

HighSpeed



BiG Pack 870 HDP

High-density Large Square
Baler with MultiBale



The BiG Pack 870 concept



BiG Pack 870 from KRONE makes our unique MultiBale technology available in a smaller format. The machine produces regular big bales but can also tie up to eight small bales into one large 2'7" x 2'3" package, baling at a density as high as that achieved by KRONE BiG Pack 1290 HDP only and using our well-proven double knotter technology, which ties five threads of twine around the individual bales to form one large and firm package.



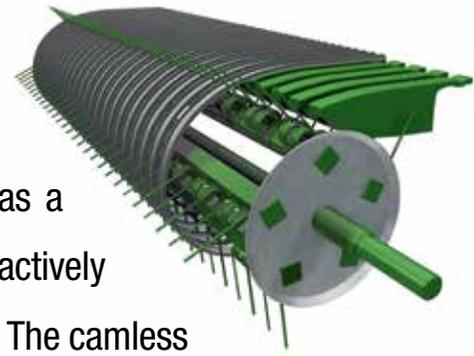
Big bales are easier and faster to collect and offer a higher transport efficiency, because the number of individual bales that needs collecting in the field drops by up to 8 times the amount of bales produced by a three-tie baler. In addition, the machine achieves an up to 25% higher bale density than a regular square baler, boosting transport efficiency and allowing farmers to store more crop in less space.



To break up the big bale, simply cut three threads and handle the small bales conveniently without the use of a loader.



The BiG Pack 870 Features



The new 'Active Pick-up' has a powered feed roller, which actively feeds the crop into the baler. The camless technology provides a number of obvious benefits: extremely quiet running and much higher throughputs whilst minimizing the number of moving parts.

The VFS Variable Filling System from KRONE produces rock-hard and well-shaped bales even from thin swaths and at slow forward speeds. Protected by a massive cam clutch, the filling system is extremely easy to operate – also on rare occasions of blockages.

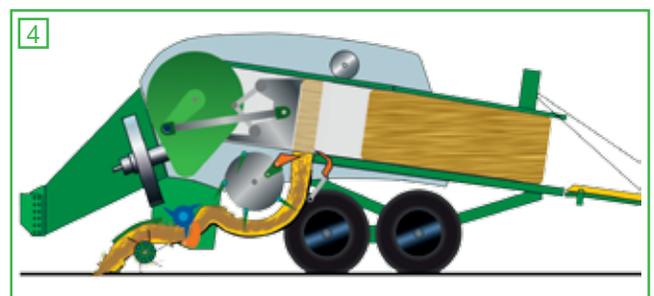
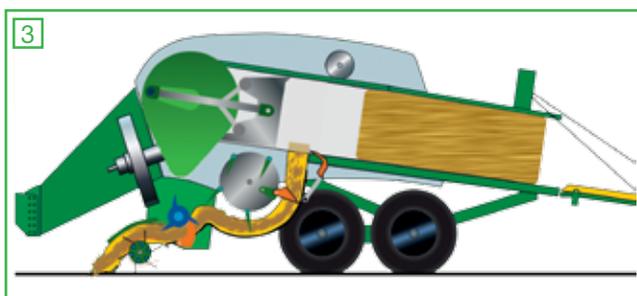
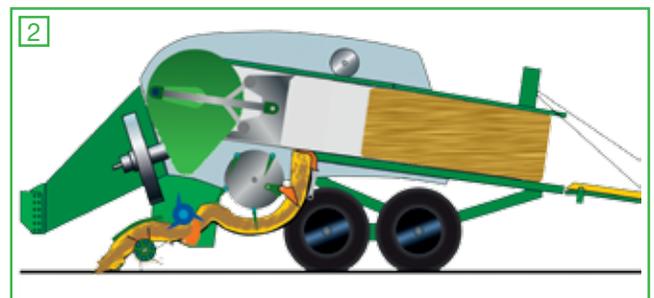
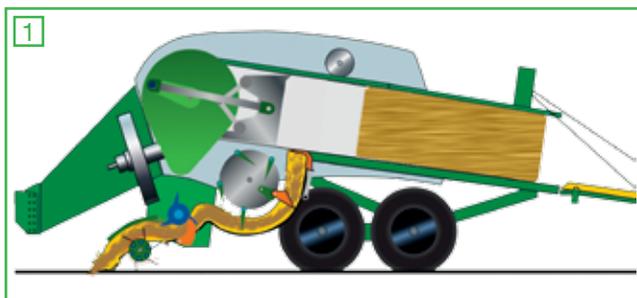


Fig. 1:
The VFS system uses 4 packer rakes and one feeder rake as well as a retainer. The packers are controlled by a common cam track, the feeder rakes by a second rotating cam track.

Fig. 3:
Only when the feed chamber is filled to capacity does the retainer hook automatically swing to the rear. This clears the transition into the bale chamber and at the same time releases a clutch.

Fig. 2:
As long as the cam track of the feeder is not in the rotated position, the packer and feeder consistently convey the crop into the feed chamber and pre-compress it. The retainer holds back the crop under the bale chamber.

Fig. 4:
The clutch rotates the entire cam track of the feeder rake which now conveys the crop into the chamber. The retainer and feeder rake then move back automatically to their starting position.

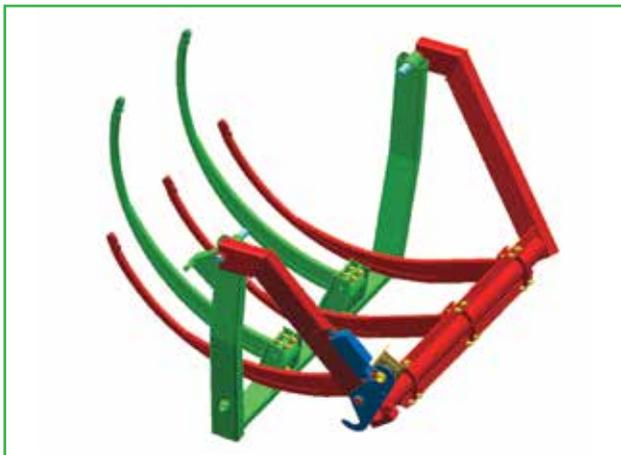


The driveline

Hard-wearing and long-lasting are the attributes of the gearbox and the drive shafts, which stand out for very dependable operation. Cam clutches and slip clutches replace shear pins to offer peace of mind and a maximum of operator comfort. It is the massive flywheel that accounts for the absolutely quiet running provided by KRONE BiG Pack.



The MultiBale system



Relying on a split needle arm and a double knotter, the machine is able to tie up to nine small bales into one large 8'10" bale. While solely the two green needles are activated to tie the small bales all five needles are in action when tying all small bales into one large package, which is held together by three threads.



Integral moisture sensor

The optional moisture sensor provides the operator with consistent updates on the current moisture levels. The information is read out on the in-cab monitor and the system issues an alarm as soon as a default parameter is exceeded.

Integral bale weighing system

You can specify the machine with optional weighing cells that are integrated in the bale ramp. The system supplies the data on individual bale weights as well as total weights.





BiGPACK 870

Large Square Baler



Straight from the BiG Pack 870 operator...

Nick Mussi, with Triple M Custom Farming, ran the BiG Pack 870 large square baler during the 2012 baling season. Mussi is located in Stockton, CA and bales 4,000 acres of rice straw, wheat straw, corn stalks, and hay along with an additional 4,000 acres of alfalfa each year. Besides his baling business, he also grows grapes, tomatoes, asparagus, cucumbers, walnuts, and almonds.

Mussi has a great deal of experience with Krone balers. He owns and operates two BiG Pack 1290 XCs, a BiG Pack 1290 HS, and a BiG Pack 1290 HDP. Mussi runs three tie balers along with his Krone large square balers, and because of that he decided to try the BiG Pack 870 to see how it would compare to his three tie balers.



*Nick Mussi
Stockton, CA*

The BiG Pack 870 bales that were made in wheat straw weighted an average of 550 lbs and contained a total of five small bales within one large bale. Each of the small bales weighted approximately 110 lbs each. The alfalfa bales weighed approximately 770 lbs and contained a total of nine small bales within one large bale. Each of the small bales weighed approximately 96 lbs each. While baling, Mussi typically ran at roughly 80% capacity.

Mussi saw several advantages of using the BiG Pack 870. One advantage was the flexibility the baler offered to their operation. He could choose to make one large bale or up to eight small bales within one large bale. Another benefit was that he was able to put more weight into one package. The larger bales made them easier

to stack and it also allowed them to put almost 25 tons on a truck, which is what the legal weight limit is in California, compared to only 17 tons with the three-tie bales.

Using the BiG Pack 870 resulted in a decreased labor requirement to bale the crop, as well as to move the bales. "With the BiG Pack 870, I was able to cover much more ground than with the threetie balers," explains Mussi. He goes on to say, "because of the increase in efficiency, one BiG Pack 870 would be able to replace three, three tie balers."

Mussi marketed the bales directly to local dairies. The dairy that purchased the bales had approximately 2,000 head. They purchased a few truckloads of wheat straw and broke the bales into the small bales, which they used for bedding in the calf hutches. They found

the small bales were easier to handle in this application. They also purchased a few alfalfa bales, which were used to feed the calves. When asked if they would purchase more BiG Pack 870 bales, they said they would. In the future, Mussi believes the market will grow for these types of bales to other livestock and horse operations that are feeding a large number of animals, such as racetracks.





BiGPACK

870

Large Square Baler



	BP 870 HDP MultiBale	BP 870 HDP XC MultiBale
Chamber Width	2'7"	
Chamber Height	2'3"	
Bale Length	3'3" - 8'10"	
XCut Crop Cutter	N/A	16 Knives
Plunger Strokes Per Minute	50	
Tractor HP Required min. (optional)	120 hp (180 hp)	127 hp (220 hp)
Pick-up Width	6'5"	
Width	9'9"	
Length	30'1"	
Transport Length	26'	
Height	9'5"	
Weight (lbs.)	22,046 lbs.	
Tires	550/45 22.5 16 PR	
No. of Double Knotters	5 - 2 knotters for small bales, 3 knotters for the complete bale	
Knotter Cleaner	Compressed Air – On-board compressor for knotter cleaners and nozzle adaptor	
Twine Storage	32 Rolls of Twine - Twine Boxes are dust-proof and fold for service	
Central Lube	Standard - including VFS	
Cam-controlled Clutch	Standard – blockages in the feed chamber can be removed by lowering PTO speed - auto-reset	
Roller Ramp	Standard	
In-Cab Monitor	CCI 100	



The BiG Pack 870 is a unique, large square baler from KRONE. The BiG Pack 870 is able to make a 2'7" x 2'3" MultiBale. This means the large bale can have up to 9 small bales created within the one large bale. This is accomplished by using a total of five knotters, with two knotters tying the smaller bales and three the large bale together.