SaMASZ®

PRODUCT CATALOG

HAY RAKES

2025

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Z
SERIES RAKE

Discover our Z series single-rotor rakes. This rake is perfect for small tractors, and its lightweight and compact design makes it easy to use and store. Mounted Z series rakes ensure high performance on small fields, while being a cost-effective option for every farmer.

Machine category

- single-rotor
- 3-point mounted

Model name

- Z-350
- Z-351
- Z-410
- Z-440
- Z-470

Working width

- 3,50 m / 11’6”
- 3,50 m / 11’6”
- 4,10 m / 13’5”
- 4,40 m / 14’5”
- 4,70 m / 15’5”

Ckeck the rake out

E-COAT

Hitching system

With the tilting and pivoting linkage, maneuvering the rake is smooth and effortless. It makes hitching the machine much easier and also improves its ground following ability, which translates into increased raking performance and quality.

Gearbox

The oil-filled gearbox of the rotor (models Z-350 to Z-440) is quiet, durable, and low-maintenance.

In models Z-440 and Z-470, the tine arm connecting rods are replaceable, which significantly simplifies the repair process as there is no need for labor-intensive disassembly of the entire gearbox.

Gearbox oil level can be quickly checked through the convenient inspection window (excluding Z-470).

Raking height adjustment

The adjustment mechanism located above the linkage enables smooth and stepless setting of rotor height.

Tines

Depending on the model, the tine arms have three or 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, starting from model Z-410.

The hay rake frame has holders for storing the tine arms, which means they are safely secured in place during transport.

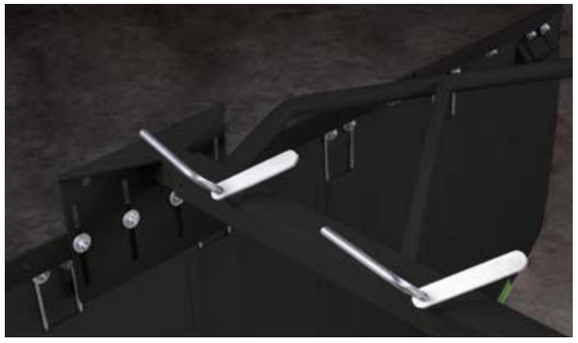
Chassis

The tandem axle helps with 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 Z series rakes (excluding Z-350).

When working in wet conditions, there is room for additional adjustment by changing the height of the chassis attachment point.

Swath curtain

The foldable swath curtain has several height and tilt settings, allowing you to adjust the width and shape of the windrow.



TECHNICAL SPECIFICATION

		Z–350	Z–351	Z–410	Z–440	Z–470
Working width	[m / ft]	3,50 / 11'6"	3,50 / 11'6"	4,10 / 13'5"	4,40 / 14'5"	4,70 / 15'5"
Windrow width	[m / ft]	0,80 - 1,50 2'7" - 4'11"	0,80 - 1,50 2'7" - 4'11"	0,80 - 1,50 2'7" - 4'11"	0,80 - 1,50 2'7" - 4'11"	0,80 - 1,50 2'7" - 4'11"
Transport width	[m / ft]	2,95 / 9'8"	2,95 / 9'8"	3,30 / 10'10"	3,60 / 11'8"	3,80 / 12'8"
Transport width without arms	[m / ft]	1,80 / 5'11"	1,80 / 5'11"	1,80 / 5'11"	2,10 / 6'11"	2,30 / 7'7"
Working capacity	[ha/h | ac/h]	~3,50	~3,50	~4,50	~5,00	~5,60
Number of arms	[pcs.]	9	9	11	11	13
Rotor diameter with arms	[m / ft]	2,80 / 9'2"	2,80 / 9'2"	3,30 / 10'10"	3,60 / 11'8"	3,80 / 12'8"
Number of tines	[pcs./arm]	3	3	4	4	4
RPM		540	540	540	540	540
Recommended RPM		300 - 350	300 - 350	300 - 350	300 - 350	300 - 350
3-point hitch cat.		I/II	I/II	II	II	II
Power demand	[HP]	from 25	from 25	from 40	from 45	from 50
Tires (with inner tubes)		15 × 6,0–6	15 × 6,0–6	16 × 6,5–8	16 × 6,5–8	16 × 6,5–8
Weight	[kg / lbs]	370 / 815	410 / 905	612 / 1350	736 / 1620	830 / 1830
PTO shaft		tractor - rake: with overload clutch				

UNO
RAKE

This trailed version of the single-rotor rake is dedicated for small farms and less powerful tractors. It is a proven solution with simple hitching and large adjustment range. UNO rakes are an optimal choice that delivers both performance and desired outcomes.

Machine category

- single-rotor
- trailed rakes

Model name

- UNO 410
- UNO 440
- UNO 470

Working width

- 4,10 m / 13’5”
- 4,40 m / 14’5”
- 4,70 m / 15’5”

Ckeck the rake out

Hitching system

The single-point hitch enables quick connection to the tractor with just a pin. Using the adjustable support leg, you can easily align the height of the hitch and the tractor's drawbar.

The conveniently adjustable hydraulic cylinder ensures stability during transport and helps the rake to closely follow the terrain when raking.

Lift cylinder

UNO rakes feature a patented raking height adjustment system. This coupled hydraulic and mechanical system ensures that the machine is accurately positioned for the task at hand. During headland turns and during transport, the rotors are lifted to provide high ground clearance. This prevents the tines from catching any undesirable objects and ensures safe travel on roads.

Gearbox

The oil-filled gearbox of the rotor (UNO-410 and UNO-440) is quiet, durable, and low-maintenance.

In models UNO-440 and UNO-470, the tine arm connecting rods are replaceable, which significantly simplifies the repair process as there is no need for labor-intensive disassembly of the entire gearbox.

Gearbox oil level can be quickly checked through the convenient inspection window (excluding UNO-470).

UNO-470 has a dry 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.

Tandem chassis

The tandem axle helps with 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 UNO rakes.

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

Ground following wheel

The adjustable ground following wheel in front of the rotor ensures stable turning and makes it easier to work on slopes.

Swath curtain

The foldable swath curtain has several height and tilt settings, allowing you to adjust the width and shape of the windrow.

It has additional reinforcing elements, which means it can handle large amounts of forage.

TECHNICAL SPECIFICATION

		UNO 410	UNO 440	UNO 470
Working width	[m / ft]	4,10 / 13'5"	4,40 / 14'5"	4,70 / 15'5"
Windrow width	[m / ft]	0,80–1,50 2'7" - 4'11"	0,80–1,50 2'7" - 4'11"	0,80–1,50 2'7" - 4'11"
Transport width	[m / ft]	3,30 / 10'10"	3,60 / 11'8"	3,80 / 12'8"
Transport width without arms	[m / ft]	1,80	2,35	2,35
Necessary hydraulic couplers		1 x single acting		
Working capacity	[ha/h | ac/h]	~4,50 / 11,00	~5,00 / 13,00	~5,60 / 13'8"
Number of arms	[pcs.]	11	11	13
Rotor diameter with arms	[m / ft]	3,30 / 10'10"	3,60 / 11'8"	3,80 / 12'8"
Number of tines	[pcs.]	4	4	4
RPM		540	540	540
Recommended RPM		350:450	350:450	350:450
Hitch type		drawbar	drawbar	drawbar
Power demand	[HP]	from 35	from 40	from 45
Tires (with inner tubes)		16 × 6,5–8	18 × 8,5-8	18 × 8,5–8
Weight	[kg / lbs]	755 / 1 665	860 / 1 895	905 / 1 995
PTO shaft		tractor - rake: with overload clutch		

Z2
SERIES RAKE

This is a classic twin-rotor rake, designed for maximum efficiency. It is a versatile and reliable solution which has been tried and tested globally, from the Americas through Europe to Asia. The simple center delivery design offers high performance, is user friendly, and comes with a wide range of accessories as standard.

Machine category

- twin-rotor
- 3-point mounted
- 1 central windrow

Model name

- Z2-780
- Z2-840 H

Working width

- 7,20 – 7,60 m / 23’7” - 24’11”
- 7,60 – 8,40 m / 24’11” - 27’7”

Ckeck the rake out

Hitching system

With the tilting and pivoting linkage, maneuvering the rake is smooth and effortless. It makes hitching the machine much easier and also improves its ground following ability, which translates into increased raking performance and quality.

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 machine is disconnected, its hydraulic hoses are secured in dedicated holders to protect the couplings from dirt.

Gearbox

The oil-filled gearbox of the rotor is quiet, durable, and low-maintenance.

In model Z2-840, the tine arm connecting rods are replaceable, which significantly simplifies the repair process as there is no need for labor-intensive disassembly of the entire gearbox.

Gearbox oil level can be quickly checked through the convenient inspection window.

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.

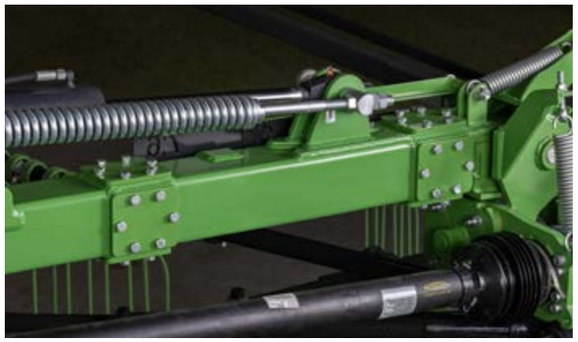
The hay rake frame has holders for storing the tine arms, which means they are safely secured in place during transport.

Support springs

During headland turns, the raised rotors are kept level with support springs, which prevents damaging the tines and the turf and spoiling the formed windrow.

Pressure relieving springs

The pressure relieving springs can be used to adjust ground pressure of the rotor arms. With correct setting, they help to protect the turf and minimize dirt in the crop.



Steering rod

Driving wheels are connected to the linkage with a steering rod, which forces them to turn so that the rake follows the tractor's path. This makes maneuvering much easier both during field work and road transport.

Hydraulic extend cylinder

Model Z2-780 can be retrofitted with a hydraulic working width adjustment mechanism. The cylinder is steplessly controlled from the tractor to make your work more comfortable. It comes as standard in model Z2-840.

The indicator placed over the cylinder is clearly visible from the cab to easily monitor width adjustments.

Tandem design

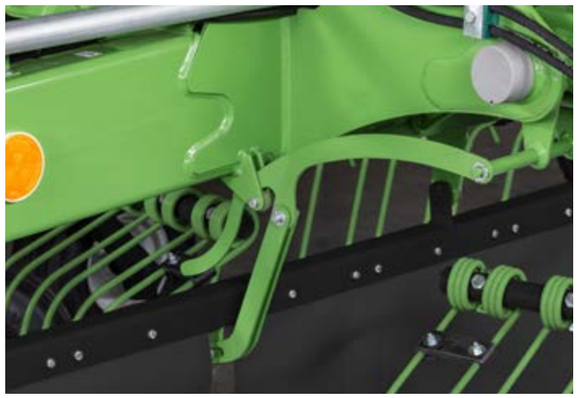
The tandem axle with six wheels helps with even weight distribution of the rake's rotors across the ground. It also ensures more accurate ground following.

When working in wet conditions, there is room for additional adjustment by changing the height of the chassis attachment point.

Swath curtain lift mechanism

The swath curtain between the rotors helps to form a clean and even windrow. Such perfectly formed swaths are easier to be later picked up by a baler or a self-loading forage wagon. An additional function of the swath curtain is to stop the crop from spreading when raking with only one of the rotors.

When the rotors are lifted, the swath curtain is also automatically raised. This ensures it is not in the way during headland turns or road transport.



Single rotor lift mechanism

An optional mechanism is available to lock one of the rotors in the raised headland turn position, which enables the operator to avoid an obstacle without changing the direction of travel. The system consists of a selective control valve and a control panel.

TECHNICAL SPECIFICATION

		Z2-780	Z2-840 H
Working width	[m / ft]	7,20–7,60 / 23'7" - 24'11"	7,60–8,40
Windrow width	[m / ft]	1,50–2,00	1,20–2,00
Transport width	[m / ft]	3,30	3,65
Transport width without arms	[m / ft]	2,90	3,00
Necessary hydraulic couplers		1 x single acting	1 x single acting 1 x double acting
Working capacity	[ha/h | ac/h]	~8,00 / 20,00	~9,00 / 22,00
Number of arms	[pcs.]	11	11
Number of dismountable arms per rotor for transport	[pcs.]	4	4
Number of tines	[pcs.]	4	4
RPM		540	540
Recommended RPM		300 - 400	350 - 450
3-point hitch cat.		II	
Power demand	[HP]	from 60	from 80
Tires (with inner tubes)		16 × 6,5–8 (under rotors) / 340/55-16 (rear)	16 × 6,5–8 (under rotors) / 340/55-16 (rear)
Weight	[kg / lbs]	2 040 / 4 500	2 420 / 5 335
PTO shaft		tractor - rake: wide-angle, built-in: 1. with overrunning clutch, 2. with overload clutch	
Windrow		central	central

Z2-960
SERIES RAKE

A new 2-rotor rake in the SaMASZ product range. The Z2-960 model is characterised by a working width hydraulically adjustable from 8.80 m to 9.60 m (28’10” - 31’5”) and a wide range of solutions for comfort, ergonomics and working efficiency. Particularly noteworthy are the factory-installed hydropneumatic pressure relief system and the adjustable cam wheel of the rotor. Another advantage is the new design, which fits in with modern global trends in agricultural machinery.

Machine category

- twin-rotor
- 3-point mounted
- 1 central windrow

Model name

- Z2-960

Working width

- 8,80 - 9,60 / 28’10” - 31’5”

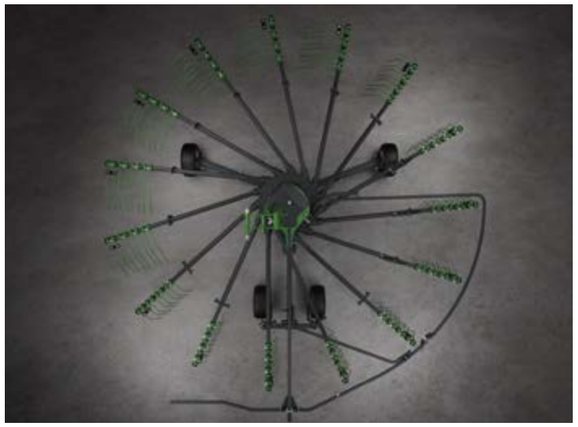
Ckeck the rake out

Gearbox

The new 15-arm gearbox has replaceable connecting rods, making it significantly easier to replace them if needed. The higher number of raking arms means higher efficiency and evenly shaped swath rollers increasing the performance of each successive machine in the harvesting chain. The tightly sealed gearbox design, in turn, is a guarantee against dirt and damage.

Working unit

The tangential arrangement of the rotor arms ensures the best raking quality and even swath rolls. Such an arrangement enables significantly higher operating speeds for both the transmission and subsequent machines in the harvesting chain.

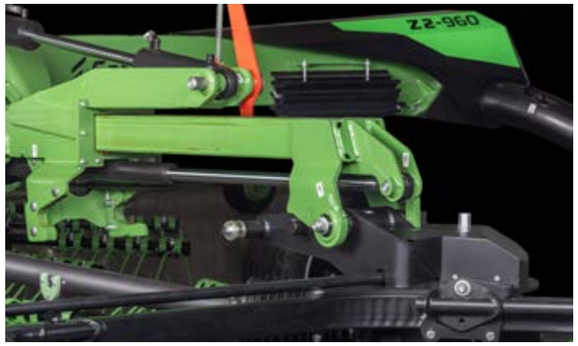


Adjustable cam track

Another solution for adjusting the working parameters of the Z2-960 rake to the individual needs of the customer is the adjustable cam track. The possibility to adjust the raking tine pivot point allows the entire raking unit to be adapted to the working and forage conditions.

Working width

Standard equipment on the Z2-960 rake includes hydraulic adjustment of the working width from 8.80 m to 9.60 m (28’10” - 31’5”). This increases the machine’s versatility and allows the width of the raked roller to be adapted to individual needs.

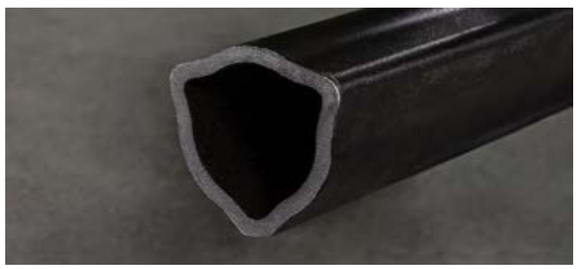


Rotor chassis

A very wide rotor chassis ensures stable operation and distributes the weight of the rake over a large diameter reducing point pressure on the ground. An additional feature to protect the sward during cornering work is the turning and tandem front wheels. As an option, the rake can be retrofitted with tandem rear axles.

Raking arms

A distinctive feature of the new Z2-960 rake is the hexagonal profile arms, which are more resistant to deformation. This design allows for a more even distribution of forces, which reduces the risk of damage to the arm during field works.



Raking arms

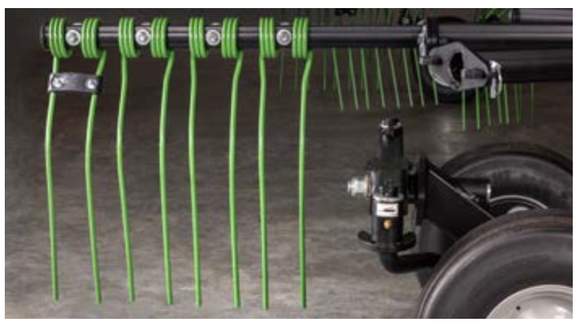
A distinctive feature of the new Z2-960 rake is the hexagonal profile arms, which are more resistant to deformation. This design allows for a more even distribution of forces, which reduces the risk of damage to the arm during field works.

Raking tines

The raking arms are fitted with four pairs of robust tines. Their shape has been refined, allowing the material to be picked up precisely and transferred to the swath roller to be formed. In case of damage, the outer tine has a safety device to prevent it from being lost during operation.

Raking tines positioning

The raking tines are positioned very close to the wheels of the rotor, making them react instantly to any changes in the terrain. The result is a very clean and thorough raking of the material.



Hydropneumatic pressure relief system

A self-developed hydropneumatic pressure relief system enables stepless adjustment of the working units. This makes it possible to adjust the ground pressure comfortably yet precisely, which results in minimum soil compaction and turf protection.

Cardan suspension

The rake rotors are rock-suspended, enabling the entire working unit to adapt smoothly to the terrain. The combination of the pin and the elongated hole ensures free movement in every direction, and this guarantees an accurate and clean harvest.

Transport wheels

The wide transport wheels (340/55-16) guarantee stability at work and during transport, and protect the ground thanks to the special profile of the tyres. As an option, the customer can equip the rake with wider 380 / 55-17 wheels.

Working height adjustment

The rake is equipped with a working height adjustment mechanism allowing for smooth and stepless adjustment of the rotors with raking arms to the ground.

There is an easy-to-read scale on the rotors to facilitate precise adjustment of the working height to field conditions.

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.

Parking blocks storage box

Details also matter. On the Z2-960 rake, the parking blocks have their place under a specially designed weather protection cover.

Transport

A hydraulic latch locks the working units for transport on public roads. The latches are automatically unlocked when the work units are pulled out during unfolding of the machine. Clearly visible from the tractor cab, the red latch informs the operator that the machine is securely locked and ready for the road.

TECHNICAL SPECIFICATION

		Z2-960
Working width	[m / ft]	8,80 – 9,60 / 28'10" – 31'5"
Transport width	[m / ft]	2,95 / 9'8"
Transport height	[m / ft]	3,95 / 12'11"
Transport length	[m / ft]	6,95 / 22'9"
Rotor diameter	[m / ft]	4,20 / 13'9"
Swath width	[m / ft]	~1,50 – 2,30 / 4'11" – 7'6"
Working capacity	[ha/h]	~13,00 – 14,00 / 32,00 – 34,00
Necessary hydraulic couplers	[pcs]	2 x double acting
Number of arms per rotor	[pcs]	15
Number of foldable arms for transport	[pcs]	3
RPM		540
3-point hitch cat.		II
Power demand	[HP]]	from 70
Tires		transport wheels: 340 / 55-16
		rotor wheels: 16 / 6.50-8
Weight	[kg / lbs]	2 760 / 6 085
PTO shaft		tractor – rake: wide-angle with overrunning clutch
Windrow		central

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

- twin-rotor
- trailed rakes
- 1 or 2 windrows

Model name

- DUO 680
- DUO 740

Working width

- 3,40 – 6,80 m / 11’2” - 22’4”
- 3,70 – 7,40 m / 12’1” - 24’3”

Ckeck the rake out

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

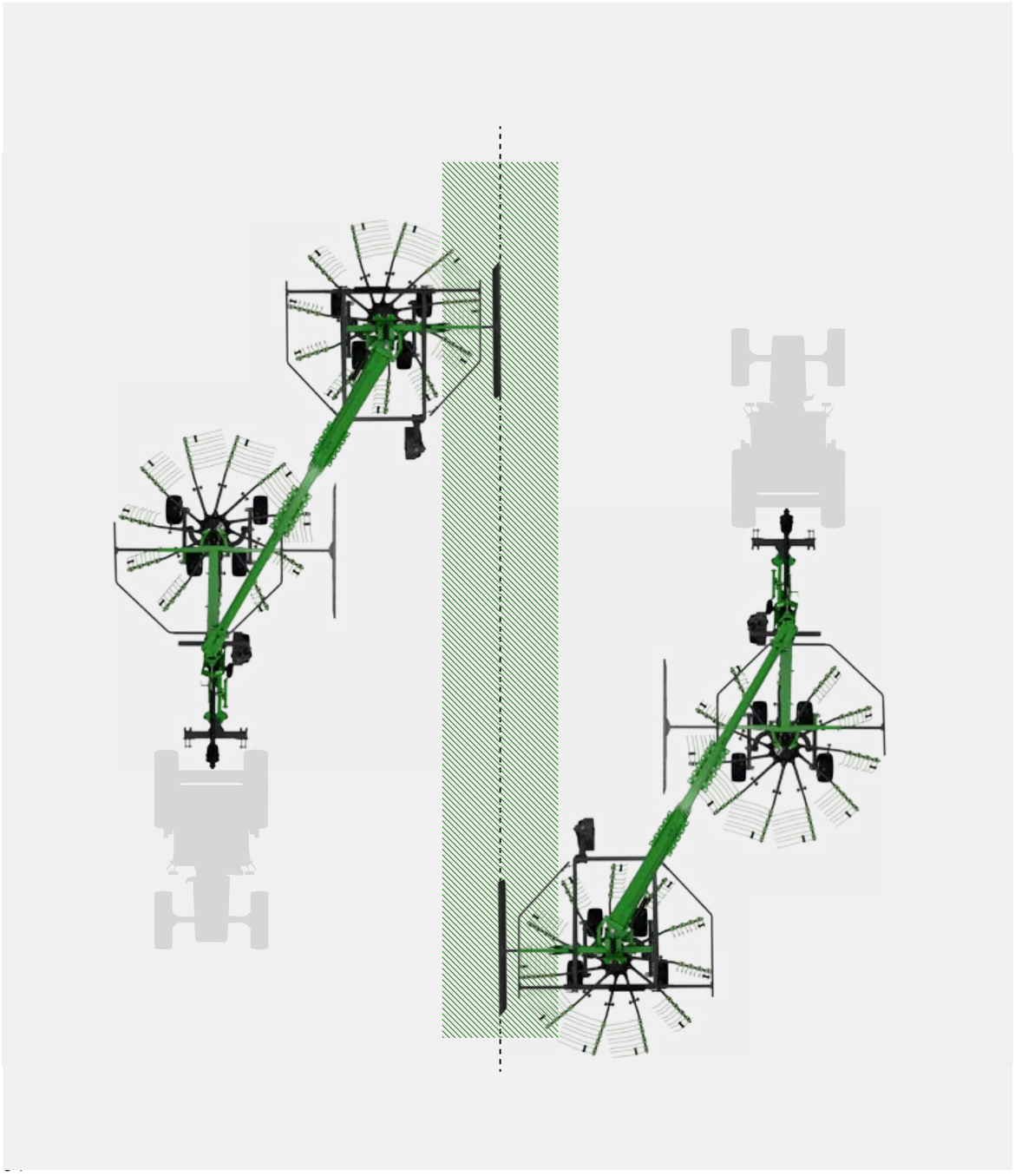
The tine arms are easily and quickly attached with two pins.

The hay rake frame has holders for storing the tine arms, which means they are safely secured in place during transport.

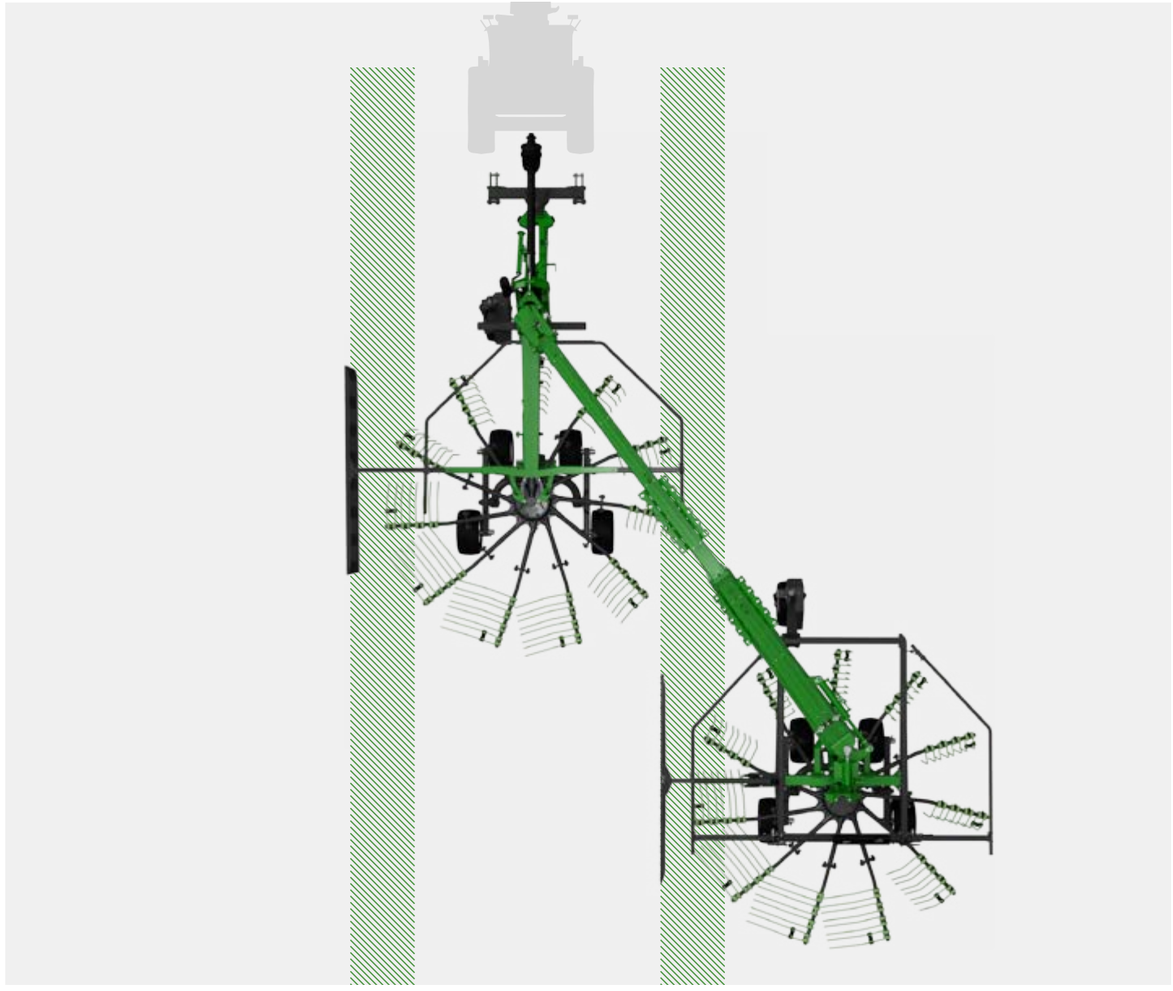
Hydraulic control of rear rotor

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.

		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

TANGO
SERIES RAKE

This rake has been designed for large farms and contractors. TANGO rakes are highly versatile and can form one or two windrows without having to reposition the rear rotor. This offers flexibility as the machine can be adapted to the operator's current needs and working conditions.

Machine category

- twin-rotor
- 3-point mounted
- 1 or 2 windrows

Model name

- TANGO 730

Working width

- 6,70 – 7,30 m / 22'0" - 24'0"

Ckeck the rake out

Hitching system

With the tilting and pivoting linkage, maneuvering the rake is smooth and effortless. It makes hitching the machine much easier and also improves its ground following ability, which translates into increased raking performance and quality.

KENNFIXX hydraulic handles are supplied as standard, making it easier to connect the hay rake's hydraulic couplers to the tractor's valve block. When the machine 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.

Spring relief

The hydraulic cylinder is responsible for lifting the rotors. The spring located along the cylinder stabilizes the working rotor and reduces its ground pressure.

Gearbox

The oil-filled gearbox of the rotor is quiet, durable, and low-maintenance.

The tine arm connecting rods are replaceable, which significantly simplifies the repair process as there is no need for labor-intensive disassembly of the entire gearbox.

Gearbox oil level can be quickly checked through the convenient inspection window.

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.

Gearbox swing mounting system

The gearboxes mounted on the rake have an innovative fixing system that reduces the tension of the telescopic drive shaft.

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.

Steering rod

Driving wheels are connected to the linkage with a steering rod, which forces them to turn so that the machine follows the tractor's path. This makes maneuvering much easier both during field work and road transport.

Tandem Chassis

The tandem axle with six wheels helps with even weight distribution of the rake's rotors across the ground. It also ensures more accurate ground following and makes maneuvering of the machine easier.

When working in wet conditions, there is room for additional adjustment by changing the height of the chassis attachment point.

Swath curtain

The foldable swath curtain offers several height and tilt settings, allowing you to change the width and shape of the windrow.

It also has additional reinforcing elements, which means it can handle large amounts of forage.

		TANGO 730
Working width	[m / ft]	6,70 - 7,30 / 22'00" - 24'00"
Windrow width	[m / ft]	0,80 - 1,50 / 2'7" - 4'11"
Rotor diameter with arms	[m / ft]	3,35 / 11'00"
Transport width	[m / ft]	3,00 / 9'8"
Transport height with / without arms	[m / ft]	3,99 / 13'1"
Necessary hydraulic couplers		1 x single acting 1 x double acting
Working capacity	[ha/h | ac/h]	~7,50 / 18,50
Number of arms per rotor	[pcs.]	11
Number of tines	[pcs.]	4
RPM		540
Recommended RPM		300 - 350
3-point hitch cat.		II
Power demand	[HP]	from 60
Tires (with inner tubes)		16 × 6,5–8 / 2× 350 / 55–16
Weight	[kg / lbs]	2 840 / 6 260
PTO shaft		tractor - rake: wide-angle, built-in: 1. no clutch, 2. with overrunning overload clutch
Windrow		on the right

TWIST 255, 300, 255 MAX

RAKES

The compact design of the front TWIST hay rake, which works in close proximity to the tractor, offers high efficiency on uneven and steep ground. This innovative basket rake guarantees very clean forage and protects the turf.

Machine category

- basket rakes

Model name

- TWIST 255
- TWIST 300
- TWIST 255 MAX

Working width

- 2,15 m / 7'0"
- 2,60 m / 8'6"
- 2,15 - 2,95 m / 7'05" - 9'6"

Ckeck the rake out

TWIST 255, 300, 255 MAX

E-COAT

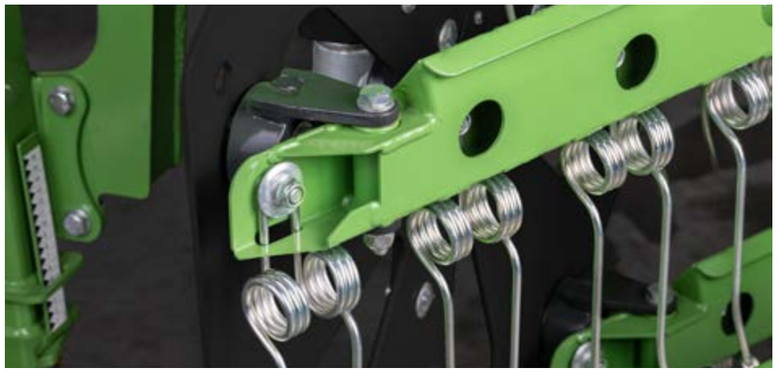
Hitching system

The modular design of the linkage means that the rake fits nearly all vehicles, including mountain machinery. The brackets can be adjusted to be compatible with the vehicles's hitch category 1 or 2. They can also connect to non-standard hitches.

KENNFIXX hydraulic handles are supplied as standard, making it easier to connect the hay rake's hydraulic couplers to the tractor's valve block.

Tine bars

The extra long bar with two additional tines significantly increases the rake's working width, while staying within the permitted transport width of 2,55 metres (8'3"). The large number of tines ensures precise forage raking, and the formed windrow remains aerated and untangled. The tine bar is complete with bearings, which reduces its power demand.



Ground following wheels

The front ground following wheel is mounted in front of the rotor to ensure optimal ground following and turf protection. This wheel can also be mounted behind the rotor to operate the machine with both wheels in the rear.

The rear ground following wheel can be mounted in two positions to facilitate its hitching to non-standard mountain machines.

Each wheel features stepless adjustment to select the required working height of the tine bar.

Linkage adapter

In addition, an adapter for the top linkage point is provided as one of the many options, which significantly increases the machine's hitching capabilities.

Wind cover

The cover minimizes the amount of crop being blown through the drive system. The cover is made of high-quality transparent plastic. It ensures excellent visibility.

Working unit

The drive drum enables quick conversion from five to six tine bars. The rake can be retrofitted with a sixth tine bar.

		TWIST 255	TWIST 300	TWIST 255 MAX
Working width	[m / ft]	2,15 / 7’0”	2,60 / 8’6”	2,15 - 2,95 / 7’05” - 9’6”
Windrow width	[m / ft]	0,80 - 1,00 / 2’7” - 3’3”	0,80 - 1,00 / 2’7” - 3’3”	0,80 - 1,3 / 2’6’’ - 4’3’’
Transport width	[m / ft]	2,55 / 8’4”	3,00 / 9’10”	2,55 / 8’37’’
Transport height	[m / ft]	1,90	1,90	1,90
Necessary hydraulic couplers		1 x double acting	1 x double acting	1 x double acting
Working capacity	[ha/h | ac/h]	2,15 / 5	3,10 / 7	4,00 / 10
Number of raking bars	[pcs.]	5 (optional 6)	5 (optional 6)	5 (optional 6)
3-point hitch cat.		I/II		
Power demand	[HP]	from 30	from 30	from 30
Tires (with inner tubes)		15 × 6,00–6	15 × 6,00–6	15 × 6,00–6
Drive type		Hydraulic	Hydraulic	Hydraulic
Pump capacity	[l/min | GPM]	30 / 7	30 / 7	30 / 7
Weight	[kg / lbs]	315 / 965	340 / 750	550 / 1 210

TWIST 600, 600P, 710P

RAKES

2-unit TWIST rakes have innovative basket rake assemblies which produce crop that is 75% cleaner compared to traditional rotary hay rakes. It can be either front or rear mounted, enabling simultaneous swath raking and baling, which accelerates the process of forage production.

Machine category

- basket rakes

Model name

- TWIST 600
- TWIST 600P
- TWIST 710P

Working width

- 6,00 m / 19’9”
- 6,00 m / 19’9”
- 6,70 - 7,10 m / 21’11” - 23’3”

Ckeck the rake out

TWIST 600, 600P, 710P

Hitching system

The linkage in TWIST models enables connecting the lower links of the tractor's front three-point hitch to either the bottom or the top slot. This allows the operator to set the machine's ground clearance. In addition, the elongated slots make it possible for the rake to closely follow the ground.

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 machine is disconnected, its hydraulic hoses are secured in dedicated holders to protect the couplings from dirt.

Tine bars

TWIST 600 and 600P rakes have 5 raking bars with a large number of raking tines. The working unit in TWIST 710P rake can be optionally retrofitted with an additional, sixth raking bar. This design ensures precise harvesting of the forage, forming an aerated and untwisted roller.

Pressing roller

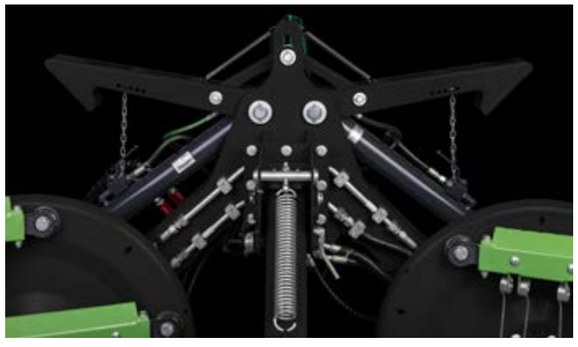
The pressing roller is a useful accessory that is available as an option. It helps to form the crop into an even windrow that fits into the clearance between the ground and the tractor's chassis. This means that the crop does not get caught by the tractor's underside.

Ground following wheel wheel

The ground following wheel features stepless adjustment to select the optimal working height of the tine bar. This solution ensures accurate ground following and turf protection.

Transport lock

The mechanical transport lock prevents any accidental unfolding of the machine in the event of failure of the hydraulic system responsible for hay rake folding. The lock significantly increases safety during transport on public roads.



Headland latch

During headland turns, once the baskets are lifted they are automatically locked in place. This prevents damaging the previously completed windrow.

Control panel

TWIST 600 rakes are available in two equipment versions. TWIST 600 has 2 pairs of hydraulic couplers and is controlled directly from the tractor. Whereas Twist 600P and Twist 710P rakes require 1 pair of hydraulic couplers and are equipped with a compact and intuitive control panel.

Support leg

With the foldable support leg the rake can be stored in an upright position, saving valuable space.

		TWIST 600	TWIST 600P	TWIST 710P
Working width	[m / ft]	6,00 / 19'9"	6,00 / 19'9"	6,70 - 7,10 / 21'11" - 23'3"
Windrow width	[m / ft]	1,30 / 4'4"	1,30 / 4'4"	0,80 - 1,30 / 2'7" - 4'4"
Transport width	[m / ft]	2,35 / 7'7"	2,35 / 7'7"	2,50 / 8'2"
Transport height	[m / ft]	3,50 / 11'5"	3,50 / 11'5"	3,40 / 11'1"
Necessary hydraulic couplers		2 x double acting	1 x double acting	1 x double acting
Working capacity	[ha/h | ac/h]	6,00 / 15,00	6,00 / 15,00	7,10 / 17
Number of raking bars per unit	[pcs.]	5	5	5 (optionally 6)
3-point hitch cat.		II	II	II
Power demand	[HP]	80	80	80
Tires (with inner tubes)		18,5 × 8,5–8	18,5 × 8,5–8	18 × 8,5 - 8 (x4)
Drive type		Hydraulic	Hydraulic	Hydraulic
Pump capacity	[l/min | GPM]	30 / 7	30 / 7	30
Weight	[kg / lbs]	900 / 1 985	900 / 1 985	1 200 / 2 200

MRG 2-900
HAY MERGER

MRG 2-900 hay merger is an innovative solution that efficiently revolutionizes the process of picking up and windrowing swath to ensure the cleanest forage. It has been designed for contractors and large farm owners. The machine stands out with its six possible working combinations to suit different working conditions and crop types. Versatility and high performance make the MRG 2-900 an excellent choice for state-of-the-art farms aiming to maximize the efficiency of their harvesting operation.

Machine category

- hay mergers
- 6 possible windrow depositions

Model name

- MRG 2-900

Working width

- 8,80 - 10,60 m / 28’10” - 34’9”

Ckeck the rake out

Hitching system

The two-point category 2 hitch with a large turning radius of +/-90° makes maneuvering the machine significantly easier, both in the field and during road transport.

KENNFIXX hydraulic handles

KENNFIXX hydraulic handles are supplied as standard. They make it easier to connect the hay rake's hydraulic couplers to the tractor's valve block. When the machine is disconnected, its hydraulic hoses are secured in dedicated holders to protect the couplings from dirt.

Hydraulic pumps

The hydraulic pumps are powered through the PTO directly from the tractor. The three separate pumps are dedicated to powering the pickup rotors and conveyor belts. This enables precise rpm adjustment of both the pickups and the RH and LH conveyor belt, depending on the needs and conditions.

Oil tank with a filter

The machine has a closed loop hydraulic system that powers the conveyor belts and pickups. The hydraulic system comes with a filter, a fluid level and temperature indicators. These make it easier to monitor and ensure optimum parameters of the hydraulic oil in the tank located in the frame of the machine.

Oil cooler

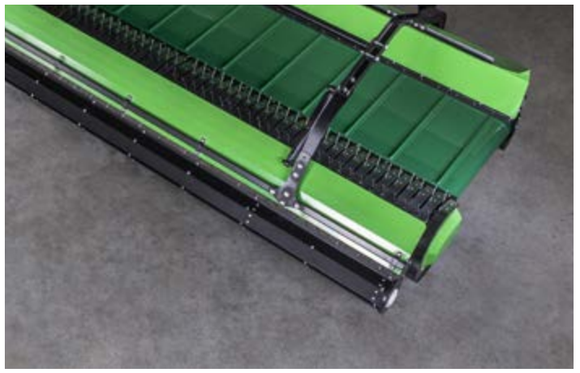
The machine's hydraulic system is equipped with an oil cooler and a thermostat. If the temperature limit is reached, the fan will start automatically, which prevents system overheating to maintain its full efficiency.

Cam-tracked pickup

The MRG hay merger has a cam-tracked pickup with six tine bars. This technology ensures precise crop collection, regardless of its length and type.

Pressing roller

This shock absorbed pressing roller with two-plane adjustment ensures that the crop is evenly spread across the conveyor belt, which helps to form a neat windrow.



Vane

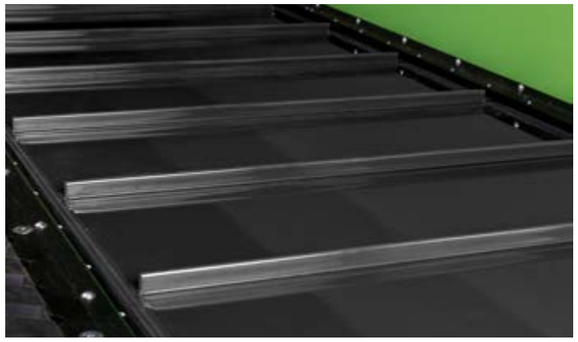
The contoured vane is used to direct the crop flow from the pickup.

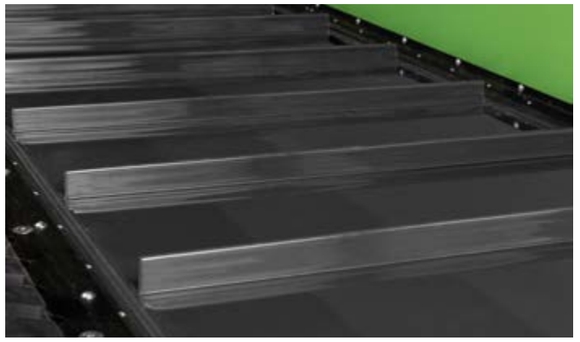
Conveyor belt

The wide conveyor belts can carry large amounts of crop.

There are three types of belts to choose from:

- Green with 20 mm (0 $^{25}/_{32}$″) cleats
  - standard
- Black with 20 mm (0 $^{25}/_{32}$″) cleats, made of material of increased roughness to improve transporting properties - option
- Black with 35 mm (1 $^{3}/_{8}$″) cleats, made of material of increased roughness to improve transporting properties - option





Conveyor belt fasteners

The conveyor belts are spliced with metal fasteners. This makes belt replacement or belt removal for maintenance much easier.

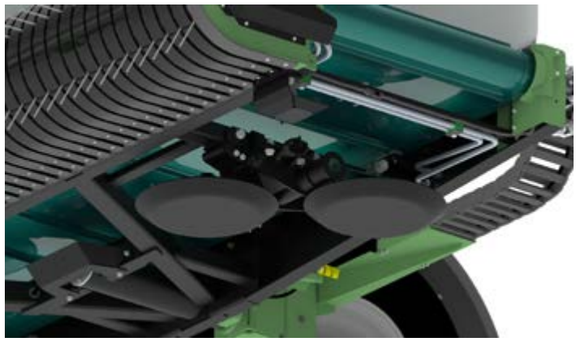
Control panel

All functions of the machine are conveniently controlled from the tractor's cab using the 7" control panel. The operator has a real time view of all key parameters of the machine, including oil temperature, current work settings, and hydropneumatic suspension settings.

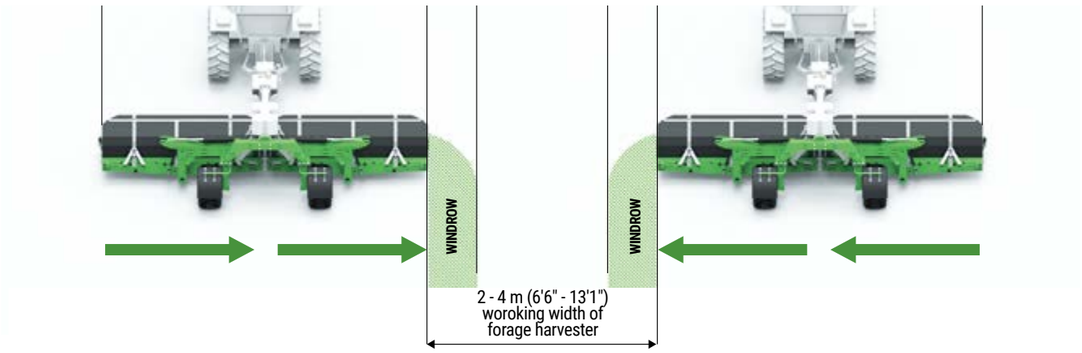
Ground following system

The MRG hay merger has eight rollers with stepless height adjustment. This guarantees optimal ground following to protect the turf and enables precise crop processing without collecting much dirt.

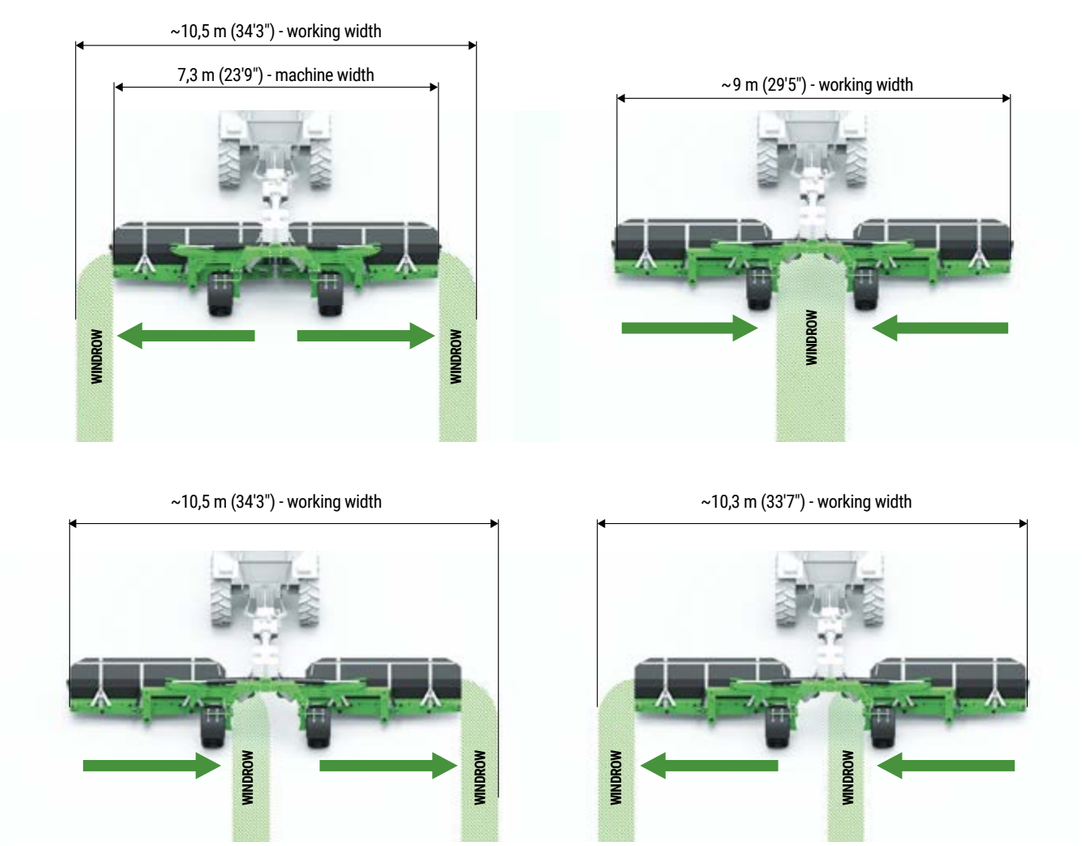
Available options include a patented system of rotating plates.



Combinations of windrow depositions for forage harvesters



Combinations of windrow depositions for balers or loader wagons

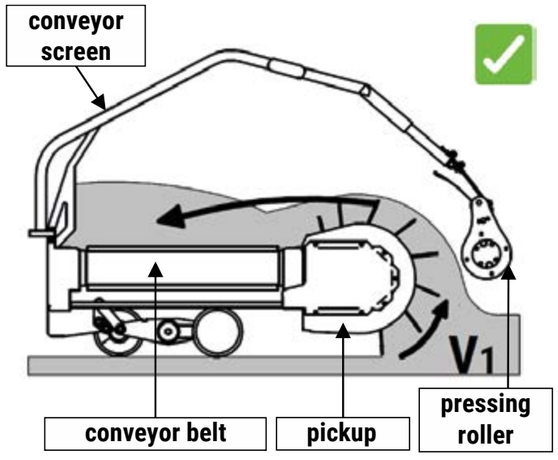


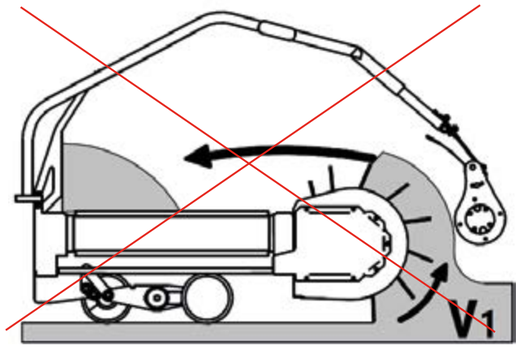
Driving wheels with fenders

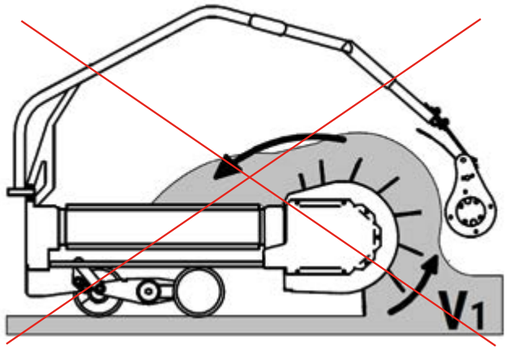
The wide driving wheels (520 / 50-17) guarantee stability and soil protection. They reduce the hey merger's ground pressure and the special tire track pattern protects the turf from damage. Perfect for precise work and safe transport. In addition, standard equipment includes mud guards, which offer protection from dirt and debris.

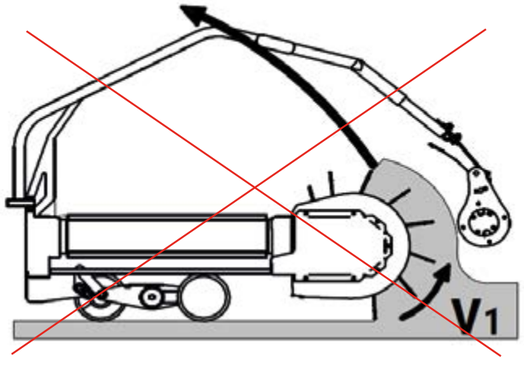
The MRG hay merger has a pneumatic brake system with a manual parking brake.

Crop discharge onto conveyor belt









TECHNICAL SPECIFICATION

		MRG 2-900
Individual pickup width	[m / ft]	3,50 / 11'5"
Working width - windrow deposited centrally	[m / ft]	8,80 / 28'10
Working width - (together with) windrow at the side	[m / ft]	from 8,80 / 28'10"
Working width - windrow centrally and at the side	[m / ft]	up to 10,60 / 34,9"
Average windrow width deposited centrally	[m / ft]	1,80 / 5'10"
Average windrow width deposited centrally and at the side	[m / ft]	1,00 - 1,80 / 3'3" - 5'10"
Possible windrow depositions		6
Number of working units	[pcs.]	2
Pickup height adjustment	[mm / in]	10-80 / 25/64" - 3 5/32"
Drive type		hydraulic
Necessary hydraulic couplers		1 pair
Pump capacity	[l/min | GPM]	30-40 / 7-10
RPM		standard 540 (optional 1000)
Transport width	[m / ft]	2,95 / 9'8"
Transport length	[m / ft]	5,60 / 18'4"
Transport height	[m / ft]	3,90 / 12'9"
Power demand	[HP]	from 110
3-point hitch cat.		II
Tires (with inner tubes)		520 / 50-17
Weight	[kg / lbs]	5 440 / 11 995

ANTI-CORROSION E-COAT PROTECTION

Cataphoretic painting (E-COAT) is used to cover elements that require coatings with significant corrosion resistance. At SaMASZ this process is carried out in a fully automated method. Each step is continuously monitored and archived, ensuring the repeatability of the process and the highest coating quality. In addition, it provides high weather resistance, corrosion protection, chemical and mechanical protection and an eye-catching design.

E-COAT technology is always individually tailored to the characteristics of the workpiece, meeting strict standards. The surface preparation, with zinc phosphating and E-COAT painting, makes it possible to cover the most complex shapes including difficult-to-reach components. The coating performed in this way ensures that the highest corrosion resistance is maintained, more than three times resistant than the standard iron phosphating method. This enables perfect surface protection on all SaMASZ machines.

ABOUT SaMASZ

Passion for work and constant searching for the best solutions are the virtues that were implemented over 40 years by the founder Antoni Stolarski together with SaMASZ employees.

Taking care of tradition based on family values, the company is among the leaders of European manufacturers of agricultural equipment. Innovative solutions in SaMASZ machines are trusted not only in Europe, but also in the whole world. Nowadays the machines are exported to around 60 countries and the dealership network consists of 29 dealers in Poland and over 70 abroad.

The main idea of SaMASZ is constant development of its products based on the customers' needs and on agricultural and municipal global market trends. High level of quality and functionality of our machines is the outcome of our Research and Development Centre's dedicated work. We hire only the most talented engineers who focus on the reseacrh and development. We also closely cooperate with technical universities and specialized institutes.

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FKAT-RAK-001

Your dealer: