SaMASZ®

PRODUCT CATALOG

FLAIL MOWERS

2025

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ABOUT US

Passion, consistency, future

For more than 40 years, SaMASZ, founded by Antoni Stolarski, has implemented the idea of constantly seeking the best solutions in the field of agricultural and municipal machinery. By basing its operations on domestic capital and cherishing tradition, SaMASZ has become one of the leading machinery manufacturers in Europe.

SaMASZ machines are present in more than 70 countries around the world. In Poland, distribution is carried out by 31 authorized dealership points, and export operations are supported by five foreign companies.

The major markets include Germany, the United States, France, the Netherlands, Spain, Switzerland, Ireland, Lithuania, Australia and the Czech Republic.

Its own design office, cooperation with technical universities and research institutes, and intensive research and development activities have made it possible to develop more than 300 models of agricultural machinery, characterized by high quality workmanship, durability and functionality.

SaMASZ was the first manufacturer in Europe to introduce a 2-year warranty on agricultural machinery. An additional advantage is the well-developed factory service, providing technical support both domestically and internationally, with an emphasis on individual approach and quick response.

The company's first mower was manufactured in 1986. Over the years, a wide range of more than 300 models of reliable agricultural machinery has been developed that perform well on grasslands and ensure the purity of harvested forage, guaranteeing valuable feed for cattle. SaMASZ products constantly win prestigious awards and distinctions.

SaMASZ's offer includes not only agricultural machinery, but also a wide range of municipal equipment, such as extension arms, mowing heads, flail mowers, spreaders and snow plows. This equipment ensures precise work in both green maintenance and winter conditions - even in difficult terrain and harsh weather conditions.

The modern production facility in Zabludow has been in operation since 2018. It employs more than 700 workers and covers 13,5 hectares of land, including about 4 hectares of production and office halls. An integral part of the factory is the Research and Development Center, responsible for implementing innovative products and production processes. An expansion of the hall by an additional 4,000 sq m was completed in 2022, equipped with, among other things, a state-of-the-art warehousing and laser sheet cutting system.

E-COAT TOP ANTI-CORROSION PROTECTION

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

Cataphoretic painting is used to cover elements that require coatings with significant corrosion resistance. Painting components 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 repeatibility of the process as well as the highest quality of the coating obtained.

The technology is always individually tailored to the characteristics of the component and meets restrictive standards. Zinc phosphate surface preparation and E-COAT painting allow even the most complicated shapes with hard to reach component slots to be covered. Such 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 esthetic appearance.

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

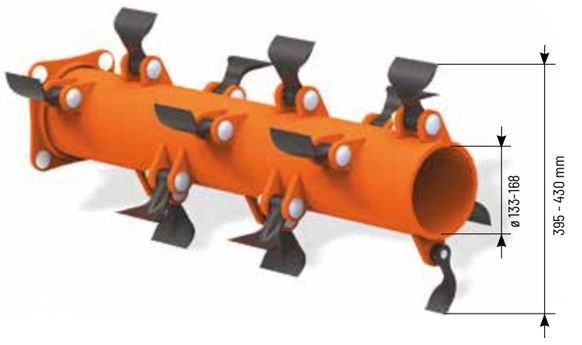
GENERAL CHARACTERISTICS OF FLAIL SHAFTS

LIGHT CLASS

(PIKO, LAMA)

1. Flail shaft -
wall thickness 6,3 mm (1/5")
ø 108 mm (4 1/4"),

2. Ground following bar:
- PIKO: ø 108 mm (4 1/4")
- LAMA: ø 133 mm (5 1/4")



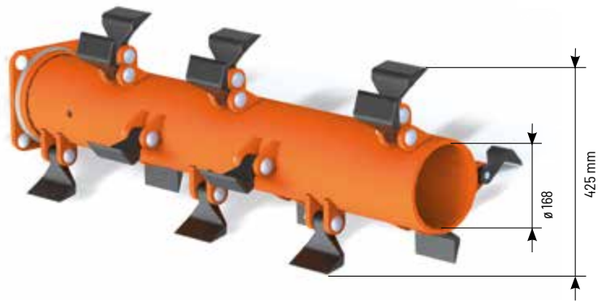
MEDIUM CLASS

(MIDO, KANGU, KW)

1. Flail shaft:
- MIDO 200: ø 133 mm (5 1/4")
- MIDO 220: ø 139 mm (5 1/2")
- KANGU 140-190: ø 133 mm (5 1/4")
- KANGU 220: ø 139 mm (5 1/2")
- KW: ø 133 mm (5 1/4")

wall thickness:
- MIDO 200: 8,3 mm (2/5")
- MIDO 220: 10 mm (2/5")
- KANGU: 10 mm (2/5")
- KW: 8,8 mm (2/5")

2. Ground following bar:
- MIDO: ø 133 mm (5 1/4")
- KANGU: ø 133 mm (5 1/4")
- KW: ø 133 mm (5 1/4")

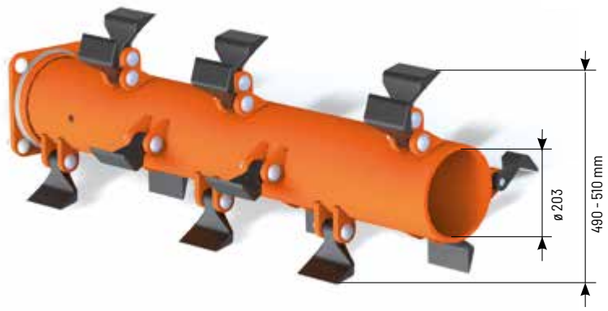


HEAVY CLASS

(GRINO, KBRP)

1. Flail shaft -
wall thickness 8,8 mm (2/5").
ø 168 mm (6 3/4"),

2. Ground following bar:
- GRINO: ø 133 mm (5 1/4")
- KBRP: ø 168 mm (6 3/4")



SUPER HEAVY CLASS

(MAMUT, KBRP 250, MAMUT 860 TWIN)

1. Flail shaft -
wall thickness 10 mm (2/5")
ø 203 mm (8"),

2. Ground following bar -
ø 203 mm (8").

FLAIL KNIVES

~ 1,2 kg (2,65 lbs)

FLAIL 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)

FLAIL 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)

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

~ 1,0 kg (2,2 lbs)

FLAIL 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)

FLAIL 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)

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

~ 0,2 kg (0,45 lbs)

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

~ 0,3 kg (0,65 lbs)

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

~ 0,3 kg (0,65 lbs)

FLAIL 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)

FLAIL 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)

FLAIL 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)

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

FLAIL TYPES

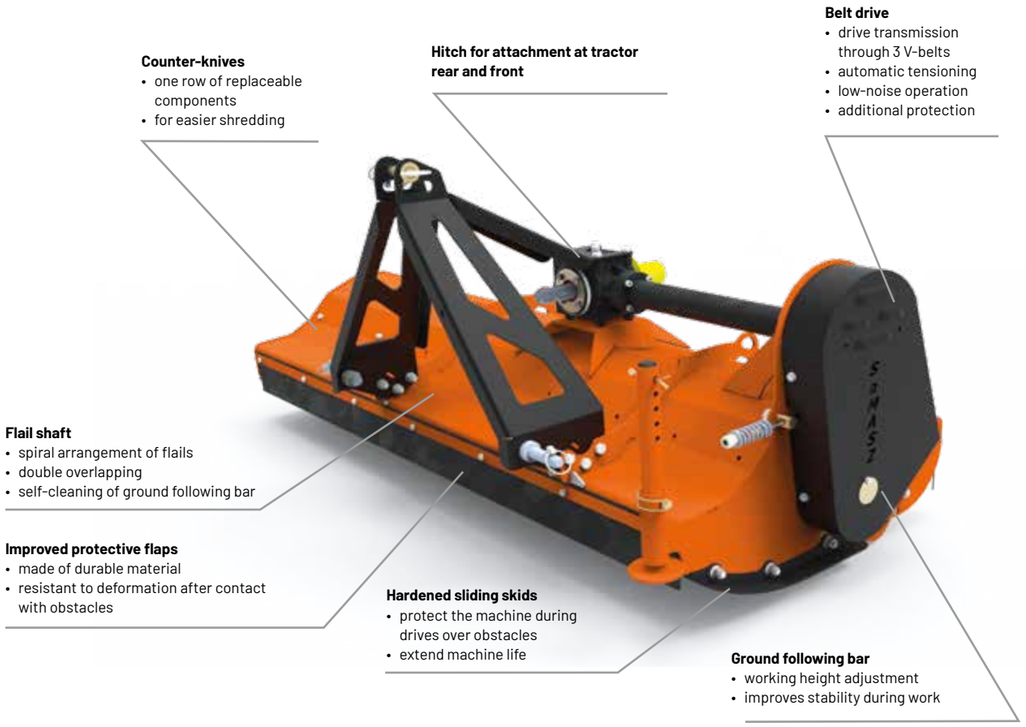
Type	Standard	Option
PIKO	X	VIIA, VIII
MIDO	V	II, III, IV
GRINO	V	II, III, IV
MAMUT	VI	III, IV
MAMUT 860 TWIN	VI	III, IV
KANGU	V	II, III, IV
KBRP	I	II, III, IV
KBRP 250	VI	III, IV, XIII
LAMA	VII	VIII, IX
LAMA HD	V	II ,III, IV, VII
KW 126, 141	V	VI

Additional charges for shafts with optional knives are included for each machine separately

Type I, V, VI, VII, IX, X - sold as 1 pc.
Type II, III, IV, VIII, XI, XII - sold as set [2 pcs]

PIKO

FLAIL MOWER



OTHER ADVANTAGES OF PIKO FLAIL MOWERS

Design	• 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	• automatic cleaning with flails • no pressing of cut material
Flail shaft	• 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 ")

Flail knife:

TYPE VIIA

TYPE VIII

STANDARD EQUIPMENT

Flail shaft with double flail spiral (double overlapping) • Fixed hitch (rear or front mounting) • Ground following bar (with working height adjustment) • Overrunning clutch integrated in gearbox • Replaceable counter-knives • Hardened sliding skids • PTO shaft • Automatic tensioning of V-belts • Protective flaps • Adjustable support leg

		PIKO 130	PIKO 130H	PIKO 150	PIKO 150H
TECHNICAL DATA	Working width [m / ft]	1,30	4'4"	1,50	4'11"
	Transport width [m / ft]	1,60	5'3"	1,80	5'10"
	Necessary hydraulic couplers	-	1x double acting	-	1x double acting
	Number of flails [pcs]	34		40	
	Number of replaceable counter-knives	1 row / 2 pcs.		1 row / 3 pcs.	
	Number of V-belts	3			
	Flail shaft diameter [cm /in]	108		4 1/4"	
	RPM	540			
	Hydraulic side-shift range [mm /ft]	-	32 1'	-	32 1'
	Recomended power demand [HP]*	from 30		from 35	
	3-point hitch category	I			
	Weight [kg / lbs]	216 475	240 530	232 510	258 570
	Max. diameter of branches to be cut [mm /in]	20		4/5"	
	PTO shaft	**tractor - mower:** no clutch (overrunning clutch built in gearbox)			

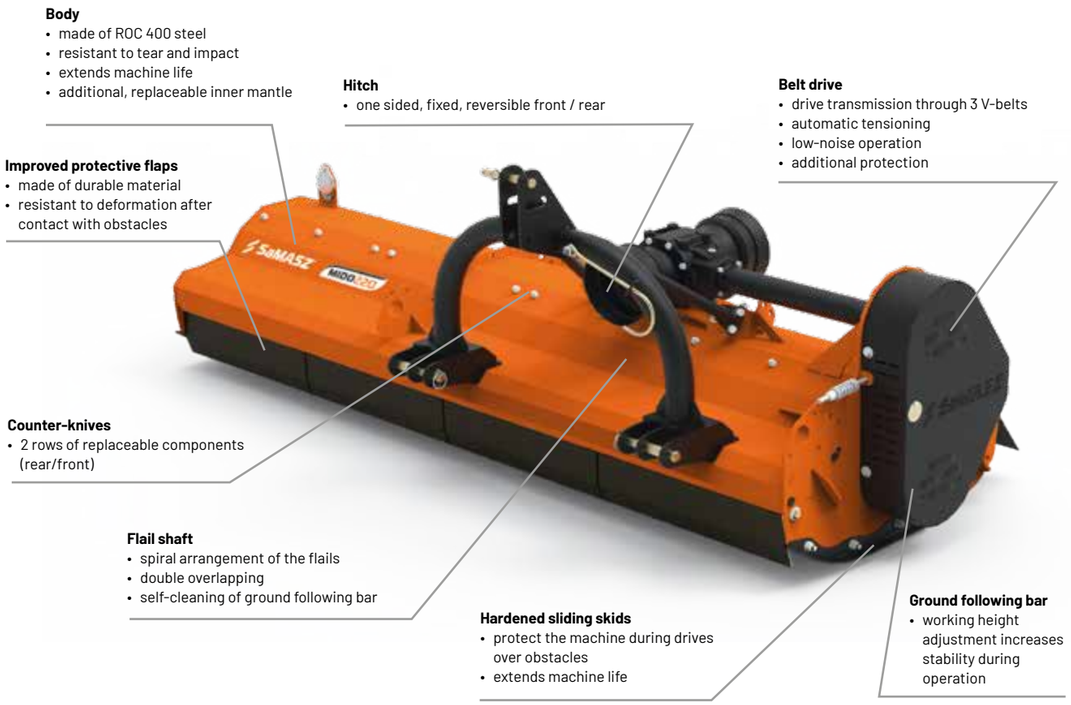
		PIKO 130	PIKO 130H	PIKO 150	PIKO 150H
OPTIONAL EQUIPMENT	Set to work at the front of the tractor with 1000 rpm.	+			
	Flail shaft with type VIIA flails [set]**	+		+	
	Flail shaft with type VIII flails [set]**	+		+	
	Hydraulic side shift [set]	-	+	-	+

* When mounting the mower at the front of the tractor, power value needs to be 30% bigger.
** Replace standard flail knives

MUNICIPAL EQUIPMENT

MIDO

FLAIL MOWER



OTHER ADVANTAGES OF MIDO FLAIL MOWERS

Design	• high durability owing to use of high-grade steel - ROC 400 • gearbox with integrated clutch • change of rpm from 540 to 1000 possible by interchanging the V-belts • floating function • modular design enables hitch choice
Ground following bar	• automatic cleaning with flails • no pressing of cut material
Flail shaft	• equipped with double row barrel bearings • arrangement of flails provides intensive shredding of material, faster drying and decomposition • less drives - time savings • lower load of machine and tractor

OPTIONAL EQUIPMENT

Flail knives

TYPE II **TYPE III** **TYPE IV**

STANDARD EQUIPMENT

Flail shaft with double flail spiral (double overlapping) • One-sided hitch (reversible rear / front) • Ground following bar (with working height adjustment) • Overrunning clutch integrated in gearbox • Replaceable counter-knives • Hardened sliding skids • PTO shaft • Automatic tensioning of V-belts • Protective flaps • Additional, replaceable inner mantle

		MIDO 180		MIDO 200		MIDO 220	
TECHNICAL DATA	Working width [m / ft]	1,80	5'11"	2,00	6'7"	2,20	7'2"
	Transport width [m / ft]	2,10	6'10"	2,30	7'6"	2,50	8'2"
	Number of flails [pcs]	22		24		26	
	Number of counter-knives	2 rows / 4 pcs					
	Number of V-belts	4					
	Flail shaft diameter [mm /in]	133		5 15/64"		139	5 1/2"
	RPM	540 / 1000					
	Recomended power demand [HP]	from 60		from 70		from 80	
	3-point hitch category	I / II					
	Weight [kg / ft]	435	960	470	1035	520	1 145
	Max. diameter of branches to be cut [mm / in]	40		1 37/64"			
	PTO shaft	**tractor - mower:** no clutch (overrunning clutch built in gearbox)					

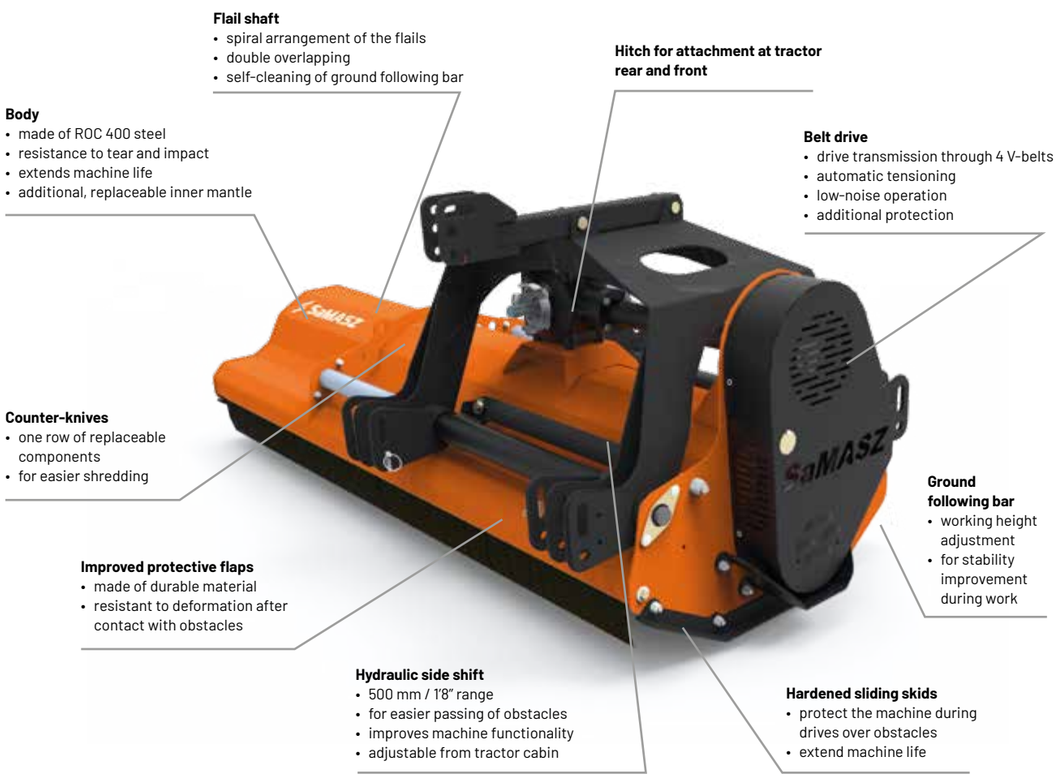
		MIDO 180	MIDO 200	MIDO 220
OPTIONAL EQUIPMENT	Protective chains	+	+	+
	Flail shaft with type II flails [set] **	+	+	+
	Flail shaft with type III flails [set] **	+	+	+
	Flail shaft with type IV flails [set] **	+	+	+

** Factory mounted only. Additional charge for changing from standard to optional flails.

MUNICIPAL EQUIPMENT

GRINO

FLAIL MOWER



OTHER ADVANTAGES OF GRINO FLAIL MOWERS

Design	• double-sided hitch for attachment at tractor 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	• automatic cleaning with flails • no pressing of cut material
Flail shaft	• 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 knives

TYPE II **TYPE III** **TYPE IV**

STANDARD EQUIPMENT

Flail shaft with double flail spiral (double overlapping) • Fixed hitch (rear / front) with hydraulic side shift • Ground following bar (with working height adjustment) • Overrunning clutch integrated in gearbox • Replaceable counter-knives • Hardened sliding skids • PTO shaft • Automatic tensioning of V-belts • Protective flaps

		GRINO 160		GRINO 180		GRINO 200		GRINO 220	
TECHNICAL DATA	Working width [m / ft]	1,60	5'3"	1,80	5'11"	2,00	6'7"	2,20	7'2"
	Transport width [m / ft]	1,90	6'2"	2,10	6'10"	2,30	7'6"	2,50	8'2"
	Necessary hydraulic couplers	1 x double acting							
	Number of flails [pcs]	24				30		36	
	Number of replaceable counter-knives	1 row / 3 pcs.				1 row / 4 pcs.			
	Number of V-belts	4							
	Flail shaft diameter [cm / in]	168				6 39/64"			
	RPM	540 (option - 1000)							
	Hydraulic side-shift range [cm / ft]	50				1'8"			
	Recomended power demand [HP]*	from 50		from 60		from 70		from 80	
	3-point hitch category	I / II							
	Weight [kg / lbs]	540	1190	610	1345	660	1455	665	1465
	Max. diameter of branches to be cut [mm / in]	50				2"			
	PTO shaft	**tractor - mower:** no clutch (overrunning clutch built in gearbox)							

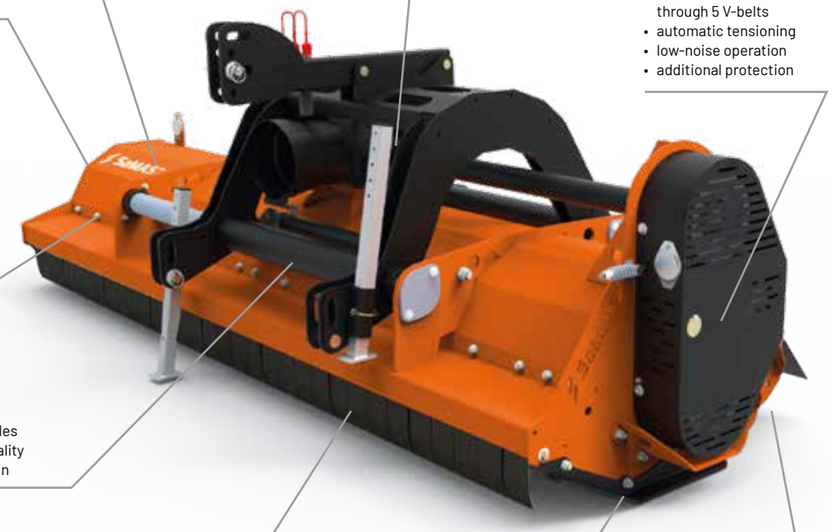
		GRINO 160	GRINO 180	GRINO 200	GRINO 220
OPTIONAL EQUIPMENT	Protective chains	+	+	+	+
	Set to work at the front of the tractor with 1000 rpm.	+			
	Flail shaft with type II flails [set]*	+	+	+	+
	Flail shaft with type III flails [set]*	+	+	+	+
	Flail shaft with type IV flails [set]*	+	+	+	+

* Factory mounted only. Additional charge for changing from standard to optional flails.

MUNICIPAL EQUIPMENT

MAMUT

FLAIL MOWER



Body
- made of S 700 steel
- resistance to tear and impact
- extends machine life
- additional, replaceable inner mantle

Flail shaft
- spiral arrangement of the flails
- double overlapping
- self-cleaning of ground following bar

Hitch for attachment at tractor rear and front

Belt drive
- drive transmission through 5 V-belts
- automatic tensioning
- low-noise operation
- additional protection

Counter-knives
- one row of replaceable components,
- for easier shredding

Hydraulic side shift
- 500 mm / 1'8" range
- for easier passing of obstacles
- improves machine functionality
- adjustable from tractor cabin

Improved protective flaps
- made of durable material
- resistant to deformation after contact with obstacles

Hardened sliding skids
- protect the machine during drives over obstacles
- extend machine life

Ground following bar
- working height adjustment
- for stability improvement during work

OTHER ADVANTAGES OF MAMUT FLAIL MOWERS

Design	• two-sided hitch for attachment at tractor front or rear • high durability owing to use of S 700 steel • double-layer high quality metal sheet body • cat. II hitch with floating function • gearbox with integrated clutch
Ground following bar	• automatic cleaning with flails • no pressing of cut material
Flail shaft	• 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 knives

TYPE III

TYPE IV

STANDARD EQUIPMENT

Flail shaft with double flail spiral (double overlapping) • Two-sided hitch (rear / front) with hydraulic side shift • Additional, replaceable inner mantle • Ground following bar (with working height adjustment) • Overrunning clutch integrated in gearbox • Replaceable counter-knives • Hardened sliding skids • PTO shaft • Automatic tensioning of V-belts • Protective flaps • Adjustable support leg

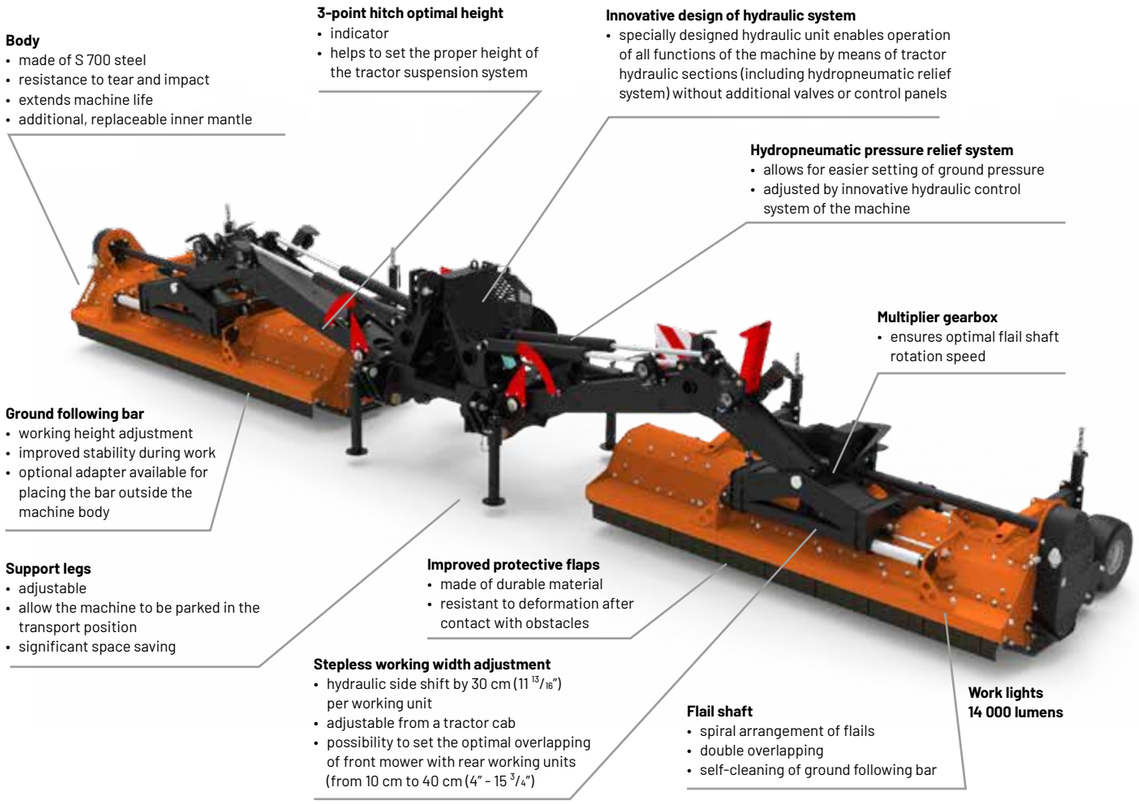
		MAMUT 250		MAMUT 280		MAMUT 300	
TECHNICAL DATA	Working width [m / ft]	2,50	6'6"	2,80	9'2"	3,00	9'8"
	Transport width [m / ft]	2,80	9'2"	3,00	9'8"	3,20	10'6"
	Necessary hydraulic couplers	1 x double acting					
	Number of flails [pcs]	30		36			
	Number of replaceable counter-knives	1 row / 6 pcs.				1 row / 7 pcs.	
	Number of V-belts	5					
	Flail shaft diameter cm / in]	203			7 63/64"		
	RPM	1000					
	Hydraulic side-shift range [cm / ft]	50			1'8"		
	Recomended power demand [HP]*	from 100		from 120			
	3-point hitch category	II					
	Weight [kg / lbs]	1020	2250	1075	2370	1110	2450
	Max. diameter of branches to be cut [mm / in]	80			3 1/5"		
	PTO shaft	**tractor - mower:** no clutch (overrunning clutch built in gearbox)					

		MAMUT 250	MAMUT 280	MAMUT 300
OPTIONAL EQUIPMENT	Ground following wheels [set]	+	+	+
	Protective chains	+	+	+
	Additional row of couner-knives [set]	+	+	+
	Warning plates with LED lights [set]		+	
	Mechanical suspension + holders [set]		+	
	Flail shaft with type III flails [set]*	+	+	+
	Flail shaft with type IV flails [set]*	+	+	+

* Factory mounted only. Additional charge for changing from standard to optional flails.

MAMUT TWIN

FLAIL MOWER



OTHER ADVANTAGES OF MAMUT 860 TWIN FLAIL MOWERS

Design	• designed to operate with MAMUT 280 or MAMUT 300 front mowers • robust and durable construction due to the use of high quality, S 700 wear resistant steel • shaped body for a perfect flow of mulched material • two-sided rear construction combined with a front mower ensures ideal weight distribution • large working width without exceeding the permissible transport dimensions • very wide horizontal ground following range of +/- 20 cm / 7 7/8" • independent transverse ground following of the working units within +/- 5° range
Flail shaft	• automatic cleaning with flails • working height adjustment
Hydraulic system	• operated only by levers of the tractor hydraulic sections • dedicated hydraulic block which, by means of sequential control, enables operation of all hydraulic functions without additional panels, electric or mechanical valves • three pairs of double-acting hydraulic couplers to control the machine and all hydraulic functions: - unfolding / folding - lifting / lowering to headland position - retracting / extending working units - adjustment of hydropneumatic pressure relief system
Ground following bar	• automatic cleaning with flails • working height adjustment • optional adapter moves the bar outside the machine so that the mowed material is deposited in front of the bar
Ground following wheels (option)	• stepless working height adjustment • 360° wheel rotation range - no need to lift the machine while turning or reversing • less rolling resistance • no risk of material build-up
Diverse equipment	• **counter-knives:** - replaceable - easier shredding - second row available as option • **hardened sliding skids:** - protect the machine during drives over obstacles - extend machine life - strenghtens the construction • **warning plates with LED road lights** • **KENNFIXX hydraulic handles** • **hitch designed for tractor rear**

STANDARD EQUIPMENT

Flail shafts with double flail spiral (double overlapping) • Ground following bars (with working height adjustment) • Overload clutch • Replaceable counter-knives • Hardened sliding skids • PTO shaft • Automatic tensioning of V-belts • Protective flaps • Adjustable support legs • Additional, replaceable inner mantles • KENNFIXX hydraulic handles • Working height indicator • Multiplier gearbox • Hydro-pneumatic pressure relief system • Hydraulic side shift of working units • Work lights

		MAMUT 860 TWIN	
TECHNICAL DATA	Working width [m / ft]*	8,00 - 8,60	26'3" - 28'2"
	Transport width [m / ft]	2,70	8'10"
	Transport height [m / ft]	3,70	12'3"
	Necessary hydraulic couplers	3 x double acting	
	Number of flails [pcs]	72 (36x2)	
	Number of replaceable counter-knives	1 row / 6 pcs. (per working unit)	
	Number of V-belts	10 (2 x 5 pcs.)	
	Flail shaft diameter [mm / in]	203	7 63/64"
	RPM	1000	
	Hydraulic side-shift range [cm / ft] (per working unit)	30	11 13/16"
	Recomended power demand [HP]	from 215	
	3-point hitch category	III	
	PTO shaft	**tractor - mower:** overload clutch	
	Max. diameter of branches to be cut [mm / in]	80	3 1/5"
	Weight [kg / ft] (without front flail mower MAMUT)	3 460	7630

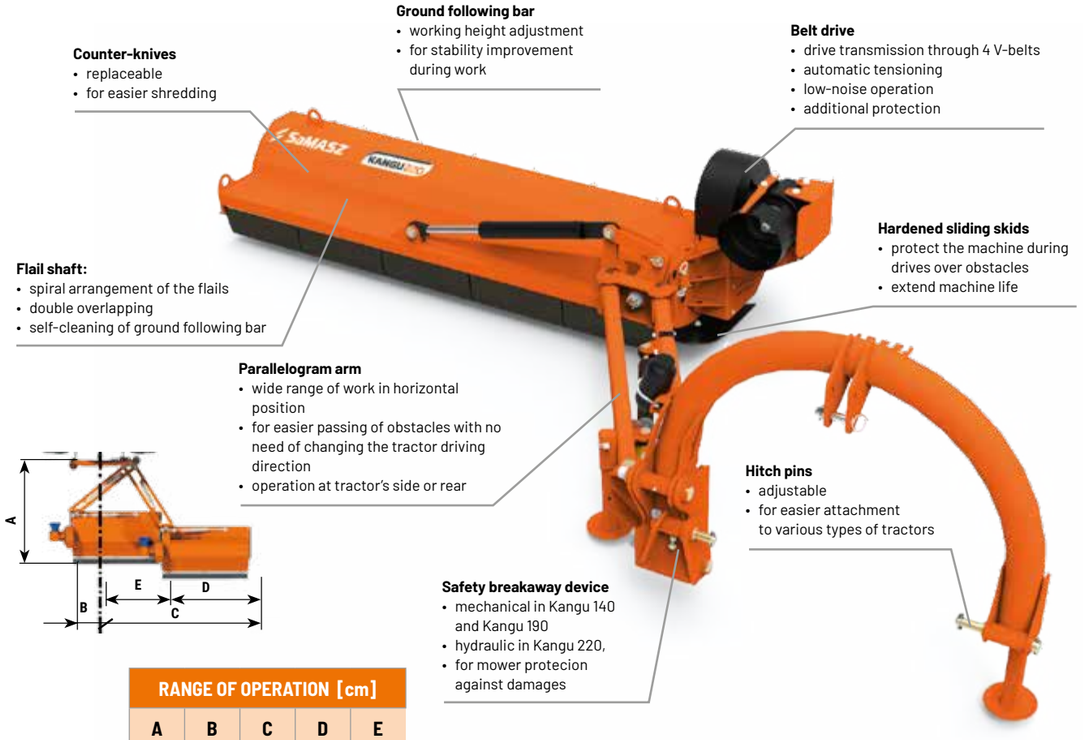
		MAMUT 860 TWIN
OPTIONAL EQUIPMENT	Ground following wheels [set]	+
	Protective chains [set]	+
	Additional row of counter-knives [set]	+
	Work lights	+
	Adapter for external placing of ground following bar [set]	+
	Ground following bar clearing strip [set]	+

* combined with a front mower

MUNICIPAL EQUIPMENT

KANGU

FLAIL MOWER



	RANGE OF OPERATION [cm]				
	A	B	C	D	E
KANGU 140	190	0	279	150	129
KANGU 190	220	22	329	200	129
KANGU 220	210	30	390	230	160

OTHER ADVANTAGES OF KANGU FLAIL MOWERS

Design	• enables work within -65° and +90° range • high durability owing to use of high-grade steel • gearbox with integrated clutch • front metal sheet guards
Ground following bar	• automatic cleaning with flails • no pressing of cut material
Flail shaft	• equipped with double row barrel bearings • arrangement of flails provides intensive shredding of material and faster drying and decomposition • combined with front flail mower ensures less drives, and as a result time savings • lower load of machine and tractor

OPTIONAL EQUIPMENT

Flail knives

TYPE II **TYPE III** **TYPE IV**

STANDARD EQUIPMENT

Flail shaft with double flail spiral (double overlapping) • Ground following bar (with working height adjustment) • Overrunning clutch integrated in gearbox • Replaceable counter-knives • Hardened sliding skids • Wide-angle PTO shaft • Automatic tensioning of V-belts • Protective flaps • Mechanical safety breakaway device (Kangu 140 and 190) • Hydraulic safety breakaway device (Kangu 220) • Adjustable hitch pins

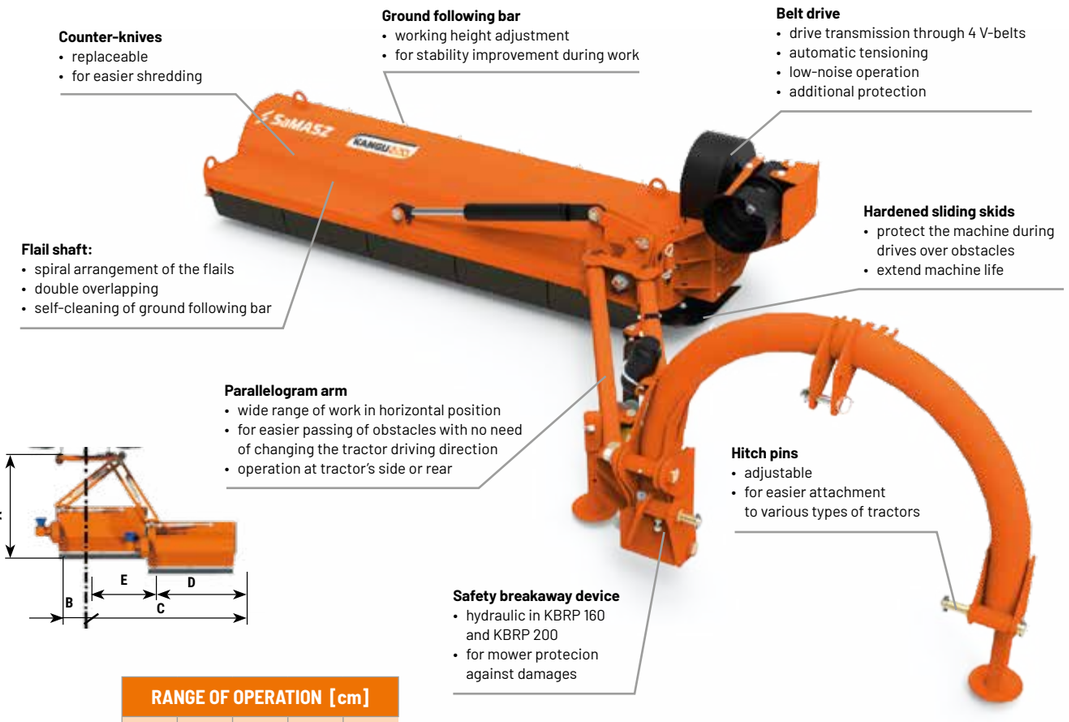
		KANGU 140		KANGU 190		KANGU 220	
TECHNICAL DATA	Working width [m / ft]	1,40	4'7"	1,90	6'3"	2,20	7'2"
	Transport width [m / ft]	1,55		5'1"			
	Transport height [m / ft]	2,25	7'4"	2,70	8'10"	3,05	10'
	Necessary hydraulic couplers	2 x double acting					
	Number of flails [pcs]	24		30		32	
	Number of counter knives	1 row / 2 pcs.					
	Range of work	from -60° to +90°					
	Flail shaft diameter [mm /in]	133		5 15/64		139	5 1/2
	RPM	540					
	Recomended power demand [HP]	from 50		from 70		from 85	
	3-point hitch category	II					
	Weight [kg / ft]	540	1190	660	1455	755	1665
	Max. diameter of branches to be cut [mm /in]	60		2 1/3"			
	PTO shaft	**tractor - mower:** wide-angle (overruning clutch in gearbox)					

		KANGU 140	KANGU 190	KANGU 220
OPTIONAL EQUIPMENT	Additional inner mantle	+	+	+
	Protective chains [set]	+	+	+
	Warning plates [set]		+	
	Flail shaft with type II flails [set]	+	+	+
	Flail shaft with type III flails [set]	+	+	+
	Flail shaft with type IV flails [set]	+	+	+

* Factory mounted only. Additional charge for changing from standard to optional flails.

KBRP

FLAIL MOWER



RANGE OF OPERATION [cm]	A	B	C	D	E
KBRP 160	205	52	289	165	124
KBRP 200	205	52	329	205	124

OTHER ADVANTAGES OF KBRP FLAIL MOWERS

Design	• enables work within -65° and +90° range • high durability owing to use of high-grade steel • metal sheet for housing reinforcement • unlike KANGU, the KBRP mower is designed to work under more difficult conditions
Ground following bar	• automatic cleaning with flails • no pressing of mowed material
Flail shaft	• equipped with double row barrel bearings • arrangement of flails provides intensive shredding of material and faster drying and decomposition • combined with front flail mower ensures less drives, and as a result time savings • lower load of machine and tractor

OPTIONAL EQUIPMENT

Flail knives

TYPE II **TYPE III** **TYPE IV**

STANDARD EQUIPMENT

Flail shaft with double flail spiral (double overlapping) • Ground following bar (with working height adjustment) • Overload clutch • Fixed counter-knife • Hardened sliding skids • Wide-angle PTO shaft • Automatic tensioning of V-belts • Protective flaps • Additional, replaceable inner mantle • Hydraulic safety breakaway device • Adjustable hitch pins

TECHNICAL DATA	KBRP 160		KBRP 200	
Working width [m / ft]	1,60	5'3"	2,00	6'7"
Transport width [m / ft]	1,65	5'4"	1,65	5'4"
Transport height [m / ft]	2,30	7'6"	2,70	8'10"
Necessary hydraulic couplers	2 x double acting			
Number of flails [pcs]	18		24	
Number of counter knives	1 row fixed			
Range of work	from -60° to +90°			
Flail shaft diameter [mm /ft]	168		6 39/64	
RPM	540			
Recomended power demand [HP]	from 70		from 80	
3-point hitch category	II			
Weight [kg / ft]	760	1675	825	1820
Max. diameter of branches to be cut [mm /in]	80			3 5/32'
PTO shaft	**tractor - mower:** wide-angle with overload clutch			

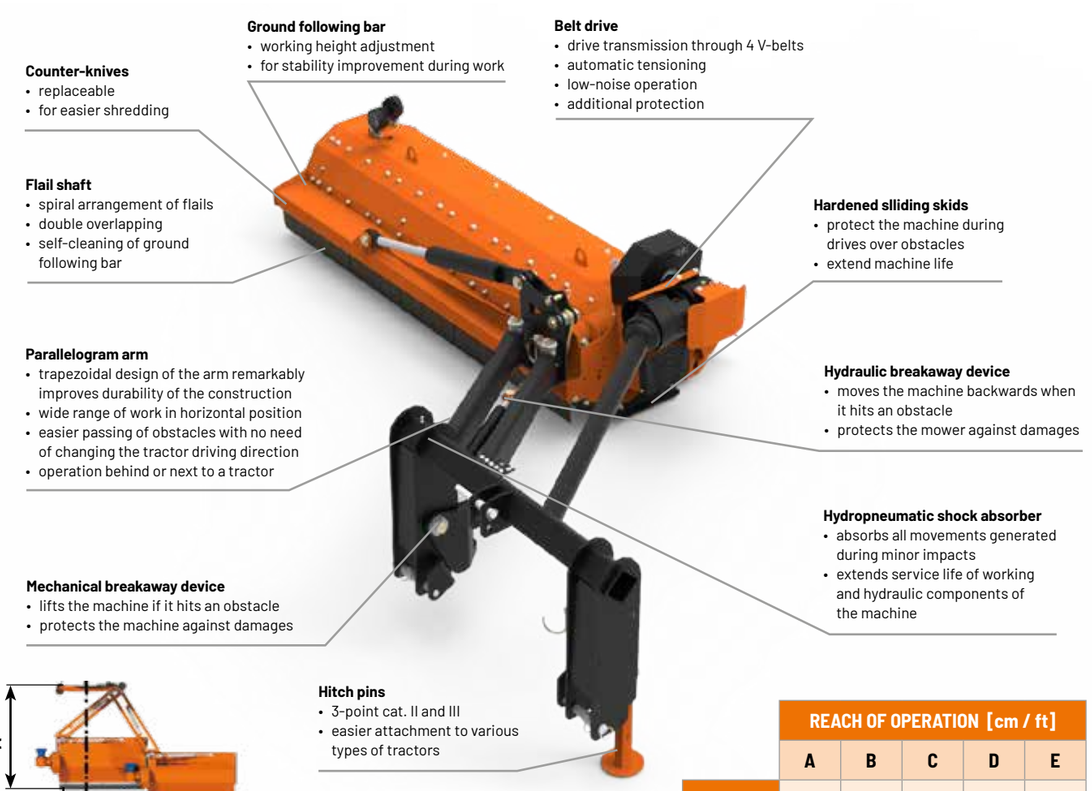
OPTIONAL EQUIPMENT	KBRP 160	KBRP 200
Protective chains [set]	+	+
Warning plates [set]	+	
Flail shaft with type II flails [set] *	+	+
Flail shaft with type III flails [set] *	+	+
Flail shaft with type IV flails [set] *	+	+

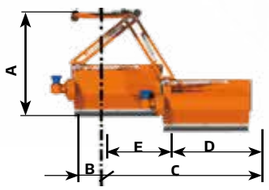
* Factory mounted only. Additional charge for changing from standard to optional flails.

MUNICIPAL EQUIPMENT

KBRP 250

FLAIL MOWER





	REACH OF OPERATION [cm / ft]				
	A	B	C	D	E
KBRP 250	240 / 7'10"	123 / 4'0"	400 / 13'1"	250 / 8'2"	150 / 4'11"

OTHER ADVANTAGES OF KBRP 250 FLAIL MOWERS

Design	• enables work within -65° and +90° range • high durability owing to use of S 700 steel • the well-thought-out design of the parallelogram frame ensures high machine durability • front protective flaps in standard equipment • hydropneumatic shock absorber - absorbs the vibrations generated by the machine during work • mechanical and hydraulic breakaway devices - protect the machine from damages in case of collision with an obstacle • combined with front flail mower ensures less drives, and as a result time savings
Ground following bar	• automatic cleaning with flails • no pressing of mowed material
Flail shaft	• equipped with double row barrel bearings • arrangement of flails provides intensive shredding of material and faster drying and decomposition • lower load of machine and tractor

OPTIONAL EQUIPMENT

Flail knives

TYPE III

TYPE IV

STANDARD EQUIPMENT

Flail shaft with double flail spiral (double overlapping) • Ground following bar (with working height adjustment) • Overrunning clutch • Replaceable counter-knives • Hardened sliding skids • Wide-angle PTO shaft • Automatic ensioning of V-belts • Protective flaps • Adjustable support leg • Additional, replaceable inner mantle • Hydraulic and mechanical breakaway devices • Hydro-pneumatic shock absorber

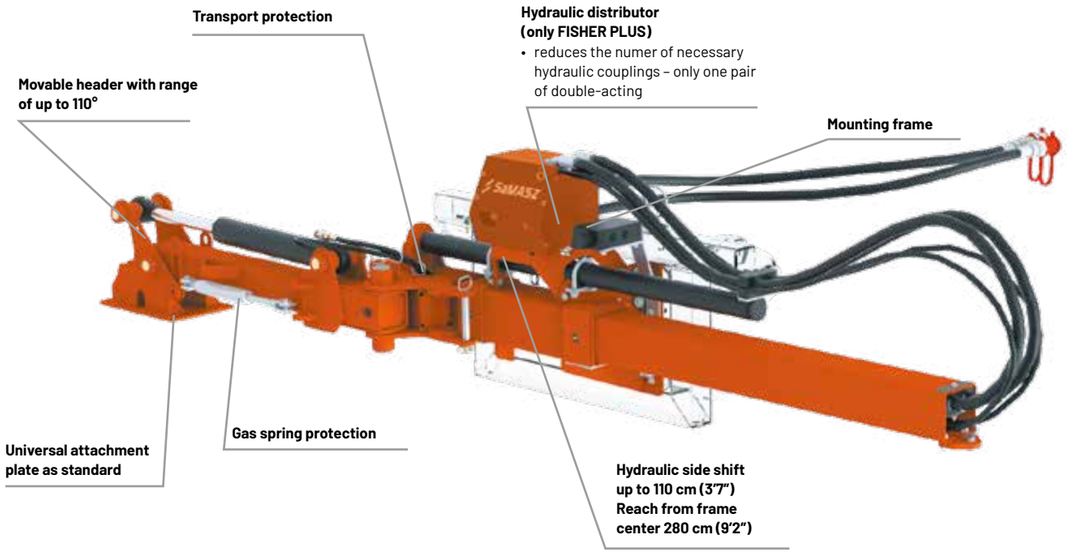
		KBRP 250	
TECHNICAL DATA	Working width [m / ft]	2,5	8'2"
	Transport width [m / ft]	1,55	5'1"
	Transport height [m / ft]	3,35	10'11"
	Necessary hydraulic couplers	2 x double acting	
	Number of flails [pcs]	30	
	Number of counter knives	1 row	
	Range of work	from -60° to +90°	
	Flail shaft diameter [mm /in]	203	7 63/64
	RPM	540	
	Recomended power demand [HP]	from 120	
	3-point hitch category	II / III	
	Weight [kg / ft]	1195	2635
	Max. diameter of branches to be cut [mm /in]	80	3 5/32'
	PTO shaft	**tractor - mower:** wide-angle with overruning clutch	

		KBRP 250
OPTIONAL EQUIPMENT	Protective chains	+
	Additional row of counter-knives [set]	+
	Warning plates [set]	+
	Flail shaft with type III flails [set]*	+
	Flail shaft with type IV flails [set]*	+

* Surcharge for changing from standard to optional flails.

FISHER

HYDRAULIC FRONT-LOADER EXTENSION ARM



CONTROL PANEL FISHER

Operated functions:
1. extension arm side shift
2. head inclination

Necessary hydraulic couplers:
1 x double acting for hydraulic cylinder operating
1 x single acting (+ free flow) for attachment drive

CONTROL PANEL FISHER PLUS

Operated functions:
1. switching on the working head drive
2. extension arm side shift
3. head inclination

Necessary hydraulic couplers:
1 x single acting (+ free flow) for all functions thanks to hydraulic distributor

OTHER ADVANTAGES OF FISHER / FISHER PLUS

Design	• designed to operate with circular saw PT and scissor trimmer PG • stepless transverse extension up to 110 cm • stepless adjustment of working head inclination up to 110° • low powerd demand of vehicle's hydraulic pump • FISHER PLUS: - equipped with a hydraulic distributor to reduce the number of hydraulic couplings needed
Comfort of operation	• convenient steering by means of panel • gas cylinder protection • convenient, mechanical folding to transport • compact dimensions do not restrict visibility during work and transport • ideal alternative to regular arms
Attachment to tractor	• patented system of frames adapted from snow plows series PSV • possibility of adapting the frame to most of the vehicles with front loader • possibility of equipping the adapter with optional counterweight
Attachment to working head	• quick attachment to working head: only 6 bolts • the adapter is equipped with EURO socket enabling quick mounting of working head's hydraulic cords • optionally Flat Face hydraulic couplings available

STANDARD EQUIPMENT

Stepless hydraulic adjustment • Movable mounting plate • Gas spring protection • Transport latch • Control panel • Hydraulic distributor (Fisher PLUS)

		FISHER	FISHER L	FISHER PLUS	FISHER L PLUS
TECHNICAL DATA	Side-shift [m / ft]	1		1'3"	
	Head rotation	110°			
	Necessary hydraulic couplers	1 x double acting + 1 x single acting + case drain		1 x single acting + case drain	
	Hydraulic pressure [bar / PSI]	210		3 045	
	Weight with mounting frame [kg / lbs]	~ 260		~ 575	
	Designation	PG F, PT F	PG F L, PT F L	PG F, PT F	PG F L, PT F L

		FISHER	FISHER L	FISHER PLUS	FISHER L PLUS
OPTIONAL EQUIPMENT	Mounting frames - type I (see p. 170)	+			
	Mounting frames - type II (see p. 170-172)	+			
	Counterweight for Fisher (PLUS) (only with 0202.10.20.000 or 0202.47.20.000)	+	-	+	-
	Counterweight for Fisher L (L PLUS) (only with 0202.10.30.000)	-	+	-	+
	EURO - frame	+	+	+	+
	Hydraulic quick coupling Flat Face (set)	+			
	Hydraulic quick coupling Flat Face (male)	+			
	3 -meter extension of the electrical harness	+			
	6-meter extension of the electrical harness	+			
	Case drain [set]	+			

COUNTERWEIGHT

(only with mounting frames 0202.10.20.000 or 0202.47.20.000)

SCISSOR TRIMMER

PG 150 / PG 150 F
PG 200 / PG 200 F

CIRCULAR SAW

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

* 12V power supply required. Operation with circular saw PT requires case drain.

MUNICIPAL EQUIPMENT

PICTURES PRESENTED IN THIS PRICE LIST HAVE ONLY A VIEW CHARACTER.
THE EQUIPMENT OF THE MACHINE DEPENDS ON THE INDIVIDUAL ARRANGEMENTS WITH THE CUSTOMER AND THE MODEL OF THE MACHINE.

SAMASZ EXTENSION ARMS CONTROLS

ELECTRIC (E)

DESCRIPTION	- control of an extension arm and a working head with a joystick and a control panel - includes a joystick and a control panel
FEATURES	- semi-proportional – 0-1 system - control of 1 hydraulic cylinder at a time - up / down and left / right movement of the joystick possible - buttons on the joystick for additional movements of an extension arm and a head
OPERATED FUNCTIONS	1. ground following of an extension arm 2. floating position of a working head 3. oil overheating warning 4. insufficient oil level warning 5. self-cleaning of the cooler: - automatic, periodical switching of rotation of the cooler fan to the opposite direction - optimises cooler functionality 6. self cleaning of the working shaft - activating the rotor reverse gear
ARM TYPE	- Koliber 450 E - KWT 550 E - KWT 650 E - KWT 651 E

ELECTRIC-PROPORTIONAL (EP)

DESCRIPTION	- precise and comfortable control of an extension arm and a working head with a multifunctional joystick and a control panel - includes a multifunctional joystick and a control panel
FEATURES	- electric-proportional - the speed of arm movements depends on the degree of the joystick inclination - control of up to 3 hydraulic cylinders at a time - greater precision, flexibility and control of work - buttons and sliders on the joystick for additional movements of an extension arm and a head
OPERATED FUNCTIONS	1. ground following of an extension arm 2. floating position of a working head 3. oil overheating warning 4. insufficient oil level warning 5. self-cleaning of the cooler: - automatic, periodical switching of rotation of the cooler fan to the opposite direction - optimises cooler functionality 6. self cleaning of the working shaft - activating the rotor reverse gear
ARM TYPE	- KWT 550 EP - KWT 650 EP - KWT 651 EP - Camel 900 EP

ELECTRIC-PROPORTIONAL + (EP+)

DESCRIPTION	- precise and comfortable control of an extension arm and a working head with a multifunctional joystick and a control panel - includes a multifunctional joystick and a control panel
FEATURES	- electric-proportional - the speed of arm movements depends on the degree of the joystick inclination - control of up to 3 hydraulic cylinders at a time - greater precision, flexibility and control of work - buttons and sliders on the joystick for additional movements of an extension arm and a head
OPERATED FUNCTIONS	same as EP, and extended by: 1. Arm movement shock absorption - cushioning movements generated during work 2. Automatic positioning of the attachment - automatic holding of pre-set position 3. Flexible arm relief - automatic and flexible overcoming of uneven terrain without need of using joystick 4. Hydraulic safety device - protection feature in the event of impact with an obstacle
ARM TYPE	KWT 651 EP+

EXTENSION ARMS

MECHANICAL QUICK-COUPLING

- mounting with all SaMASZ heads possible
- enables quick, tool-free head change

SWIVEL MECHANICAL ADAPTER

- rotation range up to 45°
- increases the working range of heads by changing the angle of the head to an extension arm
- dedicated for Lama 121 / 141 / 121 HD

SWIVEL HYDRAULIC ADAPTER

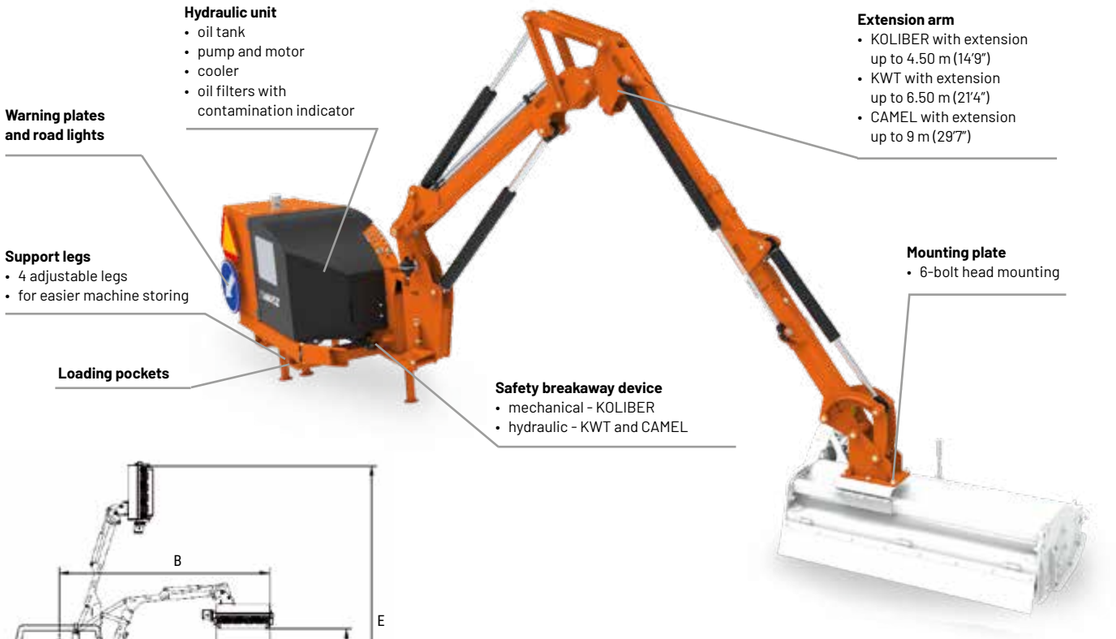
- mounting with all SaMASZ heads possible
- stepless rotation range up to 180°
- possibility to change the position af a head from a tractor cabin using hydraulics
- increases the working range of heads by changing the angle of the head to an extension arm
- dedicated only to SaMASZ extension arms equipped with safety breakaway device

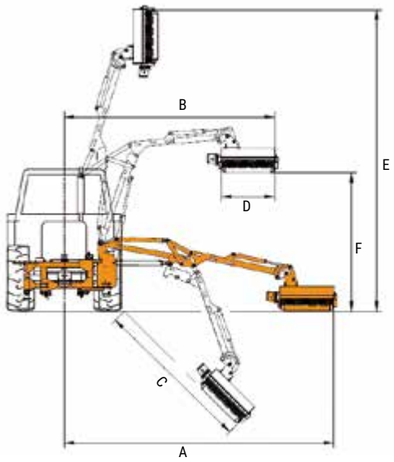
GROUND FOLLOWING ADAPTING SYSTEM

- dedicated for Lama 121 / 141
- enables operation on difficult, uneven terrain with extension arms not equipped with the floating function
- ground following range up to 260 mm

KOLIBER / KWT / CAMEL

EXTENSION ARMS





Working reach of extension arms with various working heads [cm]:						
	A	B	C	D	E	F
KOLIBER 450	380 - 480	345 - 365	315 - 335	120 - 140	502 - 522	250
KWT 550	495 - 610	450 - 480	370 - 410	105 - 250	650 - 680	290
KWT 650	580 - 690	450 - 580	465 - 500	105 - 250	650 - 760	190 - 300
CAMEL 900	800 - 900	660 - 710	620 - 650	105 - 250	930 - 960	400 - 520

OTHER ADVANTAGES OF KOLIBER / KWT / CAMEL EXTENSION ARMS

Steering	**Two types of steering to choose from** • electric (E) ON-OFF - arm is movedat constant speed adjusted with choke valves • proportional (EP) - arm motion speed dependent on joystick position - simultaneous three-cylinder control possible

OPTIONAL EQUIPMENT

MECHANICAL QUICK - COUPLING
- mounting with all mowing heads possible

SWIVEL MECHANICAL ADAPTER
- rotation range + / - 45°
- Lama 121, 141, 121 HD

SWIVEL HYDRAULIC ADAPTER
- mounting with all mowing heads possible
- stepless rotation range up to 180°

GROUND FOLLOWING SYSTEM
- attachment to LAMA 121 / 141 requires additional bracket
- movement range up to 260 mm (~10 in)

STANDARD EQUIPMENT

Hydraulic safety breakaway device (KWT and CAMEL) • Mechanical safety breakaway device (KOLIBER) • Electric or electric-proportional steering • 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) • Bolted and replaceable oil tank

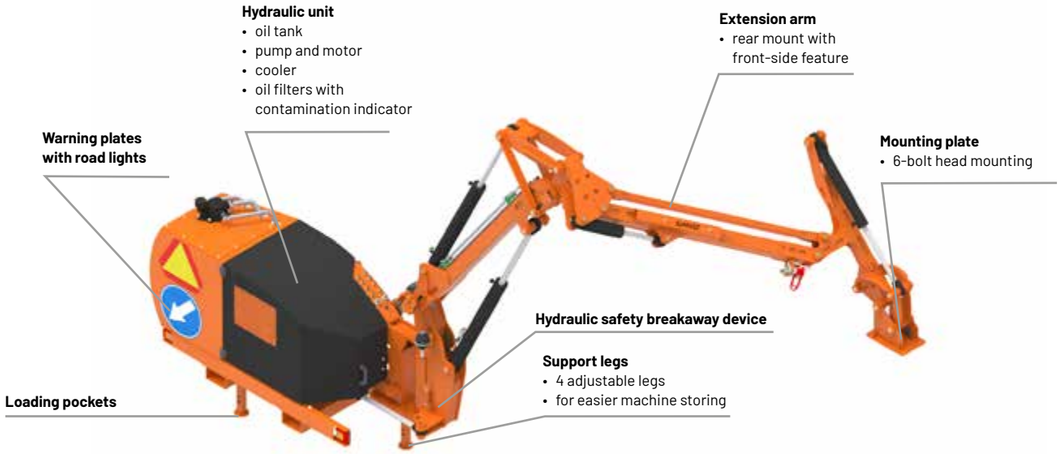
		KOLIBER 450	KWT 550	KWT 650	CAMEL 900
TECHNICAL DATA	Maximum arm reach [m / ft] *	4,50 / 14'9"	5,50 / 18'	6,50 / 21'4"	9,00 / 29'7"
	Necessary hydraulic couplers	1 x double acting			
	Min. tractor weight with given attachments [kg / lbs]:				
	LAMA 120 / 121	2900 / 6395	4000 / 8820	5000 / 11025	7500 / 16535
	KW, LAMA 120 / 121	-	4000 / 8820	5000 / 11025	-
	KW 126 / 141 / 140 / 141	-	4500 / 9920	5000 / 11025	-
	Oil tank capacity [L / cu.ft.]	120 / 31 us gal	200 / 52 us gal		
	Pump power [kW]	46 - 53			
	Pump efficiency (l/min) / (GPM)	90 / 23			
	Transport width [cm]	185 / 6'1"	195 / 6'5"		190 / 6'3"
	Transport height [cm]	290 / 9'6"	350 / 11'6"		400 / 13'1"
	RPM	540			
	Power demand [HP]	from 55	from 80	from 90	from 120
	3-point hitch cat.	II			
	Weight [kg / lbs]	580 / 1 280	1 055 / 2 325	1 140 / 2 515	1 370 / 3 020
	PTO shaft	tractor - mower: no clutch			
	3-point hitch support brackets	-	Turnbuckle		

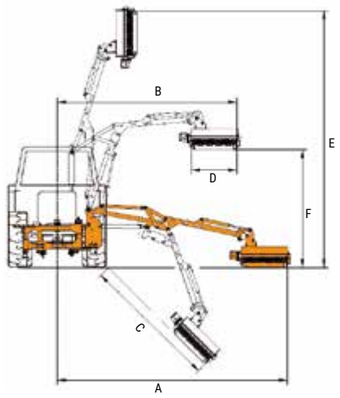
		KOLIBER 450	KWT 550	KWT 650	CAMEL 900
OPTIONAL EQUIPMENT	1000 RPM [MIHM-606-307] (factory mounted only)	+			
	Mechanical quick-coupling [set] [0388.09.00.000]	+			
	Quick coupling-working head adapter [0388.09.00.000_M01]	+			
	Quick coupling- extension arm adapter [0388.09.00.000_M02]	+			
	Swivel mechanical adapter [0388.04.00.000]	+			
	Swivel hydraulic adapter [0388.06.00.000]	+			
	Ground following system [0000028864]	+			

* Arm reach with the mowing head Lama 120

KWT 651 E / EP / EP+

EXTENSION ARM





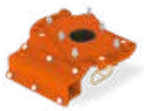
	Working reach of extension arms with various working heads [cm]:					
	A	B	C	D	E	F
KWT 651	580 - 665	450 - 560	410 - 450	105 - 250	720 - 750	190 - 300

OTHER ADVANTAGES OF KWT 651 EXTENSION ARMS

Steering	• electric (E) as standard: - steering with one cylinder possible • proportional steering (EP) available: - arm motion speed dependent on joystick position - simultaneous three-cylinder control possible • electric proportional + steering (EP+): - contains all the functions of EP steering - extended by new functions, such as automatic positioning of the attachment, arm movement shock absorption or flexible arm relief

OPTIONAL EQUIPMENT

MECHANICAL QUICK - COUPLING
- mounting with all mowing heads possible



SWIVEL MECHANICAL ADAPTER
- rotation range + / - 45°
- Lama 121, 141, 121 HD

SWIVEL HYDRAULIC ADAPTER
- mounting with all mowing heads possible
- stepless rotation range up to 180°

GROUND FOLLOWING SYSTEM
- attachment to LAMA 121 / 141 requires additional bracket
- movement range up to 260 mm (~10 in)

STANDARD EQUIPMENT

Electric steering with joystick •Hydraulic safety device •Temperature and oil level indicator •Transport safety device with valve • Cooler with oil filters •Stabilizing brackets •Adjustable support legs • Warning plates with road lights • PTO shaft • Bolted, replaceable oil tank

		KWT 651	
TECHNICAL DATA	Maximum arm reach [m /ft]	6,50	21'4"
	Min. tractor weight with given attachments [kg / lbs]:		
	KW, LAMA 120 / 121	5 000	11 025
	KW 126 / 141, LAMA 140 / 141	5 500	12 125
	Oil tank capacity [l / US gal]	220	58
	Pump power [kW]	46 - 53	
	Pump efficiency [l/min / GPM]	90	23
	Transport width [cm / ft]	195	6'5"
	Transport height [cm / ft]	350	11'6"
	RPM	540	
	Recomended power demand [HP]	from 90	
	3-point hitch category	II	
	Weight "E" [kg / lbs]	1 335	2 940
	Weight "EP" [kg / lbs]	1 320	2 910
	Weight „EP+ [kg / lbs]	1 250	2 755
	PTO shaft	**tractor - arm:** no clutch	
	3-point hitch support brackets	Turnbuckle	

		KWT 651
OPTIONAL EQUIPMENT	1000 RPM (factory mounted only)	+
	Mechanical quick-coupling [set]	+
	Quick coupling-working head adapter	+
	Quick coupling- extension arm adapter	+
	Swivel mechanical adapter	+
	Swivel hydraulic adapter	+
	Ground following system** (only in KWT 651 E and EP)	+

* Arm reach with the mowing head Lama 120
** KWT 651 EP+ contains ground following system as standard

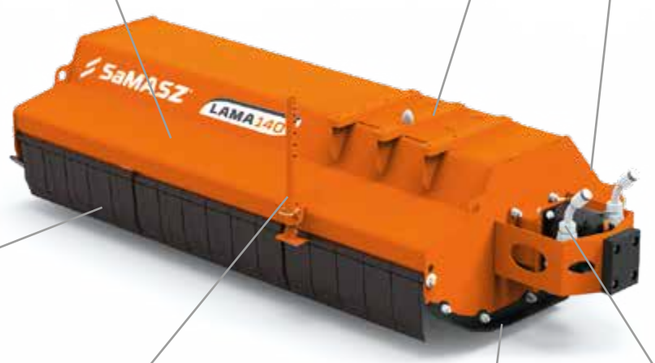
LAMA 120, 140

MOWING HEAD

Mounting plate base
- located at the centre of gravity of the head
- guide pin for easy mounting with the extension arm
- various adapters between the head and the extension arm available

Flail shaft
- spiral arrangement of the flails
- double overlapping
- self-cleaning of ground following bar

Ground following bar
- working height adjustment
- for stability improvement during work

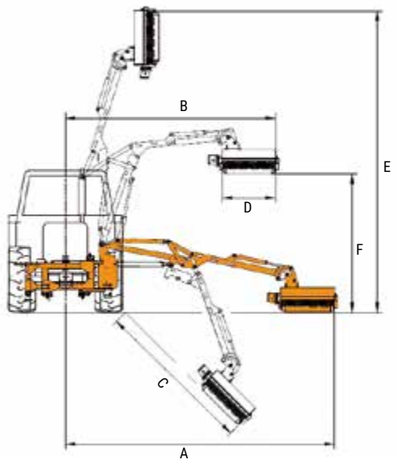


Protective metal sheet guards

Support leg
- adjustable
- facilitates the mounting / dismounting the head to the extension arm

Hydraulic drive
- direct drive on the flail shaft
- operating below water possible

Hardened sliding skids
- protect the machine during drives over obstacles
- extend machine life



	Working reach of extension arms with LAMA 120 [cm]:					
	A	B	C	D	E	F
KOLIBER 450	460	345	315	120	502	250
KWT 550	580	450	370	120	650	290
KWT 650	670	540	465	120	730	300
KWT 651	630	540	415	120	730	300
CAMEL 900	900	690	650	120	960	520

	working reach of extension arms with LAMA 140 [cm]:					
	A	B	C	D	E	F
KOLIBER 450	480	365	335	140	522	250
KWT 550	600	470	390	140	670	290
KWT 650	690	560	485	140	750	300
KWT 651	650	560	435	140	750	300
CAMEL 900	920	710	670	140	980	520

ATTACHMENT'S ATTRIBUTES

- light class
- hydraulic drive on the side of the machine
- fixed mounting with the extension arm

~ 0,2 kg (0,45 lbs)

FLAIL TYPE VII
In standard equipment

TECHNICAL DATA	LAMA 120		LAMA 140	
Working width [m / ft]	1,2	3'11"	1,4	4'7"
Flail shaft diameter [mm / in]	108		4 1/4"	
Number of flails [pcs.]	20		24	
Max. diameter of shredded sprout [mm / in]**	20		25/32"	
Oil pump efficiency [l/min / GPM]	90 - 100		23 - 26	
Hydraulic pressure [bar / PSI]	210		3 045	
Drive and controls	hydraulic			
Weight [kg / lbs]	185	407	205	451
Arm type	KWT, CAMEL		KWT	

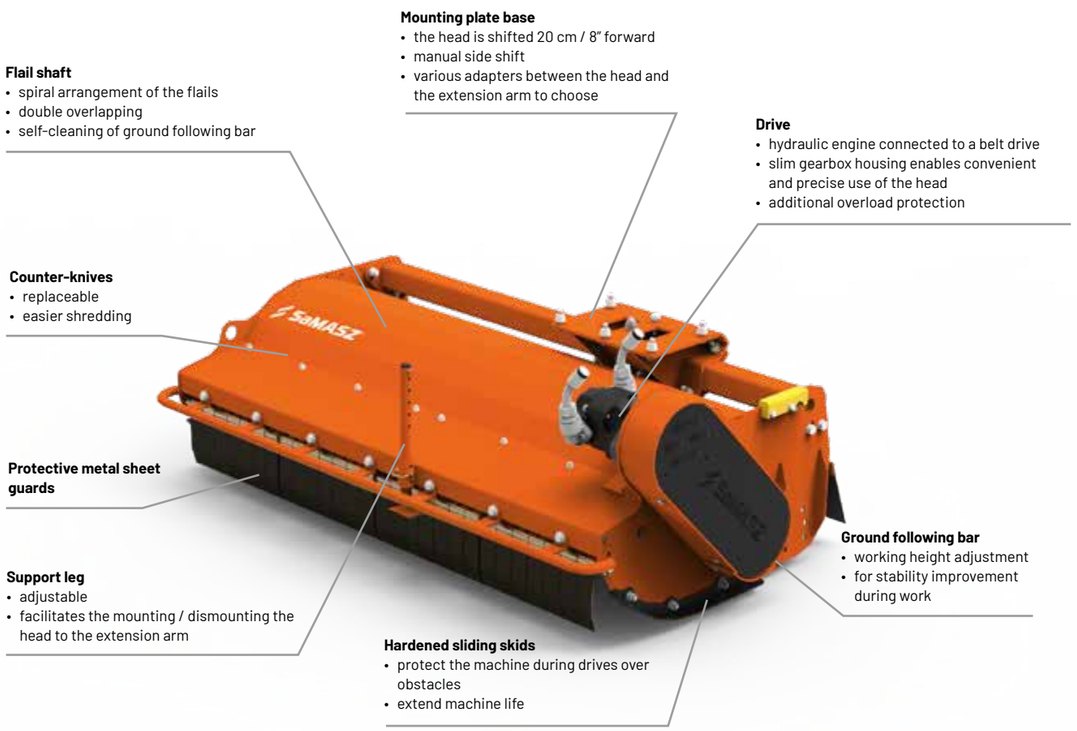
OPTIONAL EQUIPMENT	LAMA 120	LAMA 140
Flail shaft with type VIII flails [set] * (factory mounted only)	+	+
Flail shaft with type IX flails [set] * (factory mounted only)	+	+

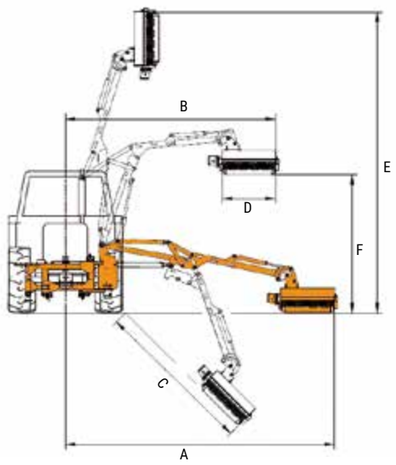
* Factory mounted only. Additional charge for changing from standard to optional flails.
** using appropriate flails

MUNICIPAL EQUIPMENT

LAMA 121, 141

MOWING HEAD





	Working reach of extension arms with LAMA 121 [cm]:					
	A	B	C	D	E	F
KOLIBER 450	470	355	325	120	502	250
KWT 550	590	460	390	120	650	290
KWT 650	680	550	480	120	740	300
KWT 651	645	540	430	120	730	300
CAMEL 900	910	700	660	120	960	520

	Working reach of extension arms with LAMA 141 [cm]:					
	A	B	C	D	E	F
KOLIBER 450	mounting impossible					
KWT 550	610	480	410	140	680	290
KWT 650	700	580	500	140	760	300
KWT 651	665	560	450	140	750	300
CAMEL 900	mounting impossible					

ATTACHMENT'S ATTRIBUTES

- light class
- hydraulic drive on the top of the machine - belt drive
- manual side shift

~ 0,2 kg (0,45 lbs)

FLAIL TYPE VII
In standard equipment

		LAMA 121		LAMA 141	
TECHNICAL DATA	Working width [m / ft]	1,20	3'11"	1,40	4'7"
	Flail shaft diameter [mm / in]	108		4 1/4"	
	Number of flails [pcs.]	20		24	
	Max. diameter of shredded sprout [mm / in] **	20		25/32"	
	Oil pump efficiency [l/min / GPM]	90 - 100		23 - 26	
	Hydraulic pressure [bar / PSI]	210		3 045	
	Drive and controls	hydraulic			
	Weight [kg / lbs]	245	540	265	584
	Arm type	KWT, CAMEL		KWT	

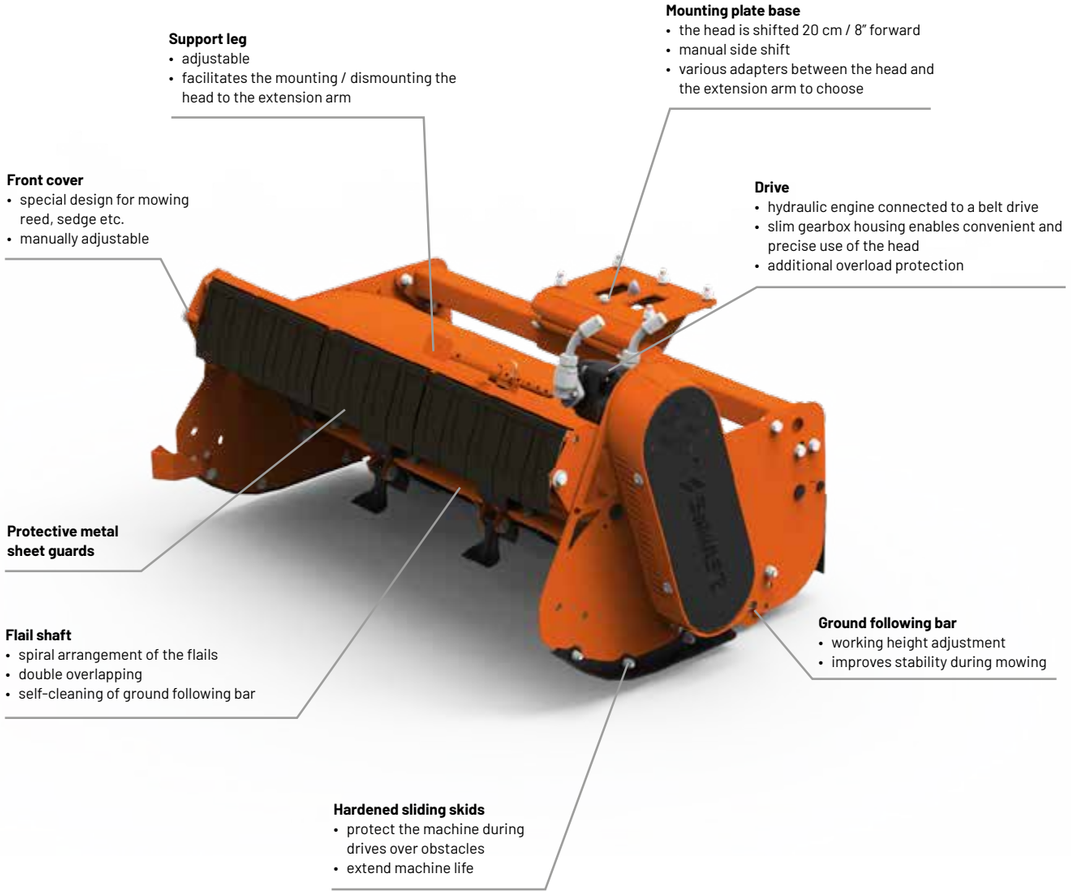
		LAMA 121	LAMA 141
OPTIONAL EQUIPMENT	Flail shaft with type VIII flails [set] * (factory mounted only)	+	+
	Flail shaft with type IX flails [set] * (factory mounted only)	+	+

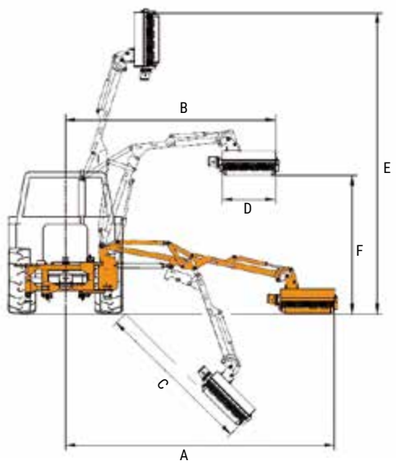
* Factory mounted only. Additional charge for changing from standard to optional flails.
** using appropriate flails

MUNICIPAL EQUIPMENT

LAMA 121 HD

MOWING HEAD





	Working reach of extension arms with LAMA 121 HD [cm]:					
	A	B	C	D	E	F
KOLIBER 450	mounting impossible					
KWT 550	590	460	390	120	650	290
KWT 650	680	460	480	120	650	290
KWT 651	645	540	430	150	730	300
CAMEL 900	mounting impossible					

ATTACHMENT'S ATTRIBUTES

- medium class
- hydraulic drive on the top of the machine - belt drive
- manual side shift
- adjustable front cover - for mulching reed

~ 0,6 kg (1,3 lbs)

FLAIL TYPE V
In standard equipment

		LAMA 121 HD	
TECHNICAL DATA	Working width [m / ft]	1,20	3'11"
	Flail shaft diameter [mm / in]	133	5 1/4"
	Number of flails [pcs.]	20	
	Max. diameter of shredded sprout [mm / in] **	50	1 31/32"
	Oil pump efficiency [l/min. / GPM]	90 - 100	23 - 26
	Hydraulic pressure [bar / PSI]	210	3 045
	Weight [kg / lbs]	270	595
	Arm type	KWT	

		LAMA 121 HD
OPTIONAL EQUIPMENT	Flail shaft with type II flails [set] * (factory mounted only)	+
	Flail shaft with type III flails [set] * (factory mounted only)	+
	Flail shaft with type IV flails [set] * (factory mounted only)	+

* Factory mounted only. Additional charge for changing from standard to optional flails.
** using appropriate flails

MUNICIPAL EQUIPMENT

KW

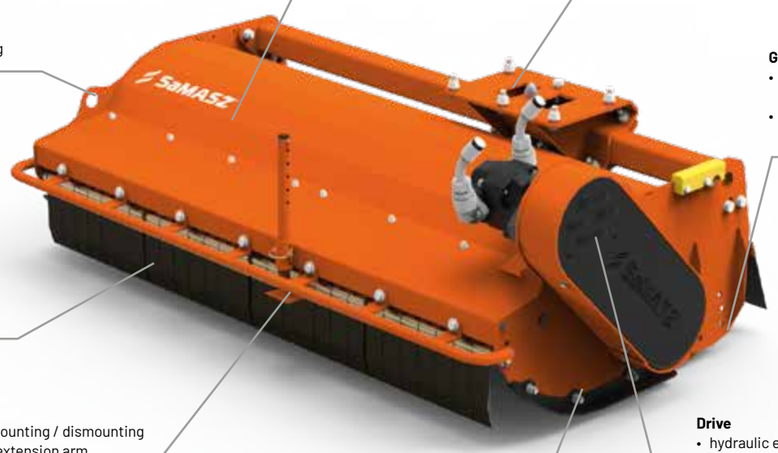
MOWING HEAD

Flail shaft
- spiral arrangement of the flails
- double overlapping
- self-cleaning of ground following bar

Mounting plate
- the head is shifted 20 cm / 8" forward
- manual side shift
- various adapters between the head and the extension arm to choose

Counter-knives
- replaceable
- easier shredding

Ground following bar
- working height adjustment
- improves stability during mowing

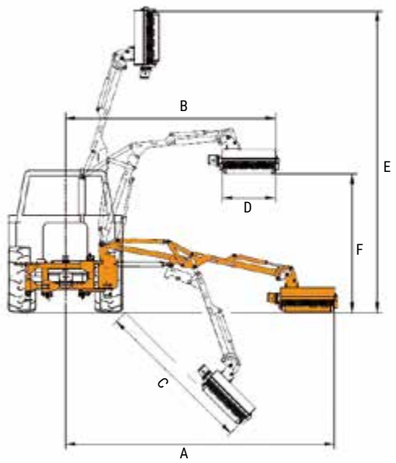


Protective metal sheet guards

Support leg
- adjustable
- facilitates the mounting / dismounting the head to the extension arm

Hardened sliding skids
- protect the machine during drives over obstacles
- extend machine life

Drive
- hydraulic engine connected to a belt drive
- slim gearbox housing enables convenient and precise use of the head
- additional overload protection



	Working reach of extension arms with KW 126 [cm]:					
	A	B	C	D	E	F
KOLIBER 450	mounting impossible					
KWT 550	595	465	395	130	660	290
KWT 650	685	565	485	130	750	300
KWT 651	650	545	435	130	740	300
CAMEL 900	mounting impossible					

	Working reach of extension arms with KW 141 [cm]:					
	A	B	C	D	E	F
KOLIBER 450	mounting impossible					
KWT 550	610	480	410	140	680	290
KWT 650	610	480	410	140	680	290
KWT 651	665	560	450	140	750	300
CAMEL 900	mounting impossible					

ATTACHMENT'S ATTRIBUTES

- medium class
- hydraulic drive on the top of the machine - cogbelt drive
- manual side shift

~ 0,6 kg (1,3 lbs)

FLAIL TYPE V
In standard equipment

		KW 126		KW 141	
TECHNICAL DATA	Working width [m / ft]	1,25	4'1"	1,40	4'7"
	Flail shaft diameter [mm / in]	133		5 1/4"	
	Number of flails [pcs.]	14		16	
	Max. diameter of shredded sprout [mm / in] **	80		3 5/32"	
	Oil pump efficiency [l/min / GPM]	90 - 100		23 - 26	
	Hydraulic pressure [bar / PSI]	210		3 045	
	Weight [kg / lbs]	288	634	312	687
	Arm type	KWT			

		KW 126	KW 141
OPTIONAL EQUIPMENT	Protective chains [set]	+	+
	Flail shaft with type VI flails [set] * (factory mounted only)	+	+

* Factory mounted only. Additional charge for changing from standard to optional flails.
** using appropriate flails

PT

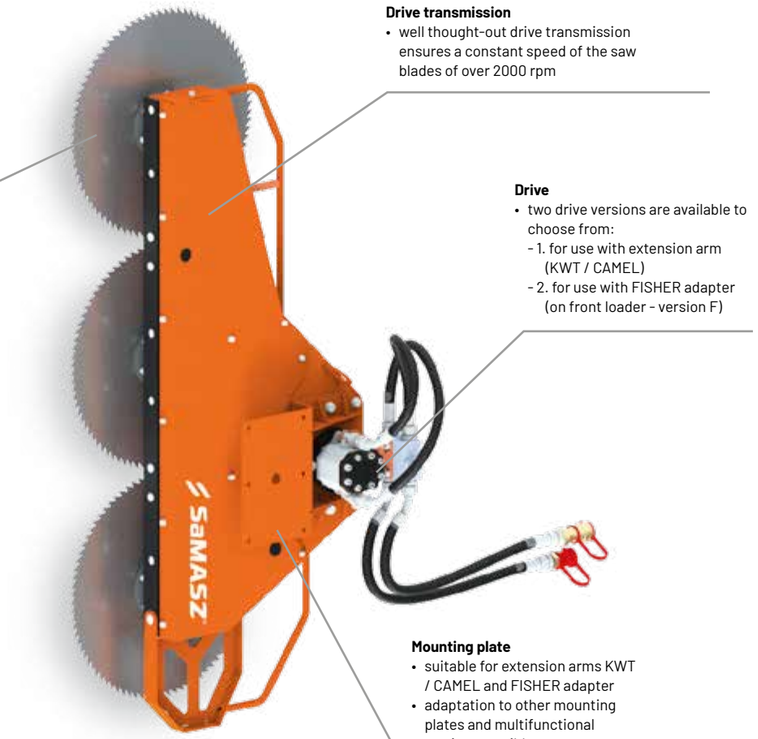
CIRCULAR SAW

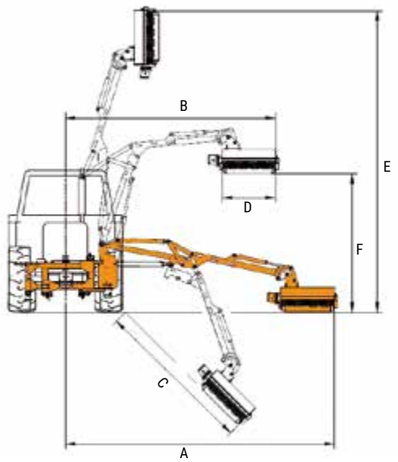
Saw blades
- very large diameter: ø 630 mm / 21"
- made of wear-resistant steel
- anti-vibration protection
- additionally galvanized
- 120 teeth for better performance

Drive transmission
- well thought-out drive transmission ensures a constant speed of the saw blades of over 2000 rpm

Drive
- two drive versions are available to choose from:
  - 1. for use with extension arm (KWT / CAMEL)
  - 2. for use with FISHER adapter (on front loader - version F)

Mounting plate
- suitable for extension arms KWT / CAMEL and FISHER adapter
- adaptation to other mounting plates and multifunctional carriers possible





	Working reach of extension arms with PT3-190 [cm]:					
	A	B	C	D	E	F
KOLIBER 450	mounting impossible					
KWT 550	535	470	370	150	670	240
KWT 650	620	560	490	150	740	230
KWT 651	620	560	440	150	740	230
CAMEL 900	840	710	650	150	940	440

	Working reach of extension arms with PT4-250 [cm]:					
	A	B	C	D	E	F
KOLIBER 450	mounting impossible					
KWT 550	550	415	-	250	740	255
KWT 650	625	505	-	250	850	245
KWT 651	625	505	-	250	850	245
CAMEL 900	845	655	-	250	1070	455

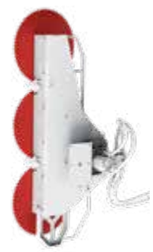
ATTACHMENT'S ATTRIBUTES

- suitable for use with extension arms (KWT / CAMEL)
- version „F" for use on front loader with FISHER adapter (see page 134 - 135)

		PT 3-190		PT 3-190 F (L)		PT 4-250		PT 4-250 F (L)	
TECHNICAL DATA	Working width [m / ft]	1,90		6'3"		2,50		8'2"	
	Number of circular blades [pcs]	3				4			
	Circular blade diameter [mm / in]	630				25"			
	Max. diameter of cut branches [mm / in]	120				5"			
	Oil pump efficiency [l/min / GPM]	85 - 100	22 - 26	55 - 70	14 - 18	85 - 100	22 - 26	55 - 70	14 - 18
	Hydraulic pressure [bar / PSI]	180				2 610			
	Weight [kg / lbs]	195		429		250		551	
	Dedicated for arm	KWT, CAMEL		FISHER (L)		KWT, CAMEL		FISHER (L)	

		PT 3-190	PT 3-190 F (L)	PT 4-250	PT 4-250 F (L)
OPTIONAL EQUIPMENT	Saw protection	+		+	
	Knife cutting unit [set]	+		+	
	Carbide saw [set]	+		+	

Knife cutting unit



Carbide saw

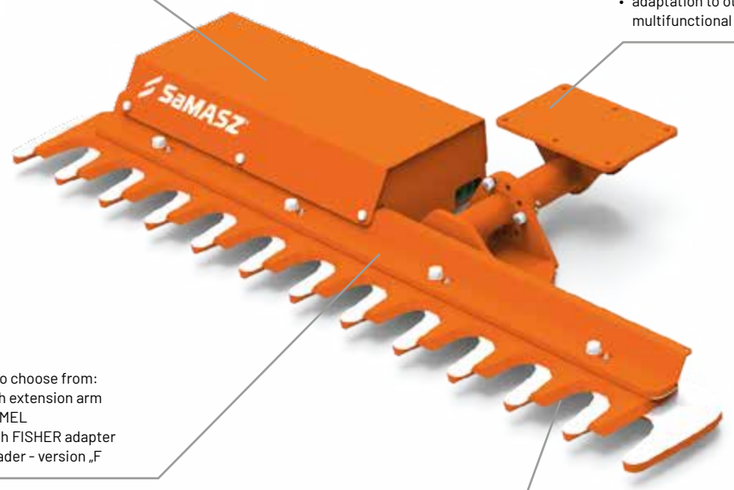
* 1 x double acting hydraulic coupler
1 x case drain for the redundant cable directly into the tank

PG

SCISSOR TRIMMER

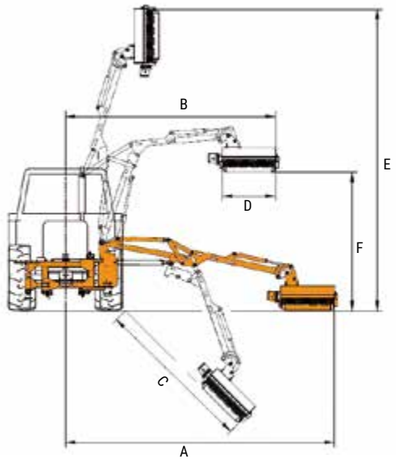
Drive transmission
- simple and proven cycle mechanism ensures constant use
- very low-maintenance

Mounting plate
- suitable for extension arms KWT / CAMEL and FISHER adapter
- adaptation to other mounting plates and multifunctional carriers possible



Versions
- two versions to choose from:
  - 1. for use with extension arm KWT or CAMEL
  - 2. for use with FISHER adapter on front loader - version „F

Cutter bar
- large dimensioned and with high wall thickness
- made of wear-resistant steel



	Working reach of extension arms with PG 150 [cm]:					
	A	B	C	D	E	F
KOLIBER 450	mounting impossible					
KWT 550	540 - 595	470	370	150	670	240
KWT 650	625 - 680	560	490	150	740	230
KWT 651	615 - 670	560	440	150	740	230
CAMEL 900	845 - 900	710	650	150	940	440

	Working reach of extension arms with PG 200 [cm]:					
	A	B	C	D	E	F
KOLIBER 450	mounting impossible					
KWT 550	540 - 595	470	350	200	670	240
KWT 650	625 - 680	560	470	200	740	230
KWT 651	615 - 670	560	420	200	740	230
CAMEL 900	845 - 900	710	630	200	940	440

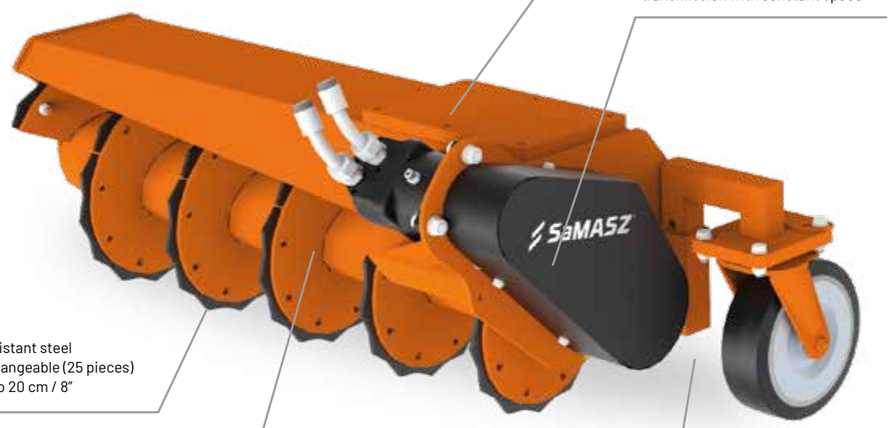
ATTACHMENT'S ATTRIBUTES

- suitable for use with extension arms (KWT / CAMEL)
- version „F" for use on front loader with FISHER adapter (see page 134 - 135)

		PG 150	PG 150 F (L)	PG 200	PG 200F (L)
TECHNICAL DATA	Working width [m / ft]	1,5	4'11"	2	6'6"
	Max diameter of cut branches [mm / in]	100		4"	
	Oil pump efficiency [l/min / GPM]	45 - 60		11 - 18	
	Hydraulic pressure [bar / PSI]	160		2 320	
	Weight [kg / lbs]	200	440	240	530
	Rodzaj ramienia	KWT, CAMEL	FISHER (L)	KWT	FISHER (L)

Mounting plate
- suitable for extension arms KWT / CAMEL
- adaptation to other mounting plates and multifunctional carriers possible

Chain drive
- designed for heavy duty applications
- guarantees a permanent drive transmission with constant speed

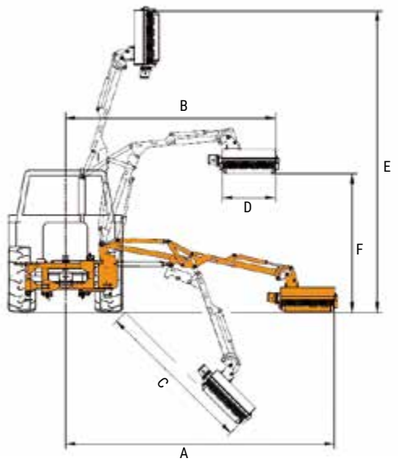


Milling bars
- made of wear-resistant steel
- screwed and exchangeable (25 pieces)
- milling depth up to 20 cm / 8”

Spiral rotor
- large dimensions (168 mm / 6 3/4”) and high wall thickness for heavy working conditions

Support wheel
- prevents uncontrolled milling into the edge strip
- guarantees a smooth run of the machine during the working process
- guarantees uniform work results

TECHNICAL DATA		RP 110	
	Working width [m / ft]	1,20	3'11"
	Max diameter of cut branches [mm / in]	168	6 3/5"
	Oil pump efficiency [l/min / GPM]	80 - 100	21 - 26
	Hydraulic pressure [bar / PSI]	210	3 045
	Weight [kg / lbs]	255	562
	Arm type	KWT	



	Working reach of extension arms with RP 110 [cm]:					
	A	B	C	D	E	F
KOLIBER 450	mounting impossible					
KWT 550	580	430	350	110	650	200
KWT 650	665	430	470	110	720	190
KWT 651	665	380	420	110	720	190

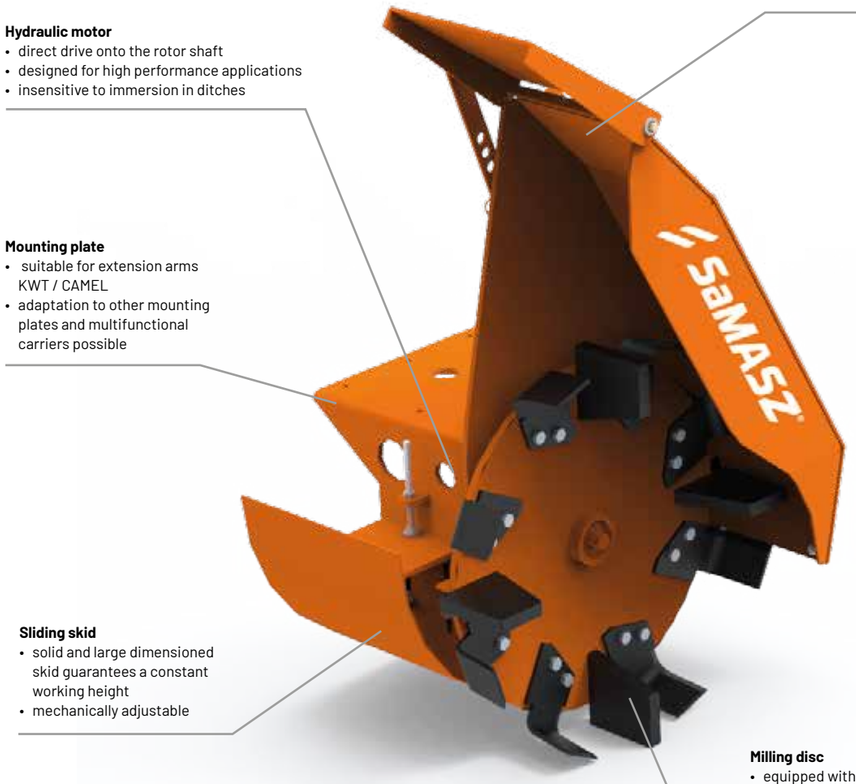
OR 080

DITCH CLEANER

Ejection chimney
- mechanically adjustable
- enables an ejection distance of up to 10 m / 33'

Hydraulic motor
- direct drive onto the rotor shaft
- designed for high performance applications
- insensitive to immersion in ditches

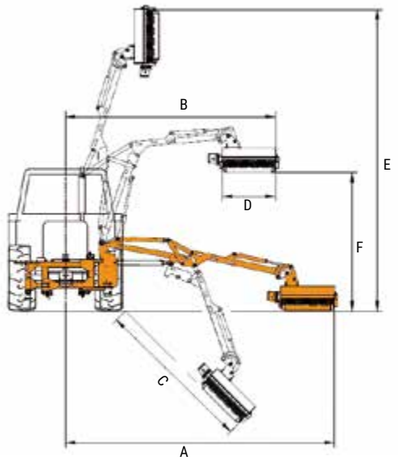
Mounting plate
- suitable for extension arms KWT / CAMEL
- adaptation to other mounting plates and multifunctional carriers possible



Sliding skid
- solid and large dimensioned skid guarantees a constant working height
- mechanically adjustable

Milling disc
- equipped with 8mm thick cutting elements made of wear-resistant steel - guarantee a high quality cut
- bolted and replaceable
- additional ejector bars support the ejection process
- speed of 460 rpm ensures a first-class work result

TECHNICAL DATA	OR 080(L)	
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	3 045
Weight [kg / lbs]	225	495
Arm type	KWT	



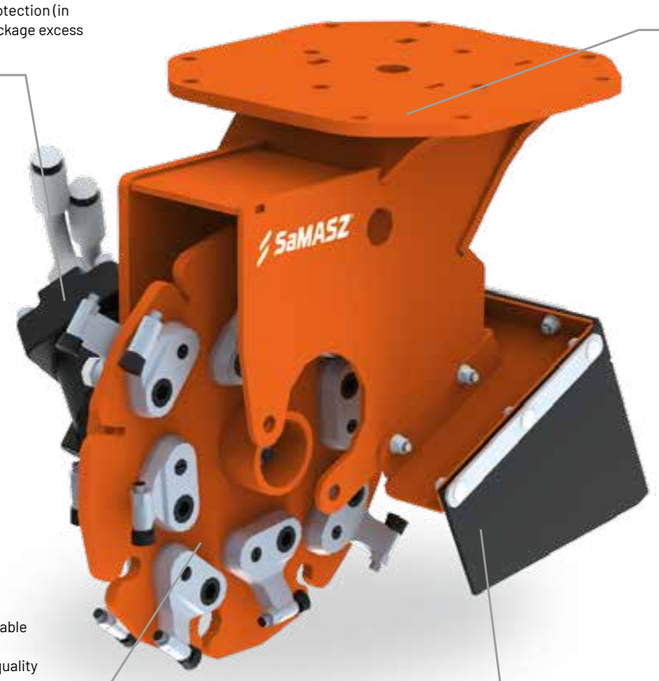
	Working reach of extension arms with OR 080 [cm]:					
	A	B	C	D	E	F
KOLIBER 450	mounting impossible					
KWT 550	515	340	260	80	-	-
KWT 650	600	340	380	80	-	-
KWT 651	590	290	330	80	-	-
CAMEL 900	820	570	540	80	-	-

FP 20

STUMP GRINDER

Hydraulic drive
- direct drive of the cutting wheel
- additional overload protection (in the event of wheel blockage excess oil returns to oil tank)

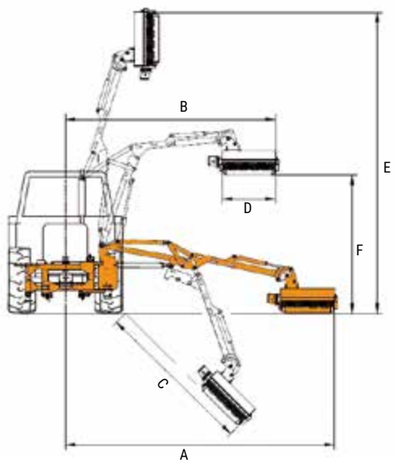
Mounting plate
- enables quick attachment with extension arms KWT / CAMEL



Cutting wheel
- made of wear-resistant steel
- bolted pockets and exchangeable teeth (16 pieces)
- 16 angled pockets with high-quality carbide teeth

Protective shield
- keeps offcuts from spreading

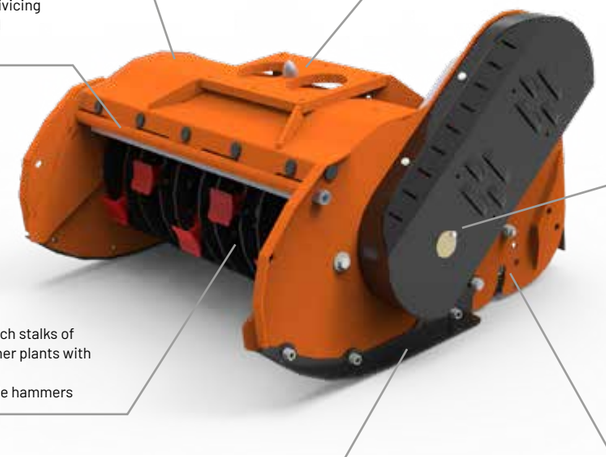
		FP 20	
TECHNICAL DATA	Working width [m / ft]	0,4	1'4"
	Number of blades [pcs]	16	
	Oil pump efficiency [l/min / GPM]	90 - 100	23 - 26
	Hydraulic pressure [bar / PSI]	210	3 045
	Weight [kg / lbs]	90	200
	Arm type	KWT	



	Working reach of extension arms with FP 20 [cm]:					
	A	B	C	D	E	F
KOLIBER 450	mounting impossible					
KWT 550	515	340	350	40	515	-
KWT 650	600	340	470	40	600	-
KWT 651	590	290	420	40	590	-
CAMEL 900	820	570	630	40	820	-

GFK 080

GRINDING HEAD



Body
- made of steel resistant to tear and impact
- extends machine
- additional, replaceable inner mantle

Mounting plate base
- located at the centre of gravity of the head
- guide pin for easy mounting with the extension arm

Front inspection flap
- easier maintenance and serivicing
- manual opening as standard
- hydraulic opening as option

Belt drive
- drive transmission through 1 timing belt
- automatic tensioning
- low-noise operation
- additional protection

Flail shaft
- new type of shaft designed to mulch stalks of bushes, small trees, reeds and other plants with hard stems
- 15 strong, movable and replaceable hammers

Ground following bar
- improves stability during work
- working height adjustment
- horizontally adjustable
- self-cleaning feature

Hardened sliding skids
- protect the machine during drives over obstacles
- extend machine life

		GFK 080	
TECHNICAL DATA	Working width [m / ft]	0,80	2'6"
	Transport width [m / ft]	1,05	3'4"
	Height [m / ft]	0,60	1'9"
	Length [m / ft]	0,90	2'9"
	Flail shaft diameter [cm / ft]	37	1'2"
	Ground following bar diameter [cm / ft]	133	4'3"
	Number of knives [pcs]	15	
	Number of replaceable counter-knives [pcs]	1 row / 2 pcs	
	Oil pump efficiency [l/min / GPM]	90 - 100	23 - 26

		GFK 080
OPTIONAL EQUIPMENT	Hydraulic opening of the inspection flap	+

MUNICIPAL EQUIPMENT

MOP

SWEEPER

		MOP 120		MOP 140		MOP 160		MOP 200	
TECHNICAL DATA	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 / mph]	up to 10				up to 7			
	Container capacity [L / US gal]	70	18	90	23	130	34	170	44
	Lenght [cm / ft]	180				5'11"			
	Transport width [cm / ft]	145	4'9"	165	5'5"	185	6'1"	225	7'5"
	Height [cm / ft]	110				3'7"			
	Weight [kg / lbs]	260	570	275	605	290	640	320	705

		MOP 120	MOP 140	MOP 160	MOP 200
OPTIONAL EQUIPMENT	Valve eliminating additional pair of hydraulic couplers	+			
	Pressure limiter (for backhoe and telescopic loaders)	+			
	Side brush (including extended hitch to version with side brush)	+			
	Water spraying system, (Water pump 12V)	+			
	Third support wheel	+			
	Third support wheel + ground following	+			
	Frame on request (unusual mounting) third support wheel + ground following	+			
	Hydraulic working angle adjustment	+			

LIST OF MOUNTING FRAMES

FISHER - TYPE I

202.04.00.000

Cat. II 3-point mounting frame

202.10.00.030

EURO mounting frame

202.11.00.000

SMS mounting frame

202.12.00.000

For self - mounting on the frame

202.13.00.000

Mounting plate for individual setup

202.14.00.000

Cat I 3-point mounting frame

202.15.00.000

Cat. I/II 3-point mounting frame with loose holders

202.24.00.000

Cat. I / II 3-point mounting frame

202.33.00.000

Municipal cat. mounting frame

202.36.00.000

Municipal cat. triangular mounting frame - quick coupling

202.37.00.000

Triangular cat. I 3-point mounting frame - quick coupling

202.49.00.000

MULTICAR mounting frame

202.50.00.000

Cat. 0 3-point Kuppeldreieck triangular mounting frame

202.61.00.000

MERLO ZM-2 mounting frame

FISHER - TYPE II

202.16.00.000

CAT 444E mounting frame

202.17.00.000

CAT 428 C (D)(E) mounting frame

202.18.00.000

JCB 4CX / 3CX mounting frame

202.19.00.000

Warynski Hidromex 102B mounting frame

202.20.00.000

KRAMER Allrad mounting frame

202.21.00.000

Liebherr L506 - 510 mounting frame

202.22.00.000

Liebherr L528 / L514 mounting frame

202.23.00.000

Manitou mounting frame

202.26.00.000

Volvo L20-L25 mounting frame

202.27.00.000

Volvo L30-L35 mounting frame

202.28.00.000

Volvo ST-MB mounting frame

202.29.00.000

JCB 2CX mounting frame

202.31.00.000

Atlas E-Series mounting frame

202.32.00.000

JCB Q-Fit mounting frame

202.34.00.000

JCB 4CX, 3CX Quick coupling mounting frame

202.35.00.000

TUR Agram 46 Joskin mounting frame

202.39.00.000

T-426 SIPMA mounting frame

202.40.00.000

CAT 908-906 mounting frame

202.41.00.000

MERLO backhoe loaders 35.13 EVS ZM2 - quick coupling mounting frame

202.42.00.000

CLAAS Scorpion mounting frame

202.43.00.000

Weidemann CX 80 mounting frame

202.44.00.000

CASE 221 mounting frame

202.45.00.000

JCB 403 / 406 / 409 mounting frame

202.46.00.000

New Holland W50 BTC mounting frame

202.47.00.000

CAT 297C mounting frame

202.48.00.000

CAT 422E 424D mounting frame

202.51.00.000

Terex TL 80 mounting frame

202.52.00.000

New Holland W170B mounting frame

202.53.00.000

Bobcat AL275 mounting frame

202.54.00.000

Cat. II 3-point mounting frame

202.54.00.010

Cat. II 3-point mounting frame
with offset holders

202.58.00.000

Komatsu WB 93S
mounting frame

202.59.00.000

CAT 906H, 907H, 908H
mounting frame

202.60.00.000

Terex-TL 65
mounting frame

202.63.00.000

O&K 10.5
mounting frame

202.64.00.000

New Holland B110 BTC
mounting frame

202.65.00.000

Liebherr L509
mounting frame

202.66.00.000

EO 2626 Pinsk
mounting frame

202.67.00.000

Schaffer
mounting frame

202.68.00.000

Giant
mounting frame

202.72.00.000

CAT 432F Quick change
mounting frame

202.74.00.000

Bobcat T2556
mounting frame

202.75.00.000

TUR FAUCHEUX F200
mounting frame

202.76.00.000

Volvo L40B
mounting frame

202.78.00.000

JCB 541-70
mounting frame

202.80.00.000

CAT 428F
mounting frame

202.81.00.000

Komatsu WB 93R-5. WB97S-5
mounting frame

202.86.00.000

Cat. I 3-point (narrow)
mounting frame

202.87.00.000

Cat. II and III 3-point mounting frame

202.91.00.000

DIN EN 15432 F1 F2 mounting frame

202.92.00.000

Dieci mini agri 25.6 mounting frame

202.93.00.000

Dieci ET Crono 40.7
mounting frame

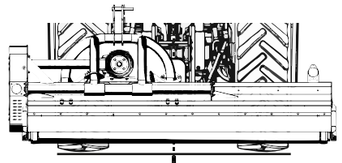
203.12.00.020

Multihog MX
mounting frame

203.13.00.020

MKDU RU
mounting frame

The position of the machine in relation to the center of the tractor [mm / in]



MODEL	distance from tractor centre to the left (mm)	distance from tractor centre to the right (mm)
PIKO 130	669 [26″]	913 [36″]
PIKO 130 H	829 [32″] 509 [20″]	753 [29″] 1073 [42″]
PIKO 150	719 [28″]	1063 [42″]
PIKO 150 H	879 [34″] 559 [22″]	903 [35″] 1223 [48″]
MIDO 180	838 [33″] 1038 [40″] 638 [25″]	1241 [49″] 1041 [41″] 1441 [57″]
MIDO 200	838 [33″] 1038 [40″] 638 [25″]	1441 [57″] 1241 [49″] 1641 [65″]
MIDO 220	838 [33″] 1038 [40″] 638 [25″]	1641 [65″] 1441 [57″] 1841 [72″]
GRINO 160	817 [32″] 1017 [40″] 617 [24″]	1044 [41″] 844 [33″] 1244 [49″]
GRINO 180	916 [36″] 1166 [46″] 666 [26″]	1144 [45″] 894 [35″] 1394 [55″]
GRINO 200	917 [36″] 1167 [46″] 667 [46″]	1344 [53″] 1094 [43″] 1594 [63″]
GRINO 220	917 [36″] 1167 [46″] 667 [46″]	1544 [61″] 1294 [51″] 1794 [70″]
MAMUT 250	1184 [47″] 1434 [56″] 934 [37″]	1513 [59″] 1263 [49″] 1763 [69″]
MAMUT 280	1404 [55″] 1654 [65″] 1154 [45″]	1593 [63″] 1343 [53″] 1843 [72″]
MAMUT 300	1504 [59″] 1754 [69″] 1254 [49″]	1683 [66″] 1433 [56″] 1933 [76″]

1) machine position behind a tractor with central hitch position
2) machine position behind a tractor at. max left side shift (hitch with side-shift required)
3) machine position behind a tractor at. max right side shift (hitch with side-shift required)

NOTES

SaMASZ Sp. z o.o.
Trawiasta St. 1
16-060 Zabludow, Poland
tel.: + 48 85 664 70 31
e-mail: export@samasz.com

Visit us on social media:

www.samasz.com

FKAT-BIJ-008

Your dealer:

10 / 2025