

BIGMASTER SERIES 6000.



BM 698 - BM 6712X - BM 6912





BIGMASTER SERIES 6000.

Boost your profitability.

With today's narrow harvesting windows, you need a large square baler that brings increased productivity, without compromising on density and bale shape. Designed to set new standards in capacity, bale shape, uptime and running costs, the DEUTZ-FAHR BIGMASTER SERIES 6000 is here to deliver.

Unmatched capacity.

With a whopping 20% higher capacity, the BIGMASTER exceeds expectations in all crop types while producing consistently rock-hard and well-shaped bales.

Maximum uptime.

In our pursuit to maximise uptime, BIGMASTER balers feature extended life components, such as a maintenance-free feeder fork, heavy-duty plunger bearings and seals withstanding even higher temperatures. Efficient technology with fewer moving parts is less likely to let you down when you are running your machine in tougher conditions. It also means fewer wearing parts to replace.

The baler specialist.

With over 35 years of experience producing baling equipment and by working closely with customers all over the world, we carefully refined the concept without changing what made it great. The result is a series of high performance large square balers that take efficiency to the next level and boost your profitability.





IT ALL STARTS WITH THE INTAKE.

High intake capacity.



↑ The pick-up features a cam tracked design, which delivers the optimal movement for the tines to pick up the crop and reduce crude ash to a minimum.



↑ Whether you are baling dry straw, hay or wet silage, the POWER FEED ROLLER allows you to take capacity to the next level. This driven crop roller actively follows the height of the swath.



↑ To adapt the machine to your fields, you have the choice between fixed and pivoting pick-up guide wheels. The pivoting pick-up wheels are semi-pneumatic and therefore ideal for rough terrain and stony soils.

BIGMASTER SERIES 6000 balers feature a high performance crop intake system. The unique crop guard design, in combination with a high torque on the INTEGRAL ROTOR and on the feeder fork driveline, ensures a high intake capacity while offering extreme endurance.

BIGMASTER SERIES 6000 large square balers make use of a 2.30 m wide cam tracked pick-up with no less than 5 tine bars, in order to allow the pick-up to run at a lower speed. Consequently, an excellent raking job and the highest versatility in various crop conditions is guaranteed.



INTAKE PERFORMANCE.

INTEGRAL ROTOR technology.

To better meet your operation's specific needs, there are four intake options available for the BIGMASTER series models. Select from one of our proven INTEGRAL ROTORS; The OPTIFEED or Biomass OPTIFEED non-cutting rotors, the 15-knife or the 23-knife OMNICUT cutting rotors. See the table below for availability per model.

The OMNICUT (OC) cutting systems are designed for unlimited intake capacity. Both feature a knife activation and knife cleaning function controlled from the ISOBUS terminal.

Integral Rotor Type		BIGMASTER 698	BIGMASTER 6712X	BIGMASTER 6912
NON-CUTTING VERSIONS	OPTIFEED rotor Ø 48 cm Hardox® rotor tines	•	•	•
	Biomass OPTIFEED rotor Ø 60 cm Exchangeable Hardox® rotor tines		•	•
CUTTING VERSIONS	OMNICUT rotor Ø 48 cm 45 mm cutting length Hardox® rotor tines 15 Knife cassette system	•		
	OMNICUT rotor Ø 60 cm 45 mm cutting length Exchangeable Hardox® rotor tines 23 Knife cassette system		•	•



↑ The operation of the knife group configuration is easily done from the tractor cab via the terminal. The operator can choose from the following knife group configurations: 0 – 11 – 12 – 23.



↑ The boltable rotor tines made out of Hardox® wear plate guarantee easy exchange. Together with the standard one-sided sliding cassette system for easy knife changing, you invest in cutting quality and in driver comfort.

Non-cutting versions.



↑ The OPTIFEED rotor design, where rotor tines - made out of Hardox® wear plate - and auger function are combined on one shaft, helps even out the swath by spreading the crop evenly for consistent bales every time. When crop cutting is not required, the OPTIFEED system ensures a controlled and consistent crop flow to the pre-chamber. With the rotor, an additional level of protection is given to the machine.



↑ The Biomass OPTIFEED rotor design combines all the benefits of the standard OPTIFEED rotor with boltable rotor tines made out of Hardox® wear plate for excellent durability and easy exchange. These rotor tines are specially designed for aggressive energy crops such as sugar cane leaves.

Cutting versions.



↑ The OC 15 offers a cutting length of 45 mm on the 80 cm wide bale channel models. The patented* rotor tine shape ensures a low power requirement and a perfect cutting quality. The knives, individually protected against overload by a spring, can be changed easily with the standard integrated cassette system.



↑ The OC 23 offers a cutting length of 45 mm on the 120 cm wide bale channel models. With a rotor diameter of 60 cm, the OMNISCUT rotor will process every swath that is placed in front of the baler. The patented* rotor tine shape ensures a low power requirement and a perfect cutting quality. The knives on the OC 23 have individual hydraulic protection.

*Patent or patent pending in one or more countries.





THE IMPORTANCE OF BALE SHAPE.

Quality in every form.

Consistently shaped bales bring more than just aesthetic appeal. A dense, consistently filled bale represents quality in every form. Square bales are convenient to handle and stack. In addition, they are much more stable during transport than a poorly formed bale. A perfect square-edged bale reduces the risk of air entrapment during wrapping. This stimulates conservation of the bale and ensures a better feed quality.

In the process of producing the ultimate square bale, the pre-chamber fulfills an essential role. Once the crop flow is distributed by the intake rotor into the pre-chamber, a flake of homogeneous crop material is produced accordingly. It is critical to get it right, as it will have a significant effect on the ultimate bale shape. Despite the crop type, humidity, swath size or consistency of the swath you are baling, the POWER DENSITY system ensures the pre-chamber is evenly filled. As a result, optimal precompression is paving the way for rock-solid square bales.



↑ The bale length is measured with a star wheel in the middle of the bale chamber. The operator monitors the flake size and number of flakes through the terminal.



A PRE-CHAMBER THAT NEVER MISSES A BEAT.

Efficiency and simplicity.

When making decisions on product design, a crucial guiding principle for our engineering team is to strive for simplicity. With the exclusive POWER DENSITY system we delivered another innovative solution where higher efficiency and more simplicity go hand in hand. During tight harvest windows and in the toughest conditions, this clever design with fewer moving parts and better accessibility gives the operator piece of mind that his chances of a time consuming repair or breakdown are minimised.

What makes the POWER DENSITY feeder fork design unique?

The key is one mechanism that combines two jobs into one. The feeder fork operates in a triangled shape. It gently and evenly distributes the material into the pre-chamber by making small strokes, until the desired precompression is measured by the density plates. Once the density plates trips the mechanism, the feeder fork is able to fully extend and distribute the flake into the bale chamber. The system is maintenance-free and connected to the automatic greasing system. All bearings are lifetime greased.



How does it work?



1. The INTEGRAL ROTOR actively delivers the crop to the chamber.



2. The feeder fork (blue) provides an active filling of the pre-chamber.



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



4. Once the measuring plate is pushed back, it activates the second function of the feeder fork system. The fork makes a different movement that empties the pre-chamber and pushes the perfectly formed flake into the bale chamber.

Measurement plates for optimal precompression

The measurement plates are positioned on the top of the pre-chamber to prevent activation of a feeding stroke at a premature stage when baling high friction crops. For optimal convenience, the operator is likely to select the auto mode that activates the measurement plates, to reach optimal precompression. However, it is possible to fix the pre-chamber in a 1:1 mode, where the feeder fork directly distributes the material into the bale chamber.



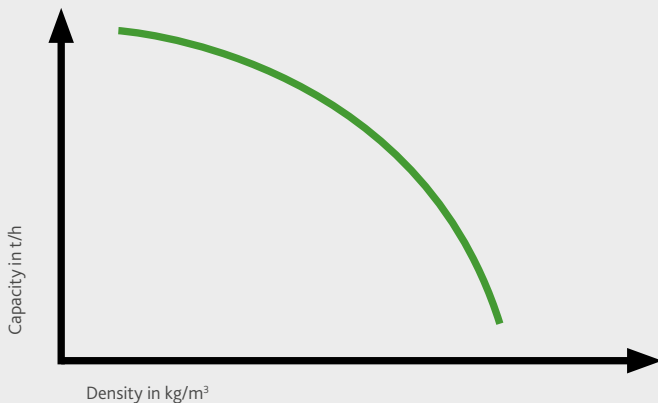
BALE CHAMBER.

Non-stop baling.

The specifically designed bale chamber of the DEUTZ-FAHR machines is the result of more than 35 years' experience in large square baling. With the 3.4 metre long bale chamber, there is plenty of space to form a perfect bale. The combination of aggressive retainers and a specific pressure door shape enables an aggressive compaction and gentle expansion of the bale.



46 plunger strokes per minute result in a high compaction capacity. The plunger is guided via 4 large rollers with a diameter of 125 mm for maximum service life.



The patented* torque regulation system on all BIGMASTER 120 cm bale channel models ensures a perfect balance between capacity and density. Throughout the complete plunger cycle the exact torque is calculated so you can operate the machine at peak performance and achieve the highest bale density.

*Patent or patent pending in one or more countries.



A unique feature is the inspection hatch in the bottom of the pre-chamber. For easy access to the pre-chamber the complete cover can be opened without using special tools.



ROBUST DRIVELINE AND MAXIMUM SECURITY.

Perform at maximum capacity.

Perform at maximum capacity with a highly secure intake system. Synchronised drive of components is made by gearboxes and shafts. This ensures a perfectly synchronised machine with easy maintenance. The heavy-duty driveline features self-resetting cam-clutches. The benefit of these clutches is that they offer the possibility to use the machine at maximum capacity without worrying about time consuming shear bolt replacements.



↑ The driveline layout is simple, clean, and easy to service and maintain while minimizing the overall number of moving parts.



↑ All main intake components of the BIGMASTER large square balers are fitted with a cam-type clutch. With this non-stop safety system you can unblock the machine from the operator seat, in the event of an overload.



↑ The 485 kg heavy-duty flywheel guarantees a unique smooth running machine, which offers the operator maximum driving comfort during the daily operation.

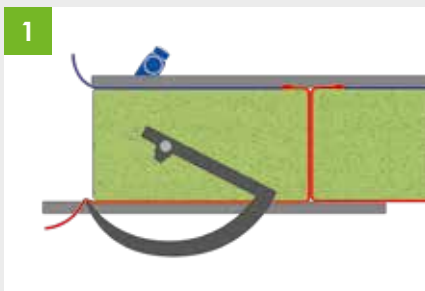


RELIABLE AND SECURE KNOTTING.

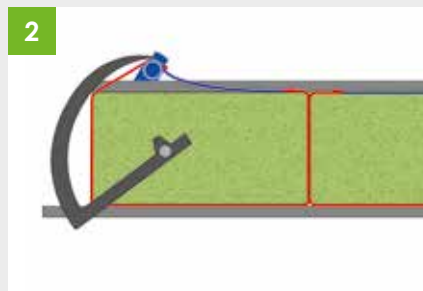
Double knotting system.

One of the last steps in creating a perfect bale is the knot. DEUTZ-FAHR BIGMASTER large square balers are equipped with a reliable and secure double knotting system that meets your requirements.

The knotting process is monitored directly from the terminal, providing the driver with accurate information on twine tension during the baling cycle. An alarm goes off if an issue arises, allowing the driver to take action and prevent downtime accordingly.



1 While baling, an upper (blue) and lower (red) twine is fed to the bale. As 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 (grey) are activated and move upwards to the knotter to start the knotting cycle. In this first step the bale is finished with the first knot.



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



3 Two massive hydraulically driven turbo fans are equipped as standard and deliver optimal knotter cleaning performance in the most challenging and dustiest conditions.

BENEFIT FROM MORE EQUIPMENT.

Optional accessories.

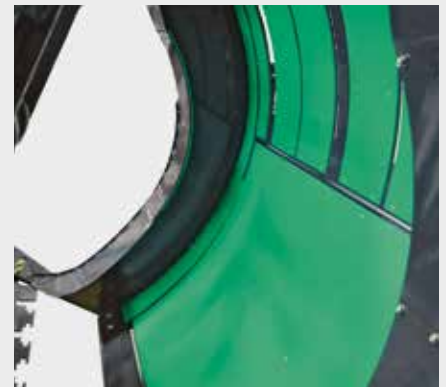
There are multiple optional accessories available that allow you to customise your baler. Benefit from a bale weighing system and moisture sensor and receive accurate real-time information on the job. Improve the performance of your baler in high-friction crops with the easy flow kit or turn night into day by equipping your machine with optional work lights.



Use of the integrated bale weighing system provides on-the-go feedback about the bale weight, plus direct insight in your crop yield.



All large square balers can be equipped with a calibratable moisture sensor with a measuring range between 9 - 40% moisture content.



To further improve the machine performance in silage conditions with wet or sticky material, an easy flow kit can be fitted in the pre-chamber.



The balers are equipped as standard with 5 LED service lights to inspect your machine. As an option, there is a choice of 3 additional LED work lights to have a clear view all night long.



All balers can be equipped with a camera system to provide optimal visibility and safety around the machine.



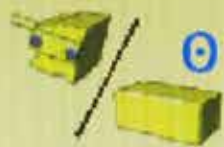


2.10

m



1.05 m



0



79



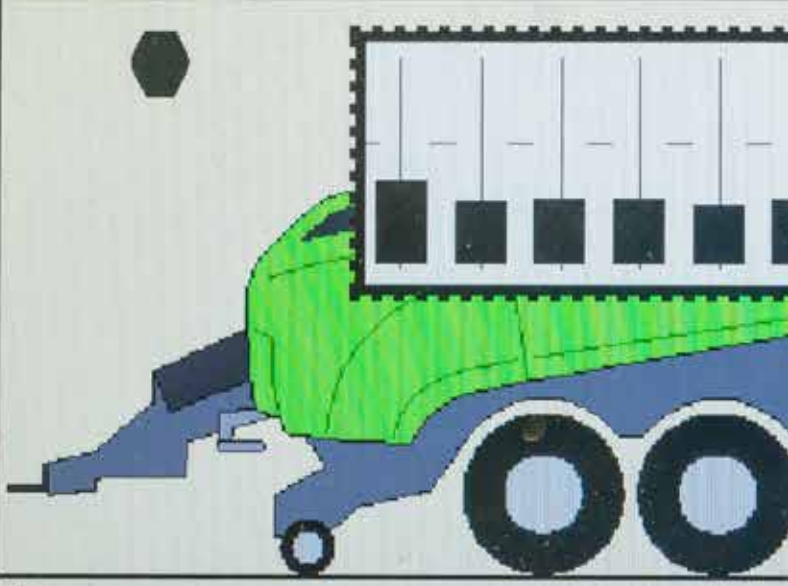
463 kg



1:--



= 12%



Σ 99

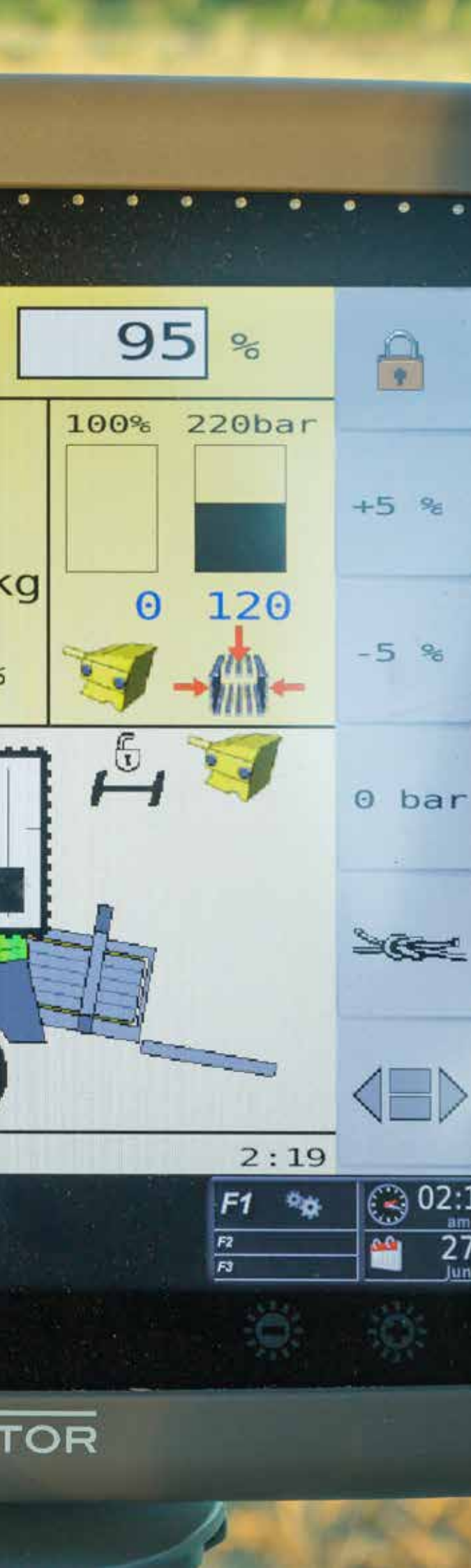


iMONIT

ISOBUS SOLUTIONS.

Always in control.

Take advantage of ISOBUS compatibility on the BIGMASTER large square balers range! CCI 800 and 1200 ISOBUS terminals are AEF-certified. They focus on three priorities: performance, visibility and flexibility. Control intuitively your machines with their large size anti-glare touchscreen. Capable of displaying simultaneously different essential information, accepting the connection of a joystick control and a camera, these terminals offer a high level of flexibility.



↑ CCI 800: The compact ISOBUS terminal
The 8"/20.3 cm screen displays the main machine and miniviews on the side.
Click on one of the mini-views to switch it to the main screen.



↑ CCI 1200: innovative, large-size, high-performance
With the 12.1"/30.5 cm screen, all essential information is displayed. Several display layouts are available: miniview / maxiview / double UT.



↑ The twine boxes swing out completely for easy access to the vital parts of the machine. Behind the full-access side doors, 32 x 13 kg spools of twine can be stored.



↑ For clean and tidy storage, the balers are equipped with a convenient storage place for the hoses and cables needed to operate the machine.



↑ For more safety, the knotted deck is equipped with solid stairs and a safety railing. The safety railing can be folded down easily to reduce the height of the machine during transport.



SMART DESIGN.

For more user convenience.

Daily inspection and routine maintenance is essential to maximise the performance of your machine and to decrease downtime, but should also be quick. Therefore, the design offers perfect accessibility to all working components inside of the machine. Moreover, the driver benefits from optimal comfort thanks to the heavy flywheel, last bale ejector, automatic greasing system and the load sensing hydraulics.



↑ The last bale ejector is used to clear the complete bale chamber when changing between crops or for end of season cleaning. The optional two-step bale ejector can eject either the last fully formed bale or it can clear the complete bale chamber.



↑ The XL steered tandem axle raises the bar with excellent maneuverability. It is able to accommodate large 680/50R22.5 tyres, in order to reduce soil compaction



↑ All BIGMASTER models are equipped with a load sensing hydraulic system for axle locking, knife steering, roller chute and bale ejector functionalities.

OVERVIEW BIGMASTER SERIES 6000.

Machine highlights.



Double knotting system with standard electronic monitoring



Pivoting twine boxes for easy maintenance



POWER DENSITY pre-chamber system



Automatic pressure regulation



Automatic greasing system



Knotter cleaning turbines

Options.



LED working lights



Moisture measurement



Weighing system



Electric binding system



Easy flow plates for pre-chamber



Semi-pneumatic pivoting pick-up guide wheels



POWER FEED ROLLER



485 kg flywheel



Easy accessible twine boxes with 2x16 capacity

CBB 200.

Pre-chopping at its finest.

Providing high quality forage, bedding and feeding is one of the main development goals for DEUTZ-FAHR machinery. The CBB 200 pre-chopper has a specific design that matches the capacity and machine characteristics of the BIGMASTER baler range. With this combination, you will be able to produce an even higher quality baled product.



↑ With the industry leading 670 mm rotor, the CBB 200 ensures a smooth running of the machine and a low power requirement. To ensure a perfect cut, and an aggressive damaging of the stem, the machine is equipped with 48 cutting blades and 2 counter knife banks giving a total of 98 counter knives. This results in a theoretical cutting length of 19.5 mm.



↑ The working height of the CBB 200 offers a wide range of adjustment over for maximum adaptation to the given conditions and circumstances.



↑ DEUTZ-FAHR large square balers can be combined with Harvest Tec equipment.





Specifications						
	Balers with 80 crop flow channel		Balers with 120 crop flow channel			
	BIGMASTER 698		BIGMASTER 6712X		BIGMASTER 6912	
	OPTIFEED	OMNICUT	OPTIFEED	OMNICUT	OPTIFEED	OMNICUT
BALE DIMENSIONS						
US square bale size	3x3		2x4		3x4	
Width (cm / inch)	80 / 32"		120 / 47"		120 / 47"	
Height (cm / inch)	90 / 35"		70 / 28"		90 / 35"	
Length (cm / inch)	60 / 24" up to 300 / 118"					
PICK-UP						
Intake width (cm / inch)	230 / 91"					
Pick-up diameter (cm / inch)	34 / 13"					
Number of tine bars	5					
Tine spacing (mm / inch)	61 / 2.4"					
INTAKE SYSTEM						
Knives	-	0 / 15	-	0 / 11/12 / 23	-	0 / 11/12 / 23
Theoretical cutting length (mm / inch)	-	45 / 1¾"	-	45 / 1¾"	-	45 / 1¾"
Knives protection	-	Individual spring	-	Individual hydraulic	-	Individual hydraulic
BALE CHAMBER						
Plunger strokes (per min)	46					
Plunger stroke length (mm / inch)	695 / 27"					
Density control	3 hydraulic cylinders		4 hydraulic cylinders			
Bale chamber length (m / inch)	3.40 / 11'2"					
BINDING SYSTEM						
Number of knotters	4		6			
Knotting system	Double knotter		Double knotter		Double knotter	
Knotter cleaning	Blowers		Blowers		Blowers	
Twine spool capacity	32		32		32	
OPERATION						
Control system	ISOBUS (CCI 800 / CCI 1200)					

● = standard ○ = optional equipment – = not available

* Depending on local homologation.

** Depending on version and additional options.

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

Specifications						
	Balers with 80 crop flow channel		Balers with 120 crop flow channel			
	BIGMASTER 698		BIGMASTER 6712X		BIGMASTER 6912	
	OPTIFEED	OMNICUT	OPTIFEED	OMNICUT	OPTIFEED	OMNICUT
TYRES*						
Single axle	Hydraulic or pneumatic brakes					
600/55-22.5	•	•	•	•	•	•
700/50-22.5	o	o	o	o	o	o
Tandem axle	Standard steering and suspension, hydraulic or pneumatic brakes					
500/60-22.5	•	•	•	•	•	•
520/55R22.5	o	o	o	o	o	o
620/50R22.5	o	o	o	o	o	o
680/50R22.5	o	o	o	o	o	o
MACHINE DIMENSIONS AND WEIGHTS						
Length (m / inch)	8.00 / 26'3"		8.00 / 26'3"		8.00 / 26'3"	
Width (m / inch) **	2.76 / 9'1"		3.00 / 9'10"		3.00 / 9'10"	
Height (m / inch)	3.26 / 10'7"		3.26 / 10'7"		3.26 / 10'7"	
Weight min - max (kg / lbs) **	8.300 - 10.400 / 18298 - 22.928	8.300 - 10.400 / 18298 - 22.928	96.50 - 11.750 / 21.275 - 25.904	9.650 - 11.750 / 21.275 - 25.904	9.950 - 12.050 / 21.936 - 26.566	9.950 - 12.050 / 21.936 - 26.566
POWER REQUIREMENTS						
Minimum PTO power requirement (kW / hp)***	77 / 105	88 / 120	96 / 131	114 / 155	103 / 140	121 / 165

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To discover more please contact your dealer
or visit deutz-fahr.com.

DEUTZ-FAHR is a brand of  **SDF**

