



ROTARY TEDDERS

4 - rotor, 6 - rotor, 8 - rotor

ROTARY RAKES

1 - rotor, 2 - rotor, in-line rakes

BASKET RAKES

5-bars





...Clean, thoroughly aerated swath

Farm's capability of producing high quality forage is one of the crucial factors to distinct modern milk and meat production technology.

Access to top quality technical equipment, conforming to high requirements is considered to be a challenge at the designing stage.

To meet these needs, we offer top quality technological solutions, based on over 35-year experience in designing agricultural equipment. We will help to achieve your success!

Many have already trusted us. We are passionate about designing machines to meet any farmer's needs!

Electrophoretic cathode metal coating (E-COAT) - the way for a long surface life

Cataphoretic painting is used to coat elements that require coatings with significant corrosion resistance. Painting workpieces of SaMASZ machines is carried out on a fully automated line with a total length of 900 m. Each stage of the process is constantly monitored and recorded, which ensures the repeatability of the process as well as the highest quality of the coatings obtained.

The technology is always individually tailored to the characteristics of the workpiece and meets restrictive standards. Zinc phosphate surface preparation and KTL painting allow even the most complicated shapes with hard to reach workpiece slots to be covered. Such a coating guarantees the highest anti-corrosion resistance, which is more than 3 times higher than in the case of the standard iron phosphating.

This is extremely important, as it allows for a perfect surface finish. A well-equipped laboratory helps to monitor process parameters and coating quality, which translates into high resistance to weather conditions, corrosion, chemical and mechanical protection and aesthetic appearance.

Advantages:

- high quality of the coating
- $\bullet \ covering \ complex \ shapes$
- precise control of the coating thickness

Rotary rakes 2-rotor in-line rakes DUO series

Rotary rakes - basket - rakes TWIST

- corrosion protection
- chemical protection
- mechanical protection



22 - 25

26 - 27



Double acting hydraulic cylinder • synchronous unfolding of the machine even on steep slopes, · innovative design in P6-651 and P6-771 Warning plates with road lights **Mechanical transport** lock Gearbox · Oil operating gearbox low noise operation · maintenance-free use swinging for better ground following turning for easier manouvering **Damping braces** • stabilize the machine during operation **Adjustable driving chassis Gearbox cover** high range spreading angle stability on wet fields prevents grass winding

Tine arm • round profile extends tine's life • ideal ground following ensures uniform material spread Tines • made of High Dynamic spring wire • 4 coils for better flexibility • special tine-mount for greater stability • 2 approach angles Tine loss protection • prevents unexpected loss of tines

low-noise operation

machine

Oil-operating gearbox

• Cardan joints, with easy access grease points, ensure

· as part of main frame - decreased total weight of the

constant power transfer between the rotors

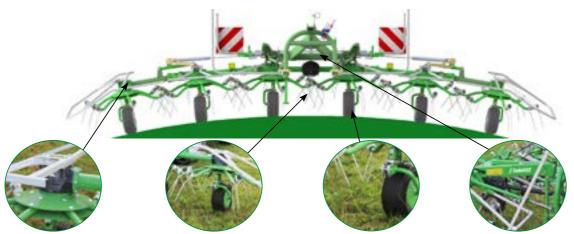


Rotary tedders

P4-471, P4-531, P6-651, P6-771, P4-471 C, P4-531 C, P6-771 C

The range of hay tedders includes eight machine models. Four rotor models are available: P4-471, P4-531, P4-471 C, P4-531 C (C-drawn version) and six-rotor models P6-651, P6-771 and P6-771 C. Thanks to their high performance, quality and solid construction, the hay tedders have an established position on the Polish market and are winning foreign mar-

kets with great success. The front support wheel is available as an accessory for even better turf protection. This solution is especially recommended for work on uneven, hilly terrain. A number of solutions that enable to harvest clean forage have been used in SaMASZ hay tedders.



Intersecting gearbox

Solid and hermetic design of all intersecting gearboxes make rotors absolutely maintenance-free. Work in oil -bath with permanent lubrication increases its longevity.

Rotors

Even layout of spread material thanks to perfect tine arms overlapping.

Wheels

Protective guard against winding the crop on the wheels and inner tubes ensure smooth and trouble-free operation.

Suspension

Suspension mechanism enables setting the machine in central position during lifting. Tension of damping braces is an additional support.

Transport

Tedder arms are lifted to transport position by means of hydraulic cylinders.

Once lifted to transport position, the machine is stabilized automatically behind the tractor.

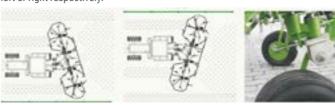


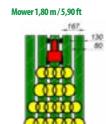


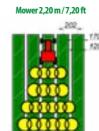
Perfect drying

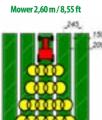
Manufacturer's advice

Close distance between wheels and tines ensures clean swath regardless of the ground unevenness. Thus enables perfect ground following, owing to which the fodder is not soiled. There is a possibility to set the wheel angle, change of which, helps when taking turns on uneven fields. Setting the angle from steep to shallow is easy to carry out, on the brackets that hold the wheel arms (pin and hole system). Better work results when working along boundaries can be achieved by turning the wheels left or right respectively.





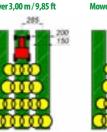


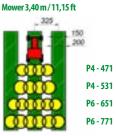


High-range spreading angle

Possibility of tedding the swaths with different thicknesses owing to regulated angle of spread.







	P4 - 471	P4 - 531	P6 - 651	P6 - 771	P4 - 471 C	P4 - 531 C	P6 - 771 C
Working width [m / ft]	4,70 / 15'5"	5,30 / 17'5"	7,00 / 22'11"	7,70 / 25'3"	4,70 / 15'5"	5,30 / 17'5"	7,70 / 25'3"
Transport width / height [m / ft]	3,00 / 2,50 9'8" / 8'2"	3,00 / 2,70 9'8" / 8'1"	3,00 / 3,60 9'8" / 11'8"	2,95 / 4,00 9'7" / 13'2"	3,00 / 2,50 9'8"/ 8'2"	3,00 / 2,70 9'8"/ 8'1"	2,95 / 4,00 9'7" / 13'2"
Number of tine arms per rotor	4	1	6	5		4	6
Necessary hydraulic couplers	1 x singl	le acting	1 x doub	le acting		1 x double acting	
Working capacity [ha/h / ac/h] Number of arms [pcs.]	~ 5,60 / 13,85	~ 6,30 / 15,55	~ 7,80 / 19,30	~9,20 / 23	~ 5,60 / 13,85	~ 6,30 / 15,55	~9,20 / 23
Number of arms [pcs.]				6			
Rotor diameter [cm / ft]	162 / 5'4"	172 / 5'8"	160 / 5'3"	172 / 5'8"	160 / 5'3"	172 / 5'8"	172 / 5'8"
RPM				540			
Hitch		1	I			drawbar	
Power demand [HP]	from 30	from 40	from 50	from 60	from 30	from 40	from 60
Tires (with inner tubes)		16 x	6,5-8			16 x 6,5-8 / 18 x 8,5 - 8	1
Weight [kg / lbs]	665 / 1470	680 / 1500	915 / 2020	945 / 2080	680 / 1500	695 / 1530	1730 / 3800



Rotary tedders

P8-890

to large farms and agricultural services companies. The machines guarantee the highest quality of work and excellent performance. The hay tedders ensure ground and effectively pick up the forage between PTO shaft. the rotors. They are also suitable for wetlands. Pro-

The P8 series hay tedders are perfect for medium perly designed tines eliminate the risk of sticking into the ground during operation, which ensures that the forage is not dirty and maintains high-quality. The P8 series hay tedders are easy to operaan even spread of green matter, which means that te, thanks to bolt couplings that allow the machine the cuttings dry evenly. They perfectly target the to be folded down without having to switch off the

Standard equipment P8-890:

- · solid grease gearbox tine loss protection
- hydraulic folding
- adjustable angle of spread
- lifting curtain
- · adjustable wheel position allows to work on field boundary
- warning plates
- · road lights
- PTO shaft
- · KENNFIX hydraulic connector

Additional equipment:

- swath curtain

· ground following wheel

- · headland position



High-quality of tedding

Advantages:

- greater rotor tilt shortens the trajectory and increases the angle of spread so that the forage is turned on the other side to dry
- · adjustable traction drive ensures machine stability and a wide range of forage
- sliding and torsional hook, supported by stabilizing shock absorbers, increases the ground targeting range and facilitates manoeuvring
- · quiet operation, hermetically sealed lubricating grease gearboxes are maintenance-free and provide excellent protection against grass winding
- the unique design of the protective railings forming the truss provides resistance to impact and contact with obstacles
- · hydraulically foldable tarpaulin prevents the forage from being thrown away when working at the edge of the field
- the rotor lift lock at the headlands makes it easier to manoeuvre the machine and ensures that the swath is passed through without destroying its structure

		P8 - 890
	Working width [m / ft]	8,90 / 29'2"
Tra	ansport width / height [m / ft]	3,00 / 9'10" 3,80 / 12'5"
Nu	ımber of tine arms per rotor	8
	ecessary hydraulic couplers	1 x double acting
DECHNICAL DETAILS	orking capacity [ha/h / ac/h]	~ 10,60 / 13,85
	Number of arms [pcs.]	6
, AL	Rotor diameter [cm / ft]	160 / 5'2"
	RPM	540
	Hitch	
	Power demand [HP]	from 60
	Tires (with inner tubes)	18x8,5-8 (central wheels) / 16x6,5-8 (side wheels)
	Weight [kg / lbs]	1320 / 2910



Light-weight and simple in maintenance

1 - rotor rake

Z-300, Z-301, Z-350, Z-351, Z-410, Z-440, Z-470

Rotary rakes Z - series are made for middle and small farms, with working widths from 3,00 m up to 4,70 m (9'10" up to 15'5").

Shock absorbtion

Damping braces, on both sides, as standard equipment in Z - 410, Z - 440 and Z - 470. During lifting and transport, dampers ensure position and stability of the unit.





Oil operating gearbox

- quick connecting rod replacement, allows for easy exchange of faulty part without taking the whole gearbox and machine apart
- · low-noise operation
- constant lubrication

Transport

1-rotor rake is easy to transport and when stored occupies small area owing to the removable rake's arms.





Advatages of Z - 410, Z - 440, Z - 470 rakes

SaMASZ rotary rakes are characterized by unique design solutions:

- Gearbox is permanently lubricated, works in oil-bath high durability.
- Tine arms secured in working arms with two linchpins picture 1 and 2.
- Height adjustment of working unit regulated in two different ways:
 with winding handle
 - by changing the wheel axle mounting

As standard the chassis height is set for–16 cm (6 1/3"). When work is to be done on soft peat fields, the chassis hight needs to be increased. Wheel axle must be turned around 180o, this will give additional 5 cm (2") of height from the ground. Wheel axle regulation is important, because it increases durability of gearbox' lower socket.









Chassis

Not every field is even and smooth, in order to get regular and clean windrow, a perfect ground following system is indispensable. Z-410, Z-440 and Z-470 rakes are equipped with tandem chassis as standard. Z-300, Z-301 and Z-350, Z-351 can have it on customers request.

Tine arms

Tine arms are easy to dismount and place in its transport pockets. Rised swath curtains reduce transport and storage width.

Norking width [m / ft] 3,00 / 9'10" 3,00 / 9'10" 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" Transport width [m] 2,60 / 8'7" 2,60 / 8'7" 2,80 / 9'2" 3,30 / 10'10" 3,60 / 11'8" 3,80 / 12'8" Transport width without arms [m] 1,80 / 5'11" 1,90 / 6'3" 2,10 / 6'11" 2,30 / 7'7" Working capacity [ha/h / ac/h] ~ 3,00 / 7,40 ~ 3,00 / 7,40 ~ 3,50 / 8,70 ~ 4,50 / 11,00 ~ 5,00 / 12,35 ~ 5,60 / 14,00 Number of arms [pcs.] 8 8 9 9 11 13 13 3,60 / 11'8" 3,80 / 12'8" Number of times [pcs./arm] 3 2,60 / 8'7" 2,80 / 9'2" 2,80 / 9'2" 3,30 / 10'10" 3,60 / 11'8" 3,80 / 12'8" Hitch II 540 II From 20 from 20 from 25 from 25 from 40 from 45 from 50 Tires (with inner tubes) 15 x 6,0 - 6 16 x 6,5 - 8 820 / 1810 Weight [kg / lbs] 310 / 685 390 / 860 340 / 750 420 / 925 590 / 1300 750 / 1655 820 / 1810		Z - 300	Z - 301*	Z - 350	Z - 351*	Z - 410	Z - 440	Z - 470
Transport width [m] 2,60 / 87" 2,60 / 87" 2,80 / 9'2" 2,80 / 9'2" 3,30 / 10'10" 3,60 / 11'8" 3,80 / 12'8" Transport width without arms [m] 1,80 / 5'11" 1,90 / 6'3" 2,10 / 6'11" 2,30 / 77" Working capacity [ha/h / ac/h] ~ 3,00 / 7,40 ~ 3,50 / 8,70 ~ 3,50 / 8,70 ~ 4,50 / 11,00 ~ 5,00 / 12,35 ~ 5,60 / 14,00 Number of arms [pcs.] 8 8 9 9 11 13 Rotor diameter with arms [m] 2,60 / 8'7" 2,65 / 8'8" 2,80 / 9'2" 3,30 / 10'10" 3,60 / 11'8" 3,80 / 12'8" Number of tines [pcs./arm] 3 4 4 540 11 19,00 / 12'8" 10 10'10" 3,60 / 11'8" 3,80 / 12'8" 10'10" 3,60 / 11'8" 3,80 / 12'8" 10'10" 3,60 / 11'8" 3,80 / 12'8" 10'10" 3,60 / 11'8" 3,80 / 12'8" 10'10" 3,60 / 11'8" 3,80 / 12'8" 10'10" 3,60 / 11'8" 3,80 / 12'8" 10'10" 3,60 / 11'8" 3,80 / 12'8" 10'10" 10'10" 3,60 / 11'8" 10'10" 10'10" 10'10"	Working width [m / ft]	3,00 / 9'10"	3,00 / 9'10"	3,50 / 11'6'	3,50 / 11'6'	4,10 / 13'5"	4,40 / 14'5"	4,70 / 15'5"
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Working capacity [ha/h / ac/h] ~ 3,00 / 7,40 ~ 3,50 / 8,70 ~ 3,50 / 8,70 ~ 4,50 / 11,00 ~ 5,00 / 12,35 ~ 5,60 / 14,00 Number of arms [pcs.] 8 8 9 9 11 13 Rotor diameter with arms [m] 2,60 / 8'7" 2,65 / 8'8" 2,80 / 9'2" 2,80 / 9'2" 3,30 / 10'10" 3,60 / 11'8" 3,80 / 12'8" Number of times [pcs./arm] 3 4 <th>Transport width [m]</th> <td>2,60 / 8'7"</td> <td>2,60 / 8'7"</td> <td>2,80 / 9'2"</td> <td>2,80 / 9'2"</td> <td>3,30 / 10'10"</td> <td>3,60/ 11'8"</td> <td>3,80 / 12'8"</td>	Transport width [m]	2,60 / 8'7"	2,60 / 8'7"	2,80 / 9'2"	2,80 / 9'2"	3,30 / 10'10"	3,60/ 11'8"	3,80 / 12'8"
Number of arms [pcs.] 8 8 9 9 11 13 Rotor diameter with arms [m] 2,60 / 8'7" 2,65 / 8'8" 2,80 / 9'2" 2,80 / 9'2" 3,30 / 10'10" 3,60 / 11'8" 3,80 / 12'8" Number of times [pcs./arm] 3 4 RPM**	Transport width without arms [m]		1,80 /	5'11"		1,90 / 6'3"	2,10 / 6'11"	2,30 / 7'7"
Rotor diameter with arms [m] 2,60 / 8'7" 2,65 / 8'8" 2,80 / 9'2" 2,80 / 9'2" 3,30 / 10'10" 3,60 / 11'8" 3,80 / 12'8"	Working capacity [ha/h / ac/h]	~ 3,00 / 7,40	~ 3,00 / 7,40	~ 3,50 / 8,70	~ 3,50 / 8,70	~ 4,50 / 11,00	~5,00 / 12,35	~ 5,60 / 14,00
Number of tines [pcs./arm] 3 4 RPM** 540 540 Hitch II Fower demand [HP] from 20 from 25 from 25 from 40 from 45 from 50 Tires (with inner tubes) 15 x 6,0 - 6 16 x 6,5 - 8 16 x 6,5 - 8 Weight [kg / lbs] 310 / 685 390 / 860 340 / 750 420 / 925 590 / 1300 750 / 1655 820 / 1810	Number of arms [pcs.]	8	8	9	9	11		13
RPM** 540 Hitch II Power demand [HP] from 20 from 25 from 25 from 40 from 45 from 50 Tires (with inner tubes) 15 x 6,0 - 6 16 x 6,5 - 8 16 x 6,5 - 8 820 / 1810	Rotor diameter with arms [m]	2,60 / 8'7"	2,65 / 8'8"	2,80 / 9'2"	2,80 / 9'2"	3,30 / 10'10"	3,60 / 11'8"	3,80 / 12'8"
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Power demand [HP] from 20 from 25 from 25 from 40 from 45 from 50 Tires (with inner tubes) 15 x 6,0 - 6 16 x 6,5 - 8 16 x 6,5 - 8 820 / 1810	RPM**	540						
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Weight [kg / lbs] 310 / 685 390 / 860 340 / 750 420 / 925 590 / 1300 750 / 1655 820 / 1810	Power demand [HP]	from 20	from 20	from 25	from 25	from 40	from 45	from 50
	Tires (with inner tubes)	15 x 6,0 - 6 16 x 6,5 - 8			16 x 6,5 - 8			
PTO shaft tractor - rake: with overload clutch	Weight [kg / lbs]	310 / 685	390 / 860	340 / 750	420 / 925	590 / 1300	750 / 1655	820 / 1810
	PTO shaft	tractor - rake: with overload clutch						



** Recommended drive speed during operation 350 - 450 rpm



Headstock

Swinging hitch eases operation on uneven fields and during turns. Front support wheel improves ground following and is available as an optional equipment. (Z - 470 as standard).



1 - rotor rake

Z - 300 SLIM, Z - 350 SLIM

The 1-rotor Z-300 Slim and Z-350 Slim rakes were rotary gearbox for accurate raking. Machine designed for owners of small farms of up to 50 ha. The rake is an economical version of the popular Z-300 and Z-350 models equipped with a 9-arm

provides a regular windrow, without grass twists, allowing for easy harvesting, e.g. with a baler.

Oil operating gearbox Height adjustment crank Design · quiet operation · light and simple stepless working · maintenance-free use · ideal to small tractors height adjustment · low power demand Windrow curtain foldable **Drive unit (option)** windrow width adjustment • turnable · better tractor following

· protection of the turf against damage during

turning with the lowered machine

Functional and economical

Advantages:

Slim type of rake is an economical version of the popular Z series with a 9-arm rotary gearbox for accurate raking and high-quality forage.

- 360° caster wheels, adjustable rake height and swath width for precise raking
- PTO shaft with overload clutch protects driving components against damage
- the standard 2-wheel trolley, which can optionally be replaced by a tandem traction drive, it ensures perfect ground tracking and improves raking accuracy
- front support wheel allows better ground following and protects the machine
- removable rake arms, foldable safety barriers and small width for easy transport on public roads
- protection against tine loss
- reflective warning plates together with LED road lighting ensure safety on

Standard equipment:

- · oil operating gearbox
- · turned drive unit
- · windrow width regulation
- · raking height adjustment
- tine loss protection
- PTO shaft

Additional equipment:

- tandem chassis
- front support wheel
- warning plates with LED lights



Ground following wheel



Warning plates with LED lights

	Z - 300 Slim	Z - 350 Slim
Working width [m / ft]	3,0 / 9'10"	3,5 / 11'6"
Transport width [m]	2,96 / 9'8"	2,3 / 7'6" (with dismounted arms)
Number of tine arms per rotor	4	8
Necessary hydraulic couplers	1 x single acting	1 x double acting
Working capacity [ha/h / ac/h]	~ 5,60 / 14	~ 7,80 / 19
Working capacity [ha/h / ac/h] Number of arms [pcs.] Rotor diameter [cm / ft] RPM Hitch		6
Rotor diameter [cm / ft]	160	160
RPM	5	40
Hitch		II
Power demand [HP]	from 30	from 50
Tires (with inner tubes)	16 x	6,5-8
Weight [kg / lbs]	280	320
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Trailed 1-rotor rake

UNO 410, UNO 440, UNO 470

Trailed 1-rotor rakes UNO 410 and UNO 470 are very efficient, especially designed for raking grass, hay or straw. Owing to low power consumption are very economical and also resistant to difficult working conditions. Rake forms a regular, continuous windrow, without grass twists, which allows fast drying

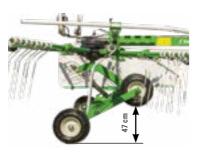


	Working width [m / ft]	4,10 / 13'5"	4,40 / 14'5"	4,70 / 15'5"	
	Windrow width [m / ft]	0,80	0,80 - 1,50 / 2'7" - 4'11"		
	Transport width [m]	3,30 / 10'10"	3,60 / 11'8"	3,80 / 12'8"	
_	Transport width without arms [m]	1,80 / 5'11"	2,35 / 7'8"	2,35 / 7'8"	
(0	Necessary hydraulic couplers		1 x single acting		
A H	Working capacity [ha/h / ac/h]	~ 4,50 /11,00	~ 5,00 /13,00	~ 5,60 /13,85	
冒	Number of arms [pcs.]	1	1	13	
ZAL SAL	Rotor diameter with arms [m]	3,30 / 10'10"	3,60 / 11'8"	3,80 / 12'8"	
TECHNICAL DETAILS	Number of tines [pcs./arm]		4		
월	RPM*		540		
	Hitch		drawbar		
	Power demand [HP]	from 35	from 40	from 45	
	Tires (with inner tubes)	16 x 6	5,5 - 8	18 x 8,5 - 8	
	Weight [kg / lbs]	740 / 1630	870 / 1920	890 / 1960	

and easy pick up with the use of a baler or self-collecting trailer. UNO rakes feature innovative height adjustment mechanism, which also lifts the machine to transport position and allows for ideal working height tune-up.

Advantages:

- tandem steering system
- new tine shape
- height adjustment
- facilitated drive over the swath
- aggregating with smaller tractors is possible



Thanks to running gear lifting, rotor is rised well above the ground (47 cm / 18 1/2"), and leaves the swath intact. Rake can be driven safely on uneven grounds, without the risk of any damage exposure.

Transport

Innovative steering system, based on solutions from DUO rake, facilitates the transport of the machine and provides comfortable transition from working to transport position.



2-rotor rake

TANGO 730 - one or two swath rows

Combines functionality of Z2-780 and DUO 680, making 1 or 2 swath rows. Setting carousels near the central drawbar results in single row delivery, extending them outside makes two rows. New generation, 11-arm gearbox with strenghtened,

connecting-rods has been applied. Additionally, the rake has a patented "gearbox angle changing mechanism", which provides protection to drive shafts when lifting the machine to transport position.







Transport

TANGO 730 is hydraulically folded-up for the transport, it facilitates driving on public roads. Transport width doesn't exceed 3,00 m / 9'10".

^{*} Recommended rpm during work - 350 - 450 rpm



1 or 2 windrows

Rotary rakes 2-rotor

TANGO 730 - one or two swath rows



e l	TANGO 730 (💜
•	TANGO 750
king width [m / ft]	5,70 - 7,30 / 22' - 24'
nsport width / height [m / ft] 3,0	00 / 3,90 9'8" / 12'1"
drow width [m / ft] 0,8	80 - 1,50 / 2'7" - 4'11"
nber of tine arms per rotor	11
nber of tine arms [pcs.]	4
king capacity [ha/h / ac/h]	5,60 - 7,50 /~ 13,85
king capacity [na/n / ac/n]	- 18,50
/ *	540
ver demand [HP]	from 60
or tires / Drive tires	6 x 6,5-8 / 340/55-16
drow presentation	on the right
ght [kg / lbs]	2450 / 5400

^{*} Recommended drive speed during operation 300 - 350 rpm



Gearbox used in TANGO 730 rake

Standard equipment:

- hydraulic fold-up
- tine loss protection
- hydraulic swath width adjustment
- 1 or 2 windrow presentation
- swinging hitch
- lifting hight stopper
- working height adjustment
- hydraulic swath curtain lifting system on headlands
- swath curtains
- road lights
- tandem chassis

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2 - rotor center delivery rakes

Z2-780, **Z2-840** - one central swath

The highest quality forage

Two-rotor rakes features high quality of harvest. to rake up green fodder from 7.2 up to 7.6 m (23'7"-25') Z 2 -840 from 7,6 up to provides cleaner raking. Z 2 - 780 model is able 8,4 m (25' - 27'7").

25t. to rake up green fodder from 7.2 up to 5.5 m 7.6 m (23'7"-25') Z 2 -840 from 7,6 up to 6.6 lble 8,4 m (25' - 27'7").



Stopper

Stopper limits the carousel lifting height is particularly useful when turning on headlands.

Tines

Developed design for even more uniform tedding. Efficient and smooth operation even when working on heavier windrow.

Wheels For maximu

For maximum stability and protection of the ground against excess pressure. Ensure maintaining constant distance between tines and the ground. Allow for performing works efficiently under any ground and weather conditions.

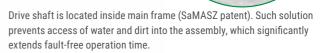
Gearbox

The gear with extended connecting rods to provide longer fault-free operation period. Z2-840 has the gear with bolted connecting rod bodies.



Hydraulic fold-up mechanism

Hydraulic carousel fold--up. Support springs assistance with reduced ground pressure.



Headstock

Driveshaft

Machine features forced steering for superior tracking around bends. The system consists of a tie rod, which is attached to the headstock.



Turning on headland

Thanks to hydraulic rotor lifting mechanism and rotor hight stopper, turning on headland leaves the swath intact.



Rake carousels are hydraulically lifted to transport position, main frame is strong and durable Its enables to drive on public roads. Working width does not exceed 2,9 m / 9'6".







Working width adjustment

Manual working width adjustment mechanism. (standard in Z2-780).



Hydraulic working width adjustment mechanism. (standard in Z2-840).



Working height adjustment

Manual working height adjustment - using a crank.



Z 2-840 main differences when compared to Z2-780

- size increase
- no manual raking width adjustment, the adjustment is done only by means of hydraulic cylinders
- castor wheel chassis
- improved transverse ground following (+/- 8°)
- · gearboxes with quick rod replacement feature
- modernized swath curtain fold-up systemadditional width indicator
- modified working guide assemblies

Fig. A. Variable working width within 7.20 and 7.60 m (23'7"-25'), Z2-840 (7,60 - 8,40 / 25' - 27'7") range. Adjustment is possible only in transport position by inserting a pin.

Fig. B. Facilitated maneuvering owing to forced steering system. A simple mechanism transmits hitch torsion onto rear wheels' tie rod.

Two dimmensional ground following

Each rotor uses three tandem chassis. Longitudinal and transverse ground following mechanism ensures perfect ground following and results in very clean fodder or hay harvest. Other advantages of Z2-780 rakes are the same as for Z 410 rakes - see page 7.

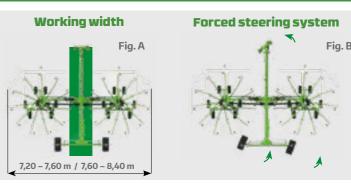
Z2-780 rakes is a bright exception in the class of rakes with widths up to 7.6 m (25') as compared with other manufacturers. Main features are not only transverse and longitudinal ground following, but also a triple tandem running gear per single rotor.



Z2-780: a-5°, b-5°, c-15°, d-5°

HAM

Z2-840: a-8°, b-6°, c-25°, d-8°

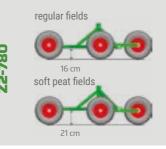


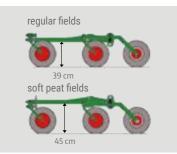
Туре	Z2 - 780 😢	Z2 - 840 🥶	
Working width [m / ft]	7,20 - 7,60 / 23′7" - 24'11"	7,60 - 8,40 / 24'11"-27'7"	
Windrow width [m / ft]	1,50 - 2,00 / 4'11" - 6'7"	1,20 - 2,00 / 3'11"-6'7"	
Transport width / height [m / ft]	2,90 / 3,00 9'6" / 9'10"	3,00 / 3,75 9'8"/ 12'3"	
Number of arms per rotor [pcs.]	11	11	
Number of dismountable arms per rotor for transport [pcs.]	4	4	
Working capacity [ha/h / ac/h]	~ 8,00 / 20,00	~ 9,00 / 22,00	
RPM*	540	540	
Power demand [HP]	from 60	from 80	
Tires	16 x 6,5-8 / 340/55-16		
Weight [kg / lbs]	2040 / 4500	2330 / 5130	

^{*} Recommended drive speed during operation 350 - 450 rpm

Running gear height regulation

Additional height increase can be done by turning wheel axle around (180°). It enables comfortable work on soft peat fields.









2-rotor in-line rakes

DUO 680, DUO 740 - one or two swath rows

ticularly recommended for those who seek very eftwo swath rows, also allowing hydraulic adjustment approx. 12 m / 39'4" (single large row after 2 runs).

2-rotor rotary rakes DUO 680 and DUO 740 are par- of working width and therefore, windrow width by main frame tilting. Recommended for middle-sized ficient solutions. Machine is able to lay either one or and large farms. Maximum width of raked swath is

when operating on headland bear large loads. **Hydraulic latch** Provides traction and stabi lity of rear working unit. **Road lights** Gearbox **Standard-delivered PTO Support wheel** Wheels Provide safty on public roads. Solid, enclosed design. Oil-bath operation. shaft Constant lubrication ensures their long, faul-Provides following of any Wide tires 18 x 8,5-8 with possibilitless work time. ty of twin wheel attachement. ground unevenness.



Lifting mechanism

Thanks to the lifting mechanism, unit is rised well above the ground (47 cm / 18 1/2" clearance), and leaves the swath intact. Rake can be driven safely on uneven grounds, without the risk of any damage exposure.



Strong main frame drawbar

Square-profiled main

frame drawbar is able to



Transport

Front swath curtain

Useful when making two swath

rows - hydraulically folded away

Quick drive from field to field is not a problem. To support it warning plates and position lights have been applied. As rotor's diameter is 3 m / 9'10" (DUO 680), dismounting rotor arms is not always necessary. For longer drives on roads with bigger traffic it is more comfortable to have these dismounted.

Crank handle

drawbar height - as

Used for adjusting front

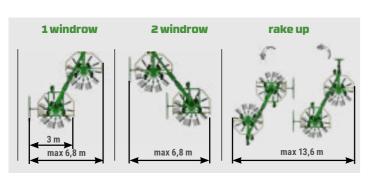


2-rotor in-line rakes

DUO 680, DUO 740 - one or two swath rows

Advantages:

- 1. When transported rear unit is behind the front one (in-line rake)
- 2. 2 transport widths possible:
 - with tine arms 3 m / 9'10"
 - w/o tine arms 2,4 m, / 7'11" (w/o warning plates -1,8 m / 5'11")
- 3. Lower weight and compact size as compared to other 2-rotor center delivery rakes
- 4. Innovative height adjustment mechanism, which also lifts the machine to transport position and allows for ideal working height tune-up 47 cm / 18 1/2" ground clarance
- 5. 2 double action hydraulic couplers to control rear working unit + 1 single action coupler for transport rise
- 6. Double tandem running gear, baloon-type wheels (18 x 8,5-8) as well as their close position to tine arms provide perfect ground following and very clean raking



0,8 m

Raking up to already deposited crop

Variable raking width

(see drawing) with sparse material multiple of a single windrow - 6.8 m (22'4").



Easy manouvering:

Large turn angle and clearance allows for problem-free drive over lying material.

Innovative design



Transverse A) and Longitudinal B) ground following mechanism allows for independent rotor adjustment. Two support wheels and two independent rotors, provide perfect ground following and very precise raking, even with high working speed.





Innovative chassis design

Patented height adjustment mechanism, which also lifts the machine to transport position and allows for ideal working height tune-up.

Tandem suspension

Tandem axle, 4 wheels and wide tires, allowed for ground pressure reduction, which is important on soft grounds such as peat fields. Minor ground obstacles (e.g. stones) are leveled by movable trolley wheels.

	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"		
Diameter of rotor with arms [m /	ft] 3,00 / 9'10"		3,30 / 10'10"		
Transport width / height [m / fi	3,00 / 2,00 9'8"/ 6'7"		3,30 / 2,00 9'8"/ 6'7"		
Number of arms per rotor [pcs.] RPM		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			
RPM		540			
Hitch		II			
Power demand [HP]		from 60			
Tires (with inner tubes)		18 x 8,5 - 8			
Weight [kg / lbs]	1720 / 3790		2050 / 4520		



TWIST 600 is a center delivery rake designed for a fast, efficient and clean raking of forage. It can be mounted to the front or rear of the tractor. With front mounting, you can simultaneously rake and work, e.g. with a baler. The rake consists of two

Swing arm

bearing life.

Ensures smooth operation of

the system, which prolongs

working systems driven by tractor's hydraulics using hydraulic motors. The machine does not need the tractor's PTO shaft for operation. The rake has low weight in comparison to its extensive working width.

The rake has low weight in comparison to its extensive working width.

Safety mechanism

machine protection during transport

Hydraulic cylinders

The rake arms are folded in and out to/from the transport position using hydraulic cylinders.

Туре	TWIST 600	TWIST 600 P
Working width [m / ft]	6,00 / 19'9"	6,00 / 19'9"
Windrow width [m / ft]	1,30 / 4'4"	1,30 / 4'4"
Transport width / height [m / ft]	2,35 / 3,50 - 7'7" / 11'5"	2,35 / 3,50 - 7'7" / 11'5"
Necessary hydraulic couplers	2 x double acting	1 x double acting
Working drums [pcs.]	2	2
Raking bar [pcs.]	10	10
Tines [pcs.]	18	18
Working capacity [ha/h / ac/h]	~ 6,00 / 15,00	~ 6,00 / 15,00
Drive type	hydraulic	hydraulic
Pump capacity [GPM]	7	7
Nominal pressure [bar / MPa]	160 / 16	160 / 16
Hitch	II	II
Power demand [HP]	from 80	from 80
Wheels	15 x 6,5	15 x 6,5
Weight [kg / lbs]	770	770

Foldable support leg

provides stability of the folded machine during storage

Transport

The rake is folded and unfolded to/from the transport position using hydraulic cylinders.



Rake tines

Flexible rake tines ensure long and trouble-free operation and the highest forage purity.

Ground following wheels

- turf protection,
- · accurate ground following,
- stepless adjustment

Standard equipment:

Hydraulic drive with rotation speed regulation • Regulation of working height • Foldable support leg • Mechanical transport lock • Adjustable ground following wheels • KENNFIX hydraulic connector

Additional equipment:

- Rear mounting drawbar
- Warning plates and LED road lights
- Rear hitch support wheel
- Anti-wrap protection
- Swath roller
- Wind covers
- EURO adapter cat. II



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Passion for work and constant search for the best solutions are ideas that have guided us from the beginning and have become the key to success.

The main factors contributing to the dynamic development of the company are close contact with the client and openness to his needs. It is through partnership dialogue with our current and future customers, meeting their expectations and needs, that we create and strengthen the foundations for dynamic development.

With the goal of continuous development, we invest in research and development. We employ the most talented university graduates who are not only experts in their fields, but also bring professionalism and passion to what they do. You can always count on their competence and reliability.

Today SaMASZ is a leader in Poland and one of the leading European producers of green forage machines. Our offer includes over 300 types of different machines: disc mowers, tedders, rakes, mixer feeders, flail mowers, extension arms, snow plows and sweepers.

Your dealer:









Production is currently carried out in Zabłudów (Podlaskie Voivodeship), in a new factory, launched in 2018, employing over 800 people. SaMASZ dynamically develops export sales. About 65% of the company's production goes to over 50 countries around the world. The company's foreign branches are: SaMASZ Russia, SaMASZ North America LLC, SaMASZ BVBA Belgium - the Netherlands. The TOP 10 largest foreign markets are Germany, Russia, the United States, Canada, France, Ireland, Latvia, Italy, Australia, the Netherlands and Switzerland. Machines with the SaMASZ logo work on the meadows of Africa and South America. China, Japan, Australia and New Zealand.

Our main goal is to constantly modernize and improve the design of our machines and to implement the highest technological achievements into the production processes in order to achieve world-class quality. We realize that in the face of changes taking place in the modern world, customers are looking for trustworthy business partners, which is why we have the ambition to be perceived as a recognized, reliable and professional manufacturer.

