

# SwatMaster

## SwatMaster Rotary rakes



**Precision and Performance**



**FORAGE HARVESTING.**



## Competent solutions



**Deutz-Fahr offers a complete range of rotary rakes with working widths from 3.20 - 15.00 m.**

**Two lines of rakes are offered - the CompactLine for users handling medium amounts of material and the ProLine designed for a busy season.**

### **Exceptional raking performance**

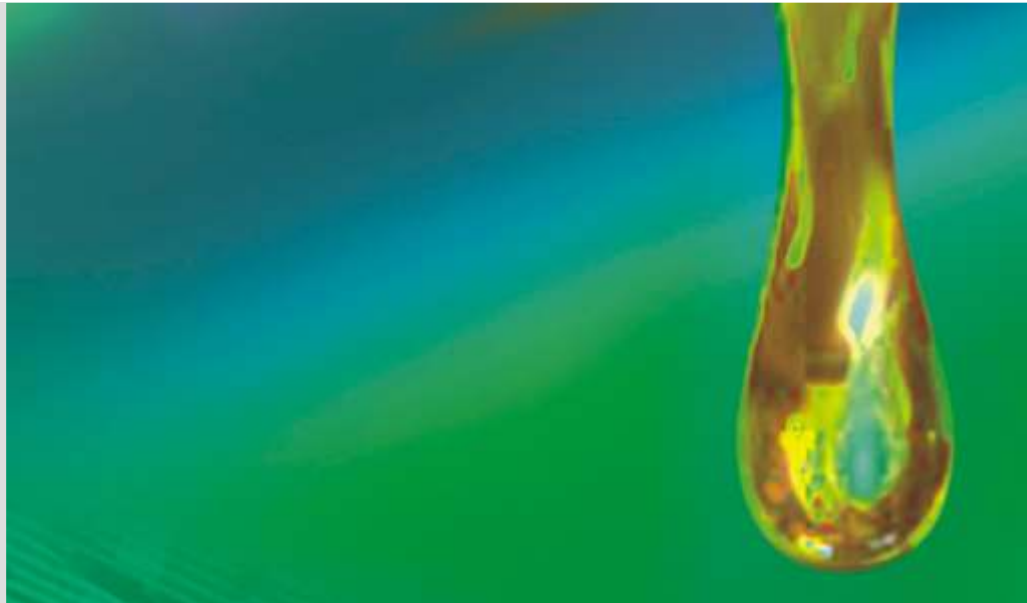
With up to 15 double tangential tine arms and four double tines per arm, Deutz-Fahr SwatMaster are well equipped for maximum raking performance. The high tine frequency ensures clean raking performance even at reduced rpm and high forward speed. Infinitely variable cam track adjustment allows fine tuning to obtain optimum raking and swath formation according to crop conditions.





## Wear-free operation through maintenance-free oil-immersed drivelines

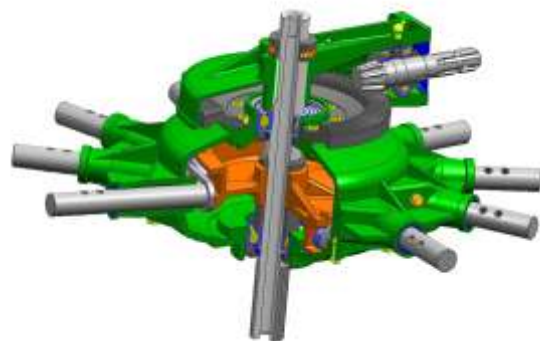
The Deutz-Fahr SwatMaster rake range is built around a special gearbox concept that is designed for hard work and continued operation. The enclosed gearbox is oil-immersed to ensure an absolutely maintenance-free system.



### The Deutz-Fahr solution: oil-immersed gearboxes

Deutz-Fahr **CompactLine** rakes feature oil-immersed cam discs and guide rollers. Also, the tine arm bearings are fully lubricated and hence absolutely maintenance-free. High-tensile tine arm holders and two bearings on either side of the driveshaft provide the compact unit with strength and dependability. Deutz-Fahr-developed cam tracks are specifically tailored to individual rotor diameters for optimum raking at any working width and on any model.

Deutz-Fahr **ProLine** rakes feature a unique drive system which comprises oil-immersed pinion and crown wheels. The fully enclosed design ensures full and permanent lubrication and makes the entire system absolutely maintenance-free. Our extensive experience guarantees well proven technology of the highest calibre. The hardened cam track is adjustable and features a flat curve and an extremely large 400 mm diameter, giving positive guidance to the steel rollers and quiet machine running. Aluminium bearing housings with two integral ball bearings and wide support provide solid and maintenance-free tine arm mounting.



- Oil-immersed crown wheel and pinion reduces wear to a minimum
- Pinion gear features two bearings for the driveshaft
- Crown wheel mounted on 4-point radial bearing
- Permanently lubricated steel guide rollers
- Flat 400 mm cam track made from high-tensile SG iron
- Injection moulded aluminium tine arm support housings



# CompactLine

## Single-rotor rakes



**SwatMaster 3211**

**3221**

**3521**

**3921**

**4231**

**4321**

### The compact family

Deutz-Fahr offers the smaller enterprise a choice of five models designed for use on lower horsepower tractors, whilst delivering similar raking performance to its higher specification machines. With the option of pivoting and fixed 3-point linkage attachment as well as trailed hitching, the range offers models to suit all needs, from lowland farmer to the user looking for clean raking performance even when working on steep hillsides.

### Compact design, low maintenance

#### SwatMaster “compact” rotor head

The rotor is grease lubricated. Within a fully enclosed housing, the maintenance-free cam track and cam followers are running permanently lubricated in an oil bath. The rotor shaft and pinion shaft are mounted on two bearings for maximum strength and long service life.







**SwatMaster 3921**



**SwatMaster 3921**



**SwatMaster 4231**



All rakes can be set to narrow transport width by removing the tine arms and placing them on the carrier frame



A pivoting 3-point headstock ensures perfect ground following performance and perfect tracking when cornering



**SwatMaster 4231 in transport position**



A third wheel to improve ground contour following can be fitted optionally

### **Curved tine arms**

All SwatMaster CompactLine rakes feature cranked tine arms for significantly cleaner raking performance and optimised swath formation. This design ensures that the row of tines on each tine bar have a more effective approach angle to the oncoming crop and also gives a cleaner lift out of the tine from the formed swath.







**SwatMaster 7131 EVO**  
**7131**

## CompactLine Side delivery rakes



### Flexible raking solutions

#### Flexible raking solutions

The SwatMaster 7131 and the 7131 EVO are designed for maximum flexibility for raking in a variety of conditions. The twin rotors work independently from each other, making it possible to collect either one large swath or two smaller narrow swaths. Alternatively, these rakes can place two large swaths into one, allowing a total of up to 12.50 m crop to be gathered into one swath.

#### Standard or EVO specification

The standard version also offers the patented SideShift system as an option, which comprises electro-hydraulic control of all functions as well as 12 tine arms on the rear rotor.

#### Deutz-Fahr SideShift

A special feature on the SwatMaster 7131 is the possibility to operate both rotors - front and rear - in an offset position from the tractor cab.

With this patented system, raking along field boundaries or around trees is no problem - as the tractor can run at a safe distance from the obstacles. It is also possible to run on raked fields.



SideShift to the left – raking without running on unraked crop





**The SwatMaster 7131 featuring 7.10 m working width and unique new SideShift device**



**Both rakes are suitable to produce narrow right swaths for hay crops**



**With 50 cm lifting height, swaths can be run over with no problem at all. Rotors are lifted using only a single acting valve**



### **Easy conversion from working to transport position**

No need to remove the tine arms:  
Moving the SwatMaster 7131 and 7131 EVO to transport position only requires a simple operation on the control unit. The swath deflector will automatically fold clear.  
Transport width on SwatMaster 7131 and 7131EVO is only 3.00 m (to reach 2.45 m, the tine arms can be removed).

### **Deutz-Fahr TerraLink - 5 x your benefit**

- Absolutely maintenance and wear-free
- Automatic dampening provides quiet machine running
- Bogies are set to wide track widths and specified with 18" tyres to sense field contours right on the tines for perfect ground-following and stability on the slopes
- Trailed axle configuration enhances quiet running and reduces tractor input power, particularly in wet conditions
- Superb tracking in road transport





# CompactLine TerraLink Quattro

**TERRALINK**  
QUATTRO



## **Our claim -**

### **Performance and quality!**

SwatMaster rotary rakes are designed to produce well-shaped and clean swaths. This is achieved by ensuring precision in every part of the raking process. The ability of the unique TerraLink Quattro system to accurately follow ground contours is a key element in avoiding swath contamination - especially in bumpy field conditions.

## **Adaptation in 3 dimensions**

These high-performance rakes boast the TerraLink Quattro wheel control system for superb ground contour following.

The TerraLink Quattro system controls the rotor in 3 dimensions, relying on a unique undercarriage combination that features 4 wheels and a special rotor suspension system. This ensures outstanding raking performance even at high forward speed.



**TerraLink Quattro is a maintenance-free system eliminating pivot and joint wear**



## **TerraLink offers 4 advantages**

The TerraLink system offers clear advantages over pivoting linkage systems:

- It is fully maintenance-free - no joints or pivots to wear out
  - The automatic rotor suspension ensures smooth operation
  - TerraLink automatically pre-loads the front pair of wheels to eliminate tine lifting and bounce
  - Optimum ground following ability ensures clean raking at high forward speed.
- All wheels are positioned close to the tines





## CompactLine Side delivery rakes

**TERRALINK**  
QUATTRO

### The new SwatMaster 6951 side delivery rake

Completing the CompactLine of side delivery rakes, this compact and nimble rake features a sturdy frame and the well-proven TerraLink Quattro ground-following system. With a working width of 6.90 m, the machine rakes up double swaths of up to 13.20 m. There are 11 removable tine arms each fitted with 4 tines which are curved to the unique Deutz-Fahr design to enable cleaner raking.

A host of exciting details such as the well thought-out continuous driveline make SwatMaster 6951 a universal machine that suits a wide range of applications. Trailing bogie wheels make for tight cornering without rotors risking to tilt and tines to scrape the ground. The two rotors provide generous overlapping and the cam tracks are matched to each other to transfer the material uniformly.

SwatMaster 6951 like all Deutz-Fahr frame-based rakes features a headstock that turns through a 90° angle to give superb tracking and superior manoeuvrability.





# CompactLine

## Centre swath rakes

**TERRALINK**  
QUATTRO



**SwatMaster 6341**

**7041**

**7641**

### Compact design – highest performance

Deutz-Fahr offers three cost-effective two-rotor rakes with strong frames. The rakes produce a nice and even centre swath from raking widths of between 6.30 and 7.80 m. They are mounted on a strong and stable frame to ensure long lifetime. Features such as actively steered wheels, the TerraLink Quattro system and hydraulically raised rotors are all fitted as standard.



SwatMaster 7041 with 7.00 m working width



SwatMaster 6341 with 6.30 m working width





The rotors can be set hydraulically from 7.00 m to 7.80 m working width



Deutz-Fahr centre swath rakes are converted hydraulically for transport from the tractor cab. To limit transport height further, the main frame can be lowered hydraulically as an option and the tine arms can be removed.



The setting system allows swath widths from 1.20 m to 1.90 m to suit for any pickup system and any forage system - baler, forage harvester or forage wagon.



The high-clearance frame gives up to 45 cm lift-out to safely pass over swaths during headland turns.

### SwatMaster 7641

The SwatMaster 7641 double rotor rake provides hydraulic working width adjustment from 7.00 to 7.80 m. Swath width also varies from 1.20 to 1.90 m, ensuring a perfect match to the pickup width of loader wagons, balers and foragers.

### Unique manoeuvrability

The rear carrier frame with controlled steering facility allows tight turns on headlands and loss-free swathing even in awkwardly shaped fields. Even if the rotors are lifted on a steep slope, the steering system reliably counteracts any deviation. The ability to make sharp turns up to 90° and the cross stabilizer in the headstock are unique Deutz-Fahr features. Headland turns without shunting reduces the number of idle travelling on the headland.





# ProLine

## Single-rotor rakes



SwatMaster 4621 works 4.60 m wide

**SwatMaster 3821**

**4221**

**4621**



### Optimum Performance!

#### Built-in reliability

The SwatMaster 3821, 4221 and 4621 are high performance rakes fitted with an oil bath immersed rotor head gearbox.

The standard bogie wheels offer perfect ground contour adaptation for a clean raking performance in all conditions.





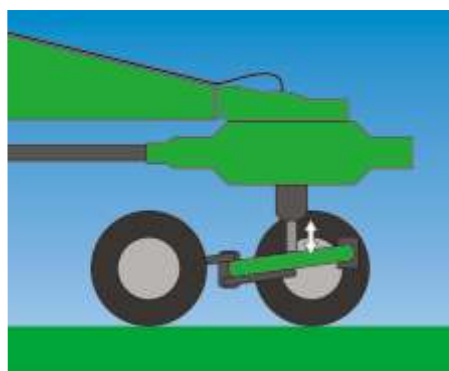
For road transport or storage, the rotor guard frames are folded up closely to the main frame where they automatically lock into position. An assist spring linked to the swath deflector reduces the effort required



Standard vibration damping provides for optimum tracking



Infinitely variable cam track adjustment allows fine tuning to obtain optimum raking and swath formation according to crop conditions



The Hydrolift height adjustment system

#### Standard Hydrolift height adjustment for maximum operating convenience

SwatMaster 4221 and 4621 are fitted as standard with a hydraulic height adjusting facility (Hydrolift). From the tractor seat you can quickly set the tine height to match the length of stubble or different ground conditions.

**No other supplier offers such a system.**







**SwatMaster 7751**

Raking 14.50 m of crop into a single swath

# ProLine Side delivery rakes



## Pure working width

The SwatMaster 7751 with controlled steering facility is fitted with 2 x 12 double tangential tine arm rotor heads which can produce double swaths. The side-delivery system is capable of raking crop from 14.50 m working width into one swath, ensuring an efficient harvesting chain. It is equipped with a strong carrier frame and an oil bath immersed gearbox for extreme reliability and long term dependability.

## Quattro-Frame

The 4-wheel running gear provides smooth and quiet running in all applications. As tines operate close to the wheels, they perfectly follow all ground contours.

## Variable swath size

The SwatMaster 7751 offers unique flexibility - it can produce either a large single swath or two smaller swaths (option). It is very simple to change between the different configurations when working with the Swatmaster 7751. The rake is set to the desired position hydraulically and changeover can be carried out in the field.



SwatMaster 7751 featuring night swathing option





# ProLine

## ProLine Centre Swath rakes

**TERRALINK**  
QUATTRO



### SwatMaster 8441

#### The heavy duty rake

With hydraulically adjustable working widths of 7.60 to 8.40 m this heavy-duty contractor specification rake provides the swath formation capability to keep harvesting operations running at their optimum outputs. At the heart of this model is a heavy-duty rotor head system. Proven to perform year in, year out in heavy, first cut crops, it is superbly engineered, with the crown wheel and pinion assembly running in a fully enclosed oil bath.

#### Deutz-Fahr sets new standards

The rear carrier frame with controlled steering facility gives this rake excellent track following characteristics, allowing tight turns on headlands and loss-free swathing even in awkwardly shaped fields. Even if the rotors are lifted on a steep slope, the steering system reliably counteracts any deviation.

The ability to make sharp turns up to 90° and the cross stabilizer in the headstock are unique Deutz-Fahr features. Convenient for turning on headlands with excellent ground clearance

SwatMaster 8441 in transport position



SwatMaster 8441 swathing straw





## 15 m power for professionals



### SwatMaster 15041

#### 15 m working width

The SwatMaster 15041 with 15 m working width is designed for high output and heavy use. It is fitted with a total of 56 tine arms and 280 tines. Each of the four rotors is fitted with 13/15 tine arms and five tines per arm.

#### Brakes and tyres

A choice of tyre sizes (550/45 R22.5) on the main chassis not only ensures low ground pressure but also makes for excellent stability, both in the field and on the road. Hydraulic or pneumatic brakes permit road speeds up to 50 km/h, so it takes minimum time to move the machine from one field to the next.

#### Superbly manoeuvrable unit

The 2-point headstock allows a turning angle of up to 90° and the steered wheel axles ensure these Deutz-Fahr rakes unequalled manoeuvrability. Despite a total length of 9.00 m, the machine easily negotiates even narrow gateways and approach lanes to fields.

#### Optimum ground pressure at all times

Hydraulic ground pressure control means constant and adjustable pressure on the rotors regardless of their position on the carrier frame. Free mobility in three planes, combined with six castoring twin wheels per rotor, gives each rake head perfect ground following ability for the cleanest possible raking performance.







## AutoForm

The operator-friendly AutoForm control box gives fully automatic or manual control of the rake. All major functions, such as lifting for headland turns or folding and unfolding the unit into transport or operating position, are activated by simply pressing one switch. Programmable delay between lifting and lowering of each pair of rotors keeps the operator's workload to a minimum.



The two outer rotors can be adjusted individually to match a working width between 9.50 m - 15.00 m

## Outstanding flexibility

The raking width can be continuously adjusted on the move between 9.50 m and 15.00 m. Raking width can be matched to the density of crop to obtain an evenly shaped and equally uniform wide swath throughout its entire length. You can independently steer an outside rotor around any obstacle such as a pole or tree without having to change travel direction with the complete machine.

The SwatMaster 15041 can optionally be supplied with active steering wheel axles for excellent manoeuvrability

The 2-point headstock allows turns up through 90°

With its clever folding mechanism, the total height is less than 4.00 m - despite a rotor diameter of 3.80 m! And there is NO need to remove tine arms in road transport!





# Technical specifications

SwatMaster	3211	3221	3521	3821	3921	4221	4231	4321
<b>Dimensions and weights</b>								
Working width (m)	3.20	3.20	3.50	3.80	3.90	4.20	4.20	4.30
Transport width (m)	1.20	1.60	1.75	1.60	1.75	1.75	2.10	2.00
Transport length	—	—	—	—	—	—	—	—
Transport height (m)	—	—	—	—	—	—	—	—
Weight (kg)	300	320	420	540	460	610	540	505
Swath width (m)								
<b>Attachment to tractor</b>								
Three-point, rigid (Cat)	½	—	—	—	—	—	—	—
Three-point, tracking (Cat)	—	½	½	½	½	2	—	½
Three-point, link arms (Cat)	—	—	—	—	—	—	—	—
Linkage drawbar	—	—	—	—	—	—	●	—
<b>Rotors/Arms/Tines</b>								
Rotor diameter (m)	2.60	2.60	2.80	3.05	3.05	3.35	3.35	3.35
Swath presentation	Left	Left	Left	Left	Left	Left	Left	Left
No. of rotors	1	1	1	1	1	1	1	1
No. of tine arms/rotors	9	9	10	11	11	12	11	12
No. of tines/arm	3	3	3	4	4	4	4	4
Stepless cam track adjustment	—	—	—	●	—	●	—	—
Removable arms	●	●	●	●	●	●	●	●
Height control	toothed pulley	toothed pulley	Mech.	Mech.	Mech.	Hydr.	Mech.	Mech.
<b>Wheels and axles</b>								
Tyres (rotor machine)	15x6.00-6	15x6.00-6	16x6.50-8	16x6.50-8	16x6.50-8	16x6.50-8	18x8.50-8	16x6.50-8
Rigid tandem axle	—	○	○	●	○	●	●	○
Caster tandem axle	—	—	—	—	—	○	—	—
Standard tyres (main running gear)	—	—	—	—	—	—	—	—
<b>Further options</b>								
Slope locking system	—	○	○	●	○	●	—	○
Pivot stand	—	○	○	●	○	●	—	○
<b>Road safety options</b>								
Warning panels	○	○	○	○	○	○	○	○
Lighting	○	○	○	○	○	○	○	○

● = standard equipment   ○ = optional equipment   — = not available   \* = tine arms removed



SwatMaster 4621



SwatMaster 7131



SwatMaster 7641



4621	6951	7131	7131 EVO	6341	7041	7641	7751	8441	15041
4.60	6.90	6.60	6.60	6.30	7.00	7.00-7.80	7.70/8.40	7.60-8.40	9.50-15.00
2.15	2.75	3.00/2.45*	3.00/2.45*	2.85	2.85	2.85	2.85	2.85	3.00
-	8.10	7.10	7.10	5.80	5.80	5.80	8.60	6.10	9.20
-	*3.25/4.05	-	-	3.99	*3.40/ 4.15	*3.40/4.15	*3.30/4.10	*3.30/ 4.00	*3.45/4.00
660	1670	1390	1360	1330	1540	1540	1990	1850	5600
				1.30	1.30	1.20-1.90		1.40-2.00	1.40-2.00
-	-	-	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-	-	-
-	½	-	-	½	½	½	½	½	2
-	-	●	●	-	-	-	-	-	-
3.65	3.35	3.00	3.00	3.00	3.35	3.35	3.65	3.65	3.80
Left	Left	1-2x Left	1-2x Left	middle	middle	middle	1-2x Left	middle	middle
1	2	2	2	2	2	2	2	2	4
13	2x11	11/12	2x11	2x11	2x11	2x11	2x12	2x12	13/15
4	4	4	4	3	4	4	4	4	5
●	-	-	-	-	-	-	●	●	●
●	●	●	●	-	●	●	●	●	●
Hydr.	Mech.	Mech.	Mech.	Mech.	Mech.	Mech.	Mech.	Mech.	Mech./Elec. o
16x6.50-8	16x6.50-8	18x8.50-8	18x8.50-8	16x6.50-8	16x6.50-8	16x6.50-8	16x6.50-8	16x6.50-8	16x6.50-8
●	TerraLink	TerraLink	TerraLink	TerraLink	TerraLink	TerraLink	TerraLink	TerraLink	TerraLink
o	Quattro	-	-	Quattro	Quattro	Quattro	Quattro	Quattro	Contact
-	10.0/75-15.3	-	-	10.0/75-15.3	10.0/75-15.3	10.0/75-15.3	10.0/75-15.3	10.0/75-15.3	500/50-17
●	-	-	-	-	-	-	-	-	-
●	-	-	-	-	-	-	-	-	-
o	●	●	●	●	●	●	●	●	●
o	●	●	●	●	●	●	●	●	●

This documentation is not binding. Availability of models, specifications and optional equipment may differ from country to country. Please consult your local dealer. Specifications and design are subject to change without notice. Printed in Germany. © Kverneland Group



SwatMaster 7751



SwatMaster 8441



SwatMaster 6951



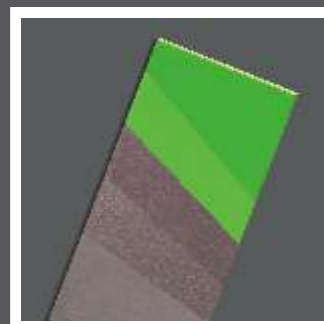
# DEUTZ-FAHR: A full range of forage harvesting equipment



Deutz-Fahr offers you a full range of forage harvesting equipment: drum and disc mowers and mower conditioners, tedders, rakes, fixed and variable chamber round balers, big square balers, bale wrappers and loader wagons.

Continuous innovation and elaborate field testing make Deutz-Fahr a prominent supplier of state of the art forage harvesting equipment.

The experienced network of Deutz-Fahr dealers assures you of a professional after-sales service and a prompt spare parts delivery.



Deutz-Fahr forage harvesting machines are protected by a Duracoat powder paint coating. The result is a sealed, extremely hard wearing and attractive finish. Deutz-Fahr's paint quality ensures a longer life for your machine, even in the most corrosive conditions.

