

Large Square Balers

LSB

870 / 890 D / 1290 D



www.KuhnNorthAmerica.com



Invest in Quality®



LARGE SQUARE BALERS LSB 870 / 890 D / 1290 D

WHERE INNOVATION MEETS TRADITION

YEARS OF EXPERIENCE

With over 30 years of experience in large square baling, Kuhn large square balers lead the industry with innovative features, simple designs with fewer moving parts and advanced electronics.

HIGH CAPACITY

Our goal is to develop machines that will boost the profitability of your operation. High output is a key success factor for every large square baler operator. Kuhn large square balers have several unique features that will provide the capacity your operation requires.

HIGH-QUALITY BALES

Rock-hard, square-edged bales are what every customer is looking for. Not only are they easier to handle, stack and haul, but their consistent density provides the quality you expect.

RELIABILITY

To achieve maximum throughput from your baler, reliability is a must. Kuhn large square balers are designed with simple, heavy-duty components. The result is a machine you can depend on with minimum downtime.

LARGE SQUARE BALERS LSB in brief:

Models	Bale Height	Bale Width	Bale Size	Integral Rotor
LSB 870	28"	31.4"	2x3	OptiFeed, OC-15
LSB 890 D	35"	31.4"	3x3	OptiFeed, OC-15
LSB 1290 D	35"	45.6"	3x4	OptiFeed, OC-23

VERSATILITY TO MEET YOUR OPERATION'S NEEDS

To better meet your operation's specific needs, there are three different intake options available on LSB balers. Select from an OptiFeed non-cutting rotor, a 15- or 23-knife OptiCut integral rotor.

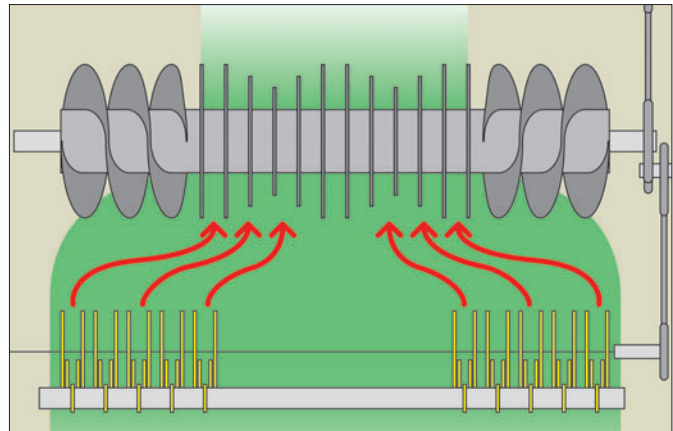


OC-CUTTING INTAKE SYSTEMS

With 20 years of experience behind our cutters, the OC cutting systems are designed for maximum intake capacity. There are two different types of Kuhn OC cutting systems.

IT ALL STARTS WITH THE PICKUP

The pickup is designed to match the full capacity of the baler. The wide, 91-inch pickup with narrow tine spacing will leave your fields clean. Straight pickup tines help release the crop and reduce crop wrapping. Uniquely shaped crop guides result in more aggressive and efficient pickup by exposing more of the tine when needed and by pulling the crop away from the tines as it approaches the intake. The pickup roller compresses the crop against the pickup tines reducing friction, thus reducing leaf loss and increasing baler efficiency by evening out the windrow. In extreme conditions, pivoting gauge wheels ease wheel and tire stress.



INTEGRAL ROTOR TECHNOLOGY

The large diameter rotor has heavy-duty auger flighting integrated directly onto the outer sections of the v-shaped rotor. This system is called Integral Rotor Technology. This maintenance free, short-distance intake system ensures even feeding regardless of variations in the crop. With this system, even the heaviest of crops are force-fed through the short intake, resulting in higher speeds for faster bale output.



OPTIFEED – NON-CUTTING INTAKE SYSTEM

When crop cutting is not required, the OptiFeed system ensures a controlled and consistent crop flow to the pre-chamber. This rotor design helps even out windrows by moving hay where needed for consistent bale formation. This force-fed, non-cutting intake is the perfect solution for handling tough crop conditions such as cornstalks, short straw and high-moisture crops.

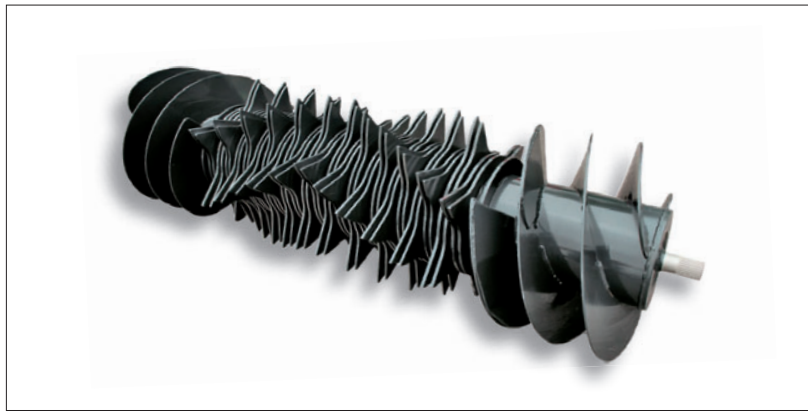
Note: Available on all LSB models



OPTICUT 15

The OC-15 offers a 1.75" theoretical length of cut. The small cut provides better fermentation of forages and more absorbent straw for bedding. The Kuhn patented rotor tine shape ensures a low power requirement and a superior cut quality. The knives, individually protected with a spring, can be changed easily with the standard slide tray.

Note: Available only on LSB 870 & 890 D



OPTICUT 23

The OC-23 offers a 1.75" theoretical length of cut. The large 24" OptiCut rotor is designed with your operation's high-capacity needs in mind. The knives on the OC-23 have individual hydraulic protection.

With just two levers, you can easily choose from the following knife group configurations: 0 – 11 – 12 – 23. Together with the standard slide tray for easy knife changing, you not only invest in cutting quality but, above all, in driver comfort.

Note: Available only on LSB 1290 D

CONSISTENT, DENSE, HIGH-QUALITY BALES

THE IMPORTANCE OF BALE SHAPE

Consistently shaped bales provide more than just aesthetic appeal. A dense, consistently filled bale represents quality in every form. Square bales are easy to handle and stack. In addition, they are much more stable during transport than a poorly formed bale. In silage applications, a square-edged bale indicates less air content, resulting in higher quality feed.

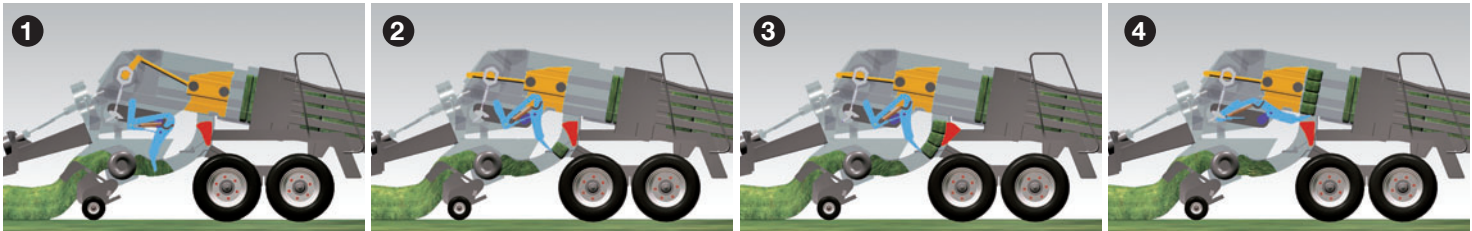
The Kuhn Power Density system, a single feeder fork design, proves that a well-engineered component can eliminate complexity. This system ensures consistently filled flakes and results in heavy, square-edged bales regardless of the windrow condition.

POWER DENSITY – THE KUHN SOLUTION



The single feeder fork combines two functions into one mechanism, eliminating unneeded components and complexity. Kuhn's exclusive Power Density system runs at twice the speed of the plunger allowing a minimum of one flake formed per plunger stroke. This creates consistent bale shape and excellent density.

HOW DOES IT WORK?



1 The integral rotor actively delivers the crop to the pre-chamber.

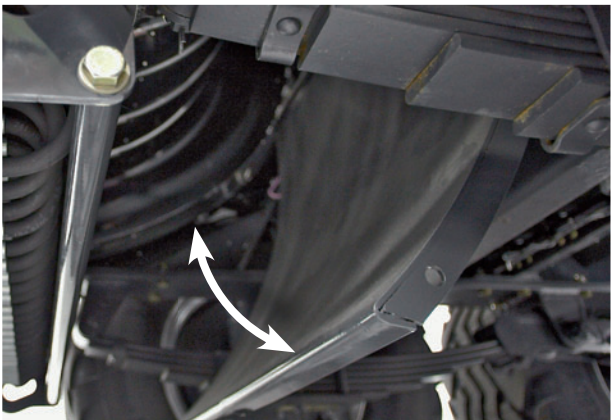
2 The single-acting feeder fork (blue) lifts the feed up to the measuring plates (red).

3 The single-acting feeder fork continues to form the bale flake until the measuring plate is pushed back with a predetermined force.

4 Once the measuring plate is pushed back it locks the single acting feeder fork to push the perfectly formed flake into the bale chamber.



Scan the following QR code to see Progressive Density in action.



EXCLUSIVE PRE-CHAMBER INSPECTION DOOR

An exclusive feature is the inspection door at the bottom of the pre-chamber. For easy access to the pre-chamber, the complete underside can be opened without using tools for simple seasonal cleanout.





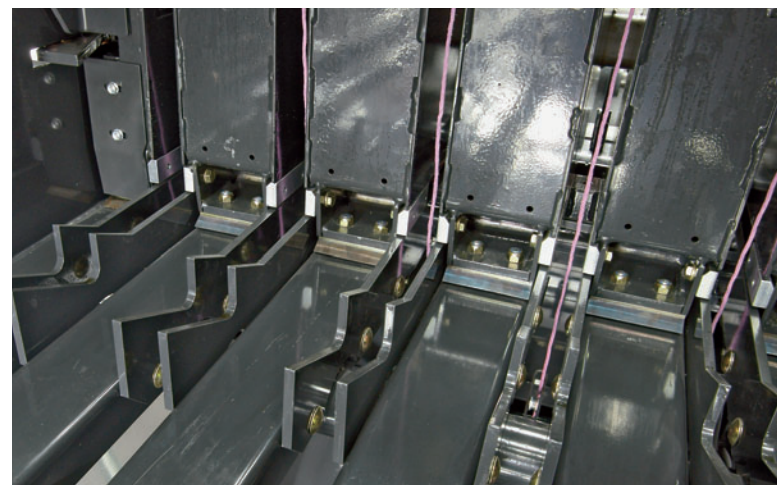
THE BALE CHAMBER

The specially designed bale chamber of the Kuhn LSB machines is the result of more than 30 years of experience in large square balers. With the 10-foot long bale chamber, there is plenty of space to form a rock-hard, square-edged bale. The combination of aggressive retainers and special wedge-shaped doors brings maximum compaction and gentle expansion of the bale.



PLUNGER

Forty-six plunger strokes per minute result in a high bale capacity. The plunger is guided by four large rollers with a 5" diameter for maximum service life.



Top and bottom retainers prevent decompression of the bale and provide extra density

DENSITY REGULATION

Kuhn LSB balers are known for producing rock-hard, square-edged bales with consistent density. The density can be regulated in two ways according to the driver's preference. 1.) Using the manual setting, the density is directly regulated from the monitor. 2.) With the automatic setting, the machine detects the load and automatically adjusts the pressure on the bale chamber. Switching between the two settings is quick and easy resulting in a versatile, easy to operate machine.

LAST BALE EJECTOR

To guarantee safe transport on the road, the last bale ejector can be used to remove the last bale from the chamber.



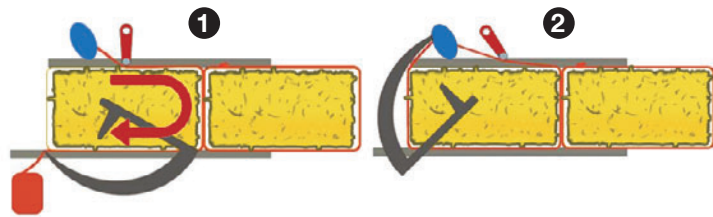


KNOTTING A SOLUTION FOR EVERYONE

One of the last steps in creating a high-quality bale is the knot. With the knotting options on the Kuhn LSB, you can be sure of a reliable and secure knotting system that meets your operation's requirements.

TWIN-STEP® KNOTTING

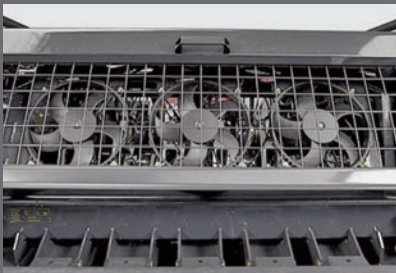
The unique Twin-Step knotting system on the LSB 870 combines a single knoter and tension release arm that releases the twine tension during the knotting cycle. The result is a reliable, easy to adjust knotting system.



While baling, the knotters (blue) are at rest and the twine is guided by the twine tension release lever (red), in the vertical position. Tension is held on the twine to ensure maximum bale density.

Step 1: As the bale reaches the desired length, the needles (gray) are activated and move upward toward the knotters to start the knotting cycle.

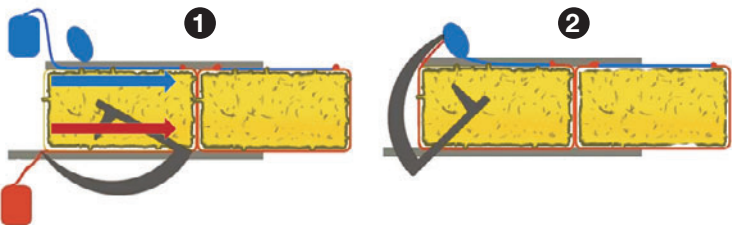
Step 2: By pivoting backward, the tension lever (red) releases the twine and therefore, reduces tension to the knoter during the knotting cycle. The Twin-Step process is simple and reliable.



LSB 870
Twin-Step models
Electric knoter fans

DOUBLE KNOTTING

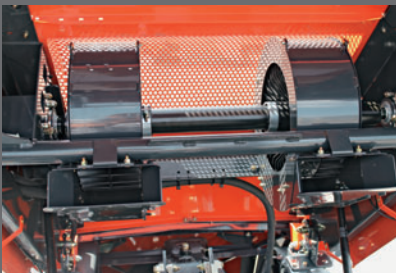
The LSB 890 D and LSB 1290 D are equipped with a double-knotting system. With the electronic knoter control, the driver has accurate information concerning twine tension at all times and receives an alarm if an issue arises. The knotting progress can be monitored directly from the tractor cab.



During baling, an upper (blue) and lower (red) twine is fed to the bale, because the twine is not slipping around the bale there is no tension on the twine during the bale formation.

Step 1: As the bale reaches the desired length, the needles (gray) are activated and move upward to the knoter to start the knotting cycle. In this first step the bale is finished with the first knot.

Step 2: Once the first knot has finished the bale, the second knot connects the upper and lower twine again so the bale can be formed without tension on the twine during knotting.

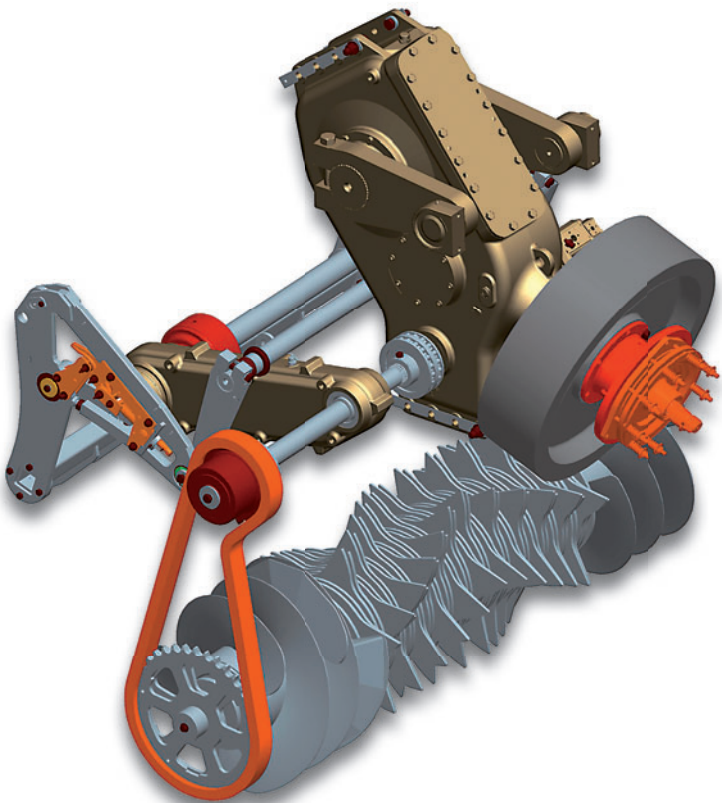


LSB 890 D & 1290 D
Double-knotter models
Dual hydraulic-driven fans

HEAVY-DUTY DRIVELINE, MAXIMUM PROTECTION

HEAVY-DUTY DRIVELINE

Kuhn uses a combination of synchronized gearboxes, drivelines and oversized chains designed for maximum life and limited maintenance. The driveline layout is simple, clean, and easy to service and maintain while minimizing the overall number of moving parts.



INSTANT PROTECTION

The pickup, integral rotor and feeder fork are protected with cam-type clutches, which are automatically activated in the event of an overload.

The clutch re-engages when the operator reduces the PTO speed. This allows the operator to restart the stalled component from the driver's seat, reducing overall downtime that is typical with slip clutches and shear bolts.

Another benefit of these clutches is that they give the ability to drive at a constant speed without worrying about plugging.

Heavy, large-diameter flywheels are featured on all LSB models. The large flywheel creates the force needed to pack the bale. This also reduces the horsepower required, and the torque spikes through the components and driveline, resulting in less fuel consumption and wear for extra longevity.



Integral Rotor protection clutch



EASY MAINTENANCE & ACCESSIBILITY

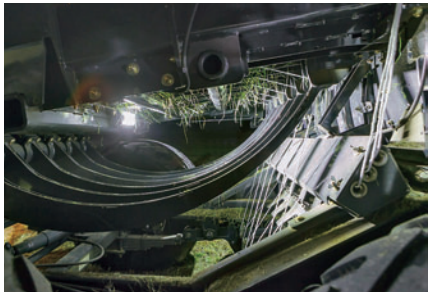


EASY-ACCESS TWINE BOXES

The twine boxes swing out completely for easy access to the vital parts of the machine. Behind the full-access side doors, spools of twine can be stored.

The twine boxes on the LSB 870 are capable of storing up to 24 twine spools and have a cover to help keep dust out.

The LSB 890 D and LSB 1290 D have a twine capacity of 30 spools. The twine storage itself is sealed to keep twine rolls clean for consistent, reliable tying.



SERVICE LIGHTS

The LSB 870 features a moveable service light. It can be plugged in at three convenient locations and provide you with light where you need it.

The LSB 890 D and LSB 1290 D are equipped with LED service lights on the needles and twine box for easy machine inspection.



AUTOMATIC GREASING

To reduce daily maintenance and to preserve your machine, the automatic central greasing system is fitted on most models. The automatic greasing system covers all the greasing points on the baler except for the drivelines and tandem axle. This is another example of how Kuhn helps you protect your investment for years to come.



SIMPLE KNIFE MAINTENANCE

After lowering the slide tray that holds the knives, it can simply be pulled out on the right-hand side of the baler. Inspecting and removing the knives to sharpen or replace is quick, clean and easy. Spare knives can be safely stored within reach. Knives can be removed and changed in minutes, without any tools. When cutting is not required, blind knives can be easily inserted to keep from plugging the knife slots.

CUSTOMIZED TO FIT YOUR OPERATION

ELECTRONICS

ISOBUS

All Kuhn LSB balers are ISOBUS compatible. ISOBUS compatible tractors, therefore, will not require a separate monitor for the baler. Alternatively, the CCI 200 or VT 50 monitor can be used with tractors that are not ISOBUS compatible. Operator settings, such as bale density and knife activation, are accessed through the monitor. Operator warnings such as overload, twine routing and operator information, including flakes per bale and number of bales, are also provided.



CCI 200

The ISOBUS compatible CCI 200 terminal has a large 8.5" color screen with outstanding clarity. Machine adjustments can be easily made via the touchscreen or with the intuitive, large soft keys. The CCI 200 monitor can also be used with many other ISOBUS compatible machines on the market.



VT 50

The Kuhn ISOBUS VT 50 monitor has a 5.7" color screen with outstanding clarity. Adjustments can easily be made by the touchscreen and the large soft-touch keys on the sides. The VT 50 monitor can be used for all Kuhn ISOBUS machines.

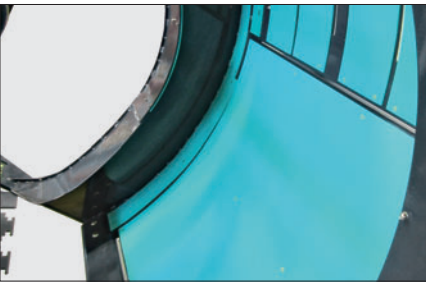
OPTIONS

LED WORK LIGHTS



There is a choice of additional LED work lights on the pickup and the bale chute to have a clear view all night long. *(LSB 890 D & LSB 1290 D only)*

EASY FLOW KIT



The easy flow kit is useful for silage conditions in wet/sticky material. The Teflon plates reduce friction for better crop flow.

BALE DROP SENSOR



A bale drop sensor can be installed to alert the operator when the bale is dropping.

MOISTURE SENSOR



All LSB balers can be equipped with a moisture sensor. Moisture information shows up in real time on the tractor monitor.

BALE LENGTH ADJUSTMENT



Electronic bale length adjustment is available for all LSB models. This system allows the operator to change the bale length on-the-go without having to stop.



Model Specifications

	LSB 870 OptiFeed	LSB 870 OptiCut	LSB 890 D OptiFeed	LSB 890 D OptiCut	LSB 1290 D OptiFeed	LSB 1290 D OptiCut
Bale Dimensions						
Bale Size	2X3	2X3	3X3	3X3	3X4	3X4
Width	31.4"/80 cm	31.4"/80 cm	31.4"/80 cm	31.4"/80 cm	45.6"/120 cm	45.6"/120 cm
Height	28"/70 cm	28"/70 cm	35"/90 cm	35"/90 cm	35"/90 cm	35"/90 cm
Length	24"/60 cm up to 118"/300 cm	24"/60 cm up to 118"/300 cm	24"/60 cm up to 118"/300 cm	24"/60 cm up to 118"/300 cm	24"/60 cm up to 118"/300 cm	24"/60 cm up to 118"/300 cm
Pickup						
Intake Width	91"/230 cm	91"/230 cm	91"/230 cm	91"/230 cm	91"/230 cm	91"/230 cm
Pickup Diameter	13"/34 cm	13"/34 cm	13"/34 cm	13"/34 cm	13"/34 cm	13"/34 cm
Number of Tine Bars	4	4	5	5	5	5
Tine Spacing	2.4"/6.1 cm	2.4"/6.1 cm	2.4"/6.1 cm	2.4"/6.1 cm	2.4"/6.1 cm	2.4"/6.1 cm
Bale Chamber						
Number of Plunger Strokes	46/Min	46/Min	46/Min	46/Min	46/Min	46/Min
Plunger Stroke Length	27"/69.5 cm	27"/69.5 cm	27"/69.5 cm	27"/69.5 cm	27"/69.5 cm	27"/69.5 cm
Density Control	3 Hydraulic Cylinders	3 Hydraulic Cylinders	3 Hydraulic Cylinders	3 Hydraulic Cylinders	4 Hydraulic Cylinders	4 Hydraulic Cylinders
Bale Chamber Length	10'/305 cm	10'/305 cm	10'/305 cm	10'/305 cm	10'/305 cm	10'/305 cm
Controls	ISOBUS (VT 50 or CCI 200)	ISOBUS (VT 50 or CCI 200)	ISOBUS (VT 50 or CCI 200)	ISOBUS (VT 50 or CCI 200)	ISOBUS (VT 50 or CCI 200)	ISOBUS (VT 50 or CCI 200)
Knotters						
Number of Knotters	4	4	4	4	6	6
Knotting System	Twin-Step	Twin-Step	Double Knotter	Double Knotter	Double Knotter	Double Knotter
Knotted Cleaning	Electric Knotter Fans	Electric Knotter Fans	Dual Hydraulic-Driven Fans	Dual Hydraulic-Driven Fans	Dual Hydraulic-Driven Fans	Dual Hydraulic-Driven Fans
Twine Capacity (rolls)	24	24	30	30	30	30
Intake System						
Integral Rotor	OptiFeed	OptiCut	OptiFeed	OptiCut	OptiFeed	OptiCut
Knives	N/A	0/10	N/A	0/15	N/A	0/11/12/23
Theoretical Cutting Length	N/A	2.75"/70 mm	N/A	1.75"/45 mm	N/A	1.75"/45 mm
Knife Protection	N/A	Individual Spring	N/A	Individual Spring	N/A	Individual Hydraulic
Wheels and Axles						
Single Axle	Hydraulic Brakes	Hydraulic Brakes	Hydraulic Brakes	Hydraulic Brakes	Hydraulic Brakes	Hydraulic Brakes
600/50-22.5	X	X				
600/55-22.5	X	X	X	X	X	
710/40-22.5						
710/40R22.5						X
Tandem Axle	Hydraulic Brakes	Hydraulic Brakes	Hydraulic Brakes	Hydraulic Brakes	Hydraulic Brakes	Hydraulic Brakes
425/65R22.5	X	X	X	X	X	X
550/45/22.5	X	X	X	X	X	X
Machine Dimensions						
Length	25'7"/7.8 m	25'7"/7.8 m	26'3"/8 m	26'3"/8 m	26'3"/8 m	26'3"/8 m
Width	9'1"/2.76 m	9'1"/2.8 m	9'1"/2.8 m	9'1"/2.8 m	9'10"/3 m	9'10"/3 m
Height	8'10"/2.7 m	8'10"/2.7 m	10'7"/3.3 m	10'7"/3.3 m	10'7"/3.3 m	10'7"/3.3 m
Weight*	17,000 lbs/7,711 kg	17,650 lbs/8,006 kg	19,000 lbs/8,618 kg	19,600 lbs/8,890 kg	21,400 lbs/9,707 kg	22,800 lbs/10,342 kg
Minimum Power Requirement	90 hp/67 kW	100 hp/75 kW	105 hp/78 kW	115 hp/86 kW	150 hp/ 112 kW	170 hp/127 kW
Required Tractor Hydraulic Connections	2 SA and 1 DA	2 SA and 1 DA	2 SA and 1 DA	2 SA and 1 DA	2 SA and 1 DA	2 SA and 1 DA
Hiitch	Cat. 3 (Fixed)	Cat. 3 (Fixed)	Cat. 4 (Swivel Ball)	Cat. 4 (Swivel Ball)	Cat. 4 (Swivel Ball)	Cat. 4 (Swivel Ball)

*Single axle model excluding cutting device

COMPLEMENTARY PRODUCTS

MORE PRODUCTS TO MEET YOUR NEEDS

With over 700 models of equipment, we have the most complete implement line in the industry. Whether you have a small or large operation, we have a broad range of models and options to help fit your diverse needs.



1. Mowers
2. Mower Conditioners
3. Round Balers
4. Square Bale Wrappers
5. Bale Processors
6. TMR Mixers

For more information about your nearest Kuhn dealer and other Kuhn products, visit our website at www.KuhnNorthAmerica.com



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Information given in this document is only for informational purposes and is non-contractual. Our machines are in compliance with North American safety standards. 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 operated in accordance with the requirements indicated in the operator's manuals and assembly manuals. 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.

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