



For professionals



FLAIL MOWERS

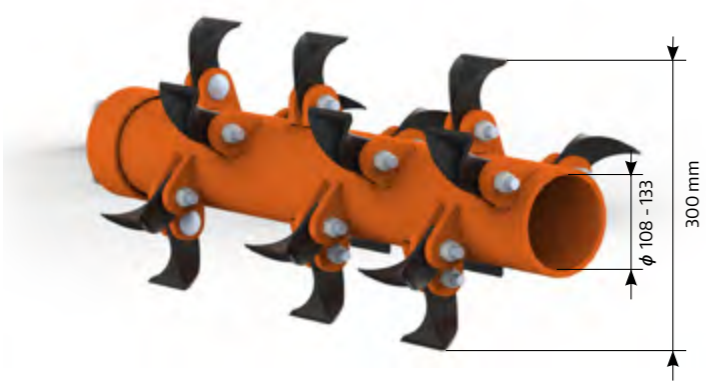
REAR, FRONT
EXTENSION ARMS AND ATTACHMENTS



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GENERAL CHARACTERISTICS OF FLAIL SHAFTS



LIGHT CLASS

(PIKO, KBR-L, LAMA)

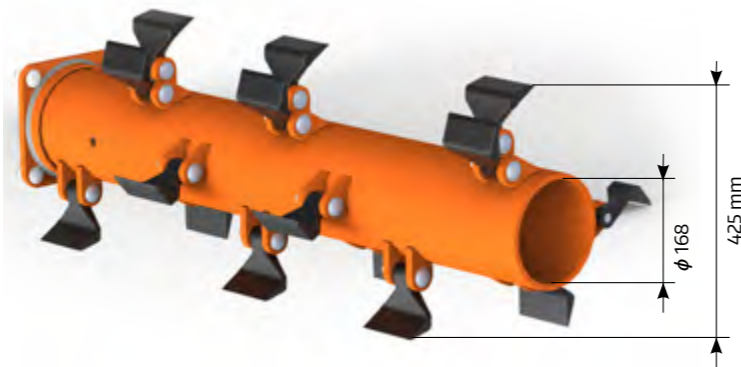
- 1. Flail shaft - ϕ 108 mm (4 1/4"), wall thickness 6,3 mm / 1/5"
- 2. Cutting shrubs (up to 3.5 cm - 1 2/5" thick depending on knife type).
- 3. Ground following bar - ϕ 108 mm or 133 mm (4 1/4" or 5 1/4").



MIDDLE CLASS

(MIDO, GRINO, KANGU, KW, KBR)

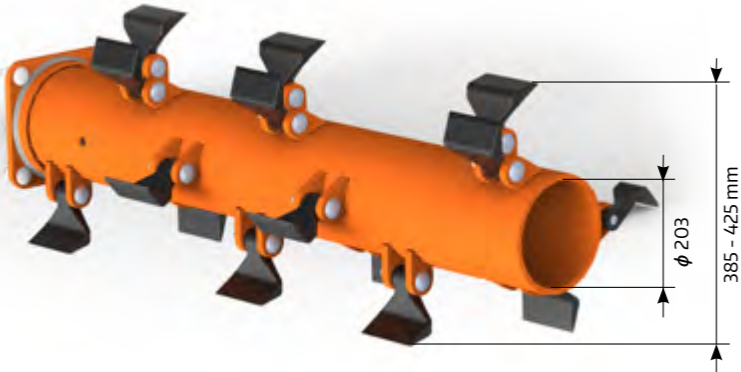
- 1. Flail shaft :
 - Grino - ϕ 168 mm (6,3/5"),
 - Mido, Kangu, KW, KBR - ϕ 133 mm (5 1/5"),wall thickness:
 - Grino, KW, KBR - 8,8 mm / 2/5"
 - Mido, Kangu - 10 mm / 2/5"
- 2. Cutting shrubs and bushes (up to ϕ 6 cm / 2 2/5" thick depending on knife type).
- 3. Ground following bar - ϕ 133 mm or 168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



HEAVY CLASS

(KBRP)

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



SUPER HEAVY CLASS

(MAMUT)

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

FLAIL KNIVES



~ 1,2 kg
(2,65 lbs)

KNIFE TYPE I

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



~ 0,6 kg
(1,3 lbs)

KNIFE TYPE II

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



~ 1,0 kg
(2,2 lbs)

KNIFE TYPE III

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



~ 1,0 kg
(2,2 lbs)

KNIFE TYPE IV

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



~ 0,6 kg
(1,3 lbs)

KNIFE TYPE V

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



~ 1,4 kg
(3,1 lbs)

KNIFE TYPE VI

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



~ 0,2 kg
(0,45 lbs)

KNIFE TYPE VII

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



~ 0,3 kg
(0,65 lbs)

KNIFE TYPE VIII

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



~ 0,3 kg
(0,65 lbs)

KNIFE TYPE IX

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



~ 0,3 kg
(0,65 lbs)

KNIFE TYPE X

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



~ 0,2 kg
(0,45 lbs)

KNIFE TYPE XI

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



~ 0,3 kg
(0,65 lbs)

KNIFE TYPE XII

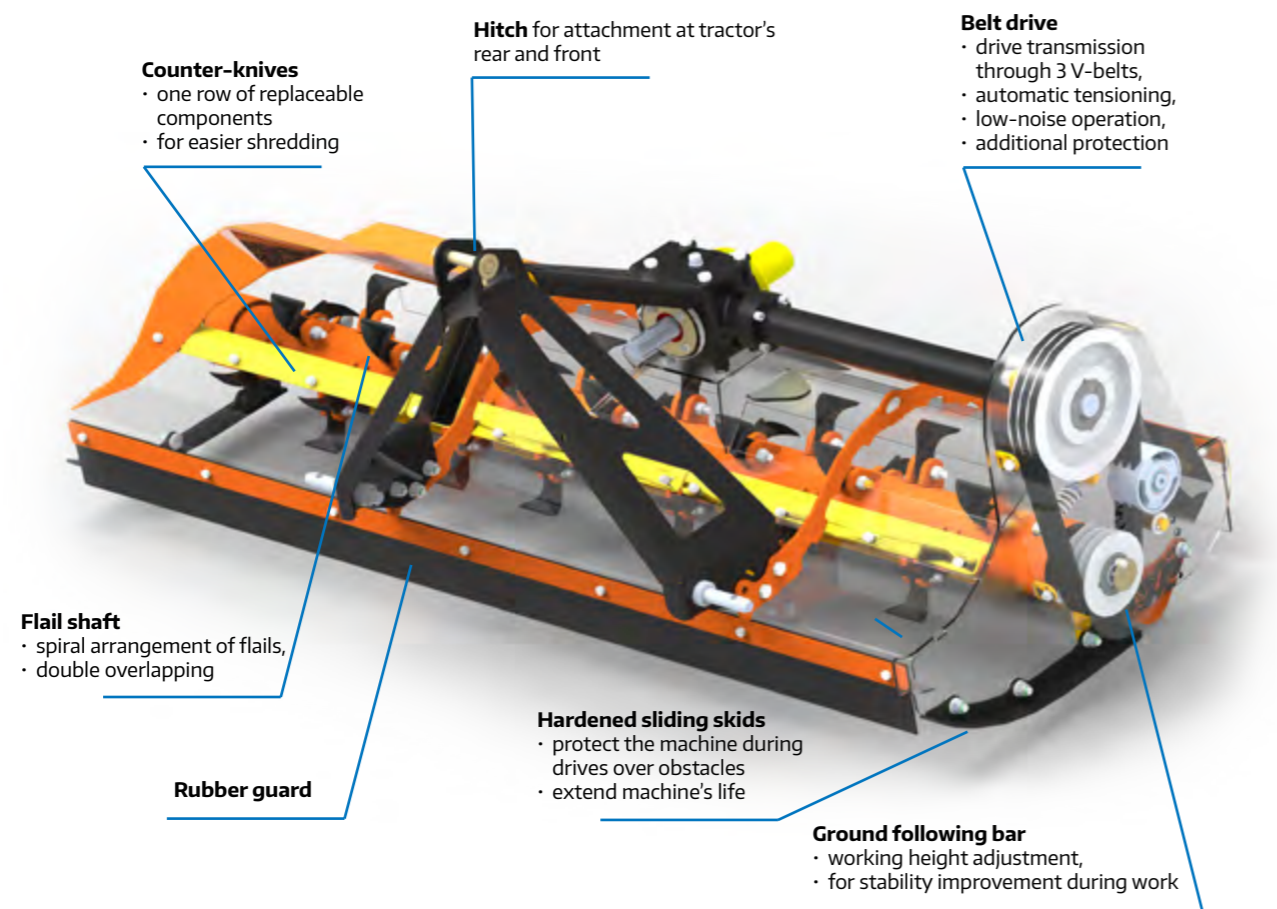
Max. diameter of branches to be cut:
 ϕ 15 mm (0,6"),
Width: 75 mm, Length: 122 mm.

Flail knife types

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

* only in mowing head LAMA 121 HD

ADVANTAGES OF PIKO FLAIL MOWERS



OTHER ADVANTAGES OF PIKO FLAIL MOWERS

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

OPTIONAL EQUIPMENT

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



Flail knife:



TYPE VIII



TYPE X



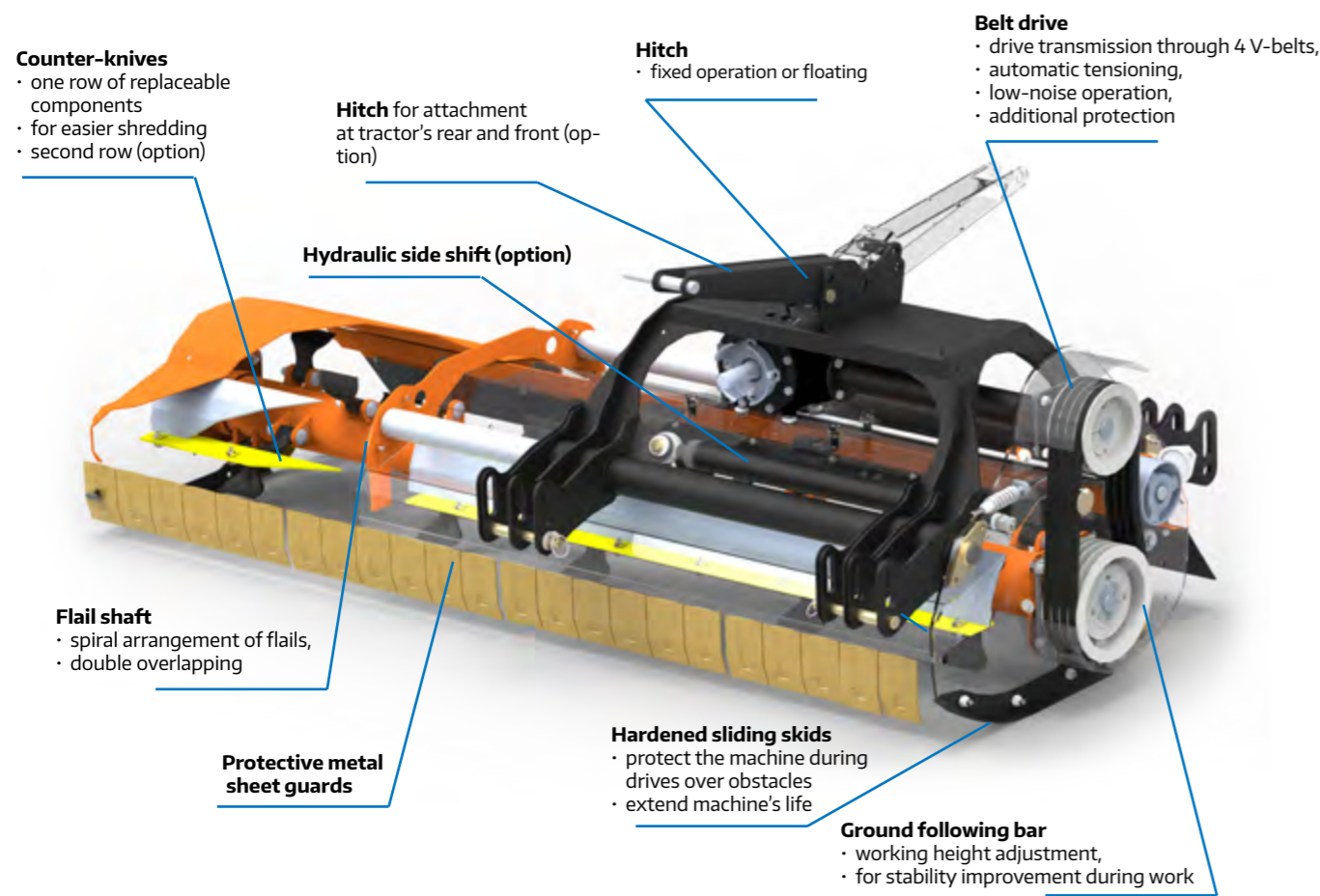
REAR - FRONT FLAIL MOWERS
PIKO - light class



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

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

ADVANTAGES OF MIDO FLAIL MOWERS



OTHER ADVANTAGES OF MIDO

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



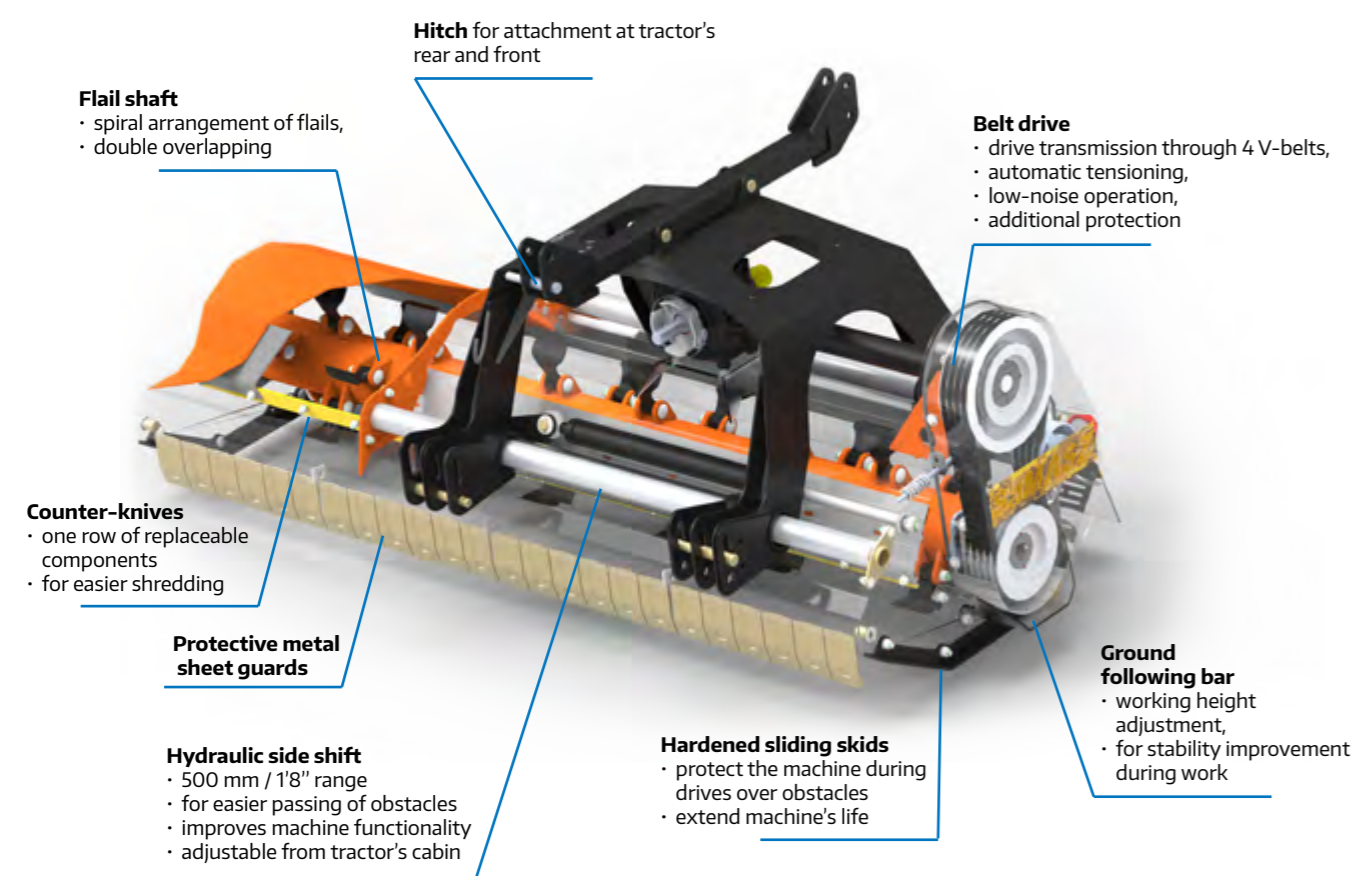
REAR - FRONT FLAIL MOWERS
MIDO - middle class



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

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

ADVANTAGES OF GRINO FLAIL MOWERS



REAR - FRONT FLAIL MOWERS
GRINO - middle class

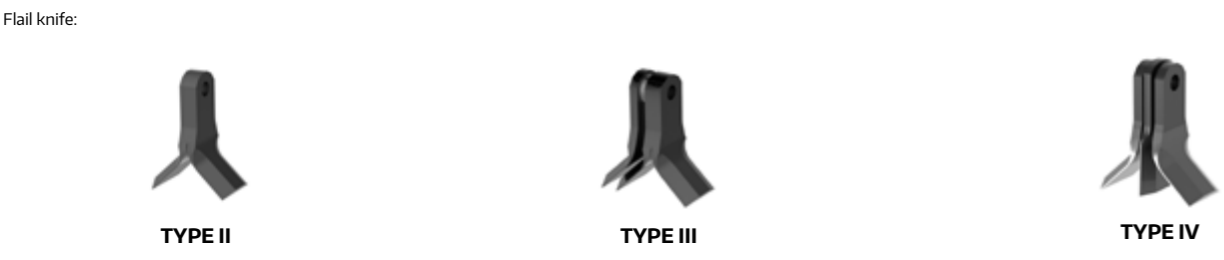


Standard equipment:
Overrunning clutch integrated in gearbox · Mowing height adjustment with ground following bar · Hardened sliding skids · Adjustable support legs · Protective metal sheet guards · Replaceable counter-knives · PTO shaft · Automatic tensioning of V-belts

OTHER ADVANTAGES OF GRINO FLAIL MOWERS

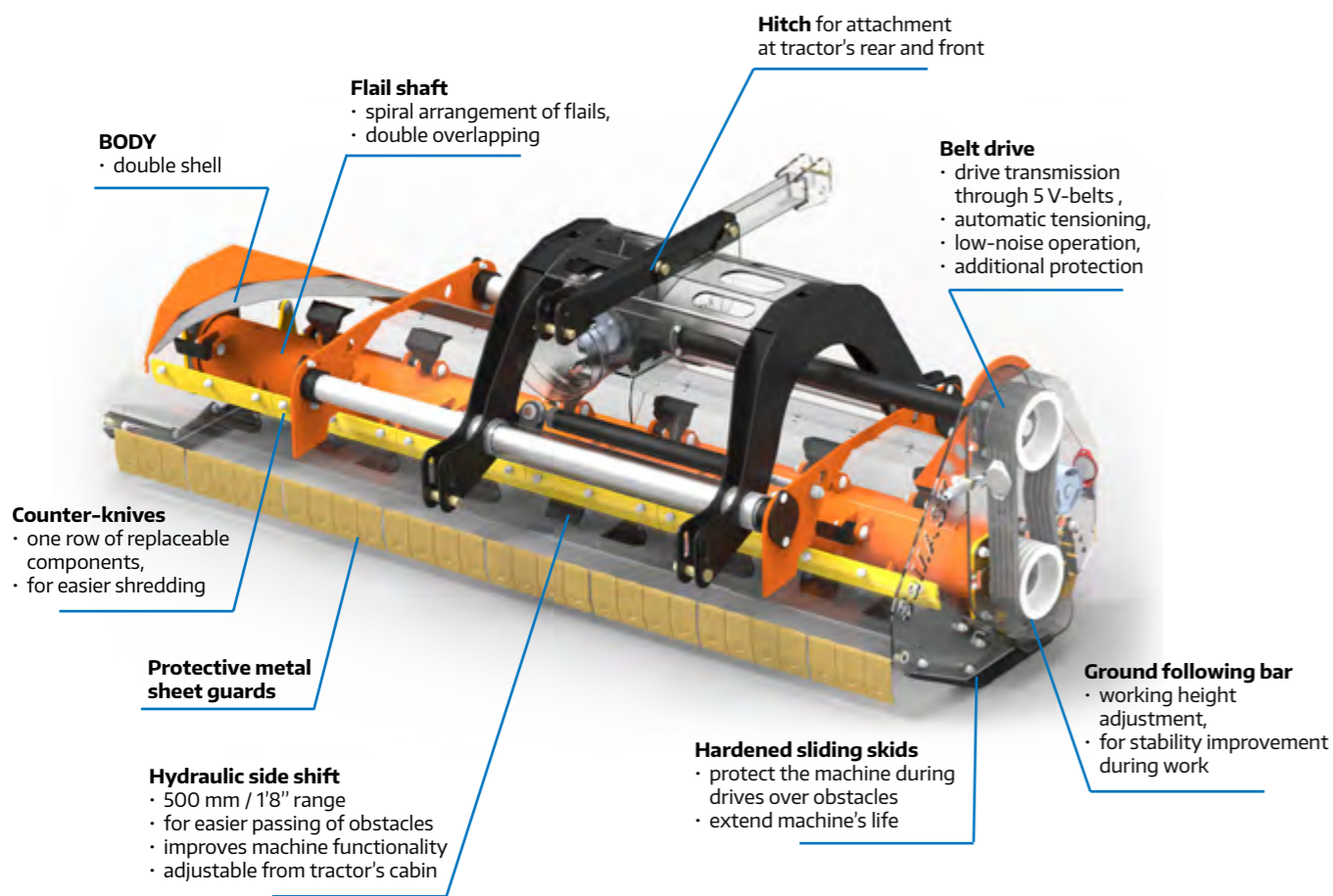
Design	<ul style="list-style-type: none">- double sided hitch for attachment at tractor's front or rear- high durability owing to use of high grade steel- metal sheet for housing reinforcement- cat. I/II hitch with floating function- gearbox with integrated clutch
Ground following bar	<ul style="list-style-type: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

OPTIONAL EQUIPMENT



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

ADVANTAGES OF MAMUT FLAIL MOWERS



OTHER ADVANTAGES OF MAMUT

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

OPTIONAL EQUIPMENT

Flail knife:



TYPE III



TYPE IV



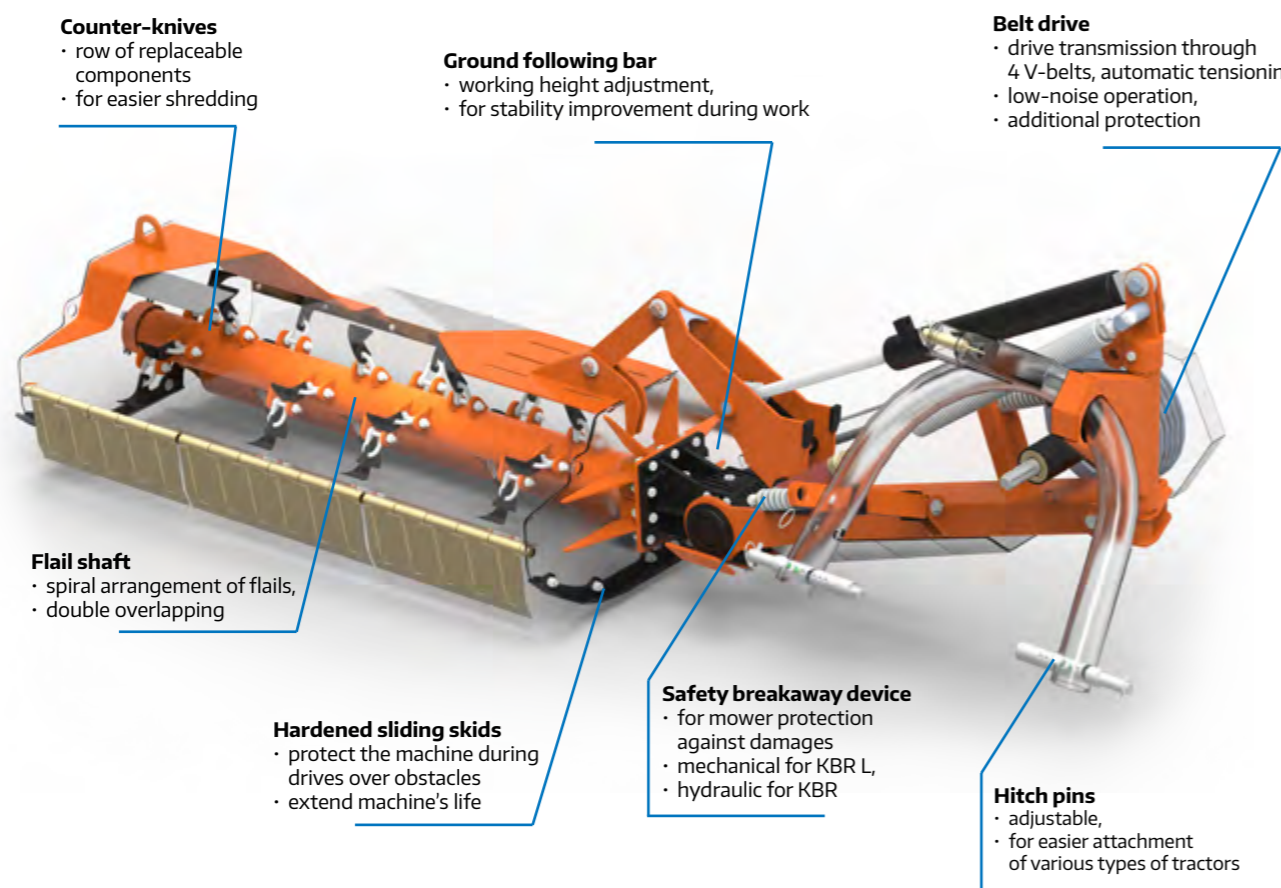
REAR FLAIL MOWERS
MAMUT- super heavy class



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

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

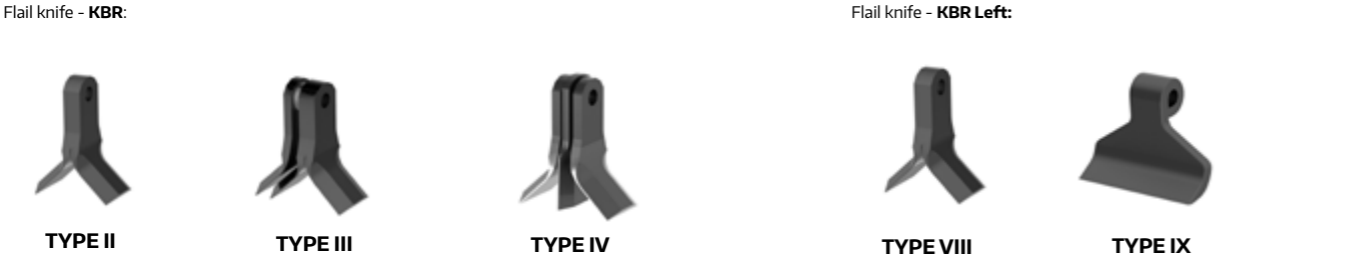
ADVANTAGES OF **KBR L** / **KBR** FLAIL MOWERS



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

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

OPTIONAL EQUIPMENT



REAR FLAIL MOWERS

KBR L - light class

KBR - middle class

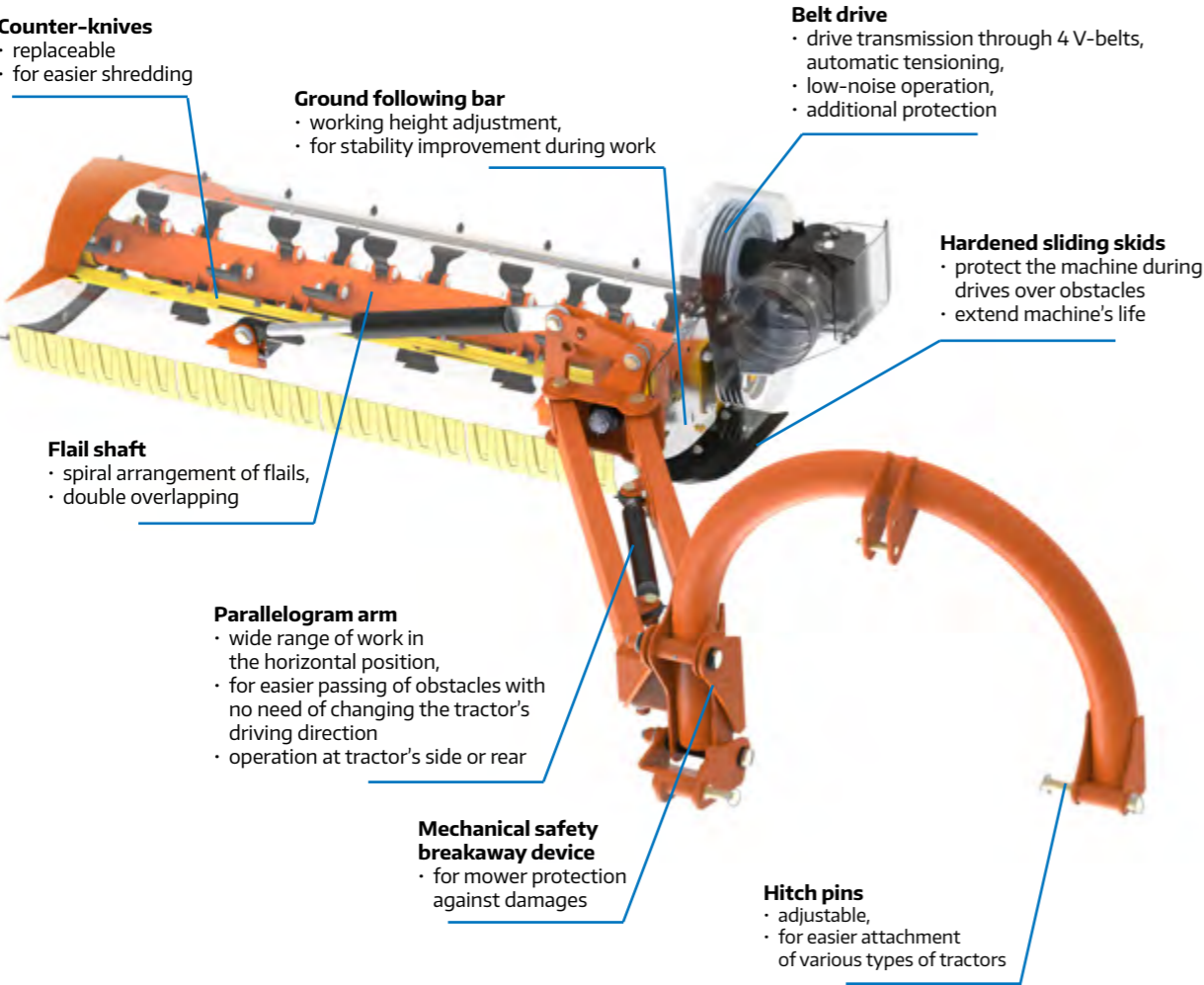
Standard equipment KBR L:
Hydraulic cylinder · Mechanical safety breakaway device · Mowing height adjustment with ground following bar · Rear rubber guard · Adjustable hitch pins · Front protective metal sheet guards · Adjustable support leg · PTO shaft · Automatic tensioning of V-belts

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



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

ADVANTAGES OF KANGU / KBRP FLAIL MOWERS



OTHER ADVANTAGES OF KANGU / KBRP FLAIL MOWERS

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

OPTIONAL EQUIPMENT

FLAIL KNIFE - KANGU / KBRP:



TYPE II



TYPE III



TYPE IV



FLAIL MOWERS REAR SIDE
KANGU - middle class
KBRP - heavy class



KNIFE TYPE I
Standard flail knife KBRP

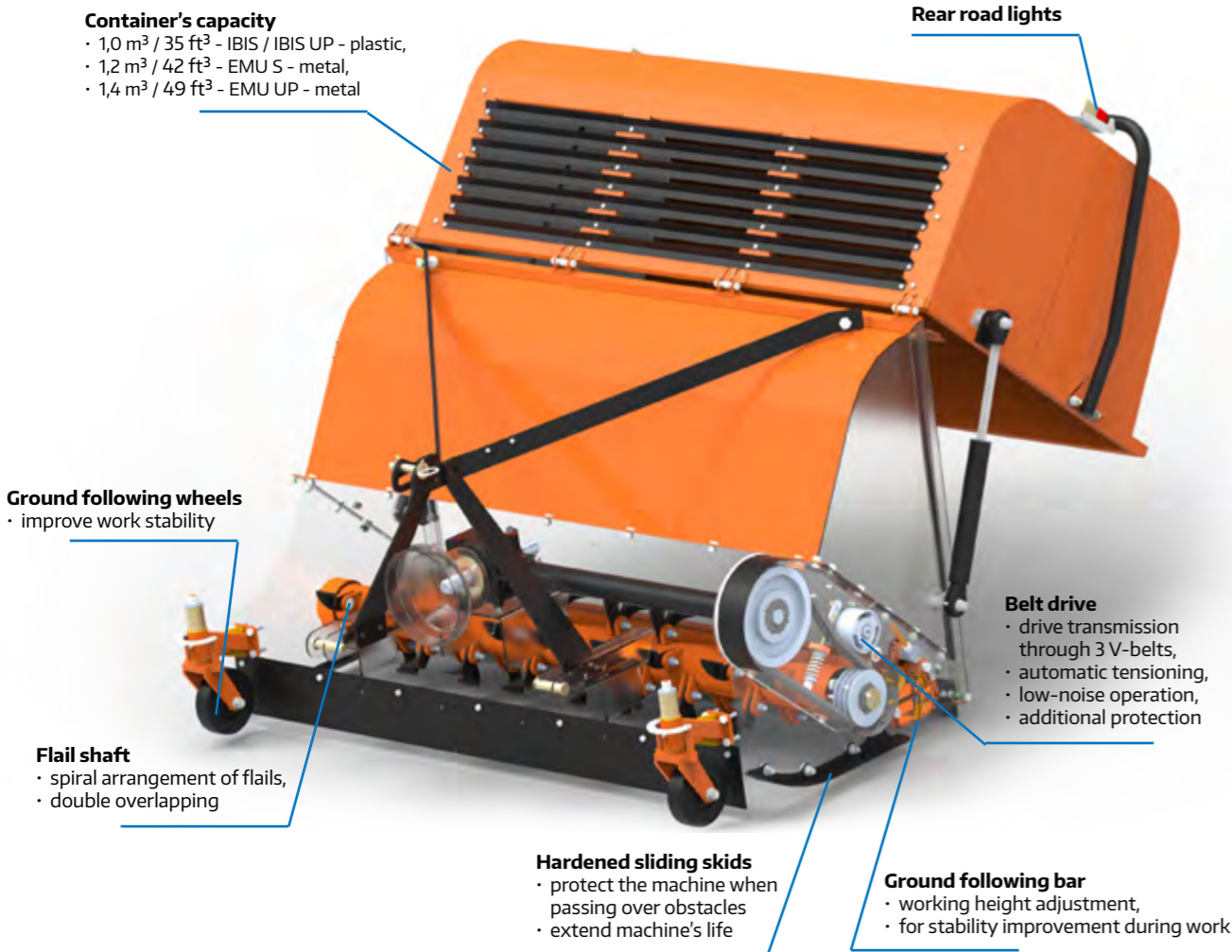


~ 1,2 kg
(2,65 lbs)
~ 0,6 kg
(1,3 lbs)
KNIFE TYPE V
Standard flail knife KANGU

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

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

ADVANTAGES OF IBIS / EMU FLAIL MOWERS



OTHER ADVANTAGES OF EMU / IBIS FLAIL MOWERS

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

OPTIONAL EQUIPMENT

Flail knife- IBIS:



TYPE IX



TYPE XI



TYPE XII



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



KNIFE TYPE VII
Standard flail knife IBIS

~ 0,2 kg
(0,45 lbs)



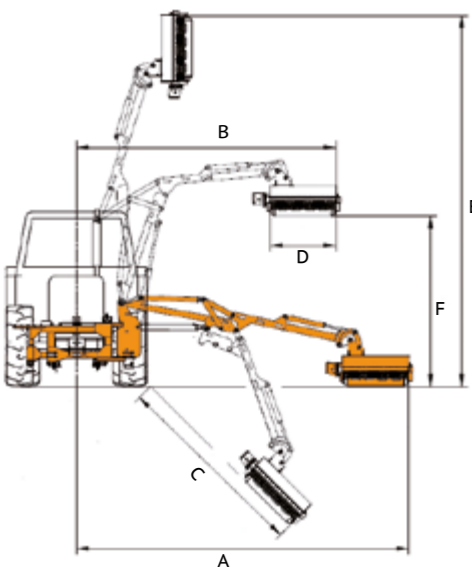
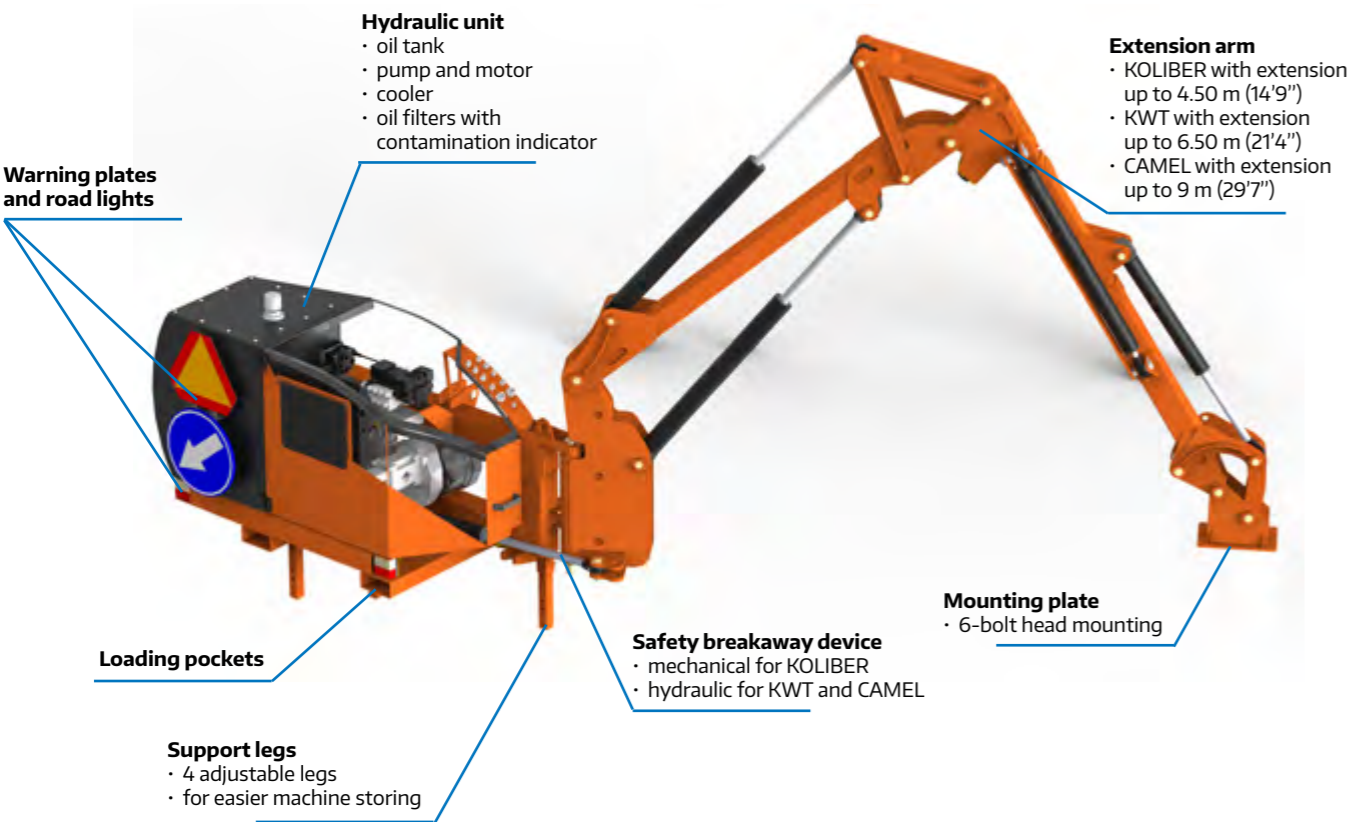
KNIFE TYPE I
Standard flail knife EMU

~ 1,2 kg
(2,65 lbs)

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

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

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



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

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

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



REAR EXTENSION ARMS

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

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

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



Standard equipment:

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

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

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

ADVANTAGES OF **KWT 651** EXTENSION ARM

Warning Plates and Road Lights

Hydraulic unit

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

Extension arm

- rear mount with front-side feature

Mounting plate

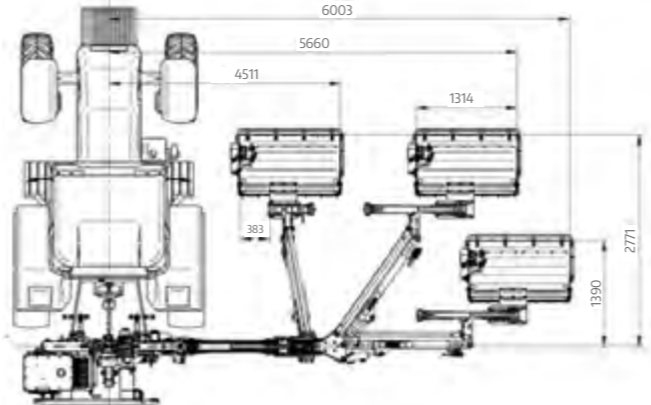
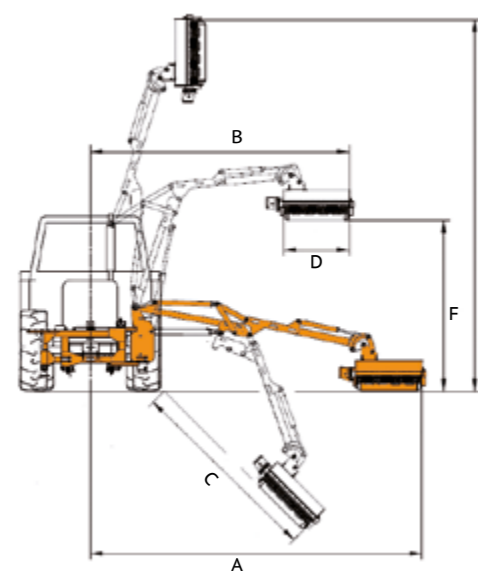
- 6-bolt head mounting

Loading pockets

Support legs

- 4 adjustable legs
- for easier machine storing

Hydraulic safety breakaway device



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

OTHER ADVANTAGES OF **KWT 651** EXTENSION ARM

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



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



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

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

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

EXTENSION ARM ATTACHMENTS

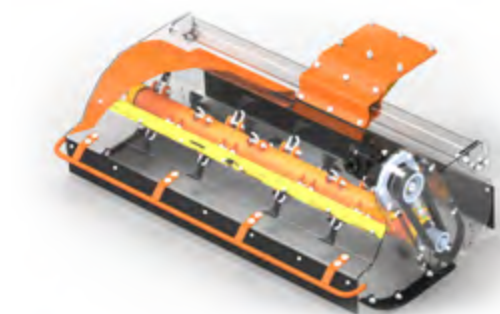
LIGHT WEIGHT MOWING HEAD LAMA 120 / 140



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

LIGHT WEIGHT MOWING HEAD LAMA 121 / 141

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



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

LIGHT WEIGHT MOWING HEAD LAMA 101 P

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



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

LIGHT WEIGHT MOWING HEAD LAMA 121 HD

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



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

MOWING HEAD KW 110 / 125 / 140 - HEAVY WEIGHT



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

MOWING HEAD KW 141 - HEAVY WEIGHT

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



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

EXTENSION ARM ATTACHMENTS

ADDITIONAL ATTACHMENTS

SWIVEL MOUNT - MECHANICAL

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



SWIVEL MOUNT - HYDRAULIC

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



MOUNT EXTENSION

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



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



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

* Free flow required

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



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

* for FISHER carrier

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



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

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

EXTENSION ARM ATTACHMENTS

STUMP GRINDER FP 20



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

ROAD SIGN WASHER ROLLER 1000



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

ROAD SHOULDER GRINDER RP 110



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

TANK 1000



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

DITCH CLEANER OR 080



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

MOP



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

Selected SaMASZ machines



flail mowers



disc mowers



drum mowers



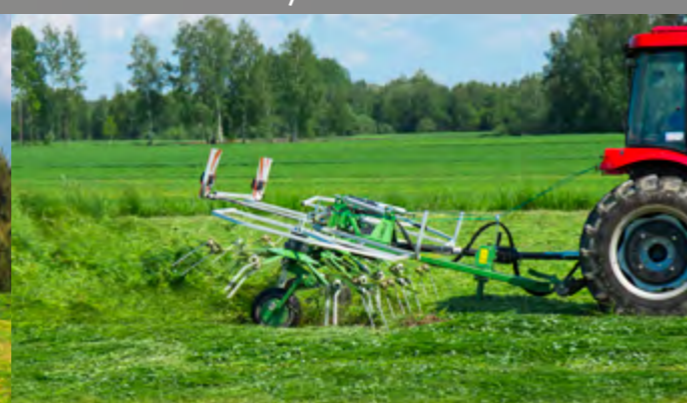
snow plows



rotary rakes and tedders



tractor gritters and sweepers





Your dealer:

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

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

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

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

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