



DRUM AND DISC MOWERS

**REAR, FRONT, TRAILED
DOUBLE-SIDED AND COMBINATIONS**





35 years of experience



The fodder made of grass is one of the best and at the same time the cheapest nourishment for livestock. By using the proper equipment it is possible to reach the swath, which can be easily processed to very nutritious fodder for cows.

SaMASZ agricultural machines are the guarantee of reaching the most valuable fodder from the mowed area. The solutions used in our machines have been developed by SaMASZ engineers for more than 35 years. For a long time they have been one of the most desired equipment, sought all over the world, because owing to them the fodder will suffice for longer time. It happens, because we have developed the whole technological process of harvest in the slightest detail.

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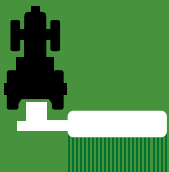
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Rear 2-drum mowers

Z 010, Z 010/1, Z 010/2



Economy and precision of mowing...

Drum mowers 1,65 m (5'5") to 2,10 m (6'11") have solid design and are very durable. Tough, resistant gearbox is the most essential part of all our mowers.

Special mowing drums transport cut material and lay it down into a smooth swath.



Z 010



Z 010/1H

Advantages:

- Genius invention of 20th century - cuts perfectly either lying grass or very high sedge - cane,
- Factory set 5,8 cm (2") cutting height, regulated by distance rings,
- DLG Signum Test,
- Solid and tough design,
- Idling running:
 - on PTO shaft (Z 010/2)
 - on pulley (Z 010 and Z 010/1),
- Safety breakaway device,
- Additional knives and mounting lever,
- Ideally fitted to the ground and even working height,
- Safety breakaway device spring with adjustable deflection,
- Quick and easy knife replacement,
- Standard-delivered PTO shaft with holder,
- Low noise and stable operation,
- PTO 540 rpm,
- Adjustable lower pins,
- Solid metal guard with cover,
- Hydraulic lifting system (option).

Thanks to hydraulic lifting (optional equipment), mower can be easily transported at the rear or side of the tractor.



Z 010/2

View without safety guards

Mowing drum section overview

Bevel gears
• low-noise and stable operation

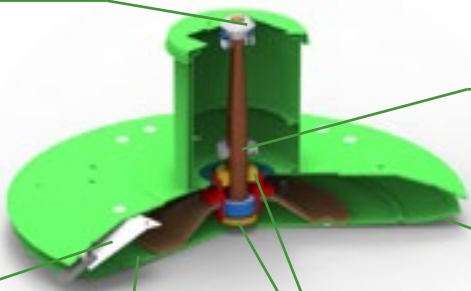
Blade holder and blades
straight blade:
- Z 064 and Z 064/3 - 96 mm / 4",
made of hardened steel
• quick blade replacement
• additional blade holder mounting holes

Vertical drive shaft
• made of high-class steel
• supported in 5 bearing points
- high stability even in most demanding conditions

Sliding disc
• strong and durable design - 5 mm / 0.2" thick
• made of wear and abrasion resistant steel

Cutting height adjustment
• with distance rings

2 double-row ball bearings
• durability and extended life



Typ	Working width [m / ft]	Swath width [m / ft]	Working capacity [ha/h / ac/h]	Number of knives [pcs.]	Power demand [HP]	RPM	Dimensions w / l / h [ft]	Weight [kg / lbs]
Z 010	1,65 / 5'5"	0,70 / 2'4"	~ 1,50 / 3,7	6	from 40	540	11,00 / 5,00 / 3,80	400 / 880
Z 010/1	1,85 / 6'1"	0,80 / 2'7"	~ 2,00 / 5		from 60		12,20 / 5,30 / 3,35	455 / 1005
Z 010/2	2,10 / 6'11"	0,90 / 2'11"	~ 2,50 / 6,2	8	from 70		13,45 / 5,75 / 3,50	555 / 1225



Front 4-drum mowers

K4BF 265, K4BF 300

Front drum mowers are characterized by perfect ground following, thanks to suspension with support springs. Mower is transported with side covers uplifted. Thanks to this, the transport width is re-

duced significantly, which then provides a problem-free drive. Combination of front and rear mower, allows to obtain working width up to 6 m (20'), which greatly improves work efficiency.



K4BF 265

Advantages:

- High capacity – even in tough conditions,
- Lifted side safety guard,
- Factory set working height at 5,8 cm (2 1/3") regulated by distance rings (8 mm (1/3")),
- Ideally fitted to the ground and even working height,
- Perfect in combination with disc and drum mowers,
- Limit chains with rubber safety bumpers,
- Set of hydraulic cylinders in standard equipment
- Double support springs,
- Tractor's triangle cat. II in standard equipment,
- Stone tested safety guards (PN-EN ISO 4254-12),
- PTO shaft with overrunning friction clutch in standard equipment,
- Adjustable mowing height,
- Quick and easy knife replacement,
- Solid and tough design,
- Silent and stable operation.

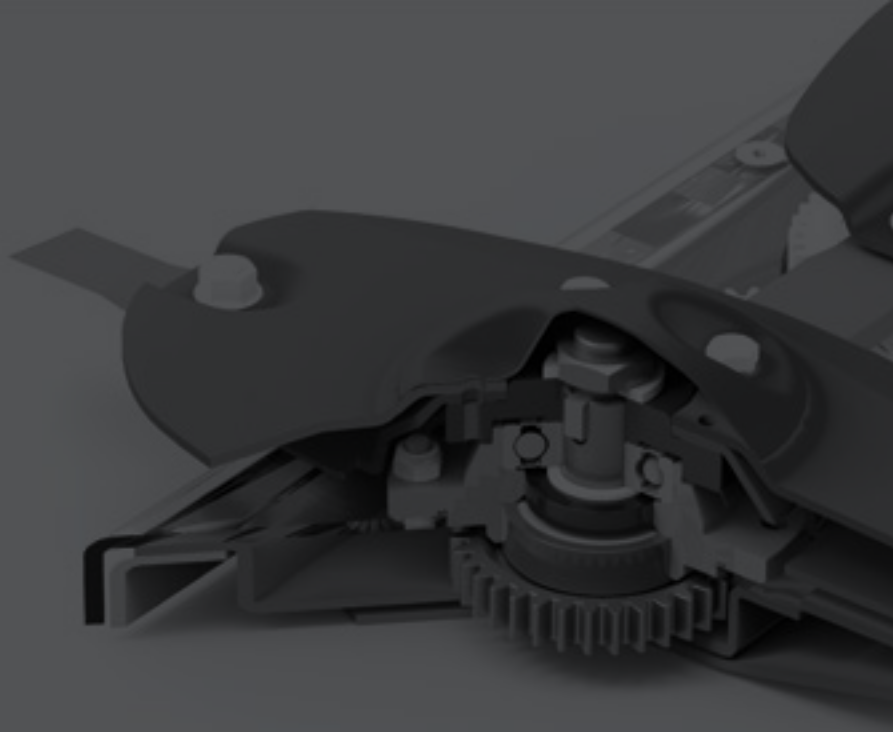
Typ	Working width [m/ft]	Swath width [m/ft]	Working capacity [ha/h / ac/h]	Number of knives [pcs.]	Power demand [HP]	RPM	Dimensions w / l / h [cm]	Weight [kg / lbs]
K4BF 265	2,65 / 8'8"	1,20-1,60/ 3'9"-5'25"	~ 3,00 / 7,50	12	from 80	1000	326 / 138 / 122	780/1720
K4BF 300	3,00 / 9'10"	1,40-1,80/ 4'6"-5'9"	~ 3,50 / 8,70	18	from 90		369 / 144 / 122	860/1895



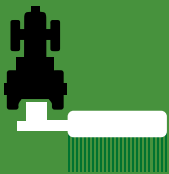
Precise CUTTING

Cutterbar

LiteCUT



New LiteCUT cutterbar is another model of the cutterbar installed in lightweight mowers - SAMBA. Designed for operation on smaller farms and on hilly and swamp areas. Completely new design provides reliability, high durability and precise cutting line, and all that with reduced power demand.



Disc mowers with LiteCUT cutterbar

Samba 160, Samba 200, Samba 240, Samba 280, Samba 320

LiteCUT

Design

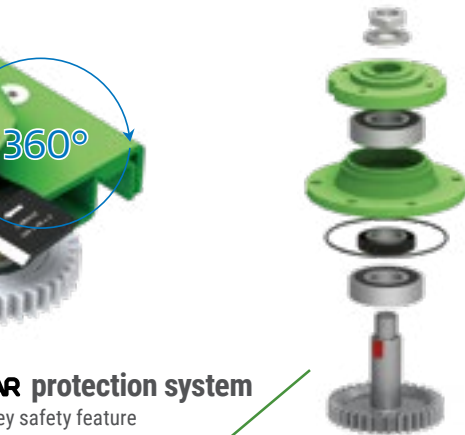
- lightweight, durable, bolted
- thick, 5 mm / 13/64" steel shell

Hardened gearbox slide

- cutterbar's drive protection



- Disc module with **safeGEAR** system
- additional protection for gears inside the cutterbar
- strong, sealed bearings
- quick and easy module replacement even in the field
- reusable after key replacement



- **safeGEAR** protection system
- sheared key safety feature as standard

Central knife holder

- improved shape of the holder enables thorough cleaning of the cutterbar
- made of high quality hardened steel
- 360* range of rotation
- quick and easy replacement

Gears - 18 mm thickness

- precisely ground and fitted enable ideal drive transmission and silent work
- protected by **safeGEAR** system
- set on closed 2RS bearings

Hardened knives (L=105 mm / 4 9/64")

- SaMASZ logo proves the highest quality,
- quick knife replacement mounting with special lever at the back side and front of the cutterbar

Sliding skid

- hardened,
- extend machine's life,
- easy to replace



Rear, lightweight disc mower SAMBA with working widths from 1.60 up to 2.80 m (5'2" to 9'2") is designed to operate on smaller farms. Mower works well in hilly as well as swamp areas, where machines and tractors weight is of

great importance. The use of modernized pressure relief system allows for optimal ground pressure adjustment.

Advantages of Samba mowers:

- light design,
- lower power demand with comparable alternative drum mower,
- new LiteCUT cutterbar,
- regulated rear and front guards significantly facilitate replacement of cutting knives,
- rubber swath guides resistant to windin-up when operating in higher grass (option),
- setting up: the transport, operating or rest positions by means of hydraulic cylinder.



SAMBA mowers equipped with SaMASZ LiteCUT cutterbar features, quick knife replacement system, hardened discs and slides, central knife holder and strengthened load-bearing bushings. In addition, central knife holders design has a great influence on cleaning the cutterbar.

NEW!

TECHNICAL DETAILS		SAMBA 160	SAMBA 200	SAMBA 240	SAMBA 280	SAMBA 320
	Working width [m/ft]	1,60 / 5'2"	2,00 / 6'7"	2,40 / 7'11"	2,80 / 9'2"	3,20 / 10'6"
	Transport width / height [m/ft]	1,70 / 2,15 // 5'7"/7'1"	1,70 / 2,50 // 5'7"/8'2"	1,70 / 2,90 // 5'7"/9'6"	1,70 / 3,30 // 5'7"/10'10"	1,50 - 2,20 / 4'11"-7'2"
	Swath width [m/ft]	~ 1,10 / ~ 3'7"	~ 1,40 / ~ 4'7"	~ 1,70 / ~ 5'7"	~ 2,10 / ~ 6'11"	1,70 - 3,70 / 5'7" - 12'1"
	Necessary hydraulic couplers	1 x single acting				
	Working capacity [ha/h]	~ 1,50 / ~ 3,70	~ 2,00 / ~ 5,00	~ 2,50 / ~ 6,20	~ 3,00 / ~ 7,00	~ 3,00 / ~ 7,00
	Number of discs [pcs.] Number of knives [pcs.]	4 / 8	5 / 10	6 / 12	7 / 14	7 / 14
	RPM	540				
	3-point hitch cat.	I / II		II		
	Power demand [HP]	from 20	from 30	from 45	from 60	from 60
	Weight [kg / lbs]	410 / 905	445 / 980	490 / 1080	505 / 1115	505
	PTO shaft	tractor - mower: with poverrunning clutch				



NEW!

Front disc mower ALPINA

ALPINA 300



NEW!

Front disc mower SAMBA

SAMBA 300 F

LiteCUT

Advantages of the Alpina disc mower:

- lightweight and robust design.
- adjustable swath width and mowing height from 4.5 cm to 7 cm and optional extension by up to 3 cm with high mowing skids.
- Perfect ground tracking in three planes and minimal ground pressure guarantee even cutting without damaging the turf.
- convenient transport with foldable side covers.
- ease of use due to the possibility of changing the direction of rotation by returning the gearbox and cooperation of the machine with tractors with left or right PTO rotation.
- quiet operation.
- low operating costs (most maintenance repairs can be carried out in-house).



TECHNICAL DETAILS	ALPINA 300	
	Working width [m / ft]	3,00 / 9'10"
	Transport width / height [m / ft]	~ 1,40 – 1,70 / 4'7" / 5'7"
	Swath width [m / ft]	1 x single acting
	Working capacity [ha/h / ac/h]	~ 3,50 / 8,70
	Number of discs [pcs.] / Number of knives [pcs.]	7 / 14
	RPM	540 (750 and 1000 on demand)
	3-point hitch cat.	II
	Power demand [HP]	from 60
	Weight [kg / lbs]	560 / 1220
	tractor - mower: with overrunning clutch built in: with overload clutch	

Advantages of the Samba disc mower:

- equipment options (with or without swath guides)
- high level of ground following
- use of a hitch triangle for quick and easy coupling and uncoupling of the machine to the tractor
- easy adjustment of the cutterbar load relief system for accurate mowing and protection of the turf
- possibility of installing topping skids
- drive transmission directly onto the cutterbar to eliminate power loss and make efficient use of the entire width of the cutterbar



TECHNICAL DETAILS	SAMBA 300 F	
	Working width [m / ft]	3,00 / 9'10"
	Transport width [m / ft]	~ 1,40 – 1,70 / 4'7" / 5'7"
	Swath width [m / ft]	1,30 - 1,50 / 4'4" - 4'11"
	Necessary hydraulic couplers	-
	Working capacity [ha/h / ac/h]	3,00 / 7,00
	Number of discs [pcs.] / Number of knives [pcs.]	7 / 14
	RPM	1000
	3-point hitch cat.	II
	Power demand [HP] [KM]	from 95
	Weight [kg / lbs]	550 / 1210
	tractor - mower: with overrunning clutch built in: with overload clutch	
	PTO shaft	2
	Single rubber swath guide [pcs.]	

PERFECT OPERATION

cutterbar PerfectCUT

PerfectCUT cutterbar :
KDT, KDTC, KT, KDC, TORO, KDF, KDD, KDD-R, and combinations MegCUT and GigaCUT

Basing on the experience of our customers around the world we have introduced to our production the Perfect CUT cutterbar. Precise cut, high durability of components, protection against sudden disc stoppage in case of coming onto an obstacle, quick and easy disc module replacement owing to modernized upper hub are the main advantages of Perfect CUT cutterbars.

Replacable inserts

- additional cutterbar protection

Hardened discs

- improved shape of the disc increases its thickness and enables perfect material flow
- high resistance to wear
- easy replacement

Topping plates (option)

- increases cutting height - 2, 2,5 or 3 cm
- bolted to the sliding skid
- easy replacement

Hardened, slide wearing pads

- additional slide protection
- exchangeable with topping skids
- easy to mount

Modernized, hardened slides

- reduce work resistance force
- shape and form enhance lower fodder contamination
- underside protection of the cutterbar

Stepless regulation of cutting height (from 3 cm / 1 1/4" to 7 cm / 2 3/4")

- setting the machine to standard cutting height from 4,5 cm / 1 3/4" (from 2° to 0°) enables ideal adjustment of the mower to working conditions (optionally topping skids and double topping skids enable cutting height up to 12 cm / 5")

- proper adjustment of cutting height (min. 6 cm recommended) has a great influence on the quality of cut hay and on the condition, height and the rate of growth of next crops:

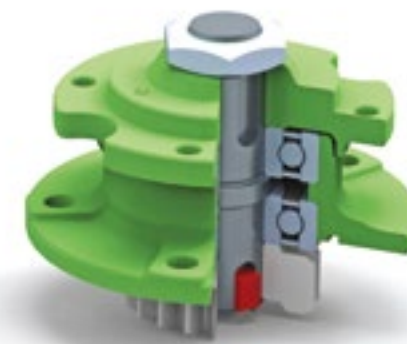
- leaving longer stems of 7 cm / 2 3/4" decreases the risk of fodder contamination by other machines (tedder, rake, baler) thanks to longer distance from the ground

- too low cut grass (lower than 5 cm / 2") weakens the crop and decreases the rate of re-growth. Next crops have less volume and have lower nutritional value

α 0° - h 6,8 cm

α 3° - h 5,3 cm

α 5° - h 4,4 cm



Disc module with SafeGEAR system

- additional protection for gears inside the cutterbar
- strong, double - sealed bearings
- quick and easy module replacement even in the field
- reusable after key replacement

Design

- lightweight, durable, bolted
- thick, 5 mm / 13/64" steel shell

Hardened discs

- improved shape of the disc increases its thickness and enables perfect material flow
- high resistance to wear
- easy replacement

360°

System

- protection system
- sheared key safety feature as standard



Gears - 18 mm thickness

- precisely ground and fitted enable ideal drive transmission and silent work
- protected by SafeGEAR system
- set on closed 2RS bearings

Hardened knife holder pins

- modernized shape of the pin increases knife stability
- longer resistance to wear thanks to Geomet® coat
- separate, replaceable element of the cutting disc



Central knife holder

- improved shape of the holder enables thorough cleaning of the cutterbar
- made of high quality hardened steel
- 360° range of rotation
- quick and easy replacement



Hardened knives (L=105 mm / 4 9/64")

- SaMASZ logo proves the highest quality,
- quick knife replacement mounting with special lever at the back side and front of the cutterbar



Knife mounting lever

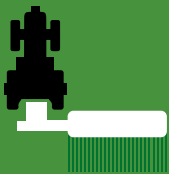
- quick and easy knife replacement





Rear disc mowers KDT

KDT 220, KDT 260, KDT 300, KDT 340, KDT 341



KDT is the most frequently purchased range from SaMASZ offer. Since the beginning of their introduction to the market, KDT mowers have been used by thousands of customers around the world. Made of best quality materials are a reasonable choice even for the most demanding customers. The machine can be equipped with light-weight conditioner with plastic tines (SL version), which is 25 kg (55 lbs) lighter than the standard one.

Mechanical safety breakaway device (with hardened inserts)

In case of hitting an immovable obstacle the breakaway device is pulled out of its housing and the mower folds back giving time to stop working and evade the obstacle. The force, at which, the device will operate is regulated by means of a coil spring. Breakaway device is set by the manufacturer and ensures proper and faultless work.

Support mechanism when taking turns on headlands.

Owing to this system an operator does not have to pay attention to the height to which he lifts the machine. It also saves times, crucial during forage pick-up.

Swath guides as standard equipment

Owing to this system an operator does not have to pay attention to the height to which he lifts the machine. It also saves time, crucial during forage pick-up.

Transport and operation

Lighter and stronger suspension as well as hydraulics facilitate manouvering and transport. Switching from working to transport position by means of hydraulic cylinder. For the time of transport, there are following safety features:

- Mechanical lock
- Hydraulic cylinder shutoff valve

Precise cut

KDT 220 W, KDT 260 S / SL, KDT 260 W

PerfectCUT

- V-belts – the drive is transmitted through V-belts, which also function slip as clutch.
- New gearbox – 60% stronger and 200% more durable transmits the drive from V-belts to cutterbar.
- Replaceable, protective sliding skids, made of hard-wearing steel.

Support springs

Enhanced coil springs unload ground pressure and reduce resistance during work.

Conditioner

Using tine conditioner decreases plant nutrition losses and increases swath density. When mowing caney crops the best effects are reached with roller conditioners. Detailed description of tine and roller conditioners – page 20-21



		KDT 220	KDT 260	KDT 300	KDT 340	KDT 341*	KDT 220 W**	KDT 260 S / SL**	KDT 260 W**
TECHNICAL DETAILS	Working width [m / ft]	2,20 / 7'2"	2,60 / 8'7"	3,00 / 9'10"	3,40 / 11'2"	3,40 / 11'2"	2,20 / 7'2"	2,60 / 8'7"	2,60 / 8'7"
	Transport width / height [m / ft]	2,15 / 2,85 7'1"/9'4"	2,15 / 3,40 7'1"/11'2"	2,15 / 3,75 7'1"/12'3"	2,20 / 4,20 7'2"/13'8"	2,20 / 4,20 7'2"/13'8"	2,15 / 2,95 7'1"/9'7"	2,15 / 3,40 7'1"/11'2"	2,20 / 3,40 7'2"/11'2"
	Swath width [m / ft]	1,00 - 1,40 / 3'4" - 4'7"	1,20 - 1,80 / 3'11" - 5'11"	1,30 - 1,90 / 4'4" / 6'3"	1,40 - 2,00 / 4'7" - 6'7"	2,30 - 2,80 / 7'7"-9'2"	1,00 - 1,30 / 3'4" - 4'4"	1,00 - 1,30 / 3'4" - 4'4"	1,00 - 1,30 / 3'4" - 4'4"
	Necessary hydraulic couplers	1 x single acting							
	Working capacity [ha/h / ac/h]	~ 2,50 / 6,20	~ 3,00 / 7,40	~ 3,50 / 8,70	~ 4,00 / 10,00	~ 4,00 / 10,00	~ 2,00 / 5,00	~ 2,80 / 7,00	~ 2,80 / 7,00
	Number of discs [pcs.] / Number of knives [pcs.]	5 / 10	6 / 12	7 / 14	8 / 16	8 / 16	5 / 10	6 / 12	6 / 12
	RPM	540							
	3-point hitch cat.	II							
	Power demand [HP]	from 50	from 70	from 80	from 90	from 90	from 70	from 90	from 90
	Weight [kg / lbs]	670 / 1480	725 / 1600	785 / 1730	825 / 1820	825 / 1820	950 / 2095	995 / 2195	1005 / 2215
PTO shaft	tractor - mower: with overrunning clutch						tractor - mower: with overrunning clutch built in: with overload clutch		
Single rubber swath guide [pcs.]	2	1	-	-	2	Metal swath guides in conditioner			
Double rubber swath guide [pcs.]	-	1	2	2	-				

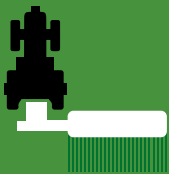
* S / SL - tine conditioner / light-weight tine conditioner with plastic tines W - roller conditioner





Rear disc mowers KDTC

KDTC 261, KDTC 301, KDTC 341



Exceptional ground following

KDTC 261 S / SL, KDTC 261 W, KDTC 301 S / SL, KDTC 301 W

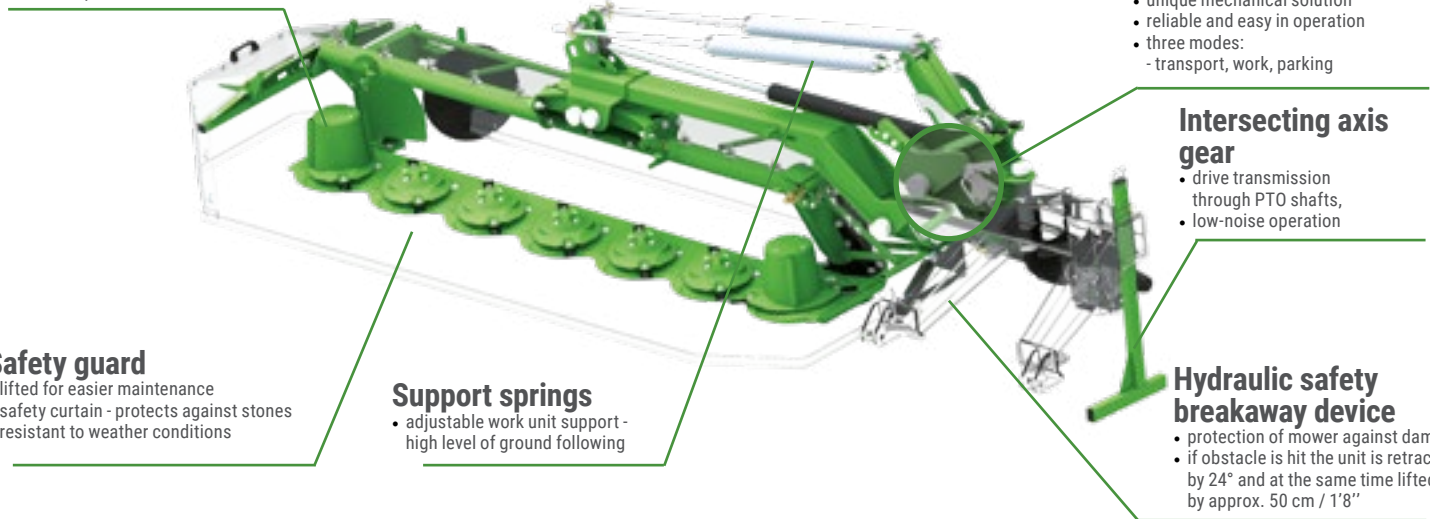
PerfectCUT

KDTC mowers have been the first disc mowers with central suspension in our offer. They have been manufactured since 2008 and have gone through modernization in order to be up to the present market demands. Developed and thought-through design is an economic alternative to KT mowers. Unlike KT

mowers, KDTC mowers have no possibility of applying hydropneumatic suspension. They feature a single transport position (KT has 3 positions). KDTC mower can be equipped with light-weight conditioner with plastic tines (SL version), which is 60 kg (135 lbs) lighter than the standard one.

PerfectCUT Cutterbar

*more on p. 12-13



Hydraulic safety breakaway device

KDTC mowers have the same hydraulic safety breakaway device as double-sided mowers. It protects the mower against hitting immovable obstacles. In the event of hitting an immovable obstacle the cutterbar folds back about 30° and at the same time rises about 50 cm (20"). Afterwards, the cutterbar automatically comes back to its working position.



Positions: transport and rest

Putting the mower into transport and rest positions by means of hydraulic cylinder and patented latch mechanism.



Advantages of KDTC mowers:

- PerfectCUT cutterbar
- Mechanical latch mechanism, as a support when taking turns on headlands
- Regulated, drop speed of the cutting unit
- Regulated swath guides
- Central suspension enables even ground pressure and perfect ground following
- Wide range of inclination (up to 24 degrees) enables operation on uneven or steep terrain



Drive

The drive from gearbox to cutterbar's gearbox is transmitted through PTO shaft with friction clutch, which protects the cutterbar against damage.



		KDTC 261	KDTC 301	KDTC 341	KDTC 261 S / SL*	KDTC 261 W*	KDTC 301 S / SL*	KDTC 301 W*
TECHNICAL DETAILS	Working width [m / ft]	2,60 / 8'7"	3,00 / 9'10"	3,40 / 11'2"	2,60 / 8'7"	2,60 / 8'7"	3,00 / 9'10"	3,00 / 9'10"
	Transport width / height [m / ft]	2,00 / 3,40 6'7"/11'2"	2,00 / 3,80 6'7"/12'8"	2,00 / 4,20 6'7"/13'8"	2,00 / 3,40 6'7"/11'2"	2,00 / 3,40 6'7"/11'2"	2,00 / 3,80 6'7"/12'8"	2,00 / 3,80 6'7"/12'8"
	Swath width [m / ft]	1,50 - 1,90 / 4'11" - 6'3"	1,20 - 1,60 / 3'11" - 5'3"	1,20 - 2,00 / 3'11" - 6'7"	1,00 - 1,40 / 3'4" - 4'7"	1,00 - 1,30 / 3'4" - 4'4"	1,40 - 1,70 / 4'7" - 5'7"	1,40 - 1,70 / 4'7" - 5'7"
	Necessary hydraulic couplers	1 x single acting						
	Working capacity [ha/h / ac/h]	~ 2,80 / ~ 7,00	~ 3,50 / ~ 8,70	~ 4,00 / ~ 10,00	~ 2,80 / ~ 7,00	~ 2,80 / ~ 7,00	~ 3,50 / ~ 8,70	~ 3,50 / ~ 8,70
	Number of discs [pcs.] / Number of knives [pcs.]	6 / 12	7 / 14	8 / 16	6 / 12	6 / 12	7 / 14	7 / 14
	RPM	540 (1000 - option)			1000			
	3-point hitch cat.	II						
	Power demand [HP]	from 70	from 80	from 90	from 90	from 90	from 90	from 90
	Weight [kg / lbs]	940 / 2075	1020 / 2250	1120 / 2470	1170 / 1140 2580 / 2515	1215 / 2680	1255 / 1215 2765 / 2680	1270 / 2800
PTO shaft	tractor - mower: with overrunning clutch + friction, built-in: no clutch							
Single rubber swath guide [pcs.]	1	2	2	Metal swath guides in conditioners				

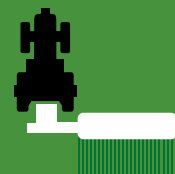
* S / SL - tine conditioner / light-weight tine conditioner with plastic tines W - roller conditioner

DRUM AND DISC MOWERS 2019/2020



Rear disc mowers KT

KT 261, KT 301, KT 341



The same solutions for all models

KT 261 S / SL, KT 261 W, KT 301 S / SL, KT 301 W

PerfectCUT

High operating speed, modern design, quick knife replacement system, central spring or hydropneumatic suspension, 3 transport positions - these are only a few advantages of KT disc mowers!



Hydraulic safety breakaway device

Central suspension system is integrated with hydraulic safety breakaway device, which protects the mower against hitting immovable obstacles. In the event of hitting an immovable obstacle the cutterbar folds back and at the same time rises about 50 cm (1'8"). Afterwards, the cutterbar automatically comes back to its working position.



Central suspension

Main advantages of central suspension are even balance, perfect ground following and wide range of inclination (up to 24 degrees) enabling operation on an uneven grounds and in every conditions. Ground pressure can be relieved by means of springs or hydraulic pressure relief system (hydropneumatic suspension).

Transport

The most important advantage of KT disc mowers, is possibility to transport the machines in three different positions: A-upwards (at the side of the tractor), B-upwards (behind the tractor) and C-horizontally (behind the tractor). It is possible to drive through narrow roads in the woods or drive under a viaduct or underpass.



Hydropneumatic suspension

Thanks to hydropneumatic suspension, an operator can easily adjust ground pressure of the cutterbar by means of tractors hydraulics. Owing to that the ground pressure is always the same (no matter how the terrain is shaped). Hydropneumatic suspension is a perfect solution on weak, peat meadows, especially during mowing of the first cut. It allows to adjust required ground pressure - from 70 kg (155 lbs) and provide excellent protection to the turf and the cutterbar.



Safety guards

- All safety guards and curtains comply with european safety standards.
- Protective tube – increases life span of safety curtain protecting it against wearing by the grass during operation „A”
- Buckles – enable quick and easy safety curtain release „B”
- Guard's regulation – enables lifting and locking in different positions, helpful during quick knife replacement „C”
- Lifted side guard – lower transport high, possibility to work closer to barriers „D”

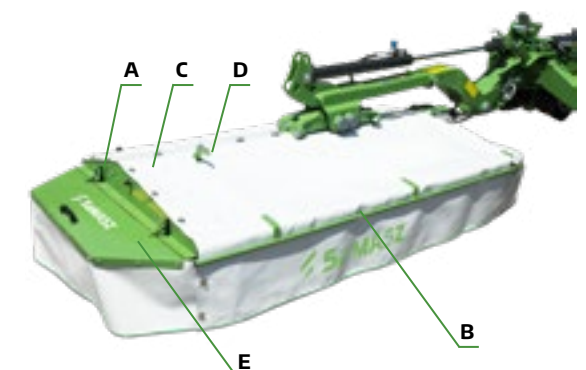


Latch mechanism

Innovative, patented latch mechanism enables setting the mower in three different positions, depending on operation mode: operation-rest-transport. Suitable position can be set from tractor's cabin by means of a cord.

Regulated hitch pins

Headstock is equipped with regulated lower hitch pins (side shift is possible).



Manometer

Manometer shows oil pressure in hydraulic system, which reflects actual ground pressure. Setting ground pressure is regulated by means of a lever from tractor's cabin.



Unique quality of forage



Tine and roller conditioners

KT 261 S / SL, KT 261 W, KT 301 S / SL, KT 301 W

PerfectCUT

Advantages of swath conditioners:

- Several times faster grass drying owing to breaking wax layer on a leaf blade
- Cutting wax layer through, facilitates „grass breathing“, which reduces losses in plants nutrition value, and increases swath density
- Elimination of tedding (fewer drives)
- Free presentation of material in wide swath, as well as reducing and balancing its density enables easy pick up for baler or self-collecting trailer
- Increased space between tine shaft and conditioner's hood to improve material throughput at extremely high harvest
- Swath width adjustment by swath guides

Integrated gearbox

KT 261 S and KT 301 S mowers have been equipped with integrated gearbox, which apart from the cutterbar also drives the conditioner. Providing two speed rates: 700 and 1000 rpm.

Tines

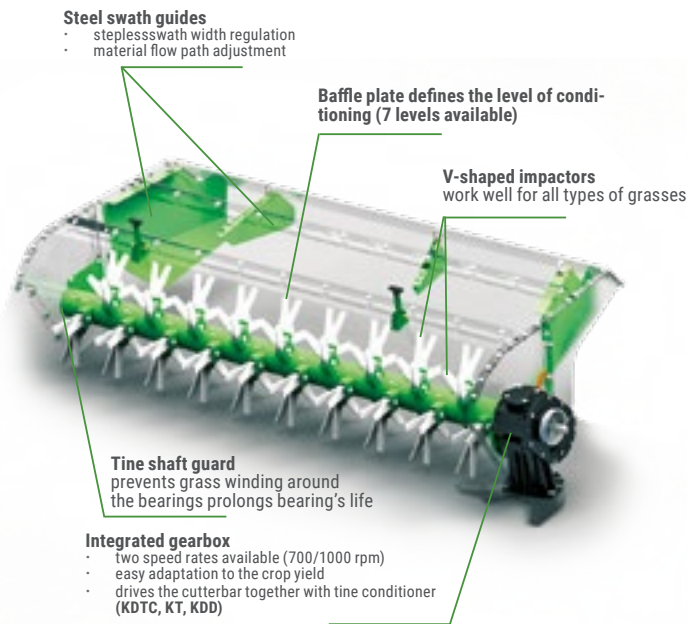
Enhanced V-shaped tines are made of hard-wearing steel. Properly balanced tine weight and helical arrangement on the tine shaft provide their effective operation in the heaviest crops. There is a fixed and pivot tine mounting option.

Light-weight tine conditioner

SL version mowers are equipped with light-weight tine conditioner as an option. It features lite, plastic tines and is significantly lighter than the standard one.

Swath width adjustment in conditioner mowers

Obtaining narrow swath is possible owing to application of additional drums or by swath guides (Fig. 1). Wide swath provides faster and more balanced grass drying process (Fig. 2).



3 tine types



Advantages of roller conditioners

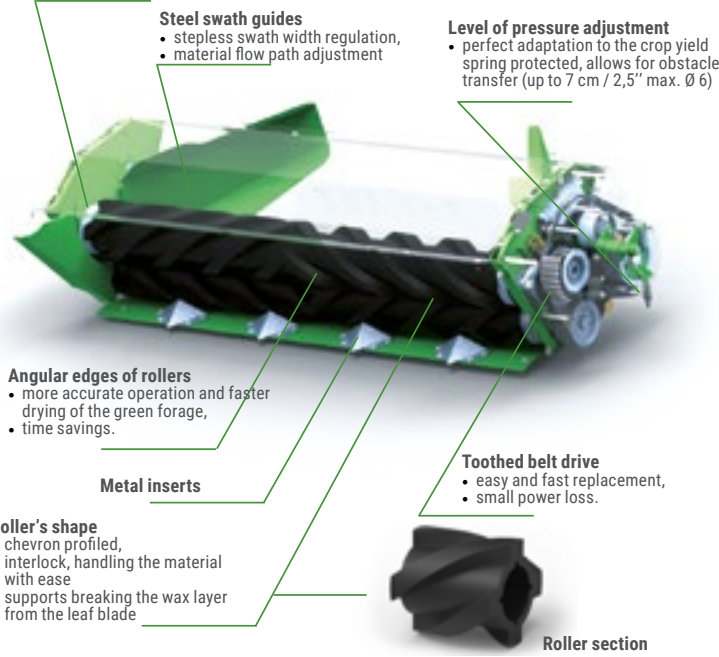
- Wide rollers along the cutterbar increase efficiency of crushing stems of caney crops
- Rubbing wax from stem's layer and at the same time pressing them out increase drying process
- An inclination of upper roller towards the cutterbar enables better forage pick-up
- Chevron-profiled conditioner rollers interlock to crimp, rub and crush the crop at great intensity
- The rollers are driven by:
 - upper roller - heavy duty bevel belt
 - lower roller - double chain
- Upper roller is suspended on two rockers with clearance regulation by means of springs. It is easy to adapt the roller clearance and pressure to the current crop yield and variety. This solution enables conditioning of large forage crops and their even breaking throughout the whole roller's width. Clearance between the rollers enables stone transport up to 6 cm (2 1/3") diameter

Replacement of the cutting blades

With the special wrench supplied as standard, the cutting knives can be replaced quickly.



Mechanism that adapts the rollers to the amount of material.



		KT 261	KT 301	KT 341	KT 261 S / SL*	KT 261 W*	KT 301 S / SL*	KT 301 W*
TECHNICAL DETAILS	Working width [m / ft]	2,60 / 8'7"	3,00 / 9'10"	3,40 / 11'2"	2,60 / 8'7"	2,60 / 8'7"	3,00 / 9'10"	3,00 / 9'10"
	Transport width / height [m / ft]	2,00 / 3,10 6'7"/10'2"	2,00 / 3,50 6'7"/11'6"	2,00 / 4,20 6'7"/13'8"	2,00 / 3,10 6'7"/10'2"	2,00 / 3,10 6'7"/10'2"	2,00 / 3,50 6'7"/11'6"	2,00 / 3,50 6'7"/11'6"
	Swath width [m / ft]	1,50 - 1,90 / 4'11" - 6'4"	1,90 - 2,30 / 6'4" - 7'7"	2,30 - 2,80 / 7'7" - 9'2"	1,50 - 1,90 / 4'11" - 6'4"	1,00 - 1,30 / 3'4" - 4'4"	1,40 - 1,70 / 4'7" - 5'7"	1,40 - 1,70 / 4'7" - 5'7"
	Necessary hydraulic couplers	2 x single action + 1 x double action						
	Working capacity [ha/h / ac/h]	~ 2,80 / ~ 7,00	~ 3,50 / ~ 8,70	~ 4,00 / ~ 10,00	~ 2,80 / ~ 7,00	~ 2,80 / ~ 7,00	~ 3,50 / ~ 8,70	~ 3,50 / ~ 8,70
	Number of discs [pcs.] Number of knives [pcs.]	6 / 12	7 / 14	8 / 16	6 / 12	6 / 12	7 / 14	7 / 14
	RPM	540 (1000 - option)			1000			
	3-point hitch cat.	II						
	Power demand [HP]	from 70	from 80	from 90	from 90	from 90	from 100	from 90
	Weight [kg / lbs]	1000 / 2205	1060 / 2335	1130 / 2490	1300 / 2865	1390 / 3065	1350 / 2975	1490 / 3285
Weight with "H" [kg / lbs]	955 / 2105	1015 / 2235	1090 / 2405	1305 / 1250 1290 / 2845	1360 / 3000	1420 / 1310 3130 / 2890	1460 / 3220	
PTO shaft	tractor - mower: with friction overrunning clutch, built in: no clutch							

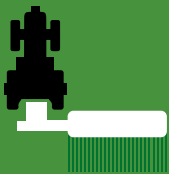
* S / SL - tine conditioner / light-weight tine conditioner with plastic tines W - roller conditioner

DRUM AND DISC MOWERS 2019/2020



Rear disc mowers XT

XT 390



Precise cut

PerfectCUT

The new SaMASZ XT 390 disc mower - you'll cut more, better, and more comfortably! The modern design of the XT 390 completely changes the quality of work and convenience of transport. This

mower, similarly to other SaMASZ models, does not damage the turf, and minimises the level of dirt, so the harvested feed is of the highest purity.

Transport

Another strong point of the XT 390 is its transportability in an inclined position, ensuring safer driving and easier manoeuvrability on both public roads and narrow dirt roads. A great advantage of this machine is its height, which does not exceed 4 m, so, according to the traffic law, it is does not require any additional markings or permits. In addition, the XT 390 in the standard version allows the machine to be parked in a stable transport position on four feet.



Central suspension

The main advantage of central suspension is its even weight distribution, perfect ground following, and large tilting range (up to 24°), which makes it easy to use on uneven terrain, and allows optimum driving in all conditions.



Hydro-pneumatic suspension

Thanks to its hydro-pneumatic suspension, the operator can use the tractor's hydraulics to quickly adjust the pressure of the cutting bar on the ground, so that, regardless of the terrain, the pressure on the ground is always the same. A large and easily visible pressure gauge informs the operator of the pressure in the hydro-pneumatic system. Another advantage is the possibility to adjust the pressure without leaving the tractor cab, thereby adjusting the load to the conditions.

- Safety guard**
- lifted for easier maintenance
 - safety curtain - protects against stones
 - resistant to weather conditions
 - lifted side guard decreases transport height

PerfectCUT Cutterbar
*more on p. 12-13

- 125° inclined transport position**
- decreases transport height to 3,97 m with 3,90 m working width
 - increased stability during transport thanks to balanced centre of gravity
 - improved visibility in side mirrors

- Machine setting indicator:**
- helps to adjust the height of the hitch
 - easily visible from tractor's cabin

Warning plates with LED lights in standard equipment

KENNFIX hydraulic connector

- Hydropneumatic suspension:**
- innovative hydropneumatic lightening system
 - integrated with hydraulic safety breakaway device and lifting cylinder
 - operated by steering panel directly from tractor's cabin

- Support legs:**
- 4 standard support legs enable parking of the machine in transport position
 - saves space considerably

- Unique safety breakaway device:**
- hydraulic breakaway device integrated with the hitch and body of the machine
 - the inclination of cutterbar on the first disc is higher than 50 cm and is lifted min. 30 cm (the highest range on the market)
 - automatic return of the cutterbar to working position

		XT 390
TECHNICAL DETAILS	Working width [m / ft]	3,90 / 13'
	Transport width / height [m / ft]	2,60/3,98 / 8'7"/13'2"
	Swath width [m]	2,40 - 2,65 / 7'11" - 8'8"
	Necessary hydraulic couplers	1 x double acting
	Working capacity [ha / h]	~ 4,50 / ~11
	Number of discs [pcs.] / Number of knives [pcs.]	9 / 18
	RPM	1000
	3-point hitch cat.	II / III
	Power demand [HP]	from 100
	Weight [kg / lbs]	1 290 / 2 844
	PTO shaft	tractor - mower: with overrunning clutch + friction; built-in: no clutch
	Single rubber swath guide [pcs.]	1



Trailed disc mowers

KDC 300, KDC 340, KDC 390, KDC 430



Suitable for any conditions

KDC 300 S/SL, KDC 301W, KDC 340 S/SL, KDC 341W

PerfectCUT

Our design of trailed mowers with central drawbar allows working on both sides of the tractor. It helps to save time when taking turns. KDC mowers can be additionally equipped with tine or roller conditioner and belt conveyor for swath transportation.

Wide-angle PTO shaft

Wide-angle 960 Nm PTO shaft, if greased every 8 hours, has a warranty for 1000 man-hours !

Adjustable rigging screws

Regulate angle and working height of the transporter

Tine and roller conditioners

Advantages of tine and roller conditioners are detailed on p. 20-21.

Driveshaft

Driveshaft inside the drawbar is with no doubt an innovative solution, which has a great effect on extending its life.

Suspension

Wide frame rocker provides stable cutterbar operation.

Mowing at both sides

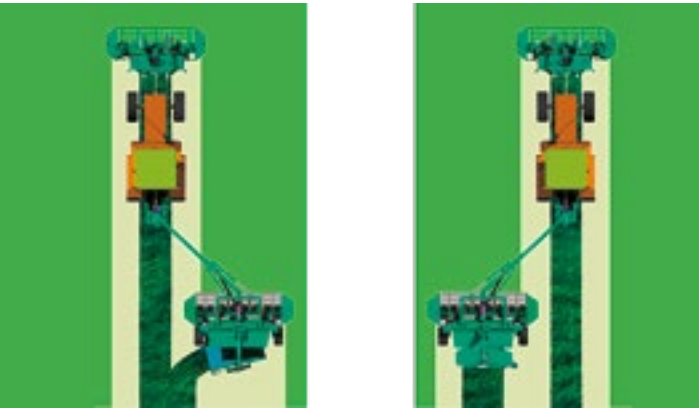
Long and center-mounted drawbar is ideal for up and down operation. Changing sides is easy and convenient from the tractor seat. Single-acting cylinders swing the mower over to the other side in up and down operation and swing it centrally behind the tractor in transport position. The center-mounted pivoting drawbar allows mowing up and down the field in either direction.

Belt conveyor merger

The merger conveys the material onto the existing windrow or next to it to form a double windrow which can be easily picked up by the following harvester. Feeding the crop onto the windrow without the material ever touching ground, the belt conveyor ensures clean forage without losses. Therefore save your time, increase your efficiency, reduce the number of passes and the risk of soil compaction. What is more, it eliminates tedding and raking processes.

Wide tires

Mower is equipped with wide tires ensuring excellent adhesion and stability. As the machine operates on soft grounds, slopes or water-soaked fields it runs on 340/55-R16 (13.0/55-16) tires that provide light treading to protect the turf. Mounted at a 3° angle, the wheels effectively roll, in direction of travel without pulling to the side.



		KDC 300	KDC 340	KDC 390	KDC 430	KDC 300 S / SL	KDC 301 W	KDC 340 S / SL	KDC 341 W
TECHNICAL DETAILS	Working width [m / ft]	3,00 / 9'10"	3,40 / 11'2"	3,90 / 13'	4,30 / 14'2"	3,00 / 9'10"		3,40 / /11'2"	
	Transport width [m / ft]	3,00 / 9'10"	3,50 / 11'6"	3,90 / 13'	4,30 / 14'2"	3,00 / /9'10"		3,40 / /11'2"	
	Swath width [m / ft]	1,30 - 1,50 /4'4" - 4'11"	1,70 - 2,1 / 57"- 6'10"	2,5 - 3,1 / 8'3" - 10'2"	2,9 - 3,5 / 9'6" - 11'6"	1,00 - 1,60 / 2'11"- 5'3"		1,30 - 2,00 / /4'4"-6'7"	
	Necessary hydraulic couplers	1 x single acting 1 x double acting							
	Working capacity [ha/h / ac/h]	~ 3,50 / ~ 8,70	~ 4,00 / ~ 10,00	~4,50 / 11,30	~4,90 / 12,30	~ 3,50 / ~ 8,70		~ 4,00 / ~ 10,00	
	Number of discs [pcs.] Number of knives [pcs.]	7 / 14	8 / 16	9 / 18	10 / 20	7 / 14		8 / 16	
	Tires	340 / 55 / 16		400 / 55 / 15					
	RPM	540 / 1000							
	3-point hitch cat.	II							
	Power demand [HP]	from 80	from 90	from 100	from 110	from 90		from 110	
Weight [kg / lbs]	1650 / 3640	1755 / 3870	1850 / 4080	2040 / 4500	1910 / 2350	2100 / 2500	2095 / 2495	2280 / 2680	
PTO shaft	tractor - mower: with friction clutch, built-in: 1. no clutch, 2. with overrunning clutch, 3. with overload clutch, 4. wide-angle u-joint								



Front disc mowers KDF

KDF 260, KDF 300, KDF 340,
KDF 301 S / SL, KDF 301 W, KDF 341 S / SL, KDF 341 W / KDF 390



Economical and efficient

TORO 262, TORO 302, TORO 342

PerfectCUT

KDF front disc mowers could be a perfect alternative for rear mowers due to good visibility during operation and transport. Extended frame and coil springs of long travel enable very good ground following and proper ground pressure. Can be successfully combined, with rear unit, making a very economic set.

Advantages and equipment of KDF mowers:

- Mounting triangle as a standard equipment
- PTO shaft with overrunning and friction clutch as a standard equipment
- Mechanical lock for safe transport
- Extended suspension frame and coil springs with long travel enable better ground following (+250 mm, - 150 mm)(+10", - 6") and proper ground pressure adjustment
- Hydraulic cylinders as a standard equipment – facilitate lifting to transport position
- Cutting hight indicator as a standard equipment
- PTO safety guard protects the shaft against dirt and fast wear
- Flow divider enables balanced drop and lift of the cutterbar with the use of only one single-acting coupler
- Quick and easy adaptation into clockwise rotation of the front PTO
- Good visibility during operation and transport

Tine or roller conditioner

Easy to equip with either tine conditioner or rollers. There are also available conditioner tines made of plastic. Particularly important when unit's weight is of great importance. Weight reduction positively affects its working performance on soft and soaky fields.

The TORO 302 disc mower is designed as a stand-alone mower or as a complement to rear mowers. Thanks to its compact design and spring relief, it is light and energy efficient. The load is relieved by means of precisely selected springs, so that the mower adapts very well to the terrain and protects the turf from damage. TORO 302 is equipped with a double-plane transverse ground tracking system that makes it perfect for selecting transverse irregularities of up to ±10°, as well as for tilting when encountering an obstacle.

Advantages and equipment of Toro mowers:

- stepless regulation of cutting height
- use of topping skids possible or double topping skids
- perfect ground following also on uneven and steep terrain
- light design - smaller pressure on the ground
- work with forage collecting machines (self-collecting trailers, balers) possible
- foldable side guards for comfortable transport

KDF 390 - to Fortshritt

Advantages of KDF 390

- PerfectCUT cutterbar
- Quick knife replacement
- High working width
- Light-weight construction
- Smooth regulation of cutting height and swath width
- Swath guides forming up to 2m wide windrow
- Regulated front safety guard
- Lifted side safety guards for transport width reduction
- Very good visibility during work from operator's cabin



KDF 301S



		KDF 260	KDF 300	KDF 340	KDF 301 S / SL	KDF 301 W	KDF 341 S / SL	KDF 341 W	KDF 390
TECHNICAL DETAILS	Working width [m / ft]	2,60 / 8'7"	3,00 / 9'10"	3,40 / 11'2"	3,00 / 9'10"		3,40 / 11'2"		3,90 / 12'1"
	Transport width [m / ft]	2,60 / 8'7"	3,00 / 9'10"	3,40 / 11'2"	3,00 / 9'10"		3,40 / 11'2"		3,80 / 12'8"
	Swath width [m / ft]	~ 01,00 - 1,20 / ~ 3'3" - 3'11"	~ 1,30 - 1,50 / ~ 4'3" - 4'11"	~ 1,40 - 1,80 / 4'7" - 5'11"	~ 1,20 - 2,00 / ~ 3'11" - 6'7"	~ 1,10 - 1,70 / ~ 3'7" - 5'7"	~ 1,40 - 2,40 / ~ 4'7" - 7'11"	~ 1,30 - 2,10 / ~ 4'3" - 6'11"	~ 1,40 - 2,30 / ~ 4'7" - 7'7"
	Necessary hydraulic couplers	1 x single acting							
	Working capacity [ha/h / ac/h]	~ 2,80 / 7,00	~ 3,50 / 8,70	~ 4,00/10,00	~ 3,50 / 8,70		~ 4,00 / 10,00		~ 4,50 / 11,00
	Number of discs [pcs.] / Number of knives [pcs.]	6 / 12	7 / 14	8 / 16	7 / 14		8 / 16		9 / 18
	RPM	1000							
	3-point hitch cat.	II							
	Power demand [HP]	from 70	from 80	from 90	from 100		from 110		
Weight [kg / lbs]	805 / 1775	940 / 2075	1020 / 2250	1260 / 2775	1360 / 3000	1340 / 2955	1475 / 3250	1065 / 2335	

TECHNICAL DETAILS		TORO 262	TORO 302	TORO 342
	Working width [m / ft]	2,60 / 8'7"	3,00 / 9'8"	3,40 / 11'2"
	Transport width [m / ft]	2,60 / 8'7"	3,00 / 9'8"	3,40 / 11'2"
	Swath width [m / ft]	~ 1,00 - 1,20 / 2'11" - 3'7"	~ 1,30 - 1,50 / 4'6" - 5'6"	~ 1,40 - 1,80 / 5'9"
	Necessary hydraulic couplers	-	-	-
	Working capacity [ha/h / ac/h]	~ 2,80 / 7,00	~ 3,50 / 8,70	~ 4,00 / 10,00
	Number of discs [pcs.] / Number of knives [pcs.]	6 / 12	7 / 14	8 / 16
	RPM	1000		
	3-point hitch cat.	II		
	Power demand [HP]	from 60	from 75	from 85
	Weight [kg / lbs]	640 / 1410	770 / 1700	850 / 1875
	PTO shaft	tractor - mower: with friction clutch built in: with overrunning clutch		



MegaCUT



GUINNESS WORLD RECORD
96.2 ha / 237 acres of mowed grass
in 8 hours - MegaCUT 941

MegaCUT set

KDD 861, KDD 912, KDD 941



Combination for demanding farmers

PerfectCUT

MegaCUT is a set of mowers for demanding farmers, who value their time and money. Working efficiency from 10 ha/h and low power demand prove, the combination can be operated even on middle-sized farms with tractor's power starting from 150 HP. It is an excellent alternative to expensive self-propelled mowers.

led mowers. MegaCUT set is a perfect solution for large farms. Thanks to their high productivity and working width, cutting of large areas does not take a great deal of time.

Central suspension

- work unit located in the center of gravity - even support across the whole cutterbar width,
- perfect ground following enabling work on uneven ground.

PTO shaft with friction clutch

- Drive from the central gearbox to the cutterbars is transmitted through PTO shafts with overrunning friction clutch, which secure cutterbars from damage.

Advantages and equipment of MegaCut set:

- PerfectCUT cutterbars with quick knife replacement system
- Protection against stones (quick disc module replacement in case of obstacle collision)
- Central suspension
- Support springs reduce ground pressure and limit mowing disturbances
- Hydropneumatic suspension as an option
- Integrated gearbox (only with conditioner)
- Hydraulic safety breakaway device protects the mower against hitting immovable obstacles. In the event of hitting an immovable obstacle the cutterbar folds back and at the same time rises about 50 cm (20"). The cutterbar automatically comes back to its working position once the obstacle is passed.
- Adjustable swath guides
- Electronic control panel
- Lock mechanism for safe transport transport
- 3-point hitch Cat. II and III

Safety guard

- lifted for easier maintenance
- safety curtain - protects against stones
- resistant to weather conditions
- lifted side guard decreases transport height

KENNFIX hydraulic connector

4 support legs:

- support legs enable parking of the machine in transport position
- saves space considerably

Own hydraulic unit

- for conveyor drive
- for relieving tractor's hydraulics

Ground pressure relief system

- adjustable work unit support - high level of ground following,
- spring-type as standard,
- hydropneumatic type (option)

Warning plates with rear road lights (standard)

PerfectCUT Cutterbar

*more on p. 12-13

Close-up sensor

- Enables locking the cutterbar at a certain height, when turning on headlands. Operator does not have to control lifting height of the cutterbars and the risk of PTO shaft damage is reduced.

TECHNICAL DETAILS		KDD 861	KDD 912	KDD 941
	Working width [m]*	8,60 / 28'2"	9,10 / 29'10"	9,40 / 30'10"
	Transport width / height [m]	3,00 / 3,80 // 9'8" / 12'8"	3,00 / 3,90 // 9'8" / 12'10"	2 x 2,30 - 2,70 / 2 x 7'7" - 8'10"
	Swath width [m]	2 x 1,90 - 2,30 / 2 x 6'3" - 7'7"	2 x 1,90 - 2,30 / 2 x 6'3" - 7'7"	2 x 2,30 - 2,70 / 2 x 7'7" - 8'10"
	Necessary hydraulic couplers	3 x single acting (stering panel 1 x single acting)		
	Working capacity [ha / h]*	~ 10,00 / 25,00	~ 10,50 / 27,00	~ 11,00 / 27,00
	Number of discs [pcs.] Number of knives [pcs.]	14 / 28	16 / 32	16 / 32
	RPM	1000		
	3-point hitch cat.	III		
	Power demand [HP]*	from 130	from 140	from 140
	Weight [kg / lbs]	2125 / 4685	2290 / 5050	2290 / 5050
	Weight with „H“ [kg]	2100 / 4630	2190 / 4830	2190 / 4830
	PTO shaft	tractor - mower: no clutch, built-in: with overrunning friction clutch		

* Combined with a front mower



MegaCUT



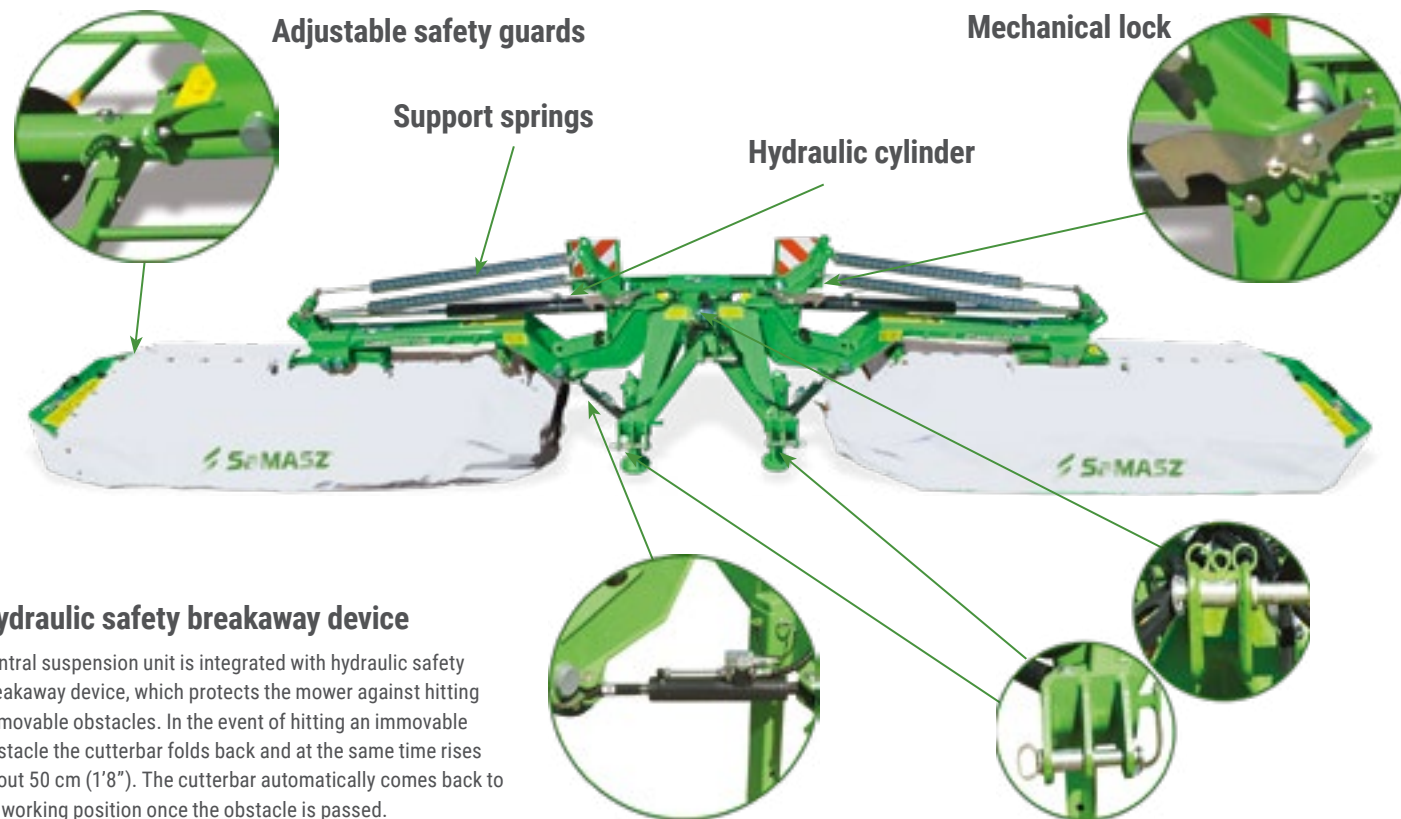
Lots of possibilities to collect the crop



Reverse system tractors

KDD-R 861, KDD-R 941, KDD-R 861 S/SL, KDD-R 941 S/SL

PerfectCUT



Hydraulic safety breakaway device

Central suspension unit is integrated with hydraulic safety breakaway device, which protects the mower against hitting immovable obstacles. In the event of hitting an immovable obstacle the cutterbar folds back and at the same time rises about 50 cm (1'8"). The cutterbar automatically comes back to its working position once the obstacle is passed.

Electronic control panel

Control panel is installed in operators cabin, which allows convenient control over position of rear mowers on headlands and during transport.



Transport position

Lowered pivot point allowed for transport height reduction, (less than 4 m / 13'), what ensures safe and comfortable operation on public roads.



In case of using tractor with revers system, KDF front mower can be mounted on KDD-R joint fra-

me. Such solution considerably improves operating comfort and work efficiency of mower set.



Overlapping of cutting units

Overlapping of front and rear mowers is factory set for 375 mm (1' 2/5"). MegaCUT set always presents three windrows.



		MegaCUT-R 861 H	GigaCUT-R 861 SH / SLH*	MegaCUT-R 941 H	GigaCUT-R 941 SH / SLH*
TECHNICAL DETAILS	Working width [m]*	8,60 / 28'2"	8,60 / 28'2"	9,40 / 30'10"	9,40 / 30'10"
	Transport width / height [m]	3,00 / 3,80 9'8" / 12'8"	3,00 / 3,80 9'8" / 12'8"	3,00 / 3,95 9'8" / 13'	3,00 / 3,95 9'8" / 13'
	Swath width [m]	2 x 1,90 - 2,30 2 x 6'3" - 7'7"	2 x 1,40 - 2,00 2 x 4'7" - 6'7"	2 x 2,30 - 2,70 2 x 7'7" - 8'1"	2 x 1,80 - 2,30 2 x 5'11" - 7'7"
	Necessary hydraulic couplers	(2 x single acting)			
	Working capacity [ha / h]*	~ 10,00 / 25,00		~ 11,00 / 27,00	
	Number of discs [pcs.] Number of knives [pcs.]	14 (22 with mower KDF 340) / 42-44		16 (24 with mower KDF 340) / 46-48	
	RPM	1000			
	3-point hitch cat.	III			
	Power demand [HP]*	from 150	from 160	from 160	from 180
	Weight [kg / lbs] Weight with „H“ [kg]	3040 / 6700 3120 / 6880	4210 / 4010 // 9280 / 8840 4090 / 3890 // 9015 / 8575	3130 / 6900 3210 / 7075	4610 / 4410//10165 / 9725 4490 / 4290//9900 / 9460
PTO shaft	tractor - mower: no clutch, built-in: with overrunning friction clutch				

* S / SL - tine conditioner / light-weight tine conditioner with plastic tines



GigaCUT

GigaCUT set

KDD 861 S / SL, KDD 861 W, KDD 941 S / SL, KDD 941 W



Huge combination

PerfectCUT

Economy of mowing together with high efficiency is the best description of GigaCUT sets. They have been designed to work on large farms in the toughest conditions possible. GigaCUT combination consists of double-sided mower KDD 861 S/W or 941 S/W and front mower KDF300 S/W or KDF 340 S/W + belt conveyors. Owing to tine or roller conditioner, use of tedder and rake is no longer necessary besides that is a perfect alternative to self-propelled mowers.

Safety guard

- lifted for easier maintenance
- safety curtain - protects against stones
- resistant to weather conditions
- lifted side guard decreases transport height

Ground pressure relief system

- adjustable work unit support - high level of ground following,
- spring-type as standard,
- hydropneumatic type (option)

KENNFIX hydraulic connector

4 support legs:

- support legs enable parking of the machine in transport position
- saves space considerably

Hydraulic safety breakaway device

- protection of mower against damage
- if obstacle is hit the unit is retracted by 24° and at the same time lifted by approx. 50 cm / 1' 8"

Warning plates

with rear road lights (standard)

Belt conveyor

- less drives
- speed adjustment
- no need of tedding and raking

Central suspension

- work unit located in the center of gravity - even support across the whole cutterbar width,
- perfect ground following enabling work on uneven ground.

Close-up sensors

- adjustable
- provides easier working on headlands

PerfectCUT Cutterbar

*more on p. 12-13

Advantages and equipment of GigaCut set :

- PerfectCUT cutterbar with quick knife replacement system
- Protection against stones (quick disc module replacement in case of obstacle collision)
- Central suspension
- 4 support springs reduce ground pressure and limit mowing disturbances
- Hydropneumatic suspension as an option
- Integrated gearbox
- Hydraulic safety breakaway device protects the mower against hitting immovable obstacles. In the event of hitting an immovable obstacle the cutterbar folds back and at the same time rises about 50 cm (20"). The cutterbar automatically comes back to its working position once the obstacle is passed
- Adjustable swath guides
- Electronic control panel
- Latch mechanism for safety during transport
- Own hydraulic and cooling system

GigaCUT set can be equipped with tine or roller conditioner. Additionally, belt conveyors can be mounted, owing to which raking is eliminated and therefore the forage harvester needs three times less runs to pick up the crop.



GigaCUT

Lots of possibilities to collect the crop

KDD 861 S / SL, KDD 861 W, KDD 941 S / SL, KDD 941 W



High efficiency

PerfectCUT



PTO shaft with friction clutch

Drive from the central gearbox to the cutterbars is transmitted through PTO shafts with overrunning friction clutch, which secure cutterbars from damage.



Hydraulic unit

The mower has its own hydraulic unit : oil pump, oil container, radiator with a fan and regulated end valve for belt conveyors speed adjustment.



Oil level and temperature indicator

Integrated level and temperature indicator placed on oil tank.



Main gearbox - 184 kW



Belt conveyors drive

Belt conveyors are driven by their own hydraulic unit (hydraulic pump, radiator and two hydromotors). Turning the conveyors on is done on electronic control panel mounted in tractor's cabin. Mergers work independently with variable speed rates.



Belt conveyor's cleaning mechanism

Belt conveyor is equipped with roller cleaning mechanism, owing to which the dirt can be easily removed without necessity to take off the belt. In order to reduce dirt gathering and protect the belt a new type of cleaning brushes was applied.



Belt conveyor

Strong beams suspend the belt conveyor for ultimate stability when operating in heavy crops, uneven fields and on the slope. They swing the unit up and out of the way when the mower is producing single or wide windrows. Single-acting cylinder raises the belt conveyor as a reversing valve shuts it off and back on when the unit goes down, back into work.



Electronic control panel

Control panel is installed in operator's cabin, which allows for convenient control over position of rear mowers on headlands and during transport. It allows for belt conveyor speed adjustment.



GigaCUT



The art of cutting



PerfectCUT



Manufacturer's advice

Belt conveyor speed can be adjusted via electronic control panel (see p. 30) Ranging from 0 ÷ max. Maximum windrow width of 2,8 m (9' 1/5") may be reached when cutting low and medium grass. When cutting heavy grass, conveyor speed has to be increased due to the weight of the material. This automatically narrows windrow presentation. There is a possibility to move the conveyors

left or right along the mowers frame +/- 200 mm (7 3/4"). However, an operation with the conveyors moved to an extreme point may cause unbalancing of the set. In that case of having 3,5 m (11 2/5') wide swath SaMASZ can manufacture shorter conveyors.

Transport width

In this position permitted transport width of 3 m is not exceeded.

Adjustment of cutting units

Overlapping of front and rear mowers is factory set for 375 mm (14 3/5"). MegaCUT set always presents three windrows.



TECHNICAL DETAILS		KDD 861 S / SL	KDD 861 W	KDD 941 S / SL	KDD 941 W
	Working width [m / ft]	8,60 / 28'2"	8,60 / 28'2"	9,40 / 30'10"	9,40 / 30'10"
	Transport width / height [m / ft]	3,00 / 3,80 9'8" / 12'8"	3,00 / 3,80 9'8" / 12'8"	3,00 / 3,95 9'8" / 13'	3,00 / 3,95 9'8" / 13'
	Swath width [m / ft]	2 x 1,90 - 2,30 2 x 6'3" - 7'7"	2 x 1,40 - 2,00 2 x 4'7" - 6'7"	2 x 2,30 - 2,70 2 x 7'7" - 8'1"	2 x 1,80 - 2,30 2 x 5'11" - 7'7"
	Necessary hydraulic couplers	3 x single acting (with panel 1 x single acting)			
	Working capacity [ha/h / ac/h]	~ 10,00 / 25,00		~ 11,00 / 27,00	
	Number of discs [pcs.] Number of knives [pcs.]	14 / 28		16 / 32	
	RPM	1000			
	3-point hitch cat.	III			
	Power demand [HP]	from 160	from 160	from 180	from 180
Weight [kg / lbs]	2920 / 2650 // 6440 / 5840	3080 // 6790	3120 / 2950 // 6880 / 6500	3010 / 6635	
Weight with „H“ [kg]	2785 / 2550 // 6140 / 5620	2940 // 6480	3020 / 2830 // 6660 / 6240	2875 / 6340	
PTO shaft	tractor - mower: no clutch, built-in: with overrunning friction clutch				

TECHNICAL DETAILS		KDD 861 ST / SLT	KDD 861 WT	KDD 941 ST / SLT	KDD 941 WT
	Working width [m / ft]**	8,60 / 28'2"	8,60 / 28'2"	9,40 / 30'10"	9,40 / 30'10"
	Transport width / height [m / ft]	3,00 / 3,809'8" / 12'8"	3,00 / 3,809'8" / 12'8"	3,00 / 3,959'8" / 13'	3,00 / 3,959'8" / 13'
	Swath width [m / ft]	2 x 1,90 - 2,30 2 x 6'3" - 7'7"	2 x 1,40 - 2,002 x 4'7" - 6'7"	2 x 2,30 - 2,702 x 7'7" - 8'1"	2 x 1,80 - 2,302 x 5'11" - 7'7"
	Necessary hydraulic couplers	3 x single acting (with panel 1 x single acting)			
	Working capacity [ha/h / ac/h]**	~ 10,00 / 25,00		~ 11,00 / 27,00	
	Number of discs [pcs.] Number of knives [pcs.]	14 / 28		16 / 32	
	RPM	1000			
	3-point hitch cat.	III			
	Power demand [HP]	from 160	from 160	from 180	from 180
Weight [kg / lbs]	3791 / 3521// 8360 / 7760	3951 // 8710	4057 / 3887 // 8945 / 8565	3947 / 8700	
Weight with „H“ [kg / lbs]	3656 / 3421 // 8060 / 7540	3811 / 8400	3957 / 3767 // 8725 / 8305	3812 / 8405	
PTO shaft	tractor - mower: no clutch, built-in: with overrunning friction clutch				

S / SL - tine conditioner / light-weight tine conditioner with plastic tines W - roller conditioner T - transporter



Selected SaMASZ machines

extension arms



drum mowers



flail mowers



disc mowers



snow plows



rotary rakes and tedders



tractor gritters and sweepers





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True passion and constant seeking of the best solutions are amongst the ideas, which have been essential for the SaMASZ employees and have become the key to the company's success.

What contributes the most to constant and dynamic development of the company are close contact with our customers and staying open to their needs. Thanks to dialogue with our present and future clients and trying to meet their expectations we create and strengthen up the basis of our dynamic success. We are creating the brand, which is already well recognized not only in the whole Europe, but also in the world.

Considering constant development as our top priority, we invest in product research. Our employees are the most talented Technical University graduates, who are not only experts in their own fields, but also bring in a great dose of professionalism and passion to their duties. You can always count on their competence and reliability.

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Today, SaMASZ is the top Polish and one of the major European manufacturers of forage machinery. Our offer includes more than 300 types of different machines: drum mowers, disc mowers, tedders, rakes, flail mowers, extension arms or snow plows. Since the beginning we managed to manufacture and sell more than 110 000 mowers and few thousands of other machines. We export to more than 50 countries around the world. Our sales network includes approx. 60 companies in Poland and approx. 70 abroad.

Our main goal, which is constant development and implementation to our production cutting edge technology in order to keep the world's top quality. We are fully aware, that in this ever changing reality, customers tend to seek trading partners who are trustworthy, and therefore we have an ambition of being considered as a reliable and professional manufacturer.





For professionals



FLAIL MOWERS

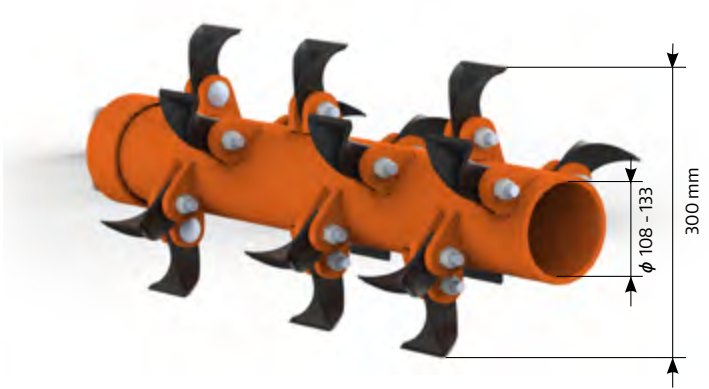
REAR, FRONT
EXTENSION ARMS AND ATTACHMENTS



TABLE OF CONTENTS	Page
Flail shafts - description	4
Flail knives	5
Rear / front flail mowers - light class: PIKO	6 - 7
Rear / front flail mowers - middle class: MIDO	8 - 9
Rear / front flail mowers - middle class: GRINO	10 - 11
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Rear flail mowers - light / middle class: KBR L / LBR	14 - 15
Rear-side flail mowers - middle / heavy class: KANDU / KBRP	16 - 17
Self-collecting flail mowers - plastic / stell container: IBIS / EMU	18 - 19
Rear extension arms: KOLIBER / KWT / CAMEL	20 - 21
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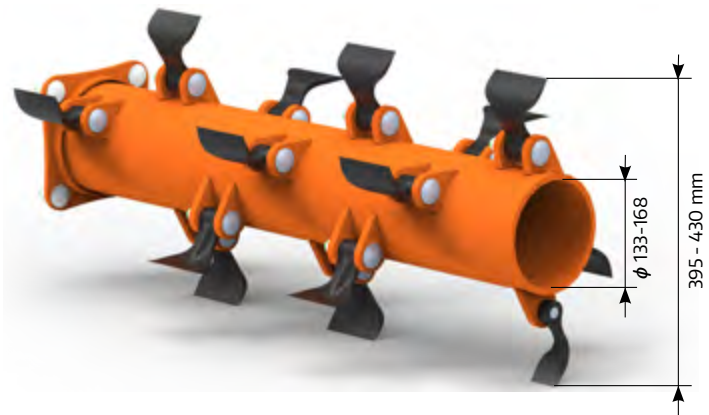
GENERAL CHARACTERISTICS OF FLAIL SHAFTS



LIGHT CLASS

(PIKO, KBR-L, LAMA)

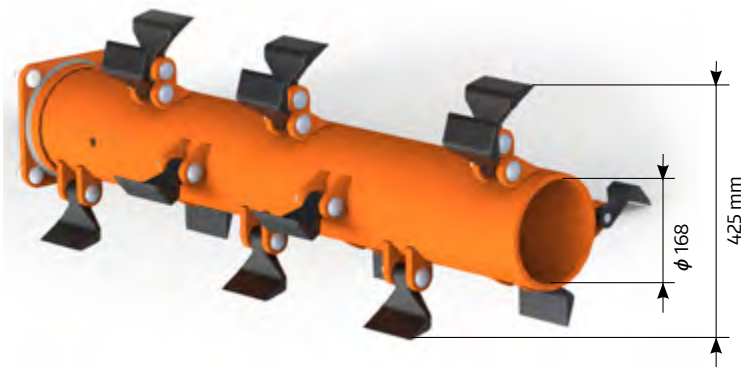
- 1. Flail shaft - ϕ 108 mm (4 1/4"), wall thickness 6,3 mm / 1/5"
- 2. Cutting shrubs (up to 3.5 cm - 1 2/5" thick depending on knife type).
- 3. Ground following bar - ϕ 108 mm or 133 mm (4 1/4" or 5 1/4").



MIDDLE CLASS

(MIDO, GRINO, KANGU, KW, KBR)

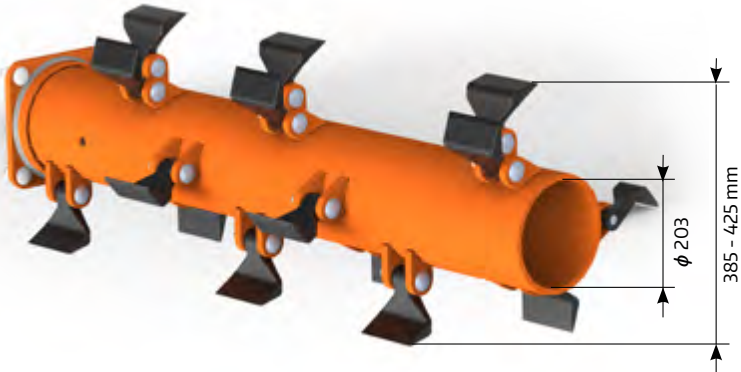
- 1. Flail shaft :
 - Grino - ϕ 168 mm (6,3/5"),
 - Mido, Kangu, KW, KBR - ϕ 133 mm (5 1/5"),wall thickness:
 - Grino, KW, KBR - 8,8 mm / 2/5"
 - Mido, Kangu - 10 mm / 2/5"
- 2. Cutting shrubs and bushes (up to ϕ 6 cm / 2 2/5" thick depending on knife type).
- 3. Ground following bar - ϕ 133 mm or 168 mm (5 1/4" or 6 3/5").



HEAVY CLASS

(KBRP)

- 1. Flail shaft - ϕ 168 mm (6 3/5"), wall thickness 8,8 mm / 2/5"
- 2. Cutting shrubs and bushes (up to ϕ 7 cm - 3 1/5").
- 3. Ground following bar - ϕ 168 mm (6 3/5").



SUPER HEAVY CLASS

(MAMUT)

- 1. Flail shaft - ϕ 203 mm (8"), wall thickness 10 mm / 2/5"
- 2. Cutting shrubs and bushes (up to ϕ 8 cm - 3 1/5").
- 3. Ground following bar - ϕ 203 mm (8")

FLAIL KNIVES



~ 1,2 kg
(2,65 lbs)

KNIFE TYPE I

Max. diameter of branches to be cut:
 ϕ 80 mm (3 1/5"),
Width: 140 mm, Length: 98 mm.



~ 0,6 kg
(1,3 lbs)

KNIFE TYPE II

Max. diameter of branches to be cut:
 ϕ 35 mm (1 2/5"),
Width: 104 mm (2x 52 mm), Length: 120 mm.



~ 1,0 kg
(2,2 lbs)

KNIFE TYPE III

Max. diameter of branches to be cut:
 ϕ 35 mm (1 2/5"),
Width: 104 mm, Length: 120 mm.



~ 1,0 kg
(2,2 lbs)

KNIFE TYPE IV

Max. diameter of branches to be cut:
 ϕ 35 mm (1 2/5"),
Width: 102 mm, Length: 115 mm.



~ 0,6 kg
(1,3 lbs)

KNIFE TYPE V

Max. diameter of branches to be cut:
 ϕ 50 mm (2"),
Width: 100 mm, Length: 105 mm.



~ 1,4 kg
(3,1 lbs)

KNIFE TYPE VI

Max. diameter of branches to be cut:
 ϕ 80 mm (3 1/5"),
Width: 120 mm, Length: 110 mm.



~ 0,2 kg
(0,45 lbs)

KNIFE TYPE VII

Max. diameter of branches to be cut:
 ϕ 20 mm (4/5"),
Width: 68 mm, Length: 73 mm.



~ 0,3 kg
(0,65 lbs)

KNIFE TYPE VIII

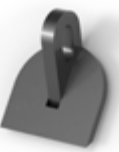
Max. diameter of branches to be cut:
 ϕ 20 mm (4/5"),
Width: 84 mm (2x 42 mm), Length: 82 mm.



~ 0,3 kg
(0,65 lbs)

KNIFE TYPE IX

Max. diameter of branches to be cut:
 ϕ 35 mm (1 2/5"),
Width: 70 mm, Length: 70 mm.



~ 0,3 kg
(0,65 lbs)

KNIFE TYPE X

Max. diameter of branches to be cut:
 ϕ 35 mm (1 2/5"),
Width: 62 mm, Length: 62 mm.



~ 0,2 kg
(0,45 lbs)

KNIFE TYPE XI

Max. diameter of branches to be cut:
 ϕ 15 mm (0,6"),
Width: 72 mm, Length: 88 mm.



~ 0,3 kg
(0,65 lbs)

KNIFE TYPE XII

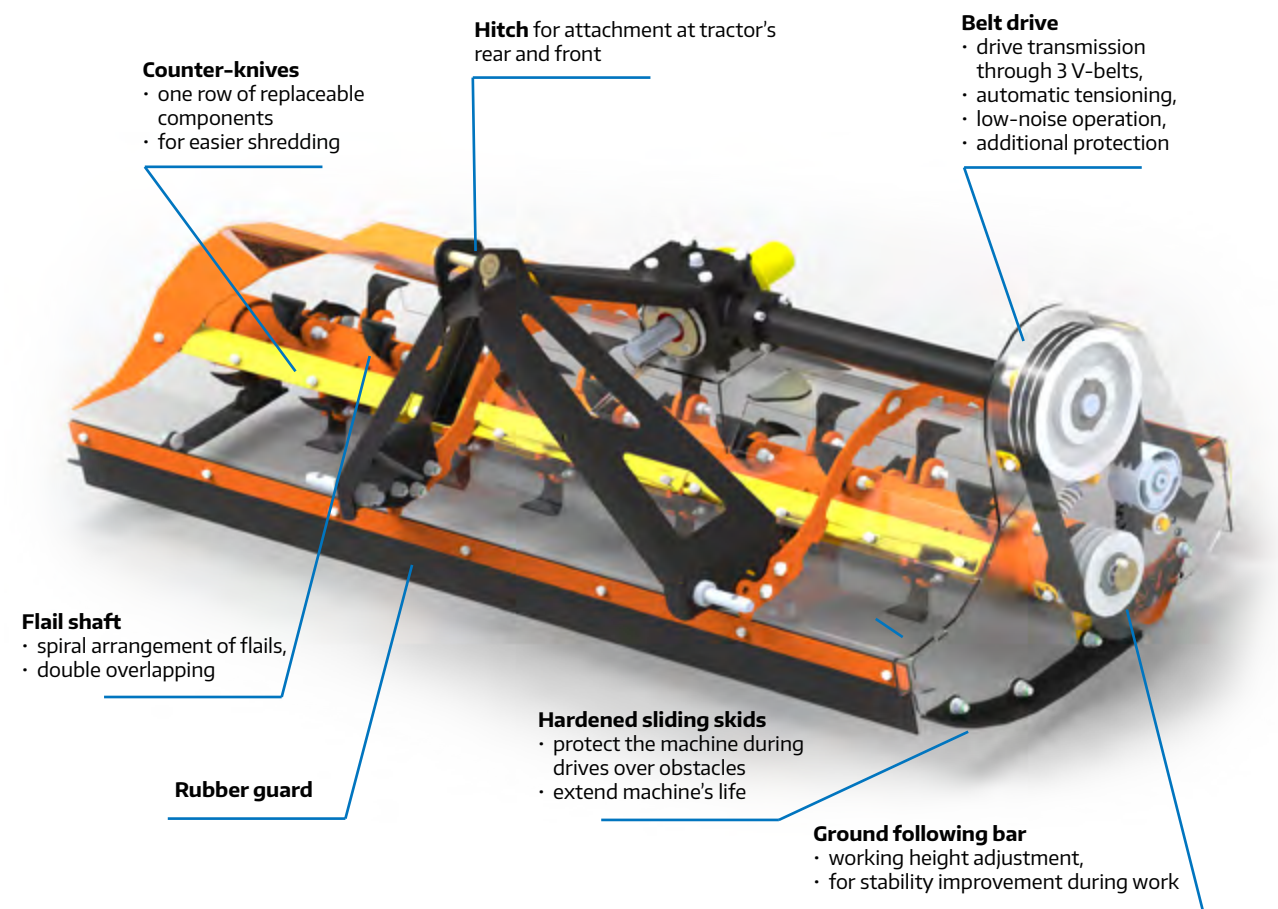
Max. diameter of branches to be cut:
 ϕ 15 mm (0,6"),
Width: 75 mm, Length: 122 mm.

Flail knife types

Type	Standard	Option
PIKO	VII	VIII, X
MIDO	V	II, III, IV
GRINO	V	II, III, IV
MAMUT	VI	III, IV
KBR	I	II, III, IV
KBR L	VII	VIII, IX
KANGU	V	II, III, IV
KBRP	I	II, III, IV
LAMA	V*, VII	VIII, IX
KW	I	II, III, IV
EMU	I	-
IBIS	VII	IX, XI, XII

* only in mowing head LAMA 121 HD

ADVANTAGES OF PIKO FLAIL MOWERS



OTHER ADVANTAGES OF PIKO FLAIL MOWERS

Design	<ul style="list-style-type: none">- double sided hitch can be installed easily for attachment either at tractor's front or rear- low weight owing to use of high quality steel- gearbox with integrated clutch
Ground following bar	<ul style="list-style-type: none">- automatic cleaning with flails- no pressing of cut material
Flail shaft	<ul style="list-style-type: none">- equipped with double row barrel bearings- arrangement of flails provides intensive shredding of material and faster drying and decomposition- less drives - time savings- lower load of machine and tractor

OPTIONAL EQUIPMENT

Hydraulic side shift (version with H)
Range up to 320 mm (13 in)



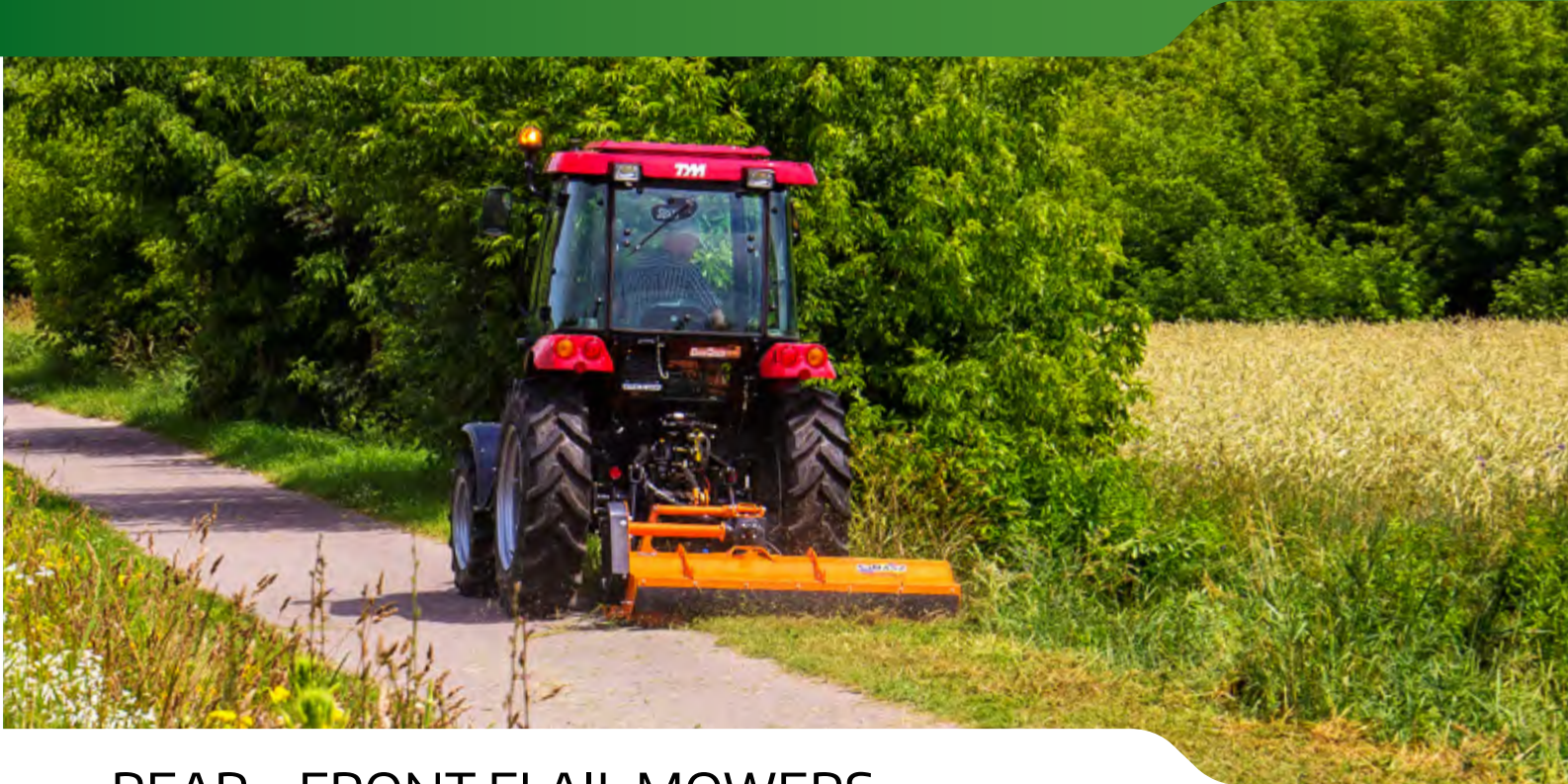
Flail knife:



TYPE VIII



TYPE X



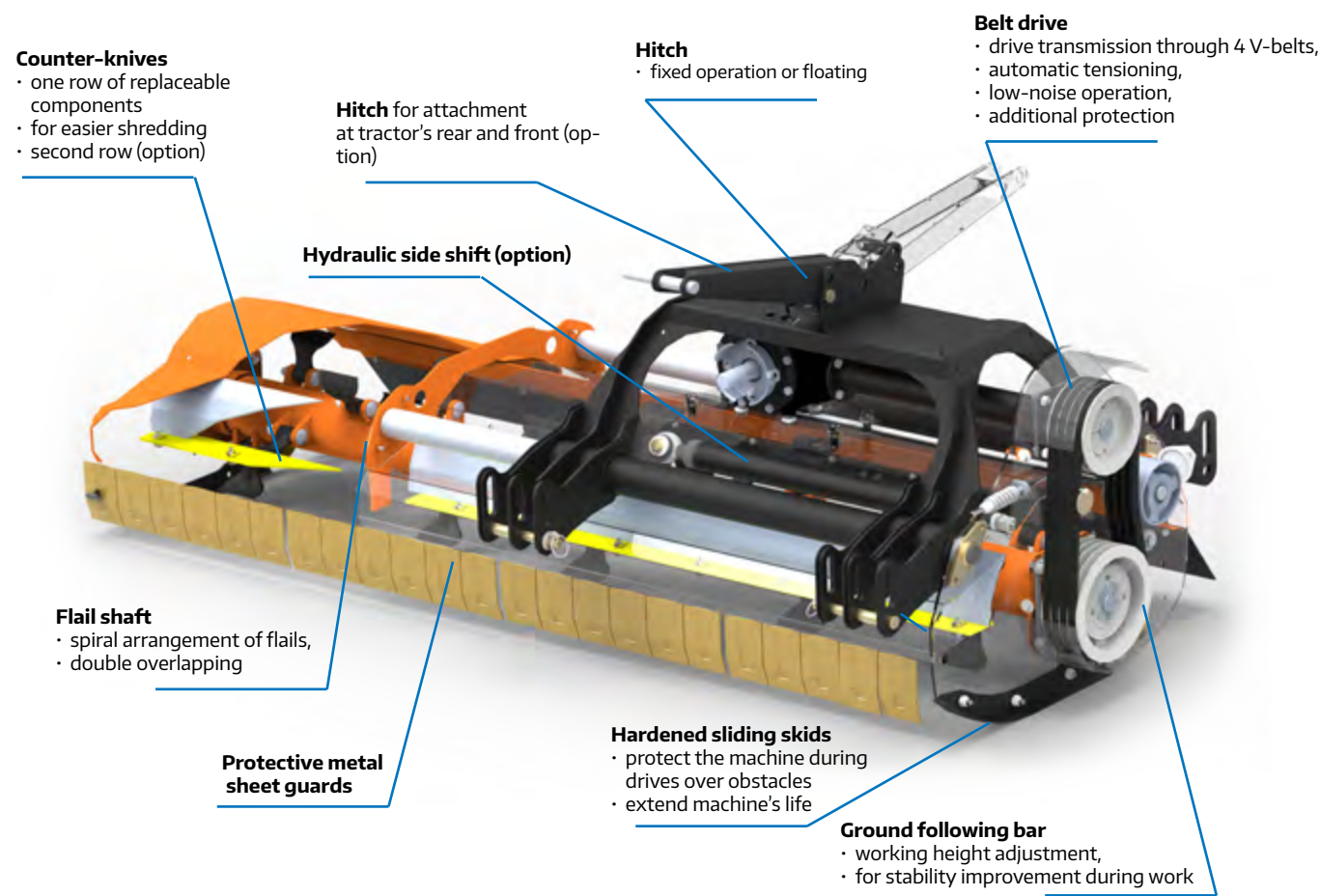
REAR - FRONT FLAIL MOWERS
PIKO - light class



Standard equipment:
Overrunning clutch integrated in gearbox · Mowing height adjustment with ground following bar · Hardened sliding skids · Adjustable support leg · Replaceable counter-knives · PTO shaft · Automatic tensioning of V-belts

Type	PIKO 100	PIKO 100 H	PIKO 130	PIKO 130 H	PIKO 150	PIKO 150 H
Working width [m / ft]	1,00 / 3'4"		1,30 / 4'4"		1,50 / 4'11"	
Necessary hydraulic couplers	-	1x double acting	-	1x double acting	-	1x double acting
Number of knives [pcs.]	26		34		40	
Number of replaceable counter-knives	1 row / 2 pcs.				1 row / 3 pcs.	
Number of V-belts	3					
Flail shaft diameter [mm /in]	ϕ 108 / 4 1/4"					
RPM	540					
Hydraulic side-shift length [mm /ft]	-	320 / 1'	-	320 / 1'	-	320 / 1'
Power demand [HP]*	from 20		from 30		from 35	
3-point hitch cat.	I					
Weight [kg / lbs]	175 / 385	205 / 450	200 / 440	230 / 510	220 / 485	250 / 550
Max. diameter of branches to be cut [mm /in]	20 / 4/5"					
PTO shaft	tractor – mower: no clutch (clutch built in gearbox)					

ADVANTAGES OF MIDO FLAIL MOWERS



REAR - FRONT FLAIL MOWERS
MIDO - middle class



~ 0,6 kg
(1,3 lbs)

KNIFE TYPE V
Standard flail knife

Standard equipment:
Overrunning clutch integrated in gearbox · Mowing height adjustment with ground following bar · Hardened sliding skids · Adjustable support leg · Replaceable, regulated (front-rear) counterknives · PTO shaft · Automatic tensioning of V-belts · Protective metal sheet guards · Mechanical side shift

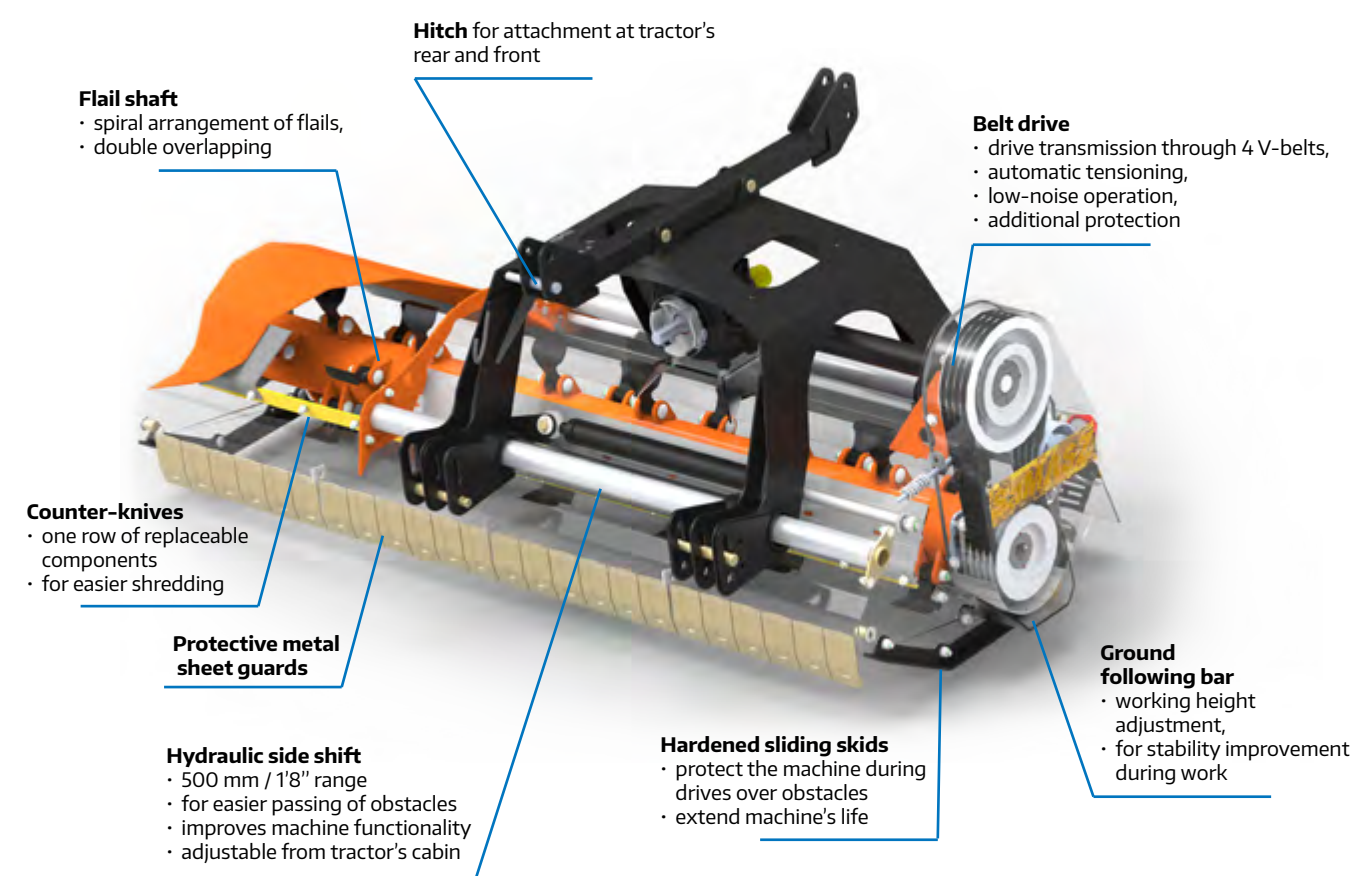
OTHER ADVANTAGES OF MIDO

Design	<ul style="list-style-type: none">- double sided hitch for attachment at tractor's front or rear (option)- high durability owing to use of high grade steel- mechanical side shift- gearbox with integrated clutch- floating function
Ground following bar	<ul style="list-style-type: none">- automatic cleaning with flails- no pressing of cut material
Flail shaft	<ul style="list-style-type: none">- equipped with double row barrel bearings- arrangement of flails provides intensive shredding of material and faster drying and decomposition- less drives - time savings- lower load of machine and tractor

NEW

Type	MIDO 200
Working width [m / ft]	2,00 / 6'7"
Number of knives [pcs.]	24
Number of replaceable counter-knives	1 row
Number of V-belts	4
Flail shaft diameter [mm / in]	ϕ 133 / 5"
RPM	540 / 1000
Hydraulic side-shift length [mm / ft] (option)	400 / 1'4"
Power demand [HP]*	from 60
3-point hitch cat.	II
Weight [kg / lbs]	500 / 1'8"
Max. diameter of branches to be cut [mm / in]	40 / 1 3/5"
PTO shaft	tractor - mower: no clutch (clutch built in the gearbox)

ADVANTAGES OF GRINO FLAIL MOWERS



REAR - FRONT FLAIL MOWERS
GRINO - middle class

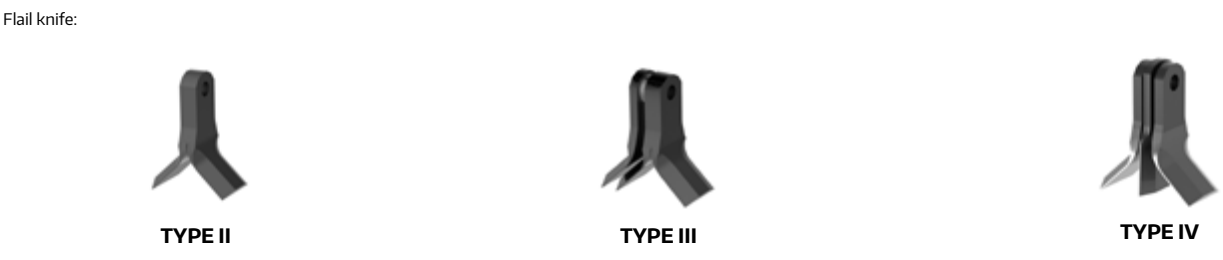


Standard equipment:
Overrunning clutch integrated in gearbox · Mowing height adjustment with ground following bar · Hardened sliding skids · Adjustable support legs · Protective metal sheet guards · Replaceable counter-knives · PTO shaft · Automatic tensioning of V-belts

OTHER ADVANTAGES OF GRINO FLAIL MOWERS

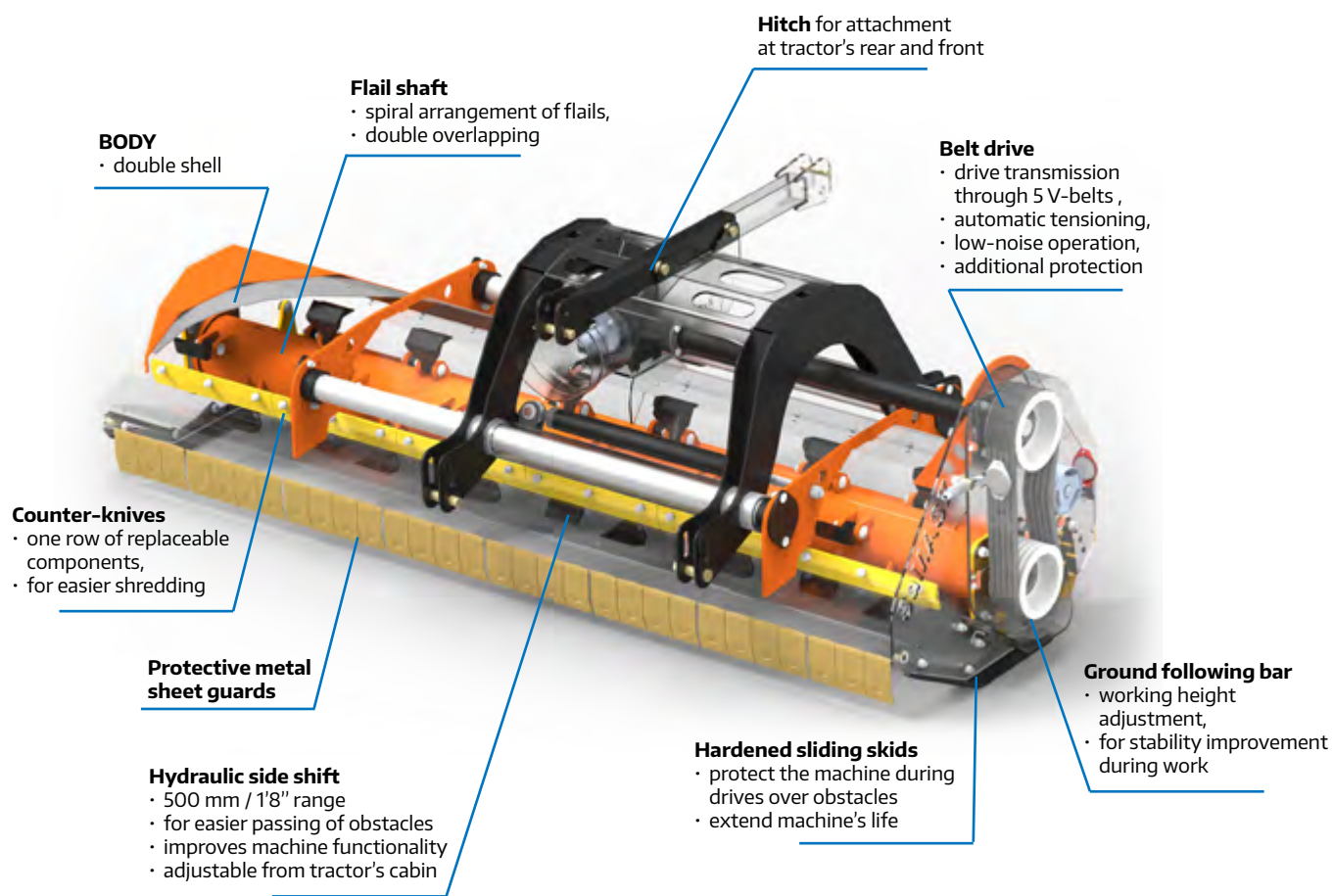
Design	<ul style="list-style-type: none">- double sided hitch for attachment at tractor's front or rear- high durability owing to use of high grade steel- metal sheet for housing reinforcement- cat. I/II hitch with floating function- gearbox with integrated clutch
Ground following bar	<ul style="list-style-type: none">- automatic cleaning with flails- no pressing of cut material
Flail shaft	<ul style="list-style-type: none">- equipped with double row barrel bearings- arrangement of flails provides intensive shredding of material and faster drying and decomposition- less drives - time savings- lower load of machine and tractor

OPTIONAL EQUIPMENT



Type	GRINO 160	GRINO 180	GRINO 200	GRINO 220
Working width [m / ft]	1,60 / 5'3"	1,80 / 5'11"	2,00 / 6'7"	2,20 / 7'2"
Necessary hydraulic couplers	1 x double acting			
Number of knives [pcs.]	20	24	30	36
Number of replaceable counter-knives [row]	1 row / 3 pcs.		1 row / 4 pcs.	
Number of V-belts	4			
Flail shaft diameter [mm/ in]	ϕ 168 / 6 3/5"			
RPM*	540 / 1000			
Hydraulic side-shift length [mm / ft]	500 / 1'8"			
Power demand [HP]	from 50	from 60	from 70	from 80
3-point hitch cat.	I / II			
Weight [kg / lbs]	580 / 1280	610 / 1345	640 / 1410	665 / 1470
Max. diameter of branches to be cut [mm / in]	50 / 2"			
PTO shaft	tractor – mower: no clutch (clutch built in the gearbox)			

ADVANTAGES OF MAMUT FLAIL MOWERS



OTHER ADVANTAGES OF MAMUT

Design	<ul style="list-style-type: none">- double sided hitch for attachment at tractor's front or rear- high durability owing to use of high grade steel- double-layer high quality metal sheet body- cat. II hitch with floating function- gearbox with integrated clutch
Ground following bar	<ul style="list-style-type: none">- automatic cleaning with flails- no pressing of cut material
Flail shaft	<ul style="list-style-type: none">- equipped with double row barrel bearings- arrangement of flails provides intensive shredding of material and faster drying and decomposition- less drives - time savings- lower load of machine and tractor

OPTIONAL EQUIPMENT

Flail knife:



TYPE III



TYPE IV



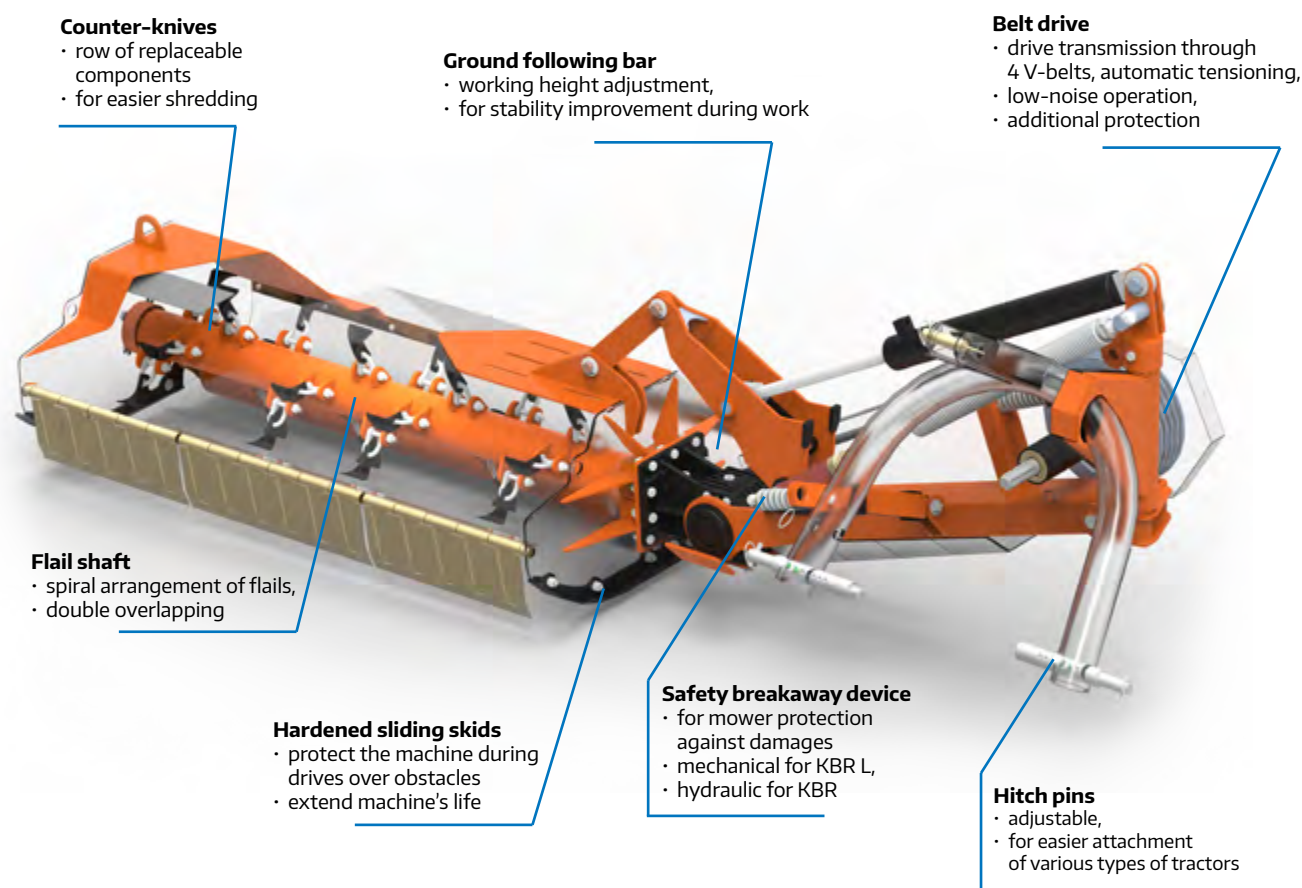
REAR FLAIL MOWERS
MAMUT- super heavy class



Standard equipment:
Overrunning clutch integrated in gearbox · Double-shell body · Mowing height adjustment with ground following bar · Hardened sliding skids · Adjustable support legs · Protective metal sheet guards · Replaceable counter-knives · PTO shaft · Automatic tensioning of V-belts

Type	MAMUT 250	MAMUT 280	MAMUT 300
Working width [m / ft]	2,50 / 6'6"	2,80 / 9'2"	3,00 / 9'8"
Transport width [m / ft]	2,70 / 8'1"	3,00 / 9'8"	3,20 / 10'6"
Necessary hydraulic couplers	1 x double acting		
Number of knives [pcs.]	30	36	42
Number of replaceable counter-knives	1 row / 6 pcs.	1 row / 6 pcs.	1 row / 7 pcs.
Number of V-belts	5		
Flail shaft diameter [mm /in]	ϕ 203 / 8"		
RPM	1000		
Power demand [HP]	from 100	from 120	
3-point hitch cat.	II		
Weight [kg / lbs]	960 / 2115	1050 / 2315	1090 / 2403
Max. diameter of branches to be cut [mm /in]	80 / 3 1/5"		
PTO shaft	tractor - mower: no clutch (clutch built in gearbox)		

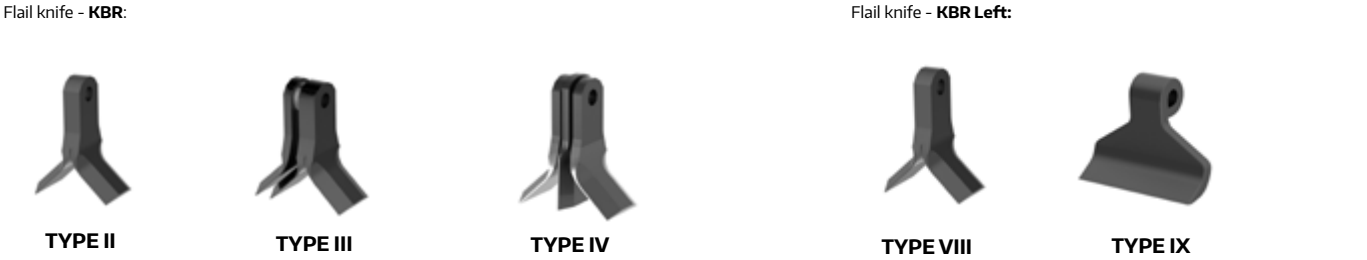
ADVANTAGES OF **KBR L** / **KBR** FLAIL MOWERS



OTHER ADVANTAGES OF **KBR L** / **KBR** FLAIL MOWERS

Design KBR L	<ul style="list-style-type: none">- enables work within -65 ° and +90 °- metal sheet for housing reinforcement- low weight owing to use of high-quality steel- gearbox with integrated Rotex clutch- front metal sheet guards
Design KBR	<ul style="list-style-type: none">- enables work within -65 ° and +90 °- front protective chains- gearbox with integrate clutch (SaMASZ design)- unlike KBR L the KBR mower is designed for work under more difficult conditions
Ground following bar	<ul style="list-style-type: none">- automatic cleaning with flails- no pressing of cut material
Flail shaft	<ul style="list-style-type: none">- equipped with double row barrel bearings- arrangement of flails provides intensive shredding of material and faster drying and decomposition- less drives - time savings- lower load of machine and tractor

OPTIONAL EQUIPMENT



REAR FLAIL MOWERS

KBR L - light class

KBR - middle class

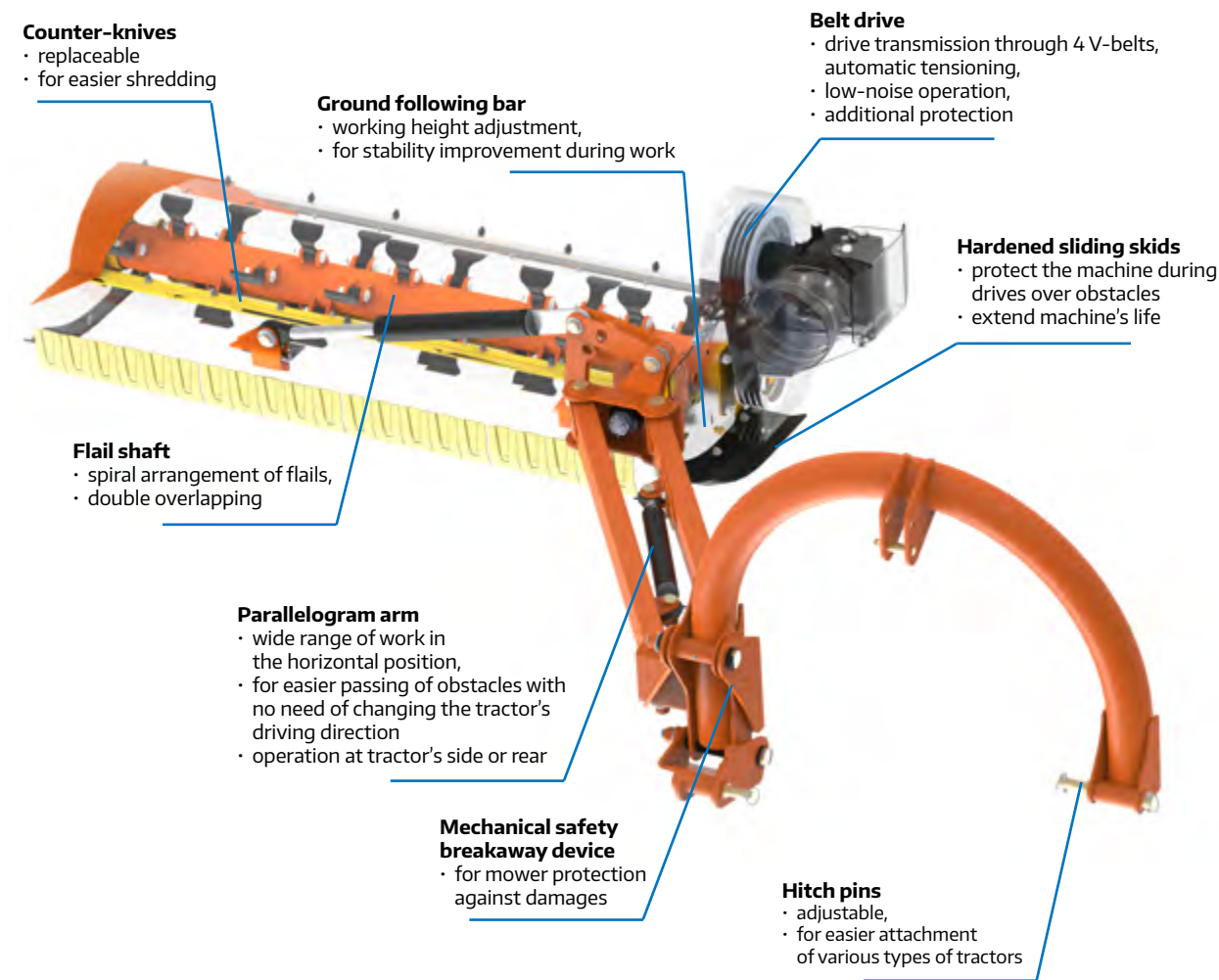
Standard equipment KBR L:
Hydraulic cylinder · Mechanical safety breakaway device · Mowing height adjustment with ground following bar · Rear rubber guard · Adjustable hitch pins · Front protective metal sheet guards · Adjustable support leg · PTO shaft · Automatic tensioning of V-belts

Standard equipment KBR:
Hydraulic cylinder · Hydraulic safety breakaway device · Limiting chain · Mowing height adjustment with ground following bar · Rear rubber guard · Adjustable hitch pins · Front protective chains · PTO shaft · Automatic tensioning of V-belts



Type	KBR 120 L	KBR 140 L	KBR 140	KBR 160
Working width [m / ft]	1,20 / 3'11"	1,40 / 4'7"	1,40 / 4'7"	1,60 / 5'3"
Necessary hydraulic couplers	1 x single acting		1 x single acting	
Number of knives [pcs.]	20	24	12	14
Number of counter knives	1 row / 1 pcs.		1 row / 1 pcs.	
Flail shaft diameter [mm /in]	ϕ 108 / 4 1/4"		ϕ 133 / 5 1/4"	
RPM	540		540	
Power demand [HP]	from 30	from 35	from 50	from 70
3-point hitch cat.	I / II		II	
Weight [kg / lbs]	410 / 905	430 / 950	670 / 1480	705 / 1555
Max. diameter of branches to be cut [mm /in]	20 / 4/5"		60 / 2 2/5"	
PTO shaft	tractor – mower: with overrunning clutch			

ADVANTAGES OF **KANGU** / **KBRP** FLAIL MOWERS



OTHER ADVANTAGES OF **KANGU** / **KBRP** FLAIL MOWERS

Design KANGU	<ul style="list-style-type: none">- enables work within -65 ° and +90 °- high durability owing to use of high grade steel- gearbox with integrated clutch- front metal sheet guards
Design KBRP	<ul style="list-style-type: none">- enables work within -65 ° and +90 °- high durability owing to use of high grade steel- metal sheet for housing reinforcement- front protective chains- unlike KANGU the KBRP mower is designed for work under more difficult conditions
Ground following bar	<ul style="list-style-type: none">- automatic cleaning with flails- no pressing of mowed material
Flail shaft	<ul style="list-style-type: none">- equipped with double row barrel bearings- arrangement of flails provides intensive shredding of material and faster drying and decomposition- less drives - time savings- lower load of machine and tractor

OPTIONAL EQUIPMENT

FLAIL KNIFE - **KANGU** / **KBRP**:



TYPE II



TYPE III



TYPE IV



FLAIL MOWERS REAR SIDE

KANGU - middle class
KBRP - heavy class



KNIFE TYPE I
Standard flail knife **KBRP**

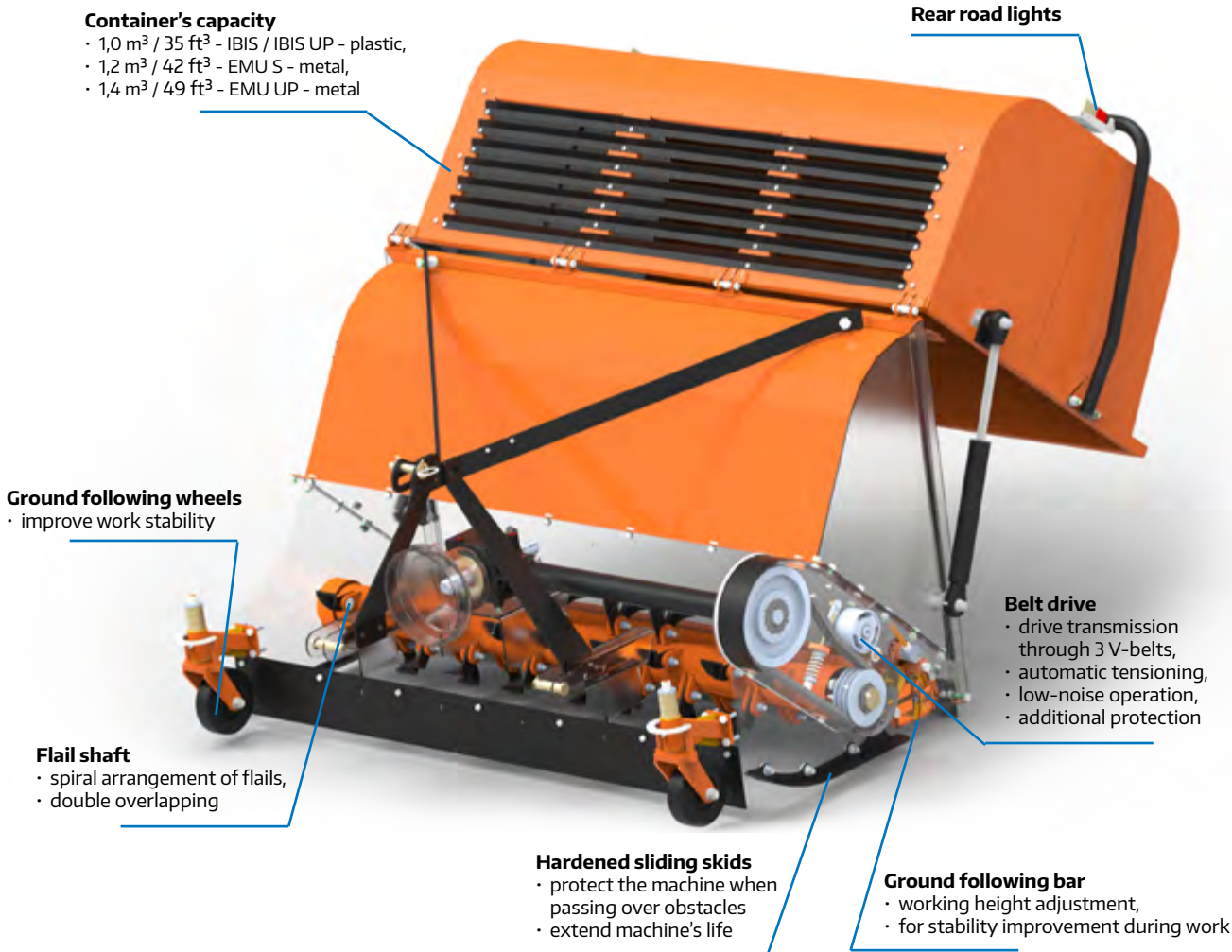


KNIFE TYPE V
Standard flail knife **KANGU**

Standard equipment:
Overrunning clutch integrated with gearbox (**KANGU**) • Mechanical safety breakaway device • Mowing height adjustment with ground following bar • Rear rubber guard • Front metal sheet guard (**KANGU**) • Wide-angle PTO shaft • Automatic tensioning of V-belts

TYPE	KANGU 140	KANGU 190	KBRP 160	KBRP 200
Working width [m / ft]	1,40 / 4'7"	1,90 / 6'3"	1,60 / 5'3"	2,00 / 6'7"
Necessary hydraulic couplers	2 x double acting			
Number of knives [pcs.]	24	30	14	16
Number of counter knives	1 row / 2 pcs.		1 x fixed	
Range of work	from -60° to +90°			
Flail shaft diameter [mm /in]	ϕ 133 / 5 1/4"		ϕ 168 / 6 3/5"	
RPM	540			
Power demand [HP]	from 50	from 70	from 70	from 80
3-point hitch cat.	II			
Weight [kg / lbs]	540 / 1190	660 / 1455	760 / 1675	825 / 1820
Max. diameter of branches to be cut [mm /in]	50 / 2"		80 / 3 1/5"	
PTO shaft	tractor - mower: wide-angle (overrunning clutch in gearbox)		tractor - mower: wide-angle with overload clutch	

ADVANTAGES OF IBIS / EMU FLAIL MOWERS



OTHER ADVANTAGES OF EMU / IBIS FLAIL MOWERS

Design IBIS	<ul style="list-style-type: none">- simultaneous cutting and grass pick-up- hydraulic discharge- low weight owing to use of high-quality steel- front protective rubber guards- unlike EMU intended for areas of special care- designed for low power tractors- container's discharge possible directly on the trailer (IBIS UP) - up to 2 m / 6'7"
Design EMU	<ul style="list-style-type: none">- simultaneous cutting and grass pick-up- hydraulic discharge- container's discharge possible directly on the trailer (EMU UP) - up to 2 m / 6'7"- high strength owing to use of high grade steel- gearbox with integrated clutch- front metal sheet guards
Ground following bar	<ul style="list-style-type: none">- automatic cleaning with flails- stepless working height adjustment (IBIS)
Flail shaft	<ul style="list-style-type: none">- equipped with double row barrel bearings- arrangement of flails provides intensive shredding of material and faster drying and decomposition- less drives - time savings- lower load of machine and tractor

OPTIONAL EQUIPMENT

Flail knife- IBIS:



TYPE IX



TYPE XI



TYPE XII



SELF-COLLECTING
FLAIL MOWERS WITH GRASS CONTAINER
IBIS - plastic container
EMU - steel container



KNIFE TYPE VII
Standard flail knife IBIS

~ 0,2 kg
(0,45 lbs)



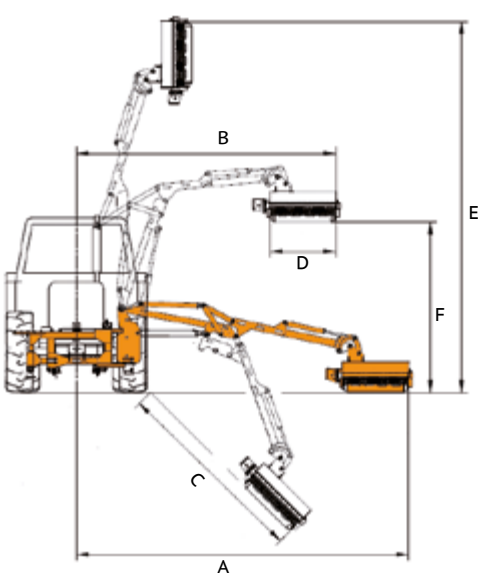
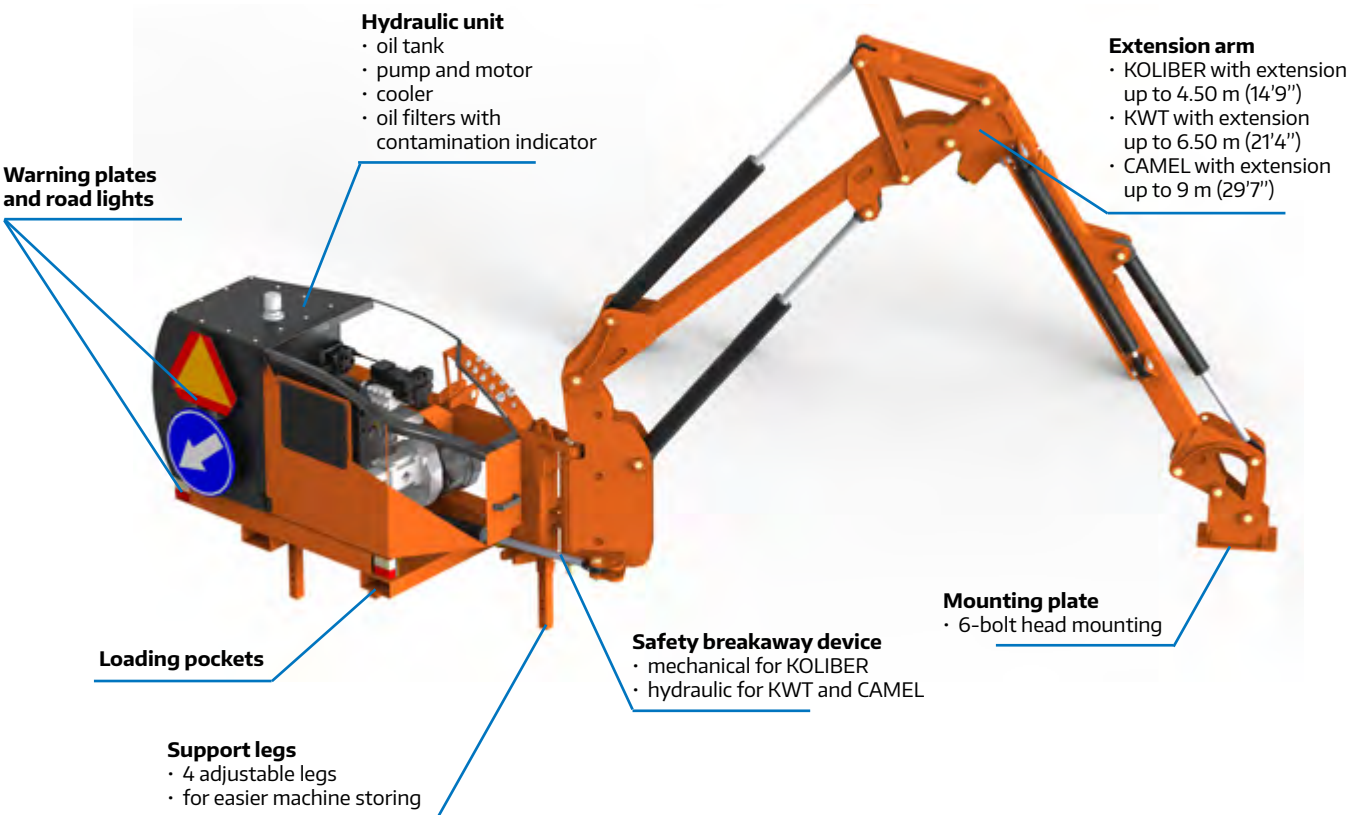
KNIFE TYPE I
Standard flail knife EMU

~ 1,2 kg
(2,65 lbs)

Standard equipment:
Hydraulic discharge · Mowing height adjustment · Front protective metal sheet guards (EMU) · Road lights · PTO shaft · Front support wheels set (IBIS) · Automatic tensioning of V-belts

TYPE	IBIS 150	IBIS 150 Up	EMU 160 S	EMU 160 Up
Working width [m / ft]	1,50 / 5'	1,50 / 5'	1,60 / 5'3"	1,60 / 5'3"
Necessary hydraulic couplers	1 x double acting	2 x double acting	1 x double acting	2 x double acting
Number of knives [pcs.]	50		14	
Number of counter knives	1 row			
RPM	540			
Power demand [HP]	from 35		from 60	
Container's capacity [m³ / cu.ft.]	0,90 / 35		1,20 / 42	1,40 / 49
Discharge height [m / ft]	-	2,00 / 6'7"	-	2,00 / 6'7"
3-point hitch cat.	I		II	
Weight [kg / lbs]	385 / 850	410 / 903	710 / 1565	905 / 1995
Max. diameter of branches to be cut [mm / in]	35 / 13/8"		60 / 2 2/5"	
PTO shaft	tractor – mower: with overrunning clutch			

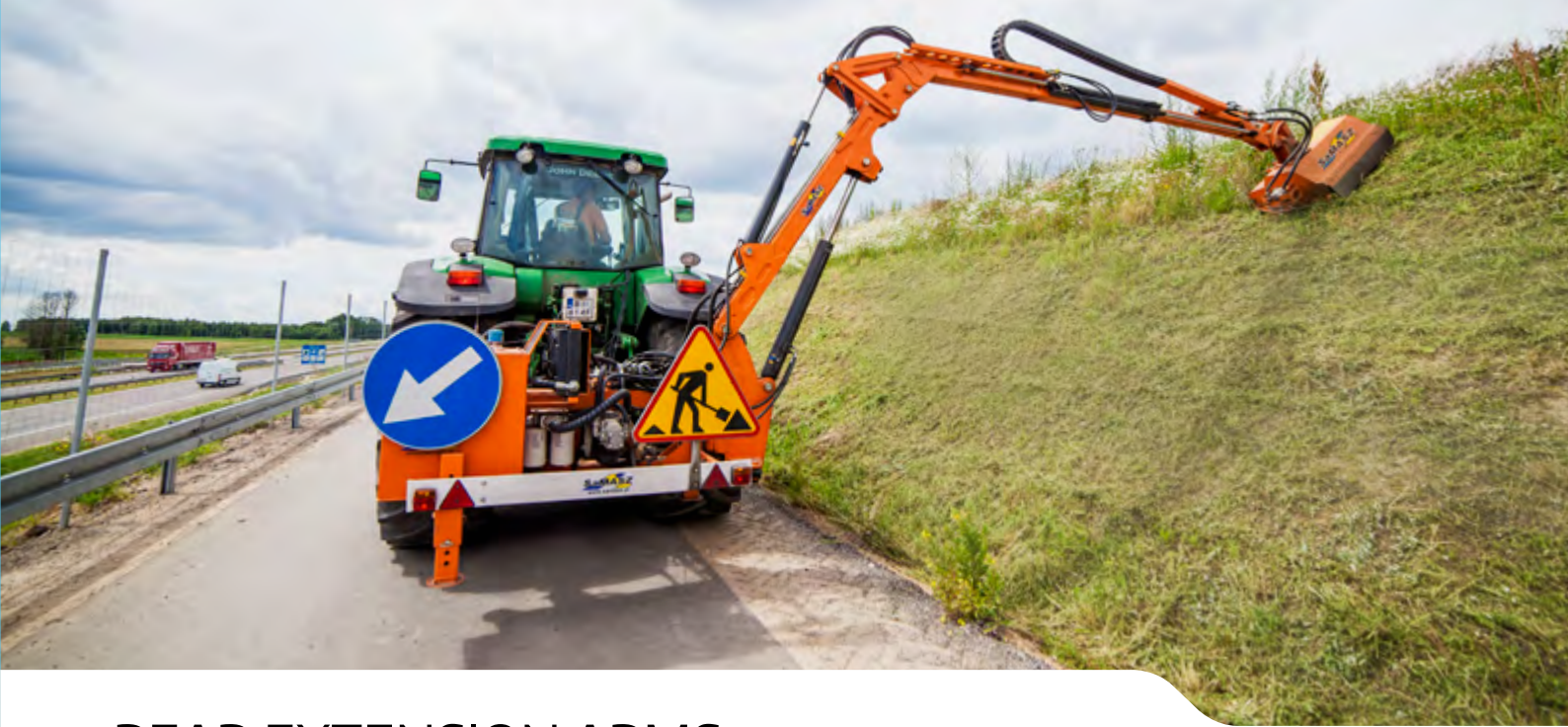
ADVANTAGES OF **KOLIBER / KWT / CAMEL** EXTENSION ARMS



	Extension arm reach with mowing head [cm/in]					
	A	B	C	D	E	F
KOLIBER 400	410 / 161	310 / 122	270 / 106	120 / 47	455 / 179	220 / 87
KOLIBER 450	460 / 181	350 / 138	320 / 126	120 / 47	505 / 199	250 / 98
KWT 550 / KW 110	570 / 224	440 / 173	340 / 134	110 / 43	640 / 252	290 / 114
KWT 550 / KW 125	570 / 224	450 / 177	340 / 134	130 / 51	640 / 252	290 / 114
KWT 550 / KW 140	580 / 228	450 / 177	350 / 138	150 / 59	650 / 256	290 / 114
KWT 550 / LAMA 120	580 / 228	450 / 177	350 / 138	120 / 47	650 / 256	290 / 114
KWT 550 / LAMA 140	600 / 236	470 / 185	370 / 146	140 / 55	670 / 246	290 / 114
KWT 650 / KW 110	660 / 260	530 / 209	430 / 169	110 / 43	720 / 283	300 / 118
KWT 650 / KW 125	660 / 260	530 / 209	430 / 169	130 / 51	720 / 283	300 / 118
KWT 650 / KW 140	675 / 266	540 / 213	440 / 173	150 / 59	730 / 287	300 / 118
KWT 650 / LAMA 120	670 / 264	540 / 213	440 / 173	150 / 59	730 / 287	300 / 118
KWT 650 / LAMA 140	690 / 272	560 / 220	460 / 181	140 / 55	750 / 295	300 / 118
CAMEL 900	900 / 354	690 / 272	660 / 260	120 / 47	960 / 378	520 / 205

OTHER ADVANTAGES OF **KOLIBER / KWT / CAMEL** EXTENSION ARMS

Design	<ul style="list-style-type: none">arm mounted to tractor's rear 3-point linkageadditional stabilizing brackets (KWT, CAMEL)high suspended original arm enables safe drive over obstaclesopened cover on hydraulic and electrical units
Hydraulic unit	<ul style="list-style-type: none">independent, equipped with own cooler and pumpoil tank with level indicator and temperature sensorarm equipped with hydraulic connectorshydraulic pump with capacity up to 100 l/min (26 GPM)available in option for 1000 rpm
Steering	<ul style="list-style-type: none">cable-type as standard<ul style="list-style-type: none">valves controlled with Bowden cableselectric (E) ON-OFF in option - KOLIBER:<ul style="list-style-type: none">arm is moved at constant speed adjusted with choke valvesproportional steering (EP) available in option - KWT:<ul style="list-style-type: none">arm motion speed dependent on joystick positionsimultaneous three cylinder control possible



REAR EXTENSION ARMS

KOLIBER - reach up to 4,5 m (14'9")

KWT - reach up to 6,5 m (21'4")

CAMEL - reach up to 9,0 m (29'7")



Standard equipment:

Hydraulic safety breakaway device (KWT and CAMEL) · Mechanical safety breakaway device (KOLIBER) · Cable-type control panel · Temperature and oil level indicators · Hydraulic lock · Cooler with oil filters · Adjustable support legs · Warning plates · Rear road ligts · PTO shaft · Stabilizing brackets (KWT, CAMEL)

Type	KOLIBER 400	KOLIBER 450	KWT 550	KWT 650	CAMEL 900
Arm reach [m / ft]*	4,00 / 13'1"	4,50 / 14'9"	5,50 / 18'	6,50 / 21'4"	9,00 / 29'7"
Necessary hydraulic couplers	-			1 x double acting	
Recommended tractor's weight [kg / lbs]	2400 / 5290	2900 / 6395	3700 / 8160	4300 / 9480	7500 / 16535
Oil tank capacity [L / cu.ft.]	120 / 31 us gal		200 / 52 us gal		
Pump power [kW]	33				
Pump efficiency (l/min) / (GPM)	90 / 23				
Transport width [cm / ft]	175 / 5'9"	185 / 6'1"	195 / 6'5"		190 / 6'3"
Transport height [cm / ft]	265 / 8'8"	290 / 9'6"	350 / 11'6"		400 / 13'1"
RPM	540				
Power demand [HP]	from 55		from 80	from 90	from 100
3-point hitch cat.	II				III
Weight [kg / lbs]	530 / 1170	580 / 1280	1055 / 2325	1140 / 2515	1370 / 3020
PTO shaft	tractor - mower: no clutch				
3-point hitch support brackets	-		Turnbuckle		

* Arm reach with working head 1,2 m (3'11")

ADVANTAGES OF **KWT 651** EXTENSION ARM

Hydraulic unit

- oil tank
- pump and motor
- cooler
- oil filters with contamination indicator

Extension arm

- rear mount with front-side feature

Warning Plates and Road Lights

Mounting plate

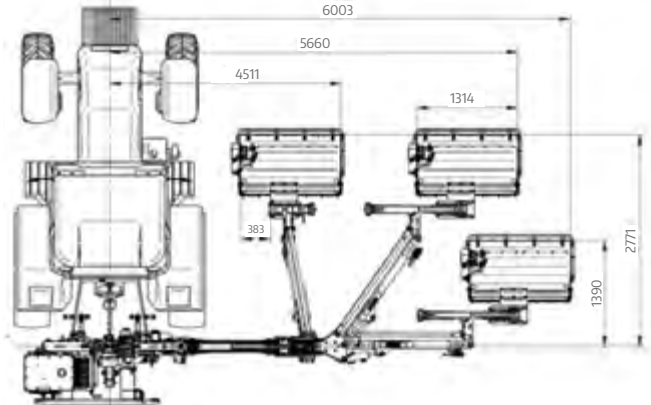
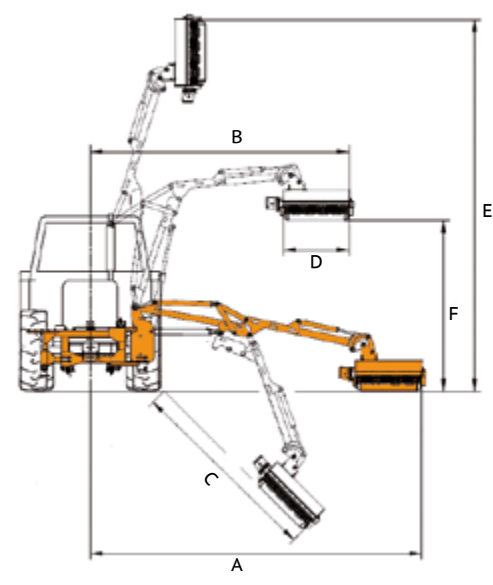
- 6-bolt head mounting

Loading pockets

Support legs

- 4 adjustable legs
- for easier machine storing

Hydraulic safety breakaway device



	Extension arm reach with working head [cm / in]						
	A	B	C	D	E	F	G
KWT 651 E / KW 110	610 / 240	530 / 209	430 / 169	110 / 43	720 / 283	300 / 118	190 / 75
KWT 651 E / KW 125	625 / 246	530 / 209	430 / 169	130 / 51	720 / 283	300 / 118	190 / 75
KWT 651 E / KW 140	650 / 256	540 / 213	440 / 173	150 / 59	730 / 287	300 / 118	190 / 75
KWT 651 E / LAMA 120	630 / 248	540 / 2013	440 / 173	150 / 59	730 / 287	300 / 118	190 / 75
KWT 651 E / LAMA 140	650 / 256	560 / 220	460 / 181	140 / 55	750 / 295	300 / 118	190 / 75

OTHER ADVANTAGES OF **KWT 651** EXTENSION ARM

Design	<ul style="list-style-type: none">- arm mounted to tractor's rear 3-point linkage- additional stabilizing plates- high suspension point enables safe and comfortable operation- opened cover on hydraulic and electrical units- enables moving an arm to the front, so that working head is in line with an operator - better visibility and comfortable work
Hydraulic unit	<ul style="list-style-type: none">- indpendent, equipped with own cooler and pump- oil tank with level indicator and temperature sensor- arm equipped with hydraulic connectors- hydraulic pump with capacity up to 100 l/min (26 GPM)- available in option for 1000 rpm
Steering	<ul style="list-style-type: none">- electric (E) as standard:<ul style="list-style-type: none">• arm is moved at constant speed adjusted with choke valves- proportional steering (EP) available in option:<ul style="list-style-type: none">• arm motion speed dependent on joystick position• simultaneous three cylinder control possible



REAR EXTENSION ARMS
KWT 651 - reach up to 6,5 m (21'4")



Standard equipment:
Electric steering with joystick • Hydraulic cylinders • Hydraulic safety device • Electric steering • Temperature and oil level indicator • Hydraulic lock • Cooler with oil filters • 3-point linkage support brackets • PTO shaft • Regulated support legs • Warning plates with road lights

Type	KWT 651
Arm reach [m / ft]*	6,40 / 21'
Recommended tractor's weight [kg / lbs]	4300 / 9480
Oil tank capacity [L / cu.ft.]	200 / 52 us gal
Pump power [kW]	33
Pump efficiency (l/min) / (GPM)	90 / 23
Transport width [cm / ft]	195 / 6'5"
Transport height [cm / ft]	350 / 11'6"
RPM	540
Power demand [HP]	from 90
3-point hitch cat.	II
Weight [kg / lbs]	1230 / 2710
PTO shaft	tractor - mower : no clutch
3-point linkage support brackets	Turnbuckle

* Arm reach with working head 1,2 m (3'11")

EXTENSION ARM ATTACHMENTS

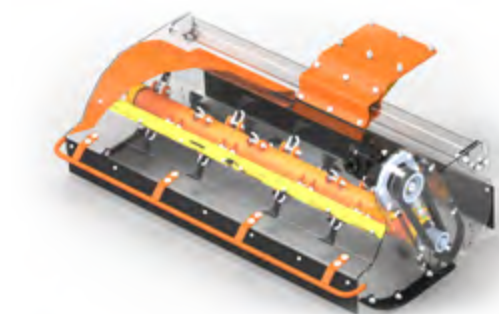
LIGHT WEIGHT MOWING HEAD LAMA 120 / 140



Technical details	LAMA 120	LAMA 140
Working width [m / ft]	1,20 / 3'11"	1,40 / 4'7"
Flail shaft diameter [mm/ in]	ϕ 108 / 4 1/4"	
Number of knives	20	24
Oil pump efficiency (l/min) / (GPM)	90-100 / 23-26	
Hydraulic pressure [bar]	210	
Weight [kg / lbs]	185 / 410	205 / 450
Arm type	KOLIBER, KWT, CAMEL	KOLIBER, KWT, CAMEL

LIGHT WEIGHT MOWING HEAD LAMA 121 / 141

- hydraulic motor mounted on top of mowing head
- manual side-shift



Technical details	LAMA 121	LAMA 141
Working width [m / ft]	1,20 / 3'11"	1,40 / 4'7"
Flail shaft diameter [mm/ in]	ϕ 108 / 4 1/4"	
Number of knives	20	24
Oil pump efficiency (l/min) / (GPM)	90-100 / 23-26	
Hydraulic pressure [bar]	210	
Weight [kg / lbs]	245 / 540	255 / 560
Arm type	KWT, CAMEL	KWT

LIGHT WEIGHT MOWING HEAD LAMA 101 P

- hydraulic motor mounted on top of mowing head
- hydraulic regulation of discharge



Technical details	LAMA 101 P
Working width [m / ft]	1,06 / 3' 4"
Flail shaft diameter [mm/ in]	ϕ 108 / 4 1/4"
Necessary hydraulic couplers	1 x double acting
Number of knives	30
Oil pump efficiency (l/min) / (GPM)	90-100 / 23-26
Hydraulic pressure [bar]	210
Weight [kg / lbs]	250 / 550
Arm type	KOLIBER, KWT, CAMEL

LIGHT WEIGHT MOWING HEAD LAMA 121 HD

- hydraulic motor mounted on top of mowing head
- mechanical side shift



Technical details	LAMA 121 HD
Working width [m / ft]	1,20 / 3'11"
Flail shaft diameter [mm/ in]	ϕ 108 / 4 1/4"
Number of knives (type IX - standard flail knife)	20
Oil pump efficiency (l/min) / (GPM)	90-100 / 23-26
Hydraulic pressure [bar]	210
Weight [kg / lbs]	270 / 595
Arm type	KWT

MOWING HEAD KW 110 / 125 / 140 - HEAVY WEIGHT



Technical details	KW 110	KW 125	KW 140
Working width [m / ft]	1,10 / 3'7"	1,25 / 4'1"	1,40 / 4'7"
Flail shaft diameter [mm/ in]	ϕ 133 / 5 1/4"		
Number of knives	10	10	12
Oil pump efficiency (l/min) / (GPM)	90-100 / 23-26		
Hydraulic pressure [bar]	210		
Weight [kg / lbs]	265 / 585	305 / 675	330 / 730
Arm type	KWT		

MOWING HEAD KW 141 - HEAVY WEIGHT

- hydraulic motor mounted on top of mowing head
- mechanical side shift



Technical details	KW 141
Working width [m / ft]	1,40 / 4'7"
Flail shaft diameter [mm/ in]	ϕ 133 / 5 1/4"
Number of knives	12
Oil pump efficiency (l/min) / (GPM)	90-100 / 23-26
Hydraulic pressure [bar]	210
Weight [kg / lbs]	280 / 620
Arm type	KWT

EXTENSION ARM ATTACHMENTS

ADDITIONAL ATTACHMENTS

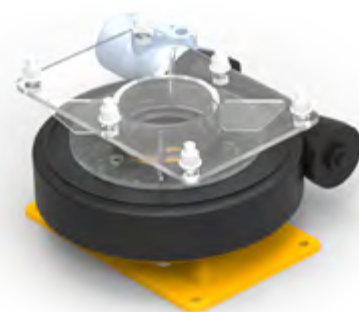
SWIVEL MOUNT - MECHANICAL

- rotation range up to 45°
- Lama 121, 141, 121 HD



SWIVEL MOUNT - HYDRAULIC

- with all mowing heads,
- stepless rotation range up to 180°



MOUNT EXTENSION

- attachment to LAMA 121 / 141 with additional bracket
- movement range up to 260 mm (~10 in)



CIRCULAR SAW PT3-190 / PT3-190 F* / PT4-250 / PT4-250 F*



Technical details	PT 3-190	PT 3-190 F	PT 4-250	PT 4-250 F
Working width [m / ft]	1,90 / 6'3"	1,90 / 6'3"	2,50 / 8'2"	2,50 / 8'2"
Circular blade [pcs.]	3	3	4	4
Oil pump efficiency (l/min) / (GPM)	70-100 / 18-26	45 - 60 / 11-18	70-100 / 18-26	45 - 60 / 11-18
Hydraulic pressure [bar]	180			
Weight [kg / lbs]	195 / 430	195 / 430	250 / 550	250 / 550
Arm type	KWT, CAMEL	FISHER	KWT	FISHER

* Free flow required

SCISSOR TRIMMER PG 150/ PG 150 F / PG 200 / PG 200 F



Technical details	PG 150	PG 150 F*	PG 200	PG 200 F*
Working width [m / ft]	1,50 / 4' 11"	1,50 / 4' 11"	2,00 / 6' 7"	2,00 / 6' 7"
Max diameter of cut branches [mm / ft]	100 / 4"			
Oil pump efficiency (l/min) / (GPM)	45-60 / 11-18			
Hydraulic pressure [bar]	160			
Weight [kg / lbs]	200 / 440	200 / 440	240 / 530	240 / 530
Arm type	KWT, CAMEL	FISHER	KWT,	FISHER

* for FISHER carrier

HYDRAULIC FRONT-LOADER EXTENSION ARM FISHER (FOR PG AND PT)



Technical details	FISHER
Side-shift [m/ft]	1,06 / 3'4"
Head rotation	100°
Necessary hydraulic couplers*	2 x double acting
Hydraulic pressure [bar]	210
Weight with mounting frame [kg/lbs]**	250 / 550
Designation	PG F, PT F

* operation with circular saw PT requires free flow - with medium pair of hydraulic couplers.
** use of snow plow adapters possible

EXTENSION ARM ATTACHMENTS

STUMP GRINDER FP 20



Technical details	FP 20
Number of knives	16
Oil pump efficiency (l/min) / (GPM)	70-100 / 18-26
Hydraulic pressure [bar]	210
Weight [kg / lbs]	90 / 200
Arm type	KWT, CAMEL

ROAD SIGN WASHER ROLLER 1000



Technical details	ROLLER 1000
Working width [m / ft]	1,00 / 3' 4"
Oil pump efficiency (l/min) / (GPM)	40 / 10
Hydraulic pressure [bar]	200
Weight [kg / lbs]	140 / 310
Arm type	KWT, CAMEL

ROAD SHOULDER GRINDER RP 110



Technical details	RP 110
Working width [m / ft]	1,10 / 3' 7"
Flail shaft diameter [mm / ft]	ϕ 168 / 6 3/5"
Oil pump efficiency (l/min) / (GPM)	70-100 / 18-26
Hydraulic pressure [bar]	210
Weight [kg / lbs]	255 / 560
Arm type	KWT, CAMEL

TANK 1000



Technical details	TANK 1000
Capacity [l/Gal]	1000 / 264
Weight (without liquid) [kg / lbs]	170 / 375
Power [V]	12
Hydraulic pressure [bar]	2,5
Oil pump efficiency (l/min) / (GPM)	15 / 15 gpm

DITCH CLEANER OR 080



Technical details	OR 080
Working width [m / ft]	0,80 / 2'7"
Number of knives	8
Oil pump efficiency (l/min) / (GPM)	80-100 / 21- 26
Hydraulic pressure [bar]	210
Weight [kg / lbs]	225 / 495
Arm type	KWT, CAMEL

MOP



Technical details	MOP 120	MOP 140	MOP 160	MOP 200
Working width [cm/ft]	120 / 3' 11"	140 / 4'7"	160 / 5'3"	200 / 6'7"
Brush rpm	140 - 160			
Brush diameter [cm/in]	60 / 24			
Working speed [km/h]	up to 10 / 7 mph			
Container capacity [dm³]	70	90	130	170
Dimensions [cm]	140 / 140 / 114	160 / 140 / 114	180 / 140 / 114	200 / 140 / 114
Length / width / height				
Weight [kg / lbs]	260 / 570	275 / 605	310 / 685	320 / 705

Selected SaMASZ machines



flail mowers



disc mowers



drum mowers



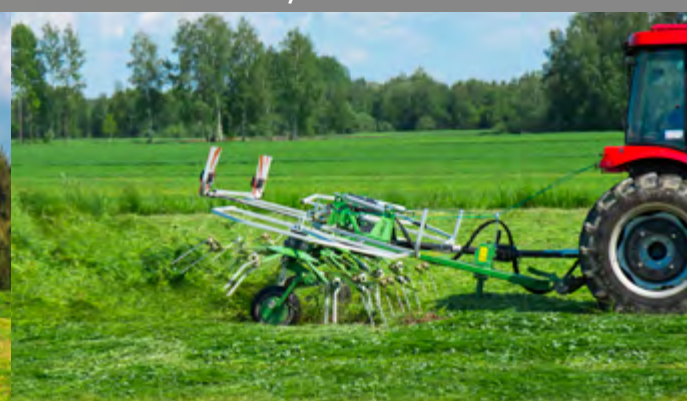
snow plows



rotary rakes and tedders



tractor gritters and sweepers





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True passion and constant seeking of the best solutions are amongst the ideas, which have been essential for the SaMASZ employees and have become the key to the company's success.

What contributes the most to constant and dynamic development of the company are close contact with our customers and staying open to their needs. Thanks to dialogue with our present and future clients and trying to meet their expectations we create and strengthen up the basis of our dynamic success. We are creating the brand, which is already well recognized not only in the whole Europe, but also in the world.

Considering constant development as our top priority, we invest in product research. Our employees are the most talented Technical University graduates, who are not only experts in their own fields, but also bring in a great dose of professionalism and passion to their duties. You can always count on their competence and reliability.

Today, SaMASZ is the top Polish and one of the major European manufacturers of forage machinery. Our offer includes more than 300 types of different machines: drum mowers, disc mowers, tedders, rakes, flail mowers, extension arms or snow plows. Since the beginning we managed to manufacture and sell more than 95,000 mowers and few thousands of other machines. We export to more than 50 countries around the world. Our sales network includes approx. 60 companies in Poland and approx. 70 abroad.

Our main goal, which is constant development and implementation to our production cutting edge technology in order to keep the world's top quality. We are fully aware, that in this ever changing reality, customers tend to seek trading partners who are trustworthy, and therefore we have an ambition of being considered as a reliable and professional manufacturer.