SaMASZ®

FLAIL MOWERS

REAR, FRONT
EXTENSION ARMS AND ATTACHMENTS

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Over 70 models
of machines for summer road maintenance

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Roads are undoubtedly the bloodstream of the modern economy. Inscribed in the landscape of green areas, cultivated meadows and pastures, they create an infrastructure including space for municipal machinery - modern "robots". These robots are designed for effective maintenance and care, which translates into measurable benefits.

SaMASZ municipal machines have been designed to meet the customers' needs, taking into account the latest technologies and trends. The reliable and versatile machines ensure efficient operation even in the toughest conditions. A wide range of machines allows you to customise them to your needs.

Convenience and ease of use, as well as the ease of configuration improve the working comfort. The machines meet the highest quality standards. Thanks to effective warranty and post-warranty service, as well as the availability of spare parts, which is highly valued by the customers, SaMASZ boasts 35 years of being a reliable partner of many municipal companies and farms.

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

Cataphoretic painting is used to coat elements that require coatings with significant corrosion resistance. Painting workpieces of SaMASZ machines is carried out on a fully automated line with a total length of 900 m. Each stage of the process is constantly monitored and recorded, which ensures the repeatability of the process as well as the highest quality of the coatings obtained.
The technology is always individually tailored to the characteristics of the workpiece and meets restrictive standards. Zinc phosphate surface preparation and KTL painting allow even the most complicated shapes with hard to reach workpiece slots to be covered. Such a coating guarantees the highest anti-corrosion resistance, which is more than 3 times higher than in the case of the standard iron phosphating.
This is extremely important, as it allows for a perfect surface finish. A well-equipped laboratory helps to monitor process parameters and coating quality, which translates into high resistance to weather conditions, corrosion, chemical and mechanical protection and aesthetic appearance.

E-COAT TOP ANTICORROSION PROTECTION

Advantages:

- high quality of the coating
- covering complex shapes
- precise control of the coating thickness
- corrosion protection
- chemical protection
- mechanical protection

Flail mowers
general characteristics

Flail mowers – mulchers are designed for general maintenance of lawns, orchards or pastures as well as carriageway grass maintenance. These machines are used to mulch straw, thicket and bushes (up to 8 cm / 3 1/5") and cut weed on undeveloped areas with intention to leave the swath spread. Mulcher's main task is to cut the grass and spread it properly crumbled along the whole width of the cut surface. It enables forming a natural swath and plant offcuts mineralization.

FLAIL MOWERS - MULCHERS

LIGHT CLASS
(PIKO • LAMA • NANO HYDRO • IBIS)

1. Flail shaft diameter - ø 108 (4 1/4") mm,
wall thickness 6,3 mm (1/5")
2. Mulching shrubs and bushes (up to 3,5 cm - 1 2/5" diameter depends on knife type),
3. Ground following bar - ø 108-133 mm (4 1/4" or 5 1/4"),

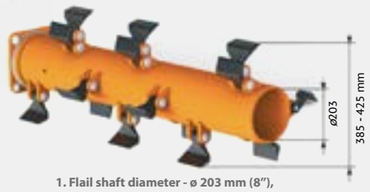
MEDIUM CLASS
(MIDO • KANGU • KW • VINO)

1. Flail shaft diameter -
- ø133 (5 1/5") -168 mm (6 3/5"),
wall thickness 8,8 mm (2/5") - 10 mm (2/5")
2. Mulching shrubs and bushes (up to 6 cm diameter depends on knife type)
3. Ground following bar - ø133 (5 1/5") - 168 mm (6 3/5")

HEAVY DUTY CLASS
(GRINO • KBRP)

1. Flail shaft diameter - ø168 mm (6 3/5"),
wall thickness 8,8 mm / 2/5"
2. Cutting shrubs and bushes (up to 7 cm - 3 1/5")
3. Ground following bar - ø 168 (6 3/5").

SUPER HEAVY DUTY CLASS
(MAMUT)



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

SaMASZ

Flail knives

~ 1,2 kg (2,65 lbs)

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

~ 0,2 kg (0,45 lbs)

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

~ 1,0 kg (2,2 lbs)

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

~ 0,3 kg (0,65 lbs)

KNIFE TYPE VIII
Max. diameter of branches to be cut:
ø20 mm (4/5"),
Width: 84 mm (2x 42 mm), Length: 82 mm.

~ 0,3 kg (0,65 lbs)

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

~ 0,3 kg (0,65 lbs)

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

~ 0,3 kg (0,65 lbs)

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

FLAIL KNIFE TYPES

TYPE	STANDARD	OPTION
PIKO	X	VII, VIII
MIDO	V	II, III, IV
VINO	VI	
NANO HYDRO	X	VII, VIII
GRINO	V	II, III, IV
MAMUT	VI	III, IV
KANGU	V	II, III, IV
KBRP	I	II, III, IV
LAMA	V*, VII	VIII, IX
KW	I	II, III, IV
IBIS	VII	IX, XI, XII

Flail mowers

PIKO 100, PIKO 130, PIKO 150, NANO 150 HYDRO

LIGHT CLASS

Light flail mower PIKO is designed for mowing squares, pitches, lawns, road shoulders or parks. After mowing it leaves even and smooth surface. Thanks to its design, application of strong bearings with their effective sealing system as well as use of highly durable materials, mower is a problem-free machine. It's light, strong and durable design provides long-lasting and reliable operation. Hydraulic side shift option (H-models) allows for shifting from one side to another, which therefore allows for obstacle passing.

Characteristics:

- PIKO mower is designed for mowing squares, pitches, road shoulders or parks, in general works of moderate congestion
- is used for levelling molehills, mowing, shredding grass and weeds, which if scattered over, putrefy and fertilize green areas

Advantages:

- Side-shift for 32 cm (1'1") possible (option)
- front or rear mounting possible
- bearing protection and lubrication system
- highly durable inner shell, made of hard-wearing steel
- low noise operation
- flail knives are easy to replace on site
- perfect ground following and even cutting height
- gearbox with overrunning clutch as standard

Type	Working width [m / ft]	Working capacity [ha/h]	Number of knives [pcs.]	Flail shaft diameter [mm / in]	Power demand [HP]*	PTO [rpm]	3-point hitch Cat.	Dimensions w / l / h [cm]	Weight [kg / lbs]
PIKO 100 / PIKO 100H	1,00 / 3'4"	~ 1,00	26	ø 108 / 4 1/4"	from 20	540	I	87 / 129 / 83	175 / 385 205 / 450
PIKO 130 / PIKO 130H	1,30 / 4'4"	~ 1,30	34		from 30			87 / 159 / 83	200 / 440 230 / 510
PIKO 150 / PIKO 150H	1,50 / 4'11"	~ 1,50	40		from 35			87 / 200 / 83	220 / 485 250 / 550

Type	Working width [m / ft]	Necessary hydraulic couplers	Number of knives [pcs.]	Pump efficiency [l/min] / [GPM]	Power demand [HP]	Flail shaft diameter [mm / in]	3-point hitch Cat.	Dimensions w / l / h [cm]	Weight [kg]
NANO 150 HYDRO	1,50 / 4'11"	1 x double acting + leakage connector	40	32 / 40 or 50 (depends on engine choice)	from 35	108 / 4 1/4"	I	87 / 200 / 83	205 / 450

SaMASZ

Flail mowers

MIDO 140, MIDO 160, MIDO 180, MIDO 200, MIDO 220

MEDIUM CLASS

MIDO lightweight flail mowers are available in 1.4 m to 2.2 m working widths. They are widely used in plants and companies involved in the maintenance of green areas and roads. They ensure effective mowing and mulching of grass, weeds, scrubs, preparing the area for future development. MIDO is characterised by low weight, high durability, efficiency and convenient aggregation. The different sizes and the front and rear mounting adjustment mechanism allow the machine to be perfectly suited to the terrain conditions. The mower can be aggregated to the three-point linkage cat. I or II. The recommended tractor power depends on the model and ranges from 45 hp to 80 hp.

Advantages:

- gearbox with a freewheel for safety and easy use of the machine
- the wide range of working widths and the possibility of using different types of blades allows the machine to be adapted to the working conditions and the type of terrain to be mown
- lightweight, compact design and at the same time high efficiency ensure economical use
- two rows of replaceable and adjustable counter-blades guarantee a more accurate mowing
- the body made of extremely durable and wear-resistant ROC 400 steel significantly extends the service life of the machine
- the double-covered body guarantees durability
- the belt drive ensures quiet operation of the machine

Optional equipment:

Hitch - one-sided, hydraulic side shift, (rear or front) • Hitch - two-sided, hydraulic side shift • Warning plates with LED lights •
Protective chains • Additional line of counter-knives

Type	Working width [m / ft]	Number of replaceable counter-knives	Number of knives [pcs.]	Flail shaft diameter [mm / in]	Power demand [HP]	PTO [rpm]	3-point hitch Cat.	Max. diameter of branches to be cut [mm]	Weight [kg / lbs]
MIDO 140	1,40 / 4'7"	2 rows	18	ø 108 / 4 1/4"	from 45	540	I / II	35	370 / 815
MIDO 160	1,60 / 5'3"		20	ø 133	from 50			40	415 / 915
MIDO 180	1,80 / 5'11"		22		from 60				435 / 960
MIDO 200	2,00 / 6'7"		24		from 70				450 / 992
MIDO 220	2,20 / 7'2"		26	ø 139	from 80				480 / 1 058

Flail mowers

GRINO 160, GRINO 180, GRINO 200, GRINO 220 **REAR-FRONT**

HEAVY DUTY CLASS

GRINO mower can be typically aggregated with tractors with 3-point hitch of Cat. I or II. Flail shaft is driven by the PTO shaft, while the side-shift by tractor's hydraulics. Mower can be mounted either on tractor's front or rear, which improves general work comfort. Advantages of GRINO mowers as compared to old KB mowers, are the following: hydraulic side-shift as standard feature, replaceable counter-knives made of hardened steel, larger number of cutting knives ensuring good shredding.

Standard equipment:

Shaft with double flail spiral (double overlapping) • 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

Characteristics:

- mowing shrubs and bushes, shredding branches of max. diameter of 5 cm / 2".
- cutting weeds and grass on uncultivated areas, treatment of sterile pastures and operation on green areas (orchards, vineyards)

Advantages:

- balanced weight (0.7 kg / 1.55 lbs) and precise helical arrangement of flail knives provide effective operation in difficult conditions
- large diameter of flail shaft (ø 168 mm / 6 3/5") improves its durability and peripheral speed of flail knives
- mounting on 3-point hitch at the front or rear of the tractor
- easy, on-site, flail knife replacement
- low noise operation
- perfect ground following and even cutting height
- metal plate guards at the front and rubber guard at the back provide effective protection against stones
- working height adjustment within the range of 3 to 8 cm (1 1/5" to 3 1/5")
- reinforced flail shaft's housing and bearings located internally
- replaceable sliding skids made of hard-wearing steel
- additional skin of hard-wearing steel on the whole inner side of mower's shell
- gearbox equipped with overrunning clutch
- bearing protection and lubrication system
- side-shift for 50 cm (1' 19") possible
- PTO shaft as standard

Characteristics:

1. In order to mount the mower at the front-link, put upper arm on the opposite side of the machine and re-install the PTO shaft. If tractor features anti-clockwise rotation of the PTO, dismount central gearbox and turn it around by 180°
2. Enhanced housing has been designed to provide effective protection of bearings against dirt and debris
3. Side-shift by means of hydraulic cylinder as a standard feature
4. Belt gear drive transmission functions as overload clutch

Type	Working width [m / ft]	Working capacity [ha/h]	Number of knives [pcs.]*	Flail shaft diameter [mm / in]	Power demand [HP]	PTO [rpm]**	3-point hitch Cat.	Dimensions w / l / h [cm]	Weight [kg / lbs]
GRINO 160	1,60 / 5'3"	~ 1,50	24	ø 168 // 6 39/64"	from 50	540 / 1000	I / II	185 / 115 / 104	580 / 1 280
GRINO 180	1,80 / 5'11"	~ 1,60	24		from 60			205 / 115 / 104	610 / 1 345
GRINO 200	2,00 / 6'7"	~ 1,80	30		from 70			225 / 115 / 104	640 / 1 410
GRINO 220	2,20 / 7'2"	~ 2,00	36		from 80			245 / 115 / 104	665 / 1 470

* Types of flail knives, standard and optional on page 5

** The mower is factory set to 540 rpms. In case of front-link mounting the gearbox should be adapted to 1000 rpms

Flail mowers

MAMUT 250, MAMUT 280, MAMUT 300 **REAR-FRONT**

SUPER HEAVY DUTY CLASS

Mamut, typically can be aggregated on 3-point hitch Cat. II. Flail shaft is powered by the PTO shaft. Mower can be mounted at the front or rear of the tractor, which improves general comfort of operation.

Mower is additionally equipped with side-shift option to provide comfortable obstacle passing and easier overlap adjustment.

Standard equipment:

- shaft with double flail spiral (double overlapping)
- 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

Characteristics:

- heavy duty flail mower is designed for mulching soil fertalisation plants (lupinus, phacelia, sinapis, rapeseed, field pea, rye) before the tillage. As well as difficult to plough plant remains, like thick corn stalks
- it is also used for pasture and uncultivated area maintenance

Hydraulic side shift:

Advantages:

- side-shift for 50 cm (1’ 19”) possible
- large working efficiency
- front mount possible
- large diameter of flail shaft (203 mm / 8”) improves its durability and peripheral knife speed
- bearing protection and lubrication system
- two-skin steel shell. Inner layer made of hard-wearing material, which significantly improves durability and wear resistance
- heavy-duty forged flail knives
- perfect ground following and even cutting height
- gearbox equipped with overrunning clutch
- PTO shaft as standard

Type	Working width [m]	Working capacity [ha/h]	Number of knives [pcs.]	Flail shaft diameter [mm]	Power demand [HP]	PTO [rpm]	3-point hitch Cat.	Dimensions w / l / h [cm]	Weight [kg / lbs]
MAMUT 250	2,50 / 6’6”	~ 2,50	30	ø 203 / 8”	from 100	1000	II	280 / 124 / 106	960 / 2 115
MAMUT 280	2,80 / 9’2”	~ 2,80	36		from 120			300 / 124 / 106	1050 / 2 315
MAMUT 300	3,00 / 9’8”	~ 3,00	36					320 / 124 / 106	1090 / 2 403

NEW!

Flail mowers

VINO 160, 180

MEDIUM CLASS

The VINO 180 lightweight flail mower provides effective and intensive mulching of branches and grass, so it is ideal for wine-growing and horticulture. Low weight, high durability, excellent ground tracking and high productivity are the main advantages of the machine. Precisely designed flails' system in the shaft thoroughly mulches the material speeding up the drying and decomposition processes. The machine has been equipped with a double, adjustable rake to increase its effectiveness, feeding the flail roller zone with plant and shoot residues that require more intensive milling. The mower during the mulching does not damage fragile plants in the vicinity. The VINO 180 is suitable for tractors with a power not less than 60 HP and has the possibility of connecting to the three-point linkage cat. I or II.

Standard equipment:

- One-sided hitch (reversible rear / front)
- shaft with double flail spiral (double overlapping)
- overrunning clutch integrated in the gearbox
- automatic tensioning of V-belts
- hardened sliding skids
- protective metal sheet guards
- replaceable counter-knives
- mowing height adjustment with ground following bar
- PTO shaft
- flail knives at choice

Advantages:

- the shaft has two selectable positions and removable rake teeth that enable the machine to operate in the standard mulching system as well as in a more intensive mulching system suitable for fruit-growing.
- belt drive with freewheel protects the machine against damage when the shaft is blocked and hits an obstacle and ensures quiet operation
- narrow (7.5 cm) and shaped cover eliminates the risk of damaging fragile plants in the vicinity
- ground tracking shaft with adjustable working height for perfect ground tracking and increased stability during work
- the modular design of the machine makes it possible to choose from three types of hooks, which proves its flexibility and convenience of use
- lightweight yet robust design made of durable and wear-resistant ROC 400 steel
- enables to use the roller self-cleaning function when working without rake
- specially adjustable scraper ensures that the roller is cleaned when working with rakes and prevents foreign bodies from being thrown out of the machine

NEW!

Type	Working width [m / ft]	Number of knives [pcs.]	Number of replaceable counter-knives [pcs.]	Number of V-belts	Power demand [HP]	Flail shaft diameter [mm / in]	3-point hitch Cat.	Dimensions w / l / h[cm]	Weight [kg / lbs]
VINO 160	1,60 / 5'3"	18	2	1	from 50	133 / 5, 23	I / II	180 / 100 / 100	355 / 782
VINO 180	1,80 / 5'11"	20	2	1	from 60	133 / 5, 23	I / II	200 / 100 / 100	380 / 837

Flail mowers on paralellogram arm

KANGU 140, KANGU 190, KANGU 220 **REAR-SIDE**

MEDIUM CLASS

Kangu mowers are to be mounted on rear 3-point hitch (cat. II). The driveline is powered by the PTO shaft. Mower is additionally equipped with cross--shift option to provide comfortable obstacle passing and easier overlap adjustment.

Standard equipment:

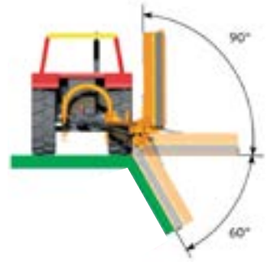
Shaft with double flail spiral (double overlapping) • Overrunning clutch integrated with gearbox (KANGU) • Mechanical safety breakaway device • Mowing height adjustment with ground following bar • Rear rubber guard • Front metal sheet guard • Wide-angle PTO shaft • Automatic tensioning of V-belts

Advantages:

- inner-skin of mower's shell, made of hard-wearing steel
- mower is to be mounted on 3-point hitch
- thanks to a paralellogram arm mowing is possible in various positions
- hydraulic control as standard
- side shift of 113 cm possible
- innovative bearing protection and lubrication system
- perfect ground following for optimal mowing quality
- mechanical safety breakaway device as standard
- gearbox with integrated clutch
- wide angle PTO shaft as standard

Characteristics:

1. Medium class flail mower especially designed for road shoulder and green area (orchards, vineyards) maintenance.



High angle of operation from 60° to 90° allows working on slopes.

Type	Working width [m / ft]	Necessary hydraulic couplers	Number of counter knives	Number of knives [pcs.]*	Flail shaft diameter [mm]	Power demand [HP]**	RPM	3-point hitch Cat.	Max. diameter of branches to be cut [mm /in]	Weight [kg / lbs]	PTO shaft
KANGU 140	1,40 / 4'7"	2 x double acting	1 row / 2 pcs.*	24	ø 133 / 5 15/64"	from 50	540	II	50 / 2"	540 / 1 190	**tractor - mower:** wide--angle (overrunning clutch in gearbox)
KANGU 190	1,90 / 6'3"			30	ø 133 / 5 15/64"	from 70				660 / 1 455	
KANGU 220	2,20 / 7'2"			32	ø 139 / 5 1/2"	from 85				775 / 1 664	

* Types of flail knives, standard and optional on page 5

** * Note! Power values apply only to municipal works - few mowing occasions per year.

Flail mowers on paralellogram arm

KBRP 160, KBRP 200 **REAR-SIDE**

HEAVY DUTY CLASS

For mowing in difficult conditions

KBRP rear-side mowers on paralellogram arm, complement our offer of heavy-duty machines. Especially designed for carriageway maintenance, green belts, road shoulders or ditches. These machines meet both, agricultural as well as municipal service demands. Hydraulic cylinder's choke valve enables smooth operation.

Standard equipment:

Shaft with double flail spiral (double overlapping) • Overrunning clutch integrated with gearbox (KANGU) • Mechanical safety breakaway device • Mowing height adjustment with ground following bar • Rear rubber guard • Front metal sheet guard • Wide-angle PTO shaft • Automatic tensioning of V-belts

KBRP mowers have two mechanical safety devices:

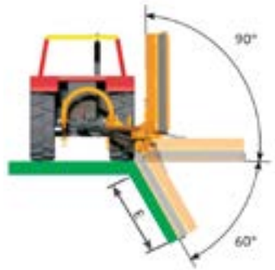
- enables rise of the machine when obstacle is met
- enables retractinon of the machine when obstacle is hit

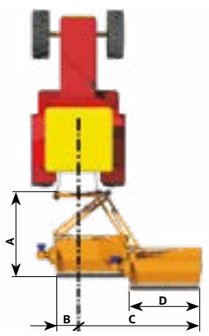
Characteristics:

- cutting scrubs and bushes (up to 8 cm in diameter)
- mowing of scarps, embankments, drainage ditches and water canals

Advantages:

- KBRP mowers feature high horizontal reach, up to 170 cm (5'7") which enables easy obstacle passing (e.g. road signs) without changing tractor's position
- possibility of working in-line or at side of the tractor
- thick-walled flail shaft's tube with diameter of 168 mm (6 3/5")
- mechanical safety breakaway devices as standard
- heavy-duty forged flail knives
- reinforced flail shaft's housing and bearings located internally are well protected against mechanical damage
- possibility of working within the inclination of + 90° and -60°
- owing to the paralellogram arm works perfectly for heavy-duty road maintenance assignments
- mower is to be mounted on 3-point hitch
- perfect ground following and high mowing quality
- gearbox equipped with overrunning clutch
- wide angle PTO shaft





High manufacturing quality and exceptional durability of components ensure reliable and longlasting operation. Down-tilt angle can reach up to 60°, which is perfect whenever road shoulders and slopes need to be mowed (tilt angle between -60°; +90°). Mowers equipped with type I knives are able to shred branches with diameter up to 8 cm (3 1/5").

KBRP mulchers with pantograph meet the expectations of both municipal companies and farmers providing services of mowing roadside green belts, scarps, embankments, drainage ditches and water canals. The mowers are equipped with a new, stronger flail roller bearing system. The bearings are placed inside the support frame, which prevents mechanical damage.

KBRP with paralellogram arm, enables operation in-line or at the side of the tractor.

Horizontal work reach of KBRP mowers [cm]

Type	A	B	C	D	E
KBRP 160	229	5	326	160	140
KBRP 200	229	5	366	200	180

Type	Operating width [m / ft]	Necessary hydraulic couplers	Number of counter knives	Range of work	Knives [pcs.]*	Flail shaft diameter [mm]	Power demand [HP]**	RPM	3-point hitch cat.	Weight [kg / lbs]	Max. diameter of branches to be cut [mm /in]	PTO shaft
KBRP 160	1,60 / 5'3"	2 x double acting	1 x fixed	from -60° to +90°	14 (18-option)	ø 168 / 6 39/64"	from 70	540	II	760 / 1 675	80 // 3 5/32"	tractor - mower: wide-angle with overload clutch
KBRP 200	2,00 / 6'7"				16 (24-option)		from 80			825 / 1 818		

* Types of flail knives as standard and optional on page 5
** Note! Power values apply only to municipal works - few occasions per year.

Flail mowers

IBIS 150, IBIS 150 UP **REAR**

LIGHT CLASS

Introduction of IBIS flail mowers, extended the range of mulchers with a tank. IBIS series flail mowers are designed for surfaces requiring special care, such as golf or football courses. These are the areas where the total weight of the whole set plays an important role – its own weight does not exceed 410 kg. The UP version allows the contents of the collection hopper to be unloaded directly onto the trailer. The maximum height of unloading is 2.00 m.

Standard equipment:

- shaft with double flail spiral (double overlapping)
- 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

Advantages of flail mowers with collection hoppers:

- simultaneous mowing and material collection
- hydraulic unloading
- designed for low power tractors
- low weight due to the use of high-quality steel
- accurate ground tracking and stepless cutting height adjustment
- mulching scrubs, bushes and sticks, collection of leaves in autumn

Type	Working width [m / ft]	Working capacity [ha/h]	Number of knives [pcs.]	Container capacity [m³ / cu.ft.]	Flail shaft diameter. [mm]	Power demand [HP]	PTO [rpm]	3-point hitch Cat.	Dimensions w / l / h [cm]	Weight [kg / lbs]
IBIS 150	1,50 / 5'	~ 1,00	50	0,90 / 35	ø 108 / 4 1/4"	from 35	540	I	163 / 100 / 184	430 / 947
IBIS 150 UP									163 / 135 / 184	490 / 1080

Extension arms

KOLIBER 400, KOLIBER 450 **REAR**

Light-weight, compact, **durable**

KOLIBER extension arm, with work reach of 4,0 m (13'1") or 4,5 m (14'9") is to be mounted at tractor's 3-point hitch. Arm is equipped with a hydraulic unit, made by a well-known manufacturer. Oil tank capacity of 120 l (31,70 gal), radiator and cable control panel are fitted as a standard feature.

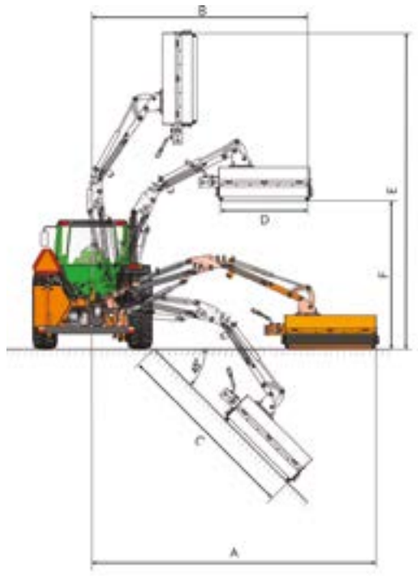
Advantages:

- low weight enables mounting on a light-weight tractors
- innovative design
- high arm clearance enables safe drive over road signs and easy obstacle passing.

Hydraulic latch on main cylinder together with adjustable choke valve.

Hydraulic assembly with multi-block selector valves - durable and efficient.

Unit in transport position - rear bumper with noticeable road lights.



Work reach of KOLIBER extension arm with LAMA 120 [cm] mowing head

Type	A	B	C	D	E	F
Koliber 400	410	310	270	120	455	220
Koliber 450	460	350	320	120	505	250

Standard equipment:

Hydraulic cylinders • Mechanical safety breakaway device • cable control panel • temperature and oil level indicator • hydraulic lock • oil radiator with oil filters • choke valves on hydraulic cylinders • road lights PTO shaft

Optional equipment:

• electronic control panel together with electric control system
• 1000 rpm PTO

Type	Work reach [m / ft]	Power demand [HP]	Control	PTO [rpm]	Recommended tractor's weight [kg / lbs]	Transport width [cm / ft]	Transport height [cm / ft]	Weight [kg / lbs]
Koliber 400	4,0 / 13'1"	from 55	cable / electric on-off	540	2 400 / 5 290	175 / 5'9"	265 / 8'8"	530 / 1 170
Koliber 450	4,5 / 14'9"				2 900 / 6 395	185 / 6'1"	290 / 9'6"	580 / 1 280

Extension arms

KWT 550, KWT 650, KWT 651 E/EP **REAR**

KWT extension arm is available in two versions - with reach of 5.5 m (18') and 6.5 m (21'4"). Is to be mounted on 3-point hitch (Cat. II). KWT 650 in contrast to KWT 550 has a hydraulically driven, extendable telescopic dipper arm. Machine is equipped with independent hydraulic unit with radiator and 180 l oil tank. In the latest KWT 651 model, an arm can be directed to the side of the tractor, which provides better visibility of working head and improves work comfort.

Advantages:

- quick and easy attachment exchange
- own, independent hydraulic system
- standard, 3-point hitch mounting (Cat. II)
- hydraulic safety breakaway device as standard
- Applied choke valves allow for stepless and precise adjustment of arm's rotation speed
- high durability of the unit
- temperature and oil level indicator
- high work reach up to 6,65 m /21'10" (KWT 650 with mowing head KW 140)

Standard equipment:

Hydraulic cylinders • hydraulic safety device • cable control panel • temperature and oil level indicator • hydraulic lock • radiator with oil filters • choke valves on hydraulic cylinders • PTO shaft

Within the hydraulic system, an oil radiator is installed which protects the unit from overheating.

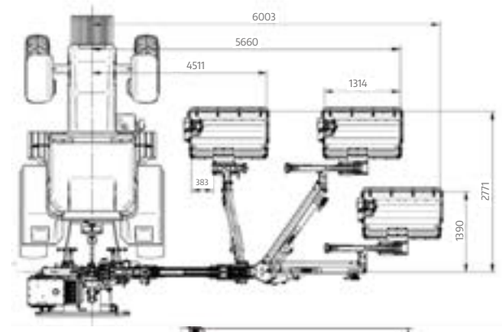
Oil filters with a soil gauge are installed in the hydraulic system for additional protection.

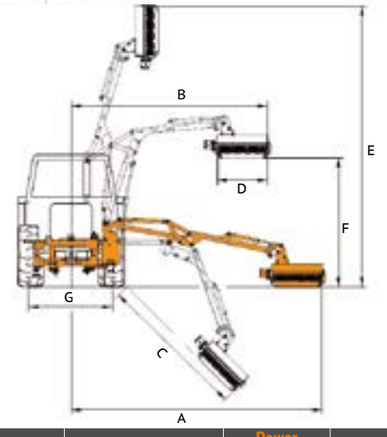
Hydraulic safety device protects the machine from damage - in the event of an obstacle collision - the arm tilts back.

Additional stop valve protects the arm from falling even if hydraulic hose gets damaged.

For **hard to reach** locations

Work reach of KWT 651 E arm together with mowing head LAMA 121





As standard the control of the arm is done with the use of cable control panel, equipped with levers and a joystick.

Control panel with joystick (Electric control) – standard: KWT 651
Control panel with joystick (Electric control) – option: KWT 550 and KWT 650

Work reach of KWT arms together with mowing head [cm]							
Arm/Head	**A**	**B**	**C**	**D**	**E**	**F**	**G**
KWT 550 / KW 110	570	440	340	110	640	290	190
KWT 550 / KW 125	570	450	340	130	640	290	190
KWT 550 / KW 140	580	450	350	150	650	290	190
KWT 550 / Lama 120	580	450	350	120	650	290	190
KWT 550 / Lama 140	600	470	370	140	670	290	190
KWT 650 / KW 110	660	530	430	110	720	300	190
KWT 650 / KW 125	660	530	430	130	720	300	190
KWT 650 / KW 140	675	540	440	150	730	300	190
KWT 650 / Lama 120	670	540	440	150	730	300	190
KWT 650 / Lama 140	690	560	460	140	750	300	190
KWT 651 E / KW 110	610	530	430	110	720	300	190
KWT 651 E / KW 125	625	530	430	130	720	300	190
KWT 651 E/ KW 140	650	540	440	150	730	300	190
KWT 651 E / Lama 120	630	540	440	150	730	300	190
KWT 651 E / Lama 140	650	560	460	140	750	300	190

Type	Arm's reach [m / ft]	Power demand [HP]	Tractor's weight [kg / lbs]	Control	PTO [min]	Transport width/height/length [m]	Weight [kg / lbs]
KWT 550	5,50 / 18'	from 80	3700 / 8 157	link	540	3,5 / 1,95 / 0,95	1 055 / 2 325
KWT 650	6,50 / 21'	from 90	4300 / 9 480				1140 / 2 513
KWT 651 E/EP	6,40 / 21'	from 90	4300 / 9 480	electric 0-1/proportional			1 230 / 2 710

Extension arms

CAMEL 900 **REAR**

For **hard to reach** locations

Camel extension arm, with it's 9 meter (29'7") range is the largest machine of such type in Poland! Machine has a hydraulically driven, extendable telescopic dipper arms. Machine is equipped with indpendent hydraulic unit with radiator and 180 l / 47,5 gal oil tank.

Proportional steering (EP) available in option:

- arm motion speed dependent on joy-stick position
- simultaneous two cylinder control possible

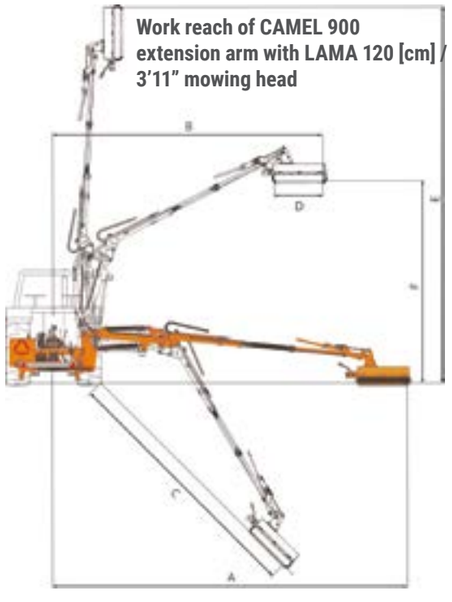
Transport position:

Advantages:

- high work reach of 9 m (29'7") (with Lama 120)
- own reliable hydraulic system
- high durability of the unit
- applied choke valves allow for stepless and precise adjustment of arm's rotation speed
- additional hitch stabilizing links as standard

Range	[cm]
A	900
B	690
C	660
D	120
E	960
F	520

Work reach of CAMEL 900 extension arm with LAMA 120 [cm] / 3'11" mowing head



Standard equipment:

Hydraulic cylinders • Hydraulic safety breakaway device • Cable control panel • Temperature and oil level indicator • Hydraulic lock • Oil radiator with oil filters • Hydraulic cylinders with choke valves• PTO shaft

Optional equipment:

- proportional control system
- PTO 1000 rpm

Type	Work reach [m / ft]	Control	PTO [rpm]	Recommended tractor's weight [kg / lbs]	Transport width [cm / ft]	Transport height [cm / ft]	Weight [kg / lbs]
Camel 900	9,0 / 29'6"	link	540	7 500 / 16 534	190 / 6'2"	400 / 13'1"	1370 / 3 020

Mowing head

Lama 120, Lama 121, Lama 121 HD, Lama 140, Lama 141, Lama 101P

KW 110, KW 125, KW 140, OR 080

Lama 140

- 24 knives mounted on shackles,
- light flail
- suitable for shredding branches of up to 35 mm in diameter
- overall weight 205 kg
- flail shaft d 108x6.3 mm,
- ground following shaft d 133x5 mm
- external shell of 3 mm in thickness, made of hard--wearing steel

Lama 141

- 24 knives mounted on shackles
- motor installed on the head to improve mowing of ditch bottoms
- drive transmission through V-belts
- arm mounting plate moved to the machine's back to improve arrangement of the centre of gravity, what in turn makes the machine more stable
- new position of the mounting plate enables the head to be moved mechanically in the horizontal
-head's safety barrier

KW 140

- 12 knives mounted on bolts
- heavy flail
- suitable for shredding branches of up to 80 mm in diameter
- overall weight 340 kg
- flail shaft d 133x8 mm
- ground following shaft d 168x6.3 mm
- external shell of 4 mm in thickness, made of structural steel

Typ	Lama 120	Lama 121	Lama 121 HD	Lama 140	Lama 141	Lama 101 P	Lama 121 P	KW 110	KW 125	KW 140	KW 111	KW 126	KW 141
Working width [m / ft]	1,20 / 3'11"	1,20 / 3'11"	1,20 / 3'11"	1,40 / 4'7"	1,40 / 4'7"	1,06 / 3' 5"	1,20 / 3'11"	1,10 / 3'7"	1,25 / 4'1"	1,40 / 4'7"	1,10 / 3'7"	1,25 / 4'1"	1,40 / 4'7"
Flail knives*	20	20	20	24	24	30	34	10	10	12	12	14	16
Oil pump efficiency [l/min / GPM]	90 - 100 / 23 - 26							90 - 100 / 23 - 26					
Hydraulic pressure [bar / PSI]	210 / 3 045							210 / 3 045					
Weight [kg / lbs]	185 / 407	245 / 540	270 / 595	205 / 451	265 / 584	250 / 551	275 / 606	265 / 584	305 / 672	330 / 727	250 / 551	270 / 595	280 / 617
Flail shaft diameter [mm/ in]	ø 108 // 4 1/4"	ø 108 // 4 1/4"	ø 133 // 5 16/64"	ø 108 // 4 1/4"	ø 108 // 4 1/4"	ø 108 // 4 1/4"		ø 133 // 4 1/4"			ø 133 // 5 1/4"		
Max. diameter of shredded sprout [mm / in]	35 // 1 3/8"	35 // 1 3/8"	35 // 1 3/8"	35 // 1 3/8"	35 // 1 3/8"	20 // 0 25/32"		35 // 1 3/8"			40 // 1 1/5"		
Arm type	KOLIBER, KWT, CAMEL	KWT, CAMEL	KWT	KOLIBER, KWT, CAMEL	KWT	KWT, CAMEL		KWT					

SaMASZ

DITCH CLEANER - OR 080

Designed for roadside or field ditch cleansing and profiling.

Type	OR 080
Working width [m / ft]	0,80 / 2'7"
Number of knives [pcs]	8
Number of throwing blades [pcs]	4
Oil pump efficiency [l/min / GPM]	80-100 / 21- 26
Hydraulic pressure [bar / PSI]	210 / 3045
Weight [kg / lbs]	225 / 495
Arm type	KWT, CAMEL

HYDRAULIC EXTENSION ARM CIRCULAR SAW

FISHER, PT3 – 190, PT4 – 250, PT3 – 190 F, PT4 – 250 F

SCISSOR TRIMMER / ROAD SHOULDER GRINDER TRUNK GRINDER

PG 150, PG 200, PG 150F, PG 200F, RP 110, FP 20

HYDRAULIC EXTENSION ARM - FISHER

FISHER extension arm is a telescopic jib designed to operate with circular saw PT3-190, PT4-250 as well as scissor trimmer PG 150, PG-200.

Type	FISHER
Side-shift [m/ft]	1,06 / 3'4"
Head rotation	110°
Necessary hydraulic couplers	1 x double acting 1 x single acting
Hydraulic pressure [bar / PSI]	210 / 3045
Weight with mounting frame [kg/lbs]**	250 / 550
Designation	PG F, PT F

CIRCULAR SAW - PT3 – 190, PT4 – 250, PT3 – 190 F, PT4 – 250 F

3 or 4 blade cutting action, designed for cutting tree branches of Ø 190 mm diameter.

Type	PT3-190	PT3-190 F	PT4-250	PT4-250 F
Working width [m / ft]	1,90 / 6'3"	1,90 / 6'3"	2,50 / 8'2"	2,50 / 8'2"
Number of circular blades [pcs]	3	3	4	4
Circular blade diameter [mm / in]	630 / 25"			
Max. diameter of cut branches [mm / in]	ø 120 / 5"			
Oil pump efficiency [l/min / GPM]	85-100 / 22-26	55 - 70 / 14-18	85-100 / 22-26	55 - 70 / 14-18
Weight [kg / lbs]	195 / 429	195 / 429	250 / 551	250 / 551
Arm type	KWT, CAMEL	FISHER	KWT, CAMEL	FISHER
Hydraulic pressure [bar / PSI]	180 / 2610			

SCISSOR TRIMMER - PG 150, PG 200, PG 150F, PG 200F

Designed for vertical and horizontal trimming of branches, bushes and hedges.

Type	PG 150	PG 150 F	PG 200	PG 200F
Operating width [m / ft]	1,50 / 4' 11"	1,50 / 4' 11"	2,00 / 6' 6"	2,00 / 6' 6"
Thickness of cut branches max [mm / ft]	100 / 4"			
Pump efficiency [L/min] / [GPM]	45-60 / 11-18			
Hydraulic pressure [bar / PSI]	160 / 2320			
Weight [kg / lbs]	200 / 440	200 / 440	240 / 530	240 / 530
Arm type	KWT, CAMEL	FISHER	KWT	FISHER

ROAD SHOULDER GRINDER - RP 110

Designed for leveling and profiling of road shoulders to provide proper drainage.

Type	RP 110
Working width [m / ft]	1,10 / 3' 7"
Flail shaft diameter [mm / ft]	Ø 168 // 6 3/5"
Oil pump efficiency [l/min / GPM]	70-100 / 18-26
Hydraulic pressure [bar / PSI]	210 / 3045
Weight [kg / lbs]	255 / 562
Arm type	KWT, CAMEL

STUMP GRINDER - FP 20

Designed for tree-trunk grinding.

Type	FP 20
Working width [m / ft]	0,40 / 1'4"
Number of blades [pcs]	16
Oil pump efficiency [l/min / GPM]	70-100 / 18-26
Hydraulic pressure [bar / PSI]	210 / 3045
Weight [kg / lbs]	90 / 200
Arm type	KWT, CAMEL

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

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

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

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

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

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

Technical data and equipment provided herein, as well as images of the products may be different due to constant technical development.

1/2021