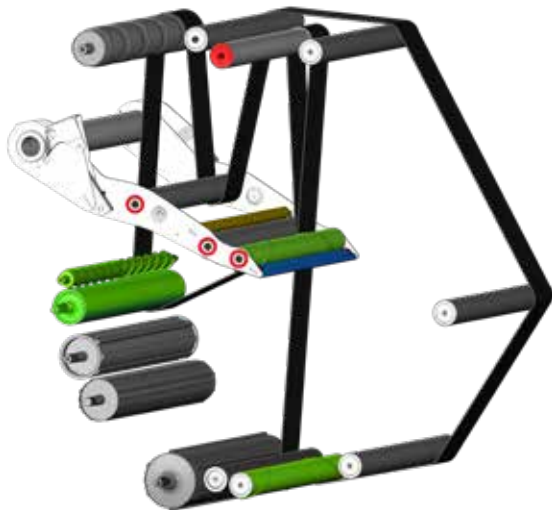


VB 3100 bale chamber



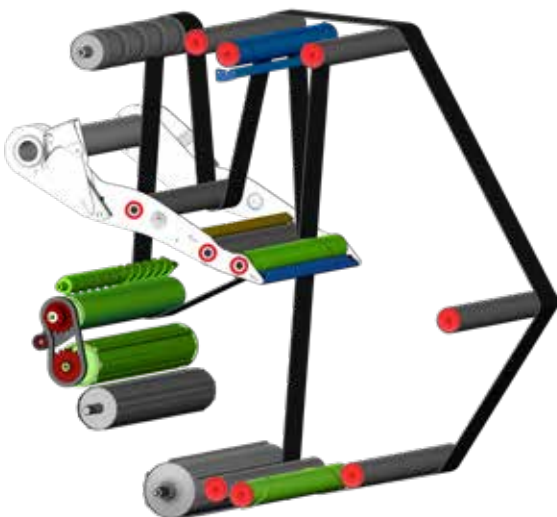
VB 3155 - 3185

BALE FORMATION	5 BELTS + 3 ROLLERS
BELTS	LACED OR ENDLESS
MAXIMUM BALING PRESSURE	200 BAR
PRESSURE SETTING	PROPORTIONAL VALVE FOR IN-CAB PRESSURE AND SOFT CORE SETTING



VB 3160 - 3190

BALE FORMATION	5 BELTS + 3 ROLLERS
BELTS	ENDLESS
MAXIMUM BALING PRESSURE	200 BAR
PRESSURE SETTING	PROPORTIONAL VALVE FOR IN-CAB PRESSURE AND SOFT CORE SETTING
BELT GUIDE ROLLERS	TENSION ARM & TOP CHAMBER ROLLERS HEAVY BEARINGS AND SEALS ●
CHAIN OILER	BEKA-MAX CONTINUOUS CHAIN OILER



VB 3165 - 3195

BALE FORMATION	5 BELTS + 3 ROLLERS
BELTS	ENDLESS + SECOND DRIVE ROLLER
MAXIMUM BALING PRESSURE	235 BAR INCLUDING + LOW DENSITY KIT
PRESSURE SETTING	PROPORTIONAL VALVE FOR IN-CAB PRESSURE AND SOFT CORE SETTING
BELT GUIDE ROLLERS	ALL BELT GUIDE ROLLERS HAVE HEAVY BEARINGS AND SEALS ●
CHAIN OILER	BEKA-MAX CONTINUOUS CHAIN OILER

Higher bale pressure settings can provide up to 10% more bale weight in dry crops.

FIRM BALE SHAPE

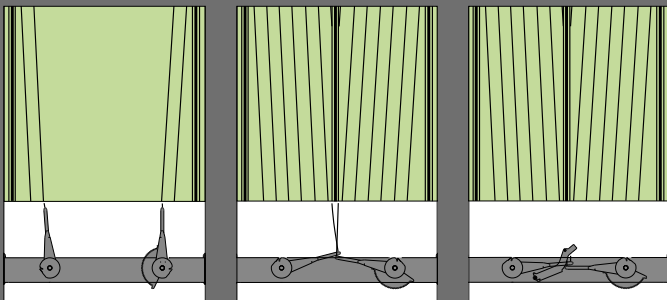
One of the final steps in creating the perfect bale is the binding. It is one of the most crucial steps! The less time required to bind the bale, the higher the baling operation output. KUHN binding solutions guarantee reliable and secure net binding.



EXCELLENT NET SPREADING

The net binder with active stretch technology ensures a firm bale shape with constant net tension throughout the entire binding cycle. The net is fed into the front of the bale chamber to ensure it is taken by the bale immediately. A second net roll storage enables the operator to carry a sufficient net supply for a longer working day. Changing of the net roll can be done easily whilst standing safely on the ground.

KUHN's innovative design maintains constant net tension during the binding process. The net wrap system runs at 90% of the bale's rotational speed to be able to stretch the net without breaking it. After leaving the bale chamber the bale will not expand and therefore it will hold its density. The net binding system spreads the net to the corners of the bale to prevent air pockets once the bale is wrapped, which will preserve the forage quality for longer.



TWINE BINDING

When using the double twine binding system, the binding cycle time is reduced to a minimum. In the twine binding cycle both of the twines start at the bale edge and overlap before moving to the centre of the bale. In the centre of the bale they overlap again, this ensures the twines are fixed and that there are no loose ends.

When required, the VB also can be equipped with a combination of twine and net binding.

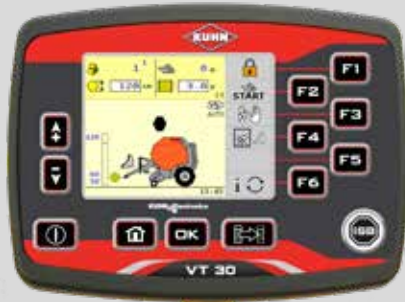
Twin tubes feed twine simultaneously

Centre twines overlap

No loose ends at edge of bale

INTUITIVE USER INTERFACES

The key to achieving the productivity you expect from your KUHN machine, are the user interfaces. We listened carefully to the users of our machines to develop our new user interfaces and terminals. The objective is to have a clear view of what your machine is doing at anytime, and to have all important settings at your fingertips. This ensures that you have full control of your machine.



VT 30

The VT 30 terminal controls the baling and binding process all from the tractor cab. The 3.5" inch colour screen provides the same user interface as the other KUHN balers, making it an easy to understand control box for all drivers. The VT 30 is equipped with both touchscreen and soft keys for an intuitive control under all circumstances. It is connected to the tractor using a 3-pin connector.



CCI 50

The Premium VB models are fully ISOBUS compatible and optional non-isobus with our VT 30 terminal. This means the intuitive user interface can be displayed on all CCI terminals. The CCI 50 is a full ISOBUS terminal with a 5.6" inch colour screen. It can be controlled using the touch screen and/or the soft keys. A selection of CCI Apps can be used on the CCI 50 to utilise your terminal all year round.



CCI 1200

The CCI 1200 is our state of the art ISOBUS terminal. The 8.3" colour touchscreen has a programmable view. For example, you can see both the camera and the machine user interface on the same screen. It offers wide compatibility with CCI Apps and can be your portal to precision farming. The CCI 1200 comes in a storage box for it to be stowed away securely when not in use.



FULL VISIBILITY

The VB range can be equipped with a KUHN camera system to provide optimal visibility and safety around the machine. There are 2 kits available, one kit is compatible with the CCI terminal, the other one consists of a separate monitor and a camera.



ELECTRONICS	VB 3155 - 3185	VB 3160 - 3190	VB 3165 - 3195
VT 30 - NON ISOBUS	•	•	
CCI 50 - ISOBUS COMPATIBLE		•	•
CCI 1200 - ISOBUS COMPATIBLE		•	•



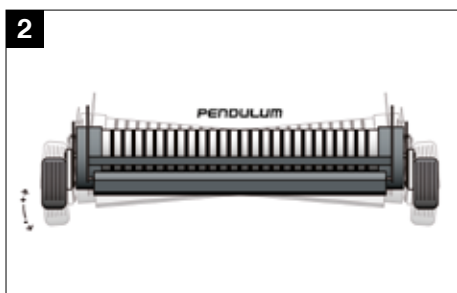
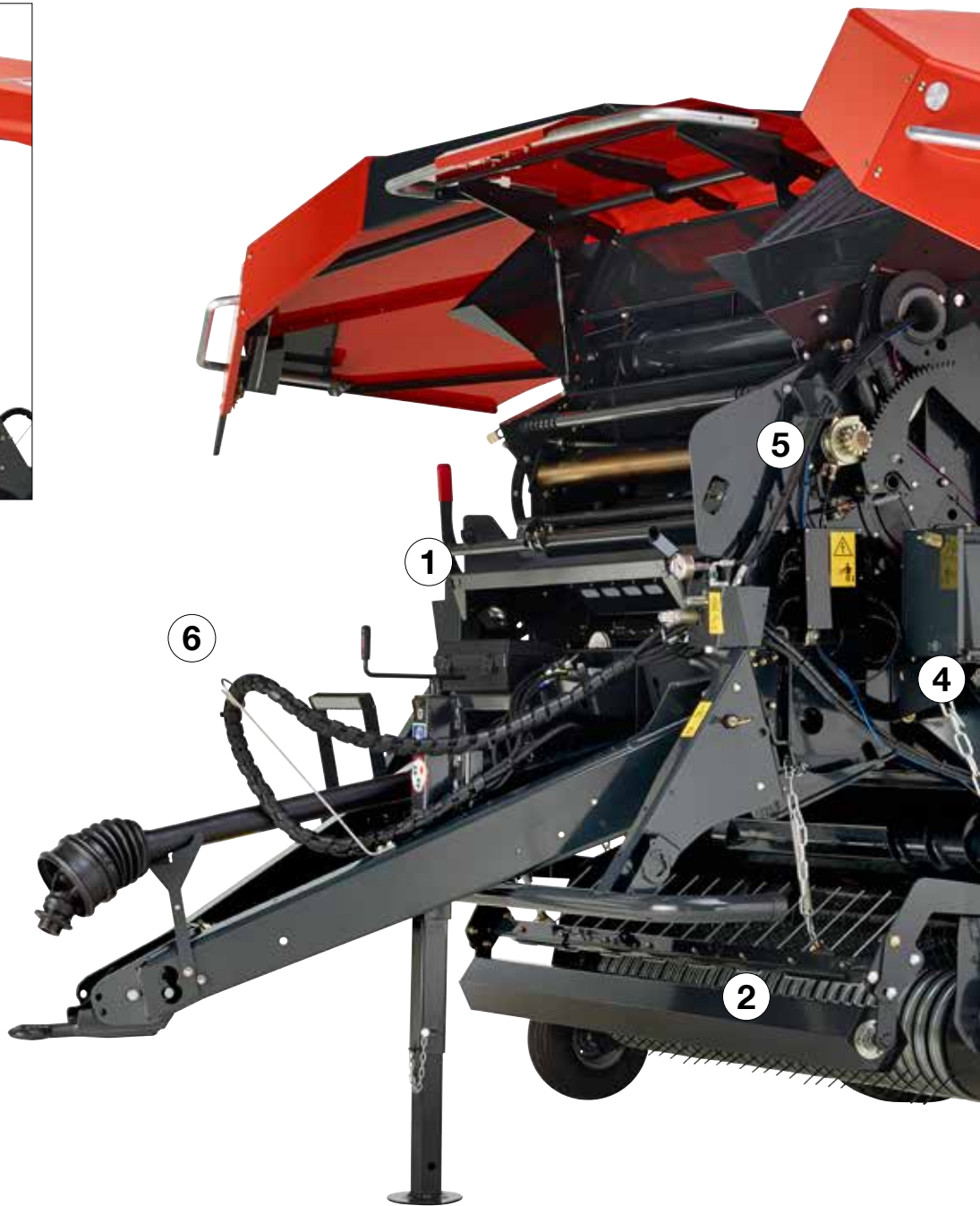


OVERVIEW VB 3155 - 3185

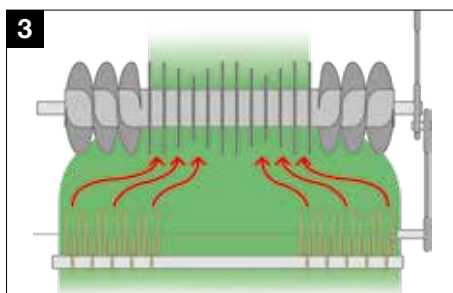
MACHINE HIGHLIGHTS



Robust driveline with high quality IWIS chains



16 Pendulum pick-up



INTEGRAL ROTOR Technology



Mechanical rotor disengagement

OPTIONS



300/80-15.3



380/55-17.0



480/45-17.0



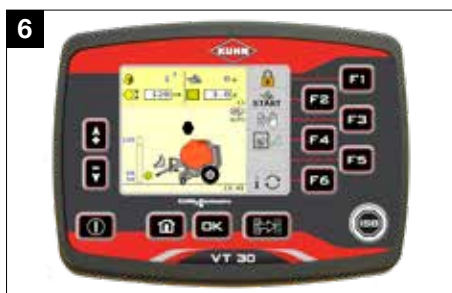
Balekicker



Chain lubrication



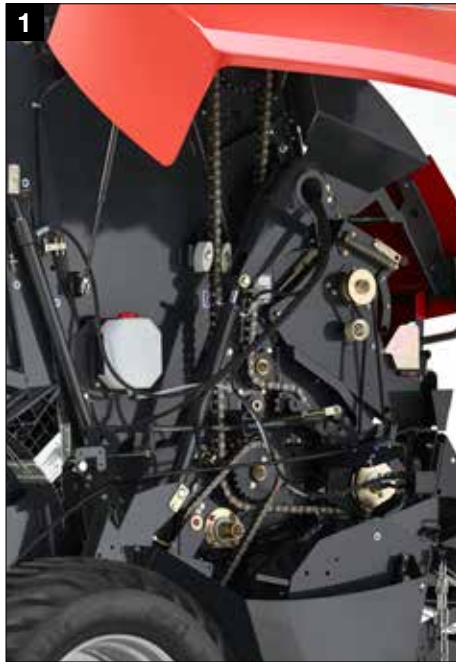
Proportional valve for in-cab density control



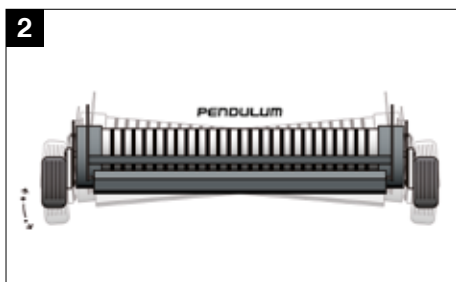
VT 30 control box

OVERVIEW VB 3160 - 3190

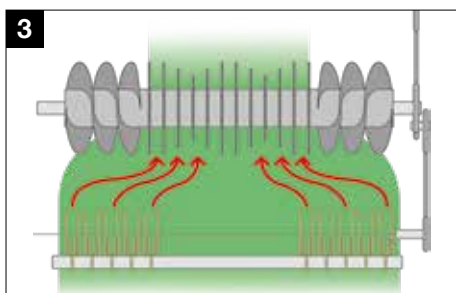
MACHINE HIGHLIGHTS



Robust driveline with high quality IWIS chains



Pendulum pick-up



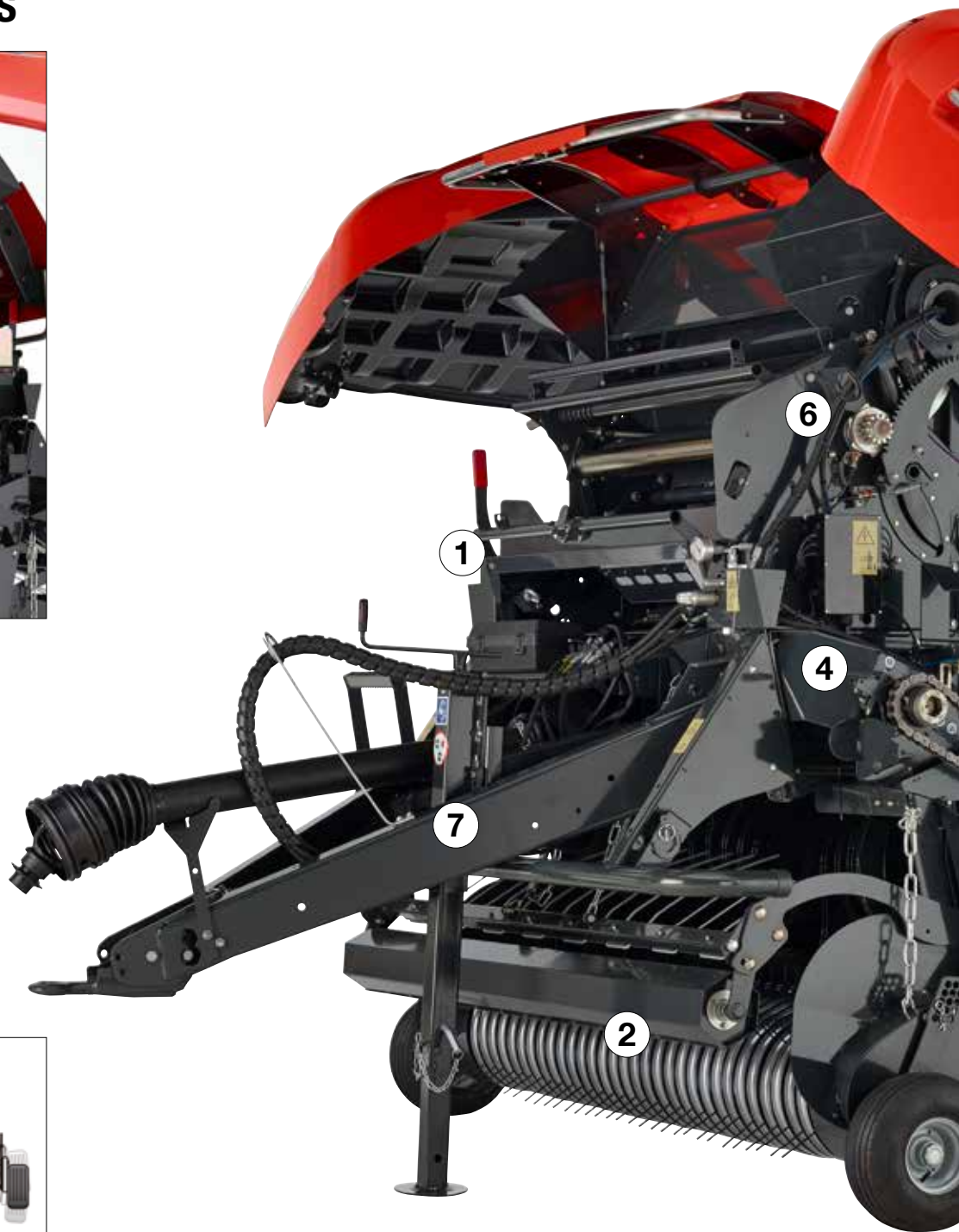
18 INTEGRAL ROTOR Technology



Mechanical rotor disengagement



Heavy duty cross joints in the drive axles



OPTIONS



Balekicker



Second belt driven roller



VT 30 control box



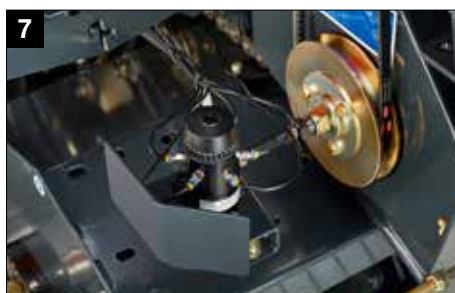
CCI 50 Control box



CCI 1200 Control box



Proportional valve for in-cab density control



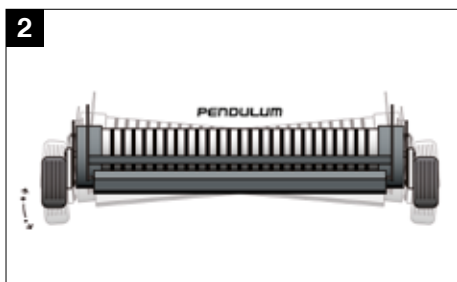
BEKA-MAX continuous chain oiling system

OVERVIEW VB 3165 - 3195

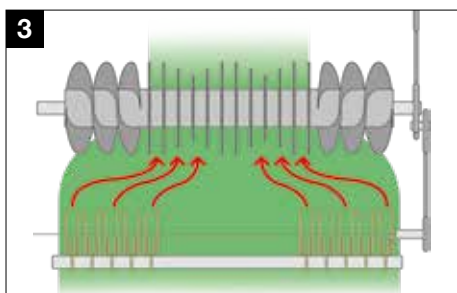
MACHINE HIGHLIGHTS



Second belt driven roller guarantees a secure belt drive in all crop conditions



Pendulum pick-up



INTEGRAL ROTOR Technology



Separate knife / DROPFLOOR controlled from the tractor cab



Sturdy and wide oil brushes on the chains ensure perfect lubrication

OPTIONS



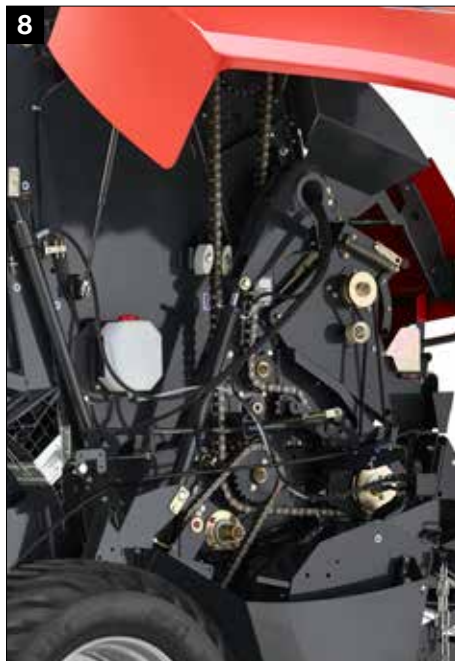
10

Large crop roller (Ø 217 mm)



9

BEKA-MAX continuous chain oiling system



8

Robust driveline with high quality IWIS chains +
1 1/4" 20BH primary driveline with chrome hardened pins



6

Heavy duty cross joints in the drive axles



7

Proportional valve for in-cab density control



500/45-22.5



Balekicker



CCI 50 Control box



CCI 1200 Control box

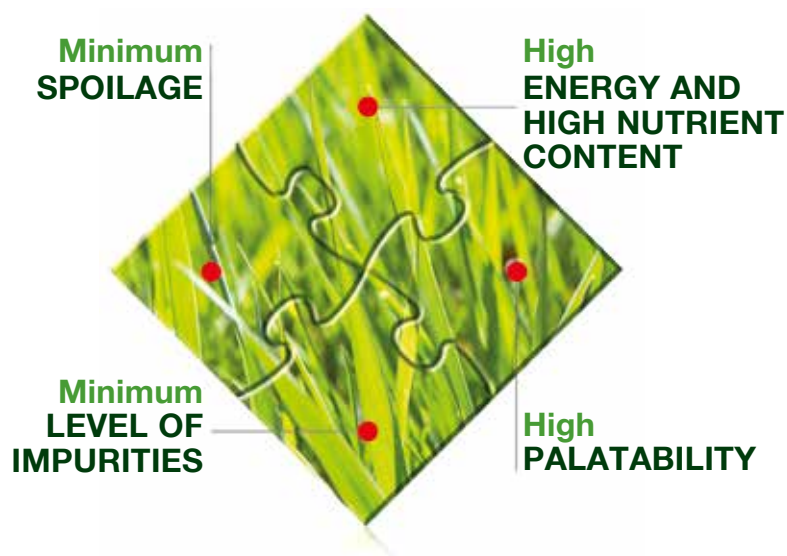
SIMPLY GREAT FORAGE!



Did you know that you can save concentrates worth 89 €/ha a year, just by reducing the impurities in the forage from 4 to 2 %*? We are here to help you produce top quality forage.

We would like to pass on several decades knowledge of forage production. We can provide advice for you to produce first-class animal feed and help you to understand the advantages of our machines in order for you to use them in an optimal way to preserve the quality of your forage.

With KUH N expertise, you will harvest forage with...



*Source: Agricultural chamber Weser-Ems, Germany.

Find all our expertise on forage. KUH N.com/en



be strong, be **KUH N**

KUH N PARTS

DESIGNED AND MANUFACTURED TO TIME



KUH N foundries and forge as well as a high-level manufacturing process allow the production of spare parts to defy time. You can truly rely on our know-how and our genuine parts. Farmers benefit from our client support and logistics services via any KUH N PARTS warehouse, which provide quick and reliable repair solutions in cooperation with your nearest authorized KUH N dealer.



SPECIFICATIONS

	VB 3155 - 3185			VB 3160 - 3190			VB 3165 - 3195		
	DIRECT FEED	OPTIFEED	OPTICUT 14	DIRECT FEED	OPTIFEED	OPTICUT 14	OPTIFEED	OPTICUT 14	OPTICUT 23
Bale dimensions									
Diameter - cm	80 - 160 / 185			80 - 160 / 185			80 - 160 / 185		
Width - cm	120			120			120		
Pick-up									
Pick-up width - cm	210	230		210	230		230		
Number of tine rows	4 rows			4 rows	5 rows		5 rows		
Tine spacing - mm	61			61			61		
Short crop pick-up roller	Standard			Standard			Standard (Ø 217 mm)		
Pneumatic gauge wheels	◆			◆			◆		
Pivoting guide wheels	◇			◇			◇		
Bale chamber									
Bale formation	5 belts + 3 rollers			5 belts + 3 rollers			5 belts + 3 rollers		
Belt width - mm	215			215			215		
Belts	Laced or Endless			Endless			Endless belts and second drive roller standard		
Intake									
Intake unit	Open Throat	Rotor	Cutting Rotor with double tines	Open Throat	Rotor	Cutting Rotor with double tines	Rotor	Cutting Rotor with double tines	
Rotor tines made out of HARDOX® wear plates	-	-	-	-	◆	◆	◆	◆	
Theoretical cutting length - mm	-	-	70	-	-	70	-	70	45
Knife protection	-	-	Individual spring	-	-	Individual spring	-	Individual spring	
GROUP SELECTION	-	-	-	-	-	-	-	◆	◆
Rotor disengagement	-	Manual		-	Manual		-	Manual	
DROPFLOOR	-	-	-	-	◇	◆	◆	◆	◆
Binding	Twine, Net, Twine & Net			Net, Twine & Net			Net, Twine & Net		
Double twine wrap/capacity	◆ / 8			-			-		
Net binding/capacity	◇ /1+2			◆ /1+2			◆ /1+2		
Net and twine/capacity	◇ /1+1/8			◇ /1+1/8			◇ /1+1/8		
Operation									
ISOBUS	-			◇			◆		
VT 30	◆			◇			-		
Bale pressure setting	Terminal			Terminal			Terminal		
Independent knife/ DROPFLOOR selection	-	-	Manual (on baler valve)	-	-	Manual (on baler valve)	-	Terminal	
Tyres									
300/80-15.3	◆								
380/55-17.0	◇			◆					
480/45-17.0	◇			◇					
500/45-22.5				◇			◆		
Hydraulic/pneumatic brakes	◇/◇			◇/◇			◇/◇		
Machine dimensions									
Length - cm	402			402			402		
Width - cm	245			245			270		
Height - cm	267 / 287			267 / 287			267 / 287		
Weight - kg	≥ 2.500	≥ 2.900	≥ 3.050	≥ 2.540	≥ 3.040	≥ 3.240	≥ 3.220	≥ 3.420	≥ 3.470
Minimum tractor requirement*	45 kW (62 hp)	50 kW (67 hp)	60 kW (80 hp)	45 kW (62 hp)	50 kW (67 hp)	60 kW (80 hp)	45 kW (62 hp)	50 kW (67 hp)	60 kW (80 hp)

◆ standard ◇ option - = not available

* = Horsepower requirement may vary with different crops, conditions, and options used. Consult operators manual for proper tractor sizing.

VB

3100 series

DESIGNED BY KUHN, MADE BY KUHN

Check out KUHN's complete full-liner range in bale equipment



1. Fixed Balers - 2. BalePacks - 3. i-BIO+ - 4. Large Square Balers - 5. + 6. Round and Square Bale Wrappers.

For more information about
your nearest KUHN dealer, visit our website
www.kuhn.com



Visit us on our YouTube channels.



www.kuhn.com

Your KUHN dealer

KUHN S.A.

4 Impasse des Fabriques - BP 50060,
F-67706 Saverne CEDEX - FRANCE

KUHN NORTH AMERICA, INC.

1501 West Seventh Avenue - Brodhead, WI 53520 - USA

KUHN FARM MACHINERY PTY. LTD

313-325 Foleys Road - Deer Park, VIC, 3023 - AUSTRALIA

KUHN FARM MACHINERY (U.K.) LTD

Stafford Park 7 - GB TELFORD/ SHROPS TF3 3BQ

Information given in this document is only for information purposes and is non-contractual. Our machines are in compliance with regulations in force in the country of delivery. In our literature, and for improved illustration of certain details, some safety devices may not be in operating position. When operating these machines, these devices must be in position in accordance with the requirements indicated in the operator's manuals and assembly manuals. Respect the tractor gross vehicle weight rating, its lift capacity and maximum load per axle and tyres. The tractor front axle load must always comply with the regulations of the country of delivery (In Europe, it must reach minimum 20 % of the tractor net weight). We reserve the right to change any designs, specifications or materials listed without further notice. Machines and equipment in this document can be covered by at least one patent and/or registered design. Trademarks cited in this document may be registered in one or several countries.

Also find KUHN on

