

BIGMASTER

578 • 598 • 5712 • 5912



EVOLVING AGRICULTURE

BALING TECHNOLOGY AT ITS BEST



DEUTZ-FAHR BALERS

DEUTZ-FAHR provides a complete program of innovative agricultural machines.

A high quality, reliability and well handling are very important features in the development of the DEUTZ-FAHR machines.

Field performance, bale quality and bale density are fundamental to the profitability of every baling operation.

Every minute counts when weather conditions are uncertain. The unique innovations on the DEUTZ-FAHR balers make a real difference in field performance.



DEUTZ-FAHR's Research & Development department is constantly improving the Large Square Balers to stay in front with innovations like: Integral Rotor Technology, Power Density and TWIN-STEP® Knotting.

DEUTZ-FAHR offers the most efficient and versatile range of balers available on the market. DEUTZ-FAHR balers are not only designed to produce top quality bales but are also built for unmatched reliability.

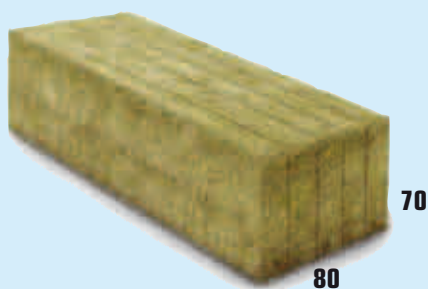
CRITICAL BALING TECHNOLOGIES



- The large diameter rotor has heavy duty auger flighting which is integrated directly onto the outer sections of the rotor. This Integral Rotor system provides the baler with even feeding regardless of crop conditions.
- The unique Power Density pre-chamber intake design allows each flake to fill completely, from beginning to end and top to bottom, resulting in perfect shaped bales.
- This perfectly-filled bales are tied together with the reliable TWIN-STEP® Knotting system.
- The well thought-out and durable design of the DEUTZ-FAHR BIGMASTER Balers allows for fewer moving parts, unmatched crop flow, outstanding performance and reliability.

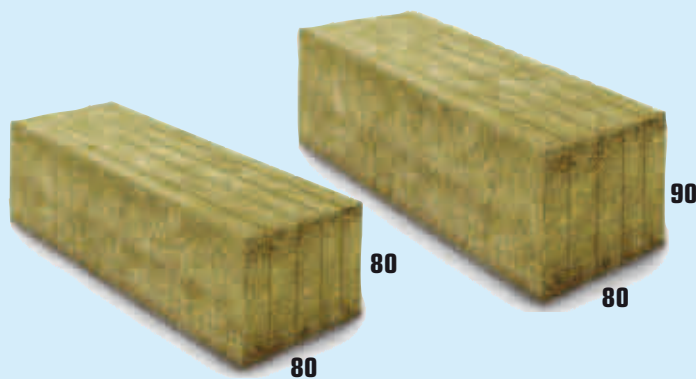
Bigmaster

578



Bigmaster

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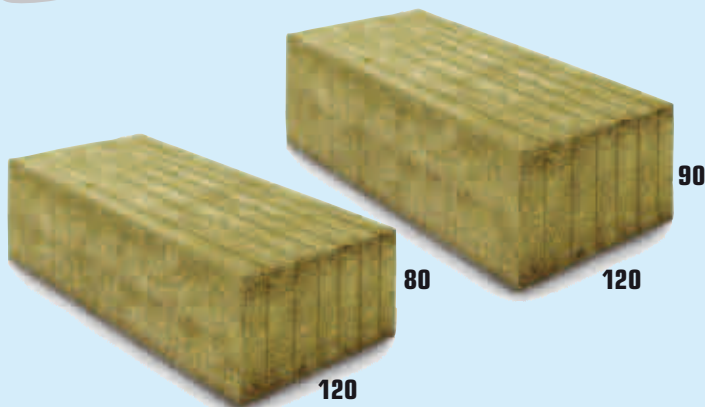
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Bigmaster

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Innovative technology that produces rock-hard, super-dense, well-shaped bales

- Integral Rotor - The aggressive design provides maximum efficiency, with high performance throughput in all crop conditions.
- Cam clutch protection - Main intake functions are protected by a series of convenient clutches instead of shear bolts.
- Power Density - This pre-chamber design allows the baler to adapt to changing windrows for uniform flakes and consistent bales.
- Plunger - Extreme-duty, 125 mm (5") plunger bearings and

hardened rails are standard on all DEUTZ-FAHR BIGMASTER models.

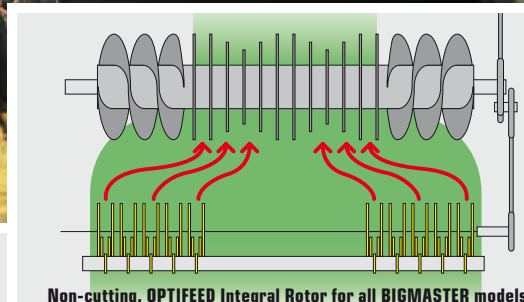
- TWIN-STEP® Knotting - The patented system instantly releases the tension on the twine, providing increased reliability and trouble-free knotting.
- ISOBUS - The DEUTZ-FAHR BIGMASTER is ISOBUS compatible. ISOBUS compatible tractors will therefore not require a separate terminal for the baler. Alternatively, DEUTZ-FAHR offers a VT 50 or a CCI 100 color terminal with touch screen.

EXCELLENT INTAKE PERFORMANCE



Integral Rotor Technology

A maintenance-free and short distance intake system which ensures even feeding regardless of variations of the crop. With this system, even the heaviest crops are forced through the intake, resulting in higher forward speeds for outstanding productivity.



OPTICUT

The Integral Rotor with the OPTICUT system is designed to even out the swath and force-feed the crop into the baler for maximum throughput.

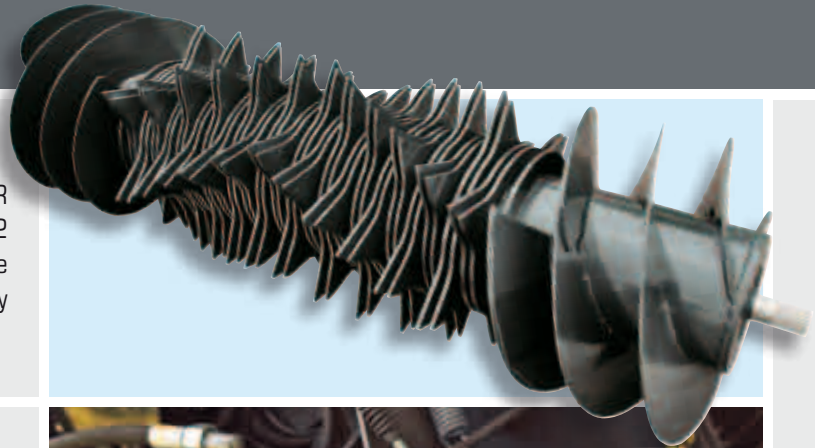
On the BIGMASTER 578 & 598, a theoretical cutting length of 70 mm (2¾") can be achieved by utilizing 10 individual, spring secured knives. These knives can be activated directly from your tractor seat.



10-knife, OPTICUT Integral Rotor

OmniCut

In place of the standard non-cutting integral rotor, DEUTZ-FAHR offers the OMNISCUT Integral Rotor on BIGMASTER 5712 & 5912 models. This large diameter, V-shaped intake rotor takes the crop directly from the Pick-Up, cutting and spreading it evenly toward the prechamber.



Knife selection

When crop cutting is required, different sets of knives can be activated using a simple hydraulic valve. Standing next to the baler, the operator can select 0, 11, 12, or 23 knives for use (45 mm or 1¾" theoretical cutting length). Every single knife is hydraulically protected against damage from foreign objects.



Quick, easy access

After lowering the cassette frame that holds the 23 knives, it can simply be pulled out on the right hand side of the baler.



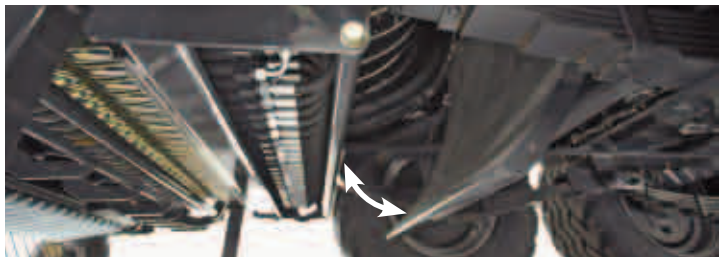
Simple knife maintenance

Inspecting and removing the knives to sharpen or change them is quick, clean and easy. Spare knives can be safely stored within reach.



No tools

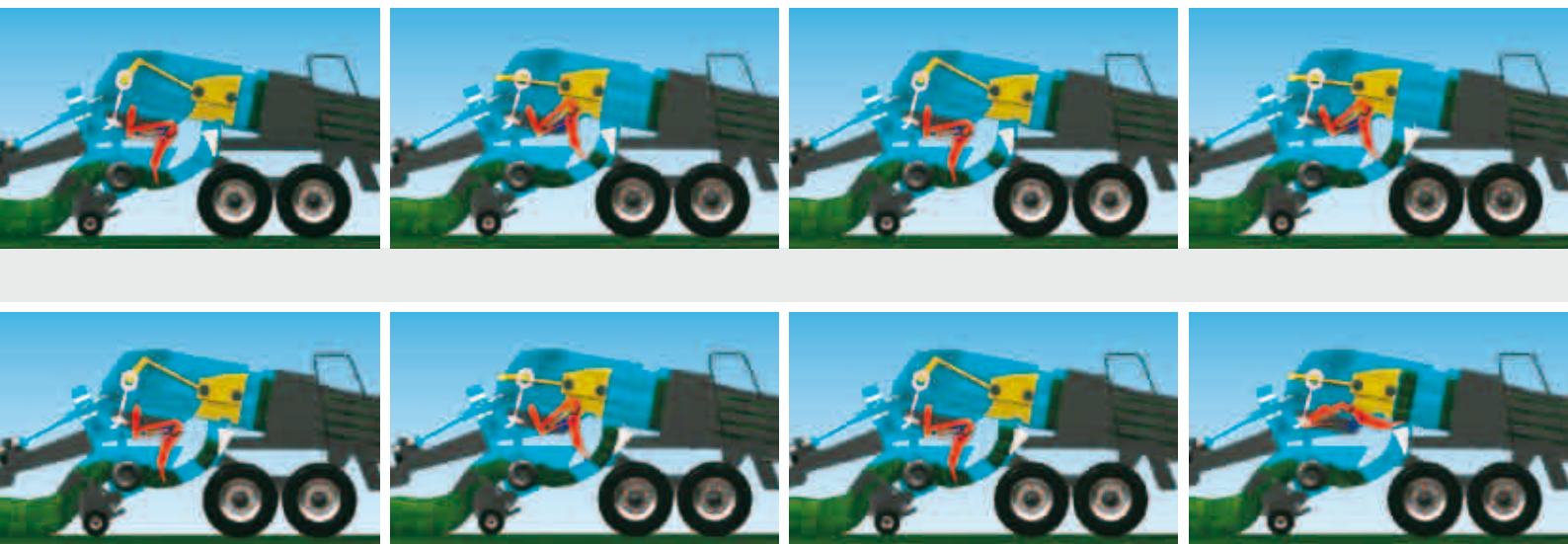
Knives can be removed and changed in minutes, without any tools. When cutting is not required, blind knives can be easily inserted to keep from plugging the knife slots.



Inspection door

Every BIGMASTER baler has an inspection door on the bottom of the prechamber, providing clear access to the pre-chamber area.

POWER DENSITY



The Power Density system ensures consistently-filled flakes and rock-hard bales by constantly adapting to ever-changing windrow conditions. Whether baling a small, first-cutting alfalfa crop or a large, bulky straw crop, and whether baling an uneven windrow produced by a combine harvester or a uniform windrow produced by a rotary mower, the results are the same, consistency in every flake, for rock-hard, box-shaped bales. These consistent

results mean lower costs for bale handling, twine and fuel, plus a more attractive bale to feed or sell.

With the Power Density system, crop is directly removed from the Integral Rotor by the single-feeder fork (red).

This single-feeder fork works at twice the speed of the plunger, continuously clearing the entrance of the pre-chamber and pre-compressing the crop into a flake.

As the pre-chamber is filled to 100%,

pressure is exerted on the wedges (white) at the top of the pre-chamber. At a set point, the pressure on the wedges is overcome, triggering the single-feeder fork to take an extended stroke, sweeping the pre-compressed flake up into the bale chamber where the plunger compresses the crop to form a dense bale.



CONTROL IN COMFORT



ISOBUS

All DEUTZ-FAHR BIGMASTER balers are ISOBUS compatible. ISOBUS compatible tractors will therefore not require a separate control box for the baler. Alternatively, the VT 50 or CCI 100 monitor can be used with tractors that are not ISOBUS compatible. Operator settings such as bale density and knife activation are accessed via the terminal. Operator warnings as overload, twine routing and operator information, including flakes per bale and number of bales are also provided.

VT 50

The DEUTZ-FAHR ISOBUS VT 50 terminal has a 14,5 cm (5.7") color screen with outstanding clarity. Adjustments can easily be done by the touch screen and the large soft-touch keys on the sides. The VT 50 terminal can be used specifically with the DEUTZ-FAHR ISOBUS Balers and Wrappers.



CCI 100

The ISOBUS compatible CCI 100 terminal has a large 21,6 cm (8.5") color screen with outstanding clarity. Baling adjustments can be easily made via the touch screen or by use of the intuitive, large, soft-touch keys. The CCI 100 terminal can also be used with many other ISOBUS compatible machines on the market.



NON STOP BALING



Plunger

Every DEUTZ-FAHR plunger and bale chamber is engineered to produce rock-hard, ultra-dense bales. DEUTZ-FAHR BIGMASTER balers have a 3 m (10') bale chamber, with hydraulic cylinders mounted at the rear of the bale chamber to completely enclose the bale. This design applies maximum leverage on the bale during formation, and prevents unwanted expansion and loss of density before the bale is finished.

The plunger is rocketed at 46 strokes/minute via the main gearbox. This high-speed plunger requires precise, heavy-duty guidance, which is provided by hardened rails and enormous 125 mm (5") diameter support rollers.

The roller bearings are mounted outside the bale chamber and are easily accessible for inspection and maintenance.

BIGMASTER 598 and 5912 models offer an adjustable bale chamber that gives the customer the option to produce two different bale sizes with the same baler.

Greasing

The standard and easy-to-reach central greasing points on top of the baler provide lubrication for the knotters and plunger.

Equipping the baler with an automatic greasing system reduces daily maintenance. Basic setting and monitoring of this system are done using the ISOBUS control.



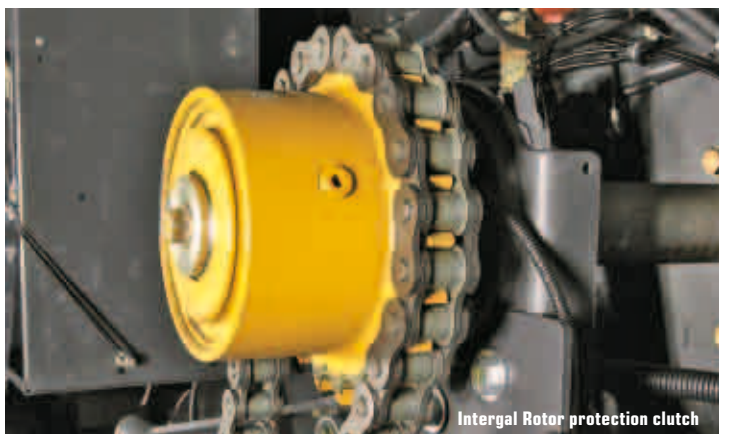


Clutches

DEUTZ-FAHR BIGMASTER balers feature full clutch protection for all intake components, eliminating the need for shear bolts and the time wasted replacing them. The Pick-Up, Integral Rotor and feeder fork are protected by cam-type torque limiters, which are automatically activated in case of an overload. Each clutch is located as close as possible to the parts it protects. In case of an overload, the affected cam clutch is activated and the intake is stopped. The clutch re-engages when the operator reduces the PTO speed. The intake system then works at a low speed and high torque to clear the plug automatically before normal baling resumes, usually eliminating the need for the operator to leave the cab.



Feeder fork protection clutch



Integral Rotor protection clutch

Hydraulic system

All DEUTZ-FAHR BIGMASTER balers have their own, on-board hydraulic system, independent from the tractor's hydraulics. The hydraulic pressure on the 3 m (10') bale chamber is controlled and monitored through the ISOBUS terminal. Bale density regulation is possible via selection of the plunger load percentage or via the bale chamber pressure settings. In case of an overload, the ISOBUS software will regulate the pressure automatically to prevent damage to the baler.

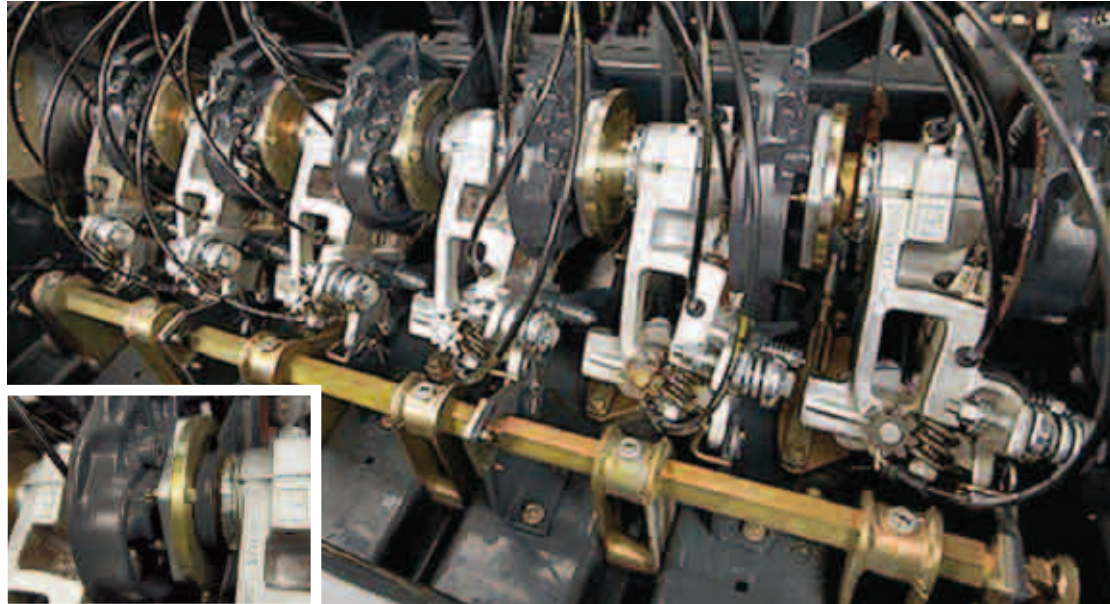


STRESS-FREE KNOTTING

During the knotting process, the tension on the twine is released for rapid and smooth knotting

The well-proven TWIN-STEP® Knotting system provides dependable tying without stress on the twine. With this system, a reliable knot is made in two steps.

Every individual knoter is protected with a shear bolt, which provides added security for the baler and prevents costly damage to the knoter and unwanted downtime.

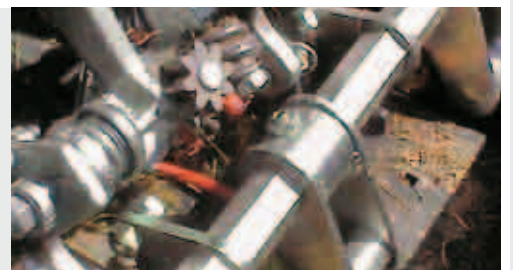
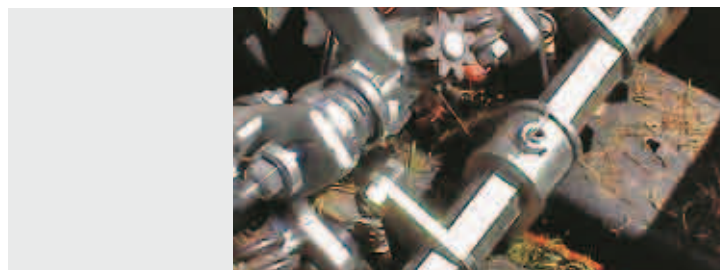
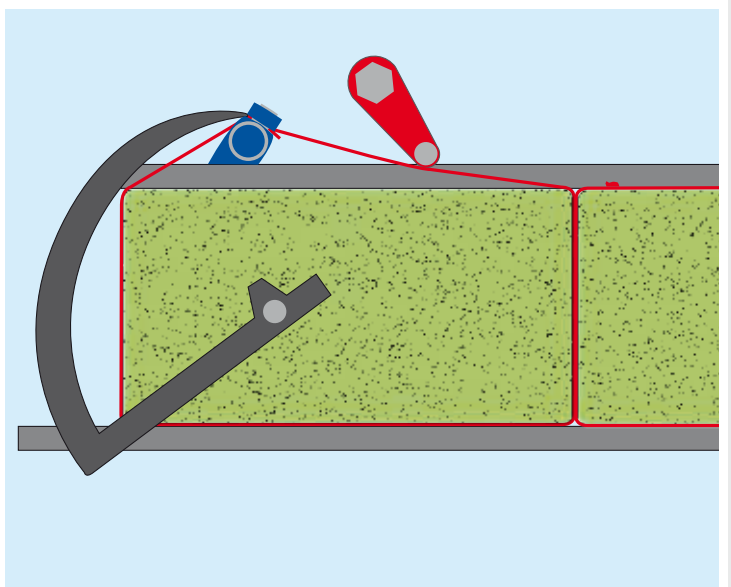
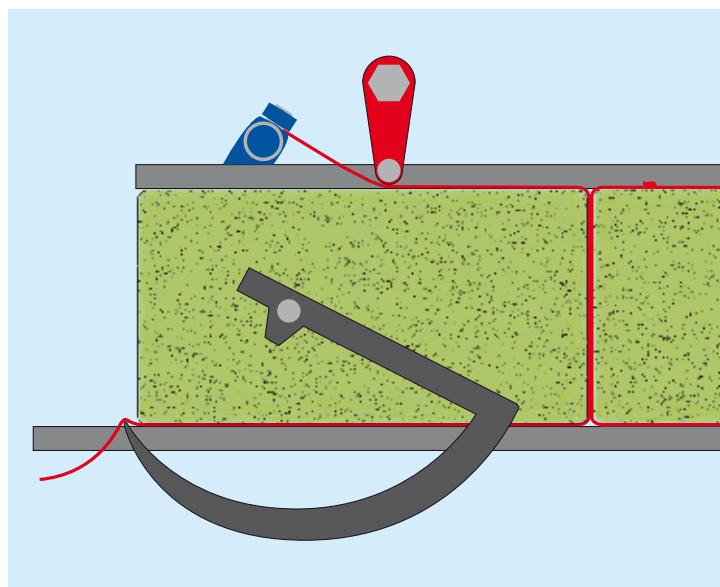


TWIN-STEP® Knotting

While baling, the knoters (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 density in the bale.

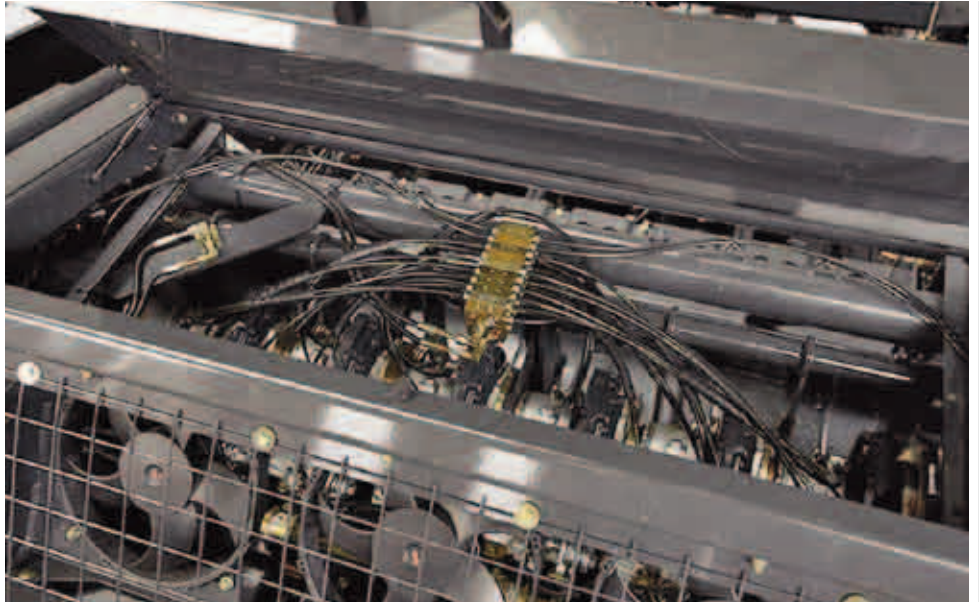
Step 1: As the bale reaches its desired length, the needles (grey) are activated and go upwards towards the knoters to start the knotting cycle.

Step 2: The twine tension release lever (red) rotates backwards to reduce the distance the twine travels and reduce tension on the knoter. This results in a stress free knot!



Greasing

With easy-to-access grease banks for the knotter and plunger, and an optional automatic greasing system, daily inspection and maintenance are reduced to a minimum.



Cleaning fans

High throughput fans are used to keep the knotting area as clean as possible. The fans are mounted to the knotter hood to allow easy access to the knotter area for service and maintenance.



Easy access

Behind the full-access side doors, 24 spools of twine can be stored, enough for a long working day. The twine storage itself is enclosed to prevent twine rolls from being contaminated with material, which could cause mis-ties. For service and maintenance, the twine storage box can be hinged to the side for easy access to the baler components.



FEATURES AND OPTIONS



1. Full-access side doors
2. Cam clutch protection of intake components
3. High capacity plunger - 46 strokes per minute
- 12,5 cm diameter plunger rollers
4. Adjustable hitch
5. Integral Rotor Technology
6. Standard hydraulic jack

7. Hinged twine storage boxes for easy machine access
8. Power Density pre-chamber
9. Steered, XL tandem axle with high-flotation tires
10. Single-fold roller chute
11. 3 m (10") bale chamber, with last bale ejection
12. OMNISCUT cutting system
(BIGMASTER 5712 and 5912)



STANDARD CROP ROLLER



ELECTRIC BALE LENGTH ADJUSTMENT



MOISTURE SENSOR



BALE DROP SENSOR



AUTOMATIC GREASING SYSTEM



HITCH OPTIONS AVAILABLE



SPECIFICATIONS

SPECIFICATIONS	BIGMASTER 578 / OC	BIGMASTER 598 / OC	BIGMASTER 5712 / OC	BIGMASTER 5912 / OC
Bale dimensions				
Width (cm/inches)	80 / 32	80 / 32	120 / 47	120 / 47
Height (cm/inches)	70 / 28	80 or 90 / 32 or 35	70 / 28	80 or 90 / 32 or 35
Length (cm/inches)	60 / 24 up to 300 / 118	60 / 24 up to 300 / 118	60 / 24 up to 300 / 118	60 / 24 up to 300 / 118
Pick-Up				
Intake width (cm/inches)	210 / 83	210 / 83	230 / 91	230 / 91
Pick-Up diameter (cm/inches)	34 / 13	34 / 13	34 / 13	34 / 13
Number of tine bars	4	4	5	5
Tine spacing (mm/inches)	61 / 2.4	61 / 2.4	61 / 2.4	61 / 2.4
Bale chamber				
Number of plunger strokes	46 / min	46 / min	46 / min	46 / min
Plunger stroke (cm/inches)	69.5 / 27	69.5 / 27	69.5 / 27	69.5 / 27
Density control	3 Hydraulic Cylinders	3 Hydraulic Cylinders	4 Hydraulic Cylinders	4 Hydraulic Cylinders
Bale chamber length (m/ft.)	3 / 10	3 / 10	3 / 10	3 / 10
Control	ISOBUS (VT 50 / CCI 100)	ISOBUS (VT 50 / CCI 100)	ISOBUS (VT 50 / CCI 100)	ISOBUS (VT 50 / CCI 100)
Knotting system				
Number of knotters	4	4	6	6
Twine capacity (rolls)	24	24	24	24
TWIN-STEP® Knotting	Optional	Standard	Optional	Standard
Intake system				
Integral Rotor type	OptiFeed / OptiCut	OptiFeed / OptiCut	OptiFeed / OmniCut	OptiFeed / OmniCut
Knives	- / 10	- / 10	- / 23	- / 23
Cutting length (mm/inches)	- / 70 / 2¾	- / 70 / 2¾	- / 45 / 1¾	- / 45 / 1¾
Knife protection	- / Single Spring	- / Single Spring	- / Single Hydraulic	- / Single Hydraulic
Wheels and Axles				
Single axle	600 / 50 - 22.5	600 / 50 - 22.5	600 / 50 - 22.5	600 / 50-22.5*
Single axle (opt)	710 / 40 - 22.5	710 / 40 - 22.5	710 / 40 - 22.5	710 / 40 - 22.5
Tandem axle steered	16.0 / 70 - 20	16.0 / 70 - 20	16.0 / 70 - 20	16.0 / 70 - 20
Tandem axle steered (opt)	500 / 55 - 20	500 / 55 - 20	500 / 55 - 20	500 / 55 - 20
Tandem axle steered (opt)	560 / 45 - 22.5	560 / 45 - 22.5	560 / 45 - 22.5	560 / 45 - 22.5
Tandem axle steered (opt)	620 / 50-22.5	620 / 50-22.5	620 / 50-22.5	620 / 50-22.5
Brakes system	Air / Hydraulic	Air / Hydraulic	Air / Hydraulic	Air / Hydraulic
Dimensions				
Length (m/ft.)	7.8 / 25' 7"	7.8 / 25' 7"	8.0 / 26' 3"	8.0 / 26' 3"
Width (m/ft.)	2.76 / 9' 1"	2.76 / 9' 1"	3.0 / 9' 10"	3.0 / 9' 10"
Height (m/ft.)	2.7 / 8' 10"	2.7 / 8' 10"	2.75 / 8' 10"	2.75 / 8' 10"
Weight (kg/lbs)**	7500 / 16,535	7700 / 16,535	8800/ 19,400	9210/ 19,400
Minimum tractor requirement	75kW (100hp)	87kW (118hp)	98kW (133hp)	109kW (148hp)
*Not available on BigMaster 5912 OC **Single axle model excluding cutting device				

SURE AND SAFE WITH ORIGINAL DEUTZ-FAHR SERVICE AND PARTS



Original service is wise

Only your DEUTZ-FAHR specialist dealer knows your machine inside and out. Only your dealer has regularly trained mechanics and experts on call. Only dealers have the special tools and diagnostic equipment required for competent diagnosis and inspection. All this gives you peace of mind – without doubt.

Original parts make good sense

As you placed your trust in the original machine, we recommend you use original parts when required. Only these comply with the high quality and safety standards of DEUTZ-FAHR and ensure correct function and operation without problems – guaranteed.

DEUTZ-FAHR lubricants

We recommend genuine DEUTZ-FAHR lubricants. The outstanding quality of this product range, which is made exclusively for DEUTZ-FAHR, ensures that your machine always receives exactly what it needs.



Your DEUTZ-FAHR dealer will be pleased to answer your questions:

This printed material is designed for international use. The illustrations it contains show both special equipment and incomplete standard equipment. The availability of some illustrated models, standard and special equipment can vary from country to country. Only the dealer's price list stipulates whether such illustrated equipment is included as a standard feature or whether it is a special accessory. In addition the illustrated mounted implements and special accessories may not always comply with the respective statutory regulations. It is the responsibility of the customer – after consultation with the dealer – to verify this, taking the operating instructions into account. All information and illustrations in this brochure are subject to correction; errors excepted. Furthermore all information contained in this brochure is not binding and is subject to modifications of a technical and commercial nature or those resulting from statutory regulations. No claims whatsoever can be derived from these. SAME DEUTZ-FAHR DEUTSCHLAND GmbH reserves the right to make any changes to the design and technical construction and also the scope of standard equipment at any time and without prior notice.

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