

FIXMASTER 235 • 235 BALEPACK



EVOLVING AGRICULTURE

FIXMASTER 235 - 235 BALEPACK



DEUTZ-FAHR ROUND 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 Round Balers to stay in front with innovations like: Integral Rotor Technology, IntelliWrap and PowerTrack.

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.

FIXED CHAMBER ROUND BALERS



- 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.
- Perfectly-filled bales are held together firmly by the twines and/or net. Net binding system is located on the front of the baler for easy monitoring of the binding process.
- The well thought-out and durable design of the Deutz-Fahr FixMaster balers allows for fewer moving parts, unmatched crop flow, outstanding performance and reliability.



- **New Integral rotor design** - The aggressive design provides maximum efficiency, with high performance throughput in all crop conditions
- **OPTICUT** - The Integral feed rotor is standard combined with 14 and optional with 23 knives for maximum cutting efficiency
- **PowerTrack** - Guaranteed, ensured bale rotation with optimum compression
- **DROP-FLOOR** - If a blockage might occur the cutting floor and knives can be lowered hydraulically from the control terminal
- **Driveline** - A durable driveline with 1 1/4" chains and standard automatic lubrication. The chains offer low maintenance, reliability and long lifetime
- **Tying** - Three configurations of binding systems possible: twine, net or twine and net
- **AutoPlus** - Total operational control by a handy in-cab terminal (FM Model Only)
- **BalePack** - Two operations combined in one machine provides an efficient, one-man baling and wrapping system
- **IntelliWrap™** - Uses sophisticated electronics and hydraulics to monitor the wrapping process and continuously controls the film overlap, allowing total flexibility (FM BalePack Model Only)
- **ISOBUS** - The Deutz-Fahr FM 235 BalePack 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

FIXMASTER 235



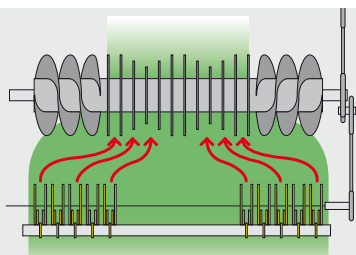
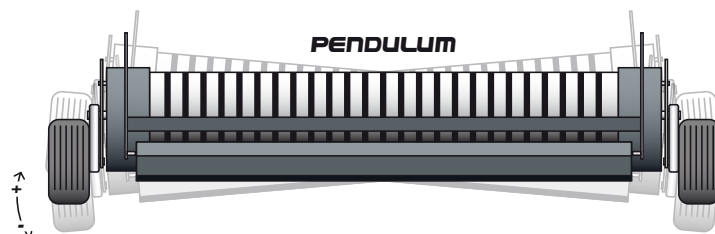
FIXMASTER 235 BALEPACK



INTAKE

Pick-Up

The new designed Pick-Up gathers the densest of swaths even at high forward speeds. The PENDULUM system and 2.30 m wide intake with height adjustable guide wheels accurately carry the Pick-Up over every ground contour. The Pick-Up roller helps to even out the flow of material into the integral rotor, regardless of the crop conditions.



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.

OPTIFEED Rotor

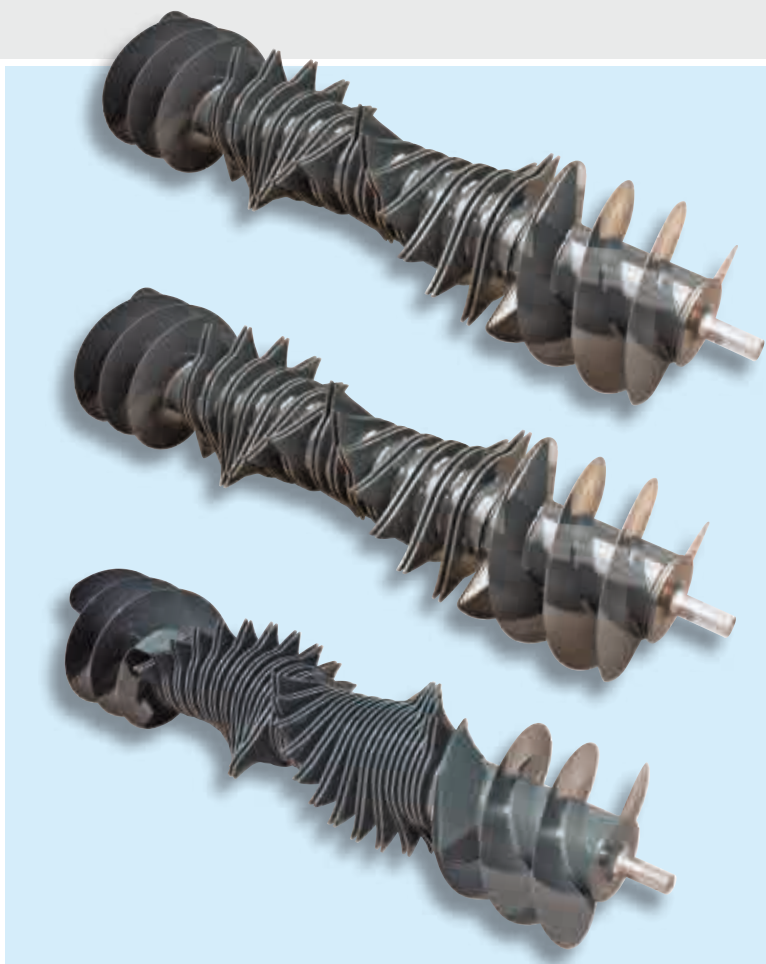
The OPTIFEED rotor with double feeding tines and integrated augers, provide a consistent flow of crop into the bale chamber. This rotor design helps even out windrows by moving them where needed for consistent bales every time.

OPTICUT 14

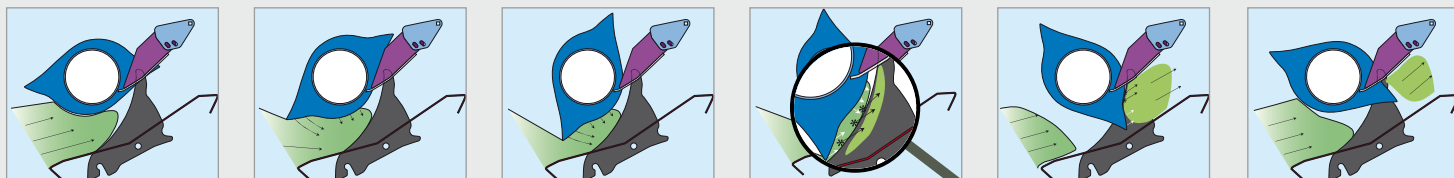
The Integral Rotor with the 14-knife OPTICUT system is designed to even out the swath and force-feed the crop into the baler for maximum throughput. The 14-knife OPTICUT cutting system provides a theoretical cutting length of 70 mm. Each single knife is spring protected against damage from foreign objects.

OPTICUT 23

The Integral Rotor with the 23-knife OPTICUT system from Deutz-Fahr is the benefits of intensive cutting and the mechanical protection. The 23-knife OPTICUT system provides a theoretical cutting length of 45 mm. Each single knife is spring protected against damage from foreign objects. With group selection the operator can choose to have 0, 7, 11, 12, or 23 knives in operation.



The OPTICUT systems from Deutz-Fahr are acknowledged by users as one of the best cutting systems on the market.



The silage is guided and drawn to the knives in an early stage which improves the flow and cutting performance and is also preventing unwanted blockage. As a result of the redesigned intake unit the power requirement of the round balers is decreased.



DROP-FLOOR

The intake unit is protected by the main PTO clutch. If a blockage occurs the PTO clutch is automatically activated. In addition the complete cutting floor including the knives can be lowered. First the cutting floor will be lowered automatically followed by the knives. After the blockage is cleared the cutting floor including the knives can be brought back into the working position. In extreme circumstances Deutz-Fahr provides double security by rotor disengagement clutch which separates the rotor drive so the bale can be finished.

Bale chamber

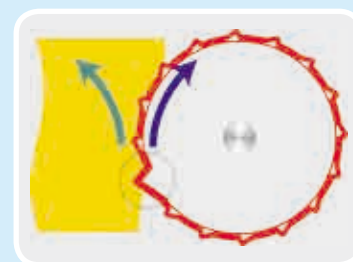
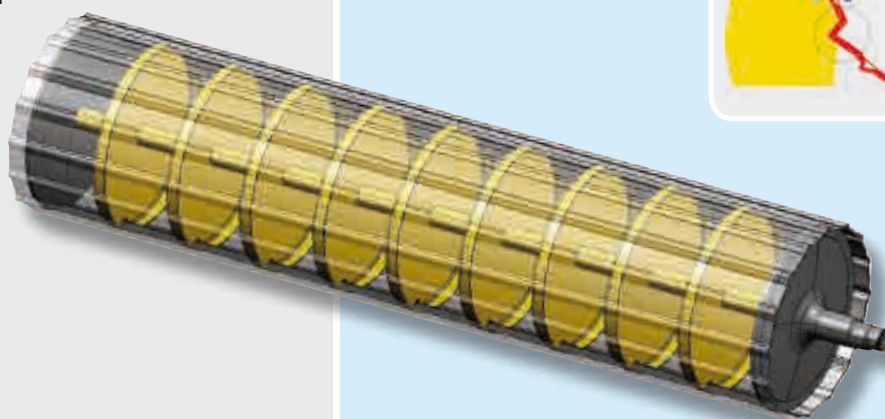
Producing many silage, hay and straw bales each season an extremely tough and well thought-out design is demanded. To compress the crop into bales with a consistent size and density, the baling process has to be as effective as possible while being gentle on the crop. The 14 BaleTrack rollers equipped with a unique ribbed profile provide optimal traction and compression. Together with PowerLock the Deutz-Fahr Fixed Balers exceed the requirement in every aspect.



PowerTrack

The 14 steel rollers with an asymmetrical profile ensure a reliable bale rotation without stoppages. The rollers are produced from high-grade steel which are constructed from two overlapped pressed sections which then are fully seam-welded for maximum rigidity. Radial support rings located inside each roller* creates additional strength, while the end plate and roller stub shafts are forged in one piece.

* Number of radial support rings depends on location of the roller.



DRIVE LINE



Drive line

Each of the 14 rollers is carried on heavy-duty bearings, mounted in cast housings and securely bolted to the outside of the bale chamber. The roller bearings can be greased from four conveniently reachable central grease banks. Each single roller can be removed for servicing if needed, without removing any other major components. The splitted driveline to the bale chamber and intake provides a uniform transmission of high power and torque. The power is transmitted by heavy duty 1 1/4" pitch drive chains in combination with large diameter sprocketwheels to minimise wear. The chains are continuous oil lubricated.



PowerLock

Strong rear door hydraulic cylinders work in combination with a hydraulic lock valve to produce maximum bale density. Fast door opening and closing means more bales per hour and improved efficiency.



AutoPlus provides in cutting system activation



AutoPlus provides in pickup activation



AutoPlus provides in a daily and a total bale counter



AutoPlus provides in net of twine selection

Autoplus

The in-cab control box provides clear and easy to read information and gives full command of the baling process. An audible and visual alarm signals when the bale is ready. A choice of automatic or manual start of the tying process can be preselected. Adjustments like the number of netwraps are easily controlled from the tractor seat. AutoPlus also provides a daily and total bale counter.

NON-STOP BALING



The binding cycle is crucial during baling. Less time needed for binding means a higher output. To optimise this process, main adjustments can be done via the terminal. The number of wraps can be pre-set. On the Deutz-Fahr FixMaster Balers the binding is placed at the front of the machine, resulting in a perfect view on the binding process from the tractor seat. Changing the net roll can easily be done standing safely on the ground next to the machine.



Twine binding

The twine binding cycle can be monitored via the AutoPlus control box and from the tractor seat there is also an excellent view on the binding process. By use of 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 centre and overlap itself and then move to the edges of the bale. Then the twines are moving gradually to the centre of the bale again.

The twines are intertwining at the final stage to secure that the twines are fixed and there are no loose ends.



Net binding

The optional net binding provides the bale with a clean and tidy net wrap from edge to edge. The net is fed into the front of the bale chamber to secure an even and direct start. A second net roll storage guarantees enough net supply for a long working day. When needed, the FixMaster 235 and FixMaster 235 BalePack also can be equipped with a combination of twine- and net binding.

BALING AND WRAPPING



Two technologies from Deutz-Fahr are combined in one machine, the FM 235 BalePack. This baler/wrapper combination begins with a standard FM 235 fixed chamber baler with an OPTICUT Integral Rotor and unites it with an innovative wrapping system. This purpose-built machine is simple to use and capable of working on even the steepest slopes and in all crop conditions.

Fast and reliable bale transfer combined with a high-speed, twin-satellite wrapping unit that is standard equipped with INTELLIWRAP, give the Deutz-Fahr FM 235 BalePack the capacity to reach an output up to 55 bales per hour.

ISOBUS

All DEUTZ-FAHR FM 235 Balepack 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 net/twine wrap and number of film layers, are accessed via the monitor. Operator warnings, such as film break/end, and operator information, including bale transfer and number of bales, are also provided.

* Excluding AutoPlus balers

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.



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 machines.



Twin loading forks provide a rapid and reliable bale transfer

To minimize idle time and maximize output, a rapid bale transfer is required. Because of the fact that not all bales are made in perfect field conditions the FixMaster 235 BalePack is designed to ensure a rapid bale transfer, even when working in steep or sloping fields.

The first loading fork (in red) collects the bale as it leaves the bale chamber.

The wrapping table is tilted forward; ready to receive the bale.

Advantage: There is no possibility for the bale to roll over the rear of the wrapping table when facing up a steep slope.

The second loading fork (in blue) transfers the bale onto the wrapping table.

The tailgate shuts automatically, with the second loading fork still in raised position.

Advantage: This saves time and also prevents any chance for the bale to roll forward into the tailgate when facing downhill.

The wrapping table returns to its horizontal position and the second loading fork is lowered.

The sits low on the table supported by four wide belts and four lateral guide rollers.

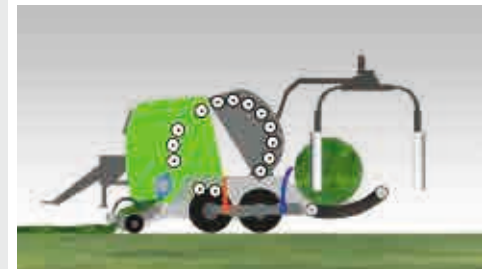
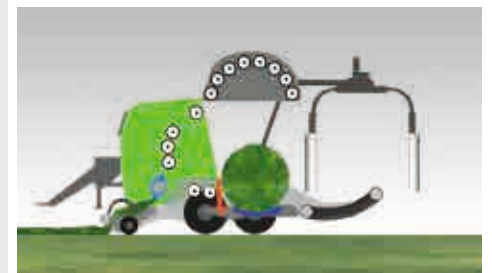
Advantage: Regardless of the bale shape, the table offers good support and allows perfect wrapping.

The INTELLIWRAP wrapping system with close mounted pre-stretchers rapidly wraps the bale, either in conventional or (optional) 3D mode.

Advantage: Vertically mounted pre-stretch units ensure no grass is sprinkled between the layers of film during the wrapping process for effective sealing between film layers and the highest possible silage quality.

The low mounted table allows the wrapped bale to be gently discharged while driving, either automatically or manually.

Advantage: When working on sloping grounds, the wrapped bale can be discharged while the net or twine is being applied on the following bale, saving time and increasing output potential.



FIXMASTER WRAPPING



Selection of 5 film layers



The bale is covered with 3 layers and 67% overlap



Increasing of the bale rotation speed



Final 2 layers with 50% overlap

INTELLIWRAP is a unique, intelligent and sophisticated way of wrapping bales.

By introducing INTELLIWRAP, greater management and control is achieved. INTELLIWRAP uses sophisticated electronics and hydraulics to monitor the wrapping process and continuously controls the film overlap, allowing total flexibility. Depending on local circumstances, crop conditions and storage periods the amount of film layers can simply be adjusted.

The "scissor" film cutters assure a clean, consistent cut.



Another feature of INTELLIWRAP is 3D wrapping. 3D wrapping is an intelligent and innovative way of applying stretch film to round bales. Key to the 3D wrapping process is its ability to distribute the total film quantity more uniformly and efficiently across the entire surface of the bale. By first wrapping the cylindrical surface of the bale more air is excluded and the shape of the bale maintains, even after a longer storage period.



With the pre-stretchers in their horizontal position, only the bale is rotated on the wrapping table. After closing the cylindrical site of the bale, the pre-stretchers return in their vertical position to apply the remaining layers and close the bale.



A reversible drawbar provides simple, flexible top or bottom attachment



ISOBUS gives optimum control in comfort*



INTELLIWRAP is a unique, intelligent and sophisticated way of wrapping bales*



Wide-opening side doors offer excellent access



The optional bale ramp increases overall capacity**



Integral Rotor Technology ensures even, force-fed intake



An optional crop roller offers smoother crop flow



The standard hydraulic rotor clutch can be operated from the tractorcab



The simple driveline, with heavyduty 1 1/4" chains, is designed for minimum maintenance in the toughest conditions



The standard, automatic chain oiling system allows individual adjustment to the amount of oil on each chain



Net and/or twine tying provides flexibility

*Only available on BalePack

**Not available on BalePack



Fixmaster

SPECIFICATIONS

SPECIFICATIONS	FM 235 OPTIFEED	FM/BP 235 OPTICUT 14	FM/BP 235 OPTICUT 23
Dimensions			
Length (m)	4,60	4,60 / 6,44	4,60 / 6,44
Overall width (m) (16.0/70-20)	2,54	2,54 / 2,80	2,54 / 2,80
Overall width (m) (400/60-22.5)	2,70	2,70 / 2,99	2,70 / 2,99
Overall width (m) (500/45-22.5)	2,70	2,70 / 2,99	2,70 / 2,99
Overall width (m) (600/40-22.5)	2,95	2,95 / -	2,95 / -
Overall height (m)	2,45	2,45 / 2,73	2,45 / 2,73
Overall weight (kg)	2995	3075 / 5300	3295 / 5400
Pick-Up			
Pick-Up width (m)	230	230	230
Number of tine rows	4	4	5
Wind guard with crop roller	■	■	■
Pneumatic gauge wheels	■	■	■
Swiveling guide wheels	○	○	○
Rotor			
Integral Rotor	■	■	■
Knife protection	-	Spring per knife	Spring per knife
Group selection knives	-	-	0 - 7 - 11 - 12-23
Rotor disengagement	■	■	■
PowerPush	○	○	○
Bale chamber			
No. of rollers	14	14	14
Diameter (m)	1,25	1,25	1,25
Width (m)	1,22	1,22	1,22
PowerLock	■	■	■
Drive line			
1¼" pitch drive chains	■	■	■
Wide angle PTO-shaft	■	■	■
Cam clutch protection	■	■	■
Operation			
Control box FixMaster 235	AutoPlus	AutoPlus	AutoPlus
Control terminal FixMaster 235 BalePack	VT 50 / CCI	VT 50 / CCI	VT 50 / CCI
Binding			
Twine binding	■	■ -	■ -
Net binding	○	○ ■	○ ■
Twine and net	○	○	○
Wrapping unit FM 235 BP			
3D wrapping system	-	○	○
Film break sensor	-	■	■
Wheels			
16.0 / 70-20 AW	■	■ -	■ -
400 / 60-22.5 AW	○	○ ■	○ ■
500 / 45-22.5 AW	○	○	○
600 / 40-22.5 AS	○	○ -	○ -
■ = standard equipment ○ = optional equipment - = not available			

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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