

DUO
SERIES RAKE



DUO series side-delivery rakes are particularly recommended for users looking for versatile high-performance solutions. The machine can form one or two windrows, which means that the maximum width of the swath (after two passes) can reach an impressive 12 metres (39'3"). The DUO is suitable for both medium- and large-sized farms.

Machine category	Model name	Working width
<ul style="list-style-type: none">• twin-rotor• trailed rakes• 1 or 2 windrows	<ul style="list-style-type: none">• DUO 680• DUO 740	<ul style="list-style-type: none">• 3,40 – 6,80 m / 11'2" - 22'4"• 3,70 – 7,40 m / 12'1" - 24'3"

See the mower at work



DUO



Hitching system

The two-point hitch gives the hay rake a wide turning angle, making the machine stable and maneuverable. The foldable support leg simplifies the hitching operation as it offers stepless adjustment of hitch height.

The hay rake may be optionally equipped with a second support wheel, which additionally stabilizes the machine during turns and working on slopes.



KENNFIXX hydraulic handles

KENNFIXX hydraulic handles are included as standard. They make it easier to connect the hay rake's hydraulic couplers to the tractor's valve block. When the rake is disconnected, its hydraulic hoses are secured in dedicated holders to protect the couplings from dirt. The use of two different colors makes it easier for the operator to distinguish between hoses.



Gearbox

The angular gearbox, which transfers power to the rear rotor, is quiet, durable and low-maintenance. The machine's turning angle is unrestricted here, which makes it possible to make tight turns.



Rotor gearbox

The rotor gearbox is quiet, durable, and low-maintenance. In DUO 740, the tine arm connecting rods are replaceable, which simplifies the repair process as there is no need for labor-intensive disassembly of the entire gearbox.



Tines

The tine arms have four pairs of durable spring-loaded tines. They feature an improved shape, which helps pick up the crop and move it into place on the windrow with greater precision.

In addition, the outmost spring-loaded tine is protected against being dropped and lost in case it gets damaged mid-work.



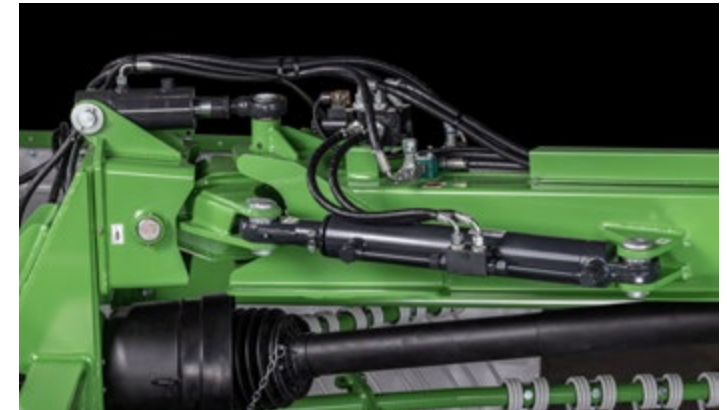
Tine arm mounting

The tine arms are easily and quickly attached with two pins. The hay rake frame has holders for storing the tine arms, which means they are safely secured in place during transport.

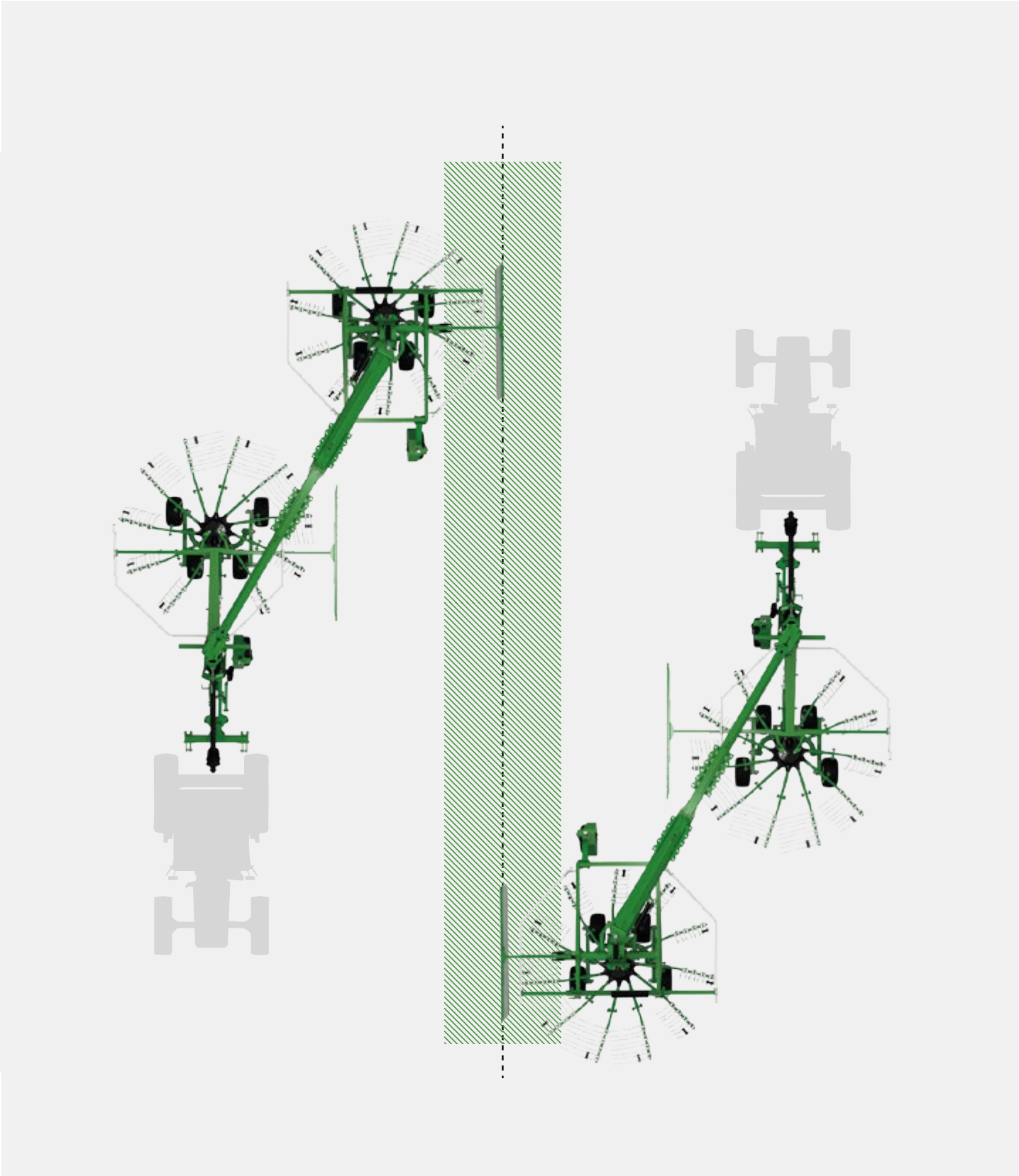


Hydraulic control of rear rotor

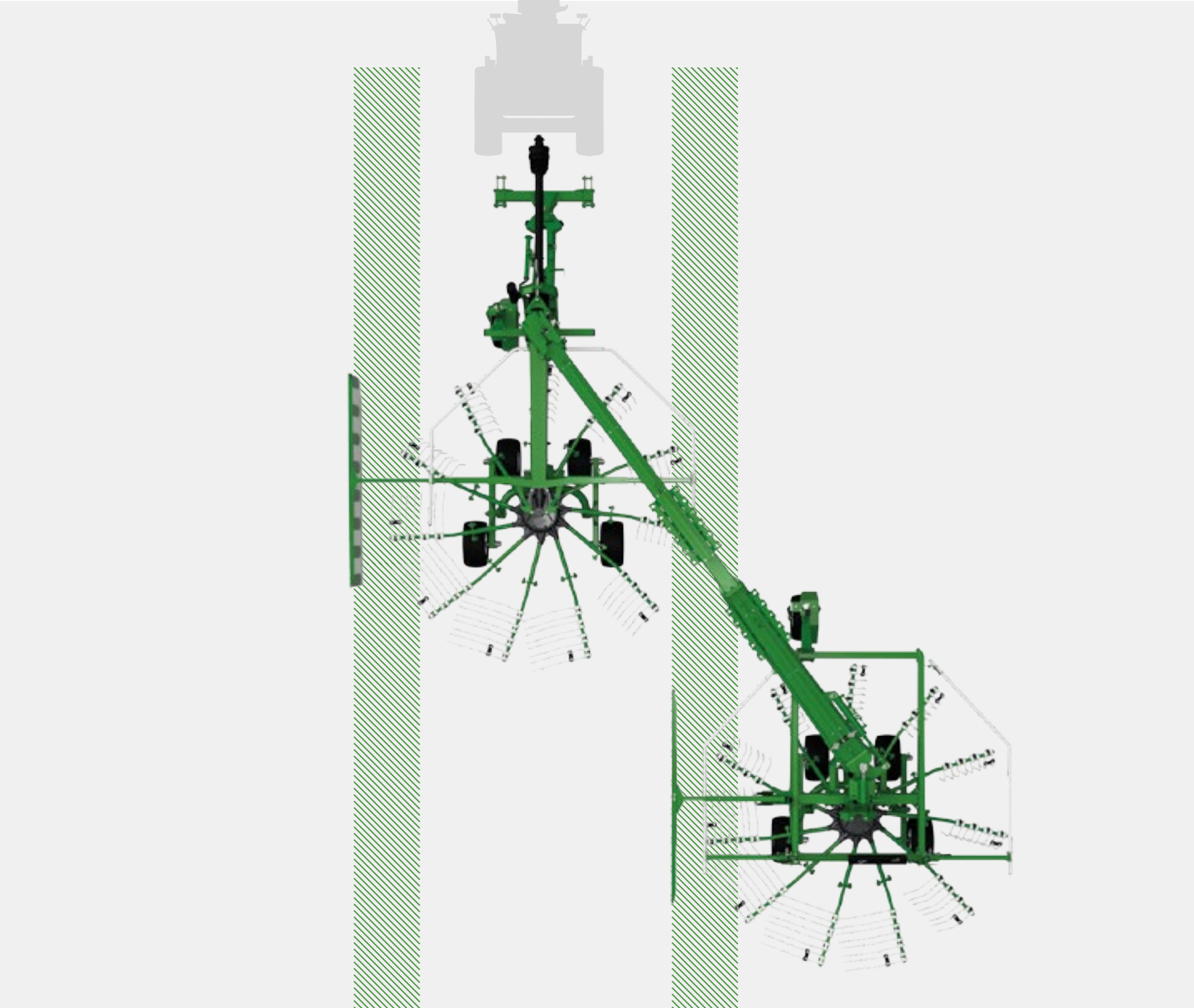
The control panel can be used to hydraulically adjust the position of the rear rotor and to lower or raise the swath curtain. It is an easy and fast solution which allows the operator to form one or two windrows.



Setting the machine for 1 windrow



Setting the machine for 2 windrows



Tandem Chassis

The tandem axle supports even distribution of the machine's weight across the ground. This type of chassis is also perfect for accurate ground following. It comes as standard in all DUO rakes.

The working wheels are also used as transport wheels, and their dual version is available as an option.



Lift cylinder

DUO rakes feature a patented raking height adjustment system. This coupled hydraulic and mechanical system ensures that the rake is accurately positioned for the task at hand. The advantage of the hydraulic system, which can lift the rotor as high as 49 cm (1'6"), it that it prevents the machine from interfering with a completed windrow during headland turns. Additionally, the lift system enables safe travel on public roads. With the hydraulic cylinder, the hitch can be lowered for transport to keep the rake in a horizontal position.



TECHNICAL SPECIFICATION

		DUO 680	DUO 740
Working width	[m / ft]	3,40 - 6,80 / 11'2" - 22'4"	3,70 - 7,40 / 12'1" - 24'3"
Windrow width	[m / ft]	0,80 - 1,50 / 2'7" - 4'11"	0,80 - 1,50 / 2'7" - 4'11"
Rotor diameter with arms	[m / ft]	3,00 / 9'10"	3,30 / 10'10"
Transport width	[m / ft]	2,60 / 8'5"	2,60 / 8'5"
Transport height with / without arms	[m / ft]	2,00 / 6'7"	2,00 / 6'7"
Transport width without arms	[m / ft]	1,80 / 5'11"	2,60 / 8'6"
Lifting height on headlands	[cm / ft]	49 / 1'6"	49 / 1'6"
Necessary hydraulic couplers		1 x single acting 1 x double acting	1 x single acting 1 x double acting
Working capacity	[ha/h ac/h]	~5,00 - 6,50 / 12,50-16,00	~8,00 / 20,00
Number of arms per rotor	[pcs.]	11	11
Number of dismountable arms per rotor for transport	[pcs.]	-	6
Number of tines	[pcs.]	4	4
RPM		540	540
Recommended RPM		350:450	350:450
3-point hitch cat.		II	II
Power demand	[HP]	from 50	from 60
Tires (with inner tubes)		18 × 8,5–8	18 × 8,5–8
Weight	[kg / lbs]	1 920 / 4 232	2 120 / 4 675
PTO shaft		tractor - rake: wide-angle with overrunning clutch, built-in: 1. wide-angle, 2. with overload clutch	tractor - rake: wide-angle with overrunning clutch, built-in: 1. wide-angle, 2. with overload clutch
Windrow		on the left	on the left