

Flail - and Rotary Toppers
Flail Mowers
Multi Mowers
Verge Mowers
Solo-Swing



Symbol of Perfection





FLAIL TOPPERS / MOWERS

Compact Flail Topper • Series KP

Our KP Series Flail Toppers are specially designed for topping pastures, green spaces, parks, camping sites, orchards, vineyards etc.

Their compact but very strong construction allows these machines to work with tractors from 18 kW (25 HP).

All "Perfect" Flail Toppers are equipped with a full width self cleaning rear roller, placed close to the flail rotor for optimal terrain adjustment and to prevent unwanted ground contact thus unnecessary wear of the flails.



Also available with hydraulic offset feature or as front mounted model with a 540 or 1000 rpm gearbox that accepts either clockwise or anti-clockwise rotation.

Specifications		KP-150	KP-180	KP-210	KP-240
Cutting width	cm / ft	150 / 4'11"	180 / 5'11"	210 / 6'11"	240 / 7'11"
PTO speed	rpm	540	540	540	540
Flail rotor speed	rpm	2100	2100	2100	2100
*Power requirements, min.	kW / hp	18 / 25	21 / 28	25 / 34	30 / 41
Flails 0,8 kg = 1 3/4 lb each	qty	16	18	22	24
Total width	cm / ft	170 / 5'7"	200 / 6'7"	230 / 7'7"	260 / 8'7"
Tractor 3 pt. linkage	cat.	I + II	I + II	I + II	I + II
Weight	kg / lbs	425 / 935	465 / 1025	530 / 1165	605 / 1330
Offset from tractor centreline:					
Fixed linkage (standard)	cm / ft	80 / 2'8"	110 / 3'7"	140 / 4'7"	154 / 5'1"
Hydraulic Side-Shift (optional):					
- minimum	cm / ft	55 / 1'10"	85 / 2'10"	115 / 3'9"	130 / 4'3"
- maximum	cm / ft	105 / 3'6"	135 / 4'5"	165 / 5'5"	180 / 5'11"

*Power requirements depend entirely on the type of work.

The cutting height is adjustable from 1 1/2 to 8 1/2 cm (1/2" to 3 1/2").

A PTO shaft with overload protection must be used in case of oversized tractors



Flail Topper • Series KC

KC Series Flail Toppers are particularly suitable for heavier topping, on rough and very overgrown land, roadsides, fallow land etc.

An easily adjustable rear hood is standard. Its different positions vary the degree of debris mulching against the comb section counter knives.

The electronically balanced vibration-free flail rotor is driven through a gearbox with spiral toothed gears and V-belts with spring loaded automatic belt tensioner. This indirect flexible drive ensures maximum security and requires minimum maintenance.



V-belt drive with automatic belt tensioner

Specifications		KC-200	KC-220	KC-245	KC-270
Cutting width	cm / ft	200 / 6'7"	220 / 7'3"	245 / 8'1"	270 / 8'10"
PTO speed	rpm	540	540	540	540
Flail rotor speed	rpm	2100	2100	2100	1915
*Power requirements, minimal	kW / hp	28 / 38	30 / 40	33 / 45	40 / 55
Flails 0,8 kg = 1 3/4 lb each	qty	20	24	24	28
Total width	cm / ft	227 / 7'5"	247 / 8'1"	272 / 8'11"	297 / 9'9"
Tractor 3 pt. linkage	cat.	II	II	II	II
Weight	kg / lbs	650 / 1435	710 / 1565	785 / 1730	870 / 1920
Offset from tractor centreline:					
Fixed linkage (standard)	cm / ft	98 / 3'3"	118 / 3'11"	143 / 4'8"	168 / 5'6"
Manual or Hydr. Side-Shift (optional):					
- minimum	cm / ft	69 / 2'3"	89 / 2'11"	114 / 3'9"	139 / 4'7"
- maximum	cm / ft	131 / 4'4"	151 / 5'0"	176 / 5'9"	201 / 6'7"

*Power requirements depend entirely on the type of work.

The cutting height is adjustable from 4 to 10 cm (1/2" - 4").

A PTO shaft with overload protection must be used in case of oversized tractors

FLAIL TOPPERS / MOWERS



Heavy-Duty Flail Topper • Series KT

The “Perfect” KT Heavy-Duty Flail Toppers have a more spacious and heavier body to deal with longer and/or more dense vegetation in fallow land and set-aside land, for cornstalks etc.

Other features of the heavy-duty KT version in comparison with the standard KC model are:

- heavier gearbox - 1000 rpm
- additional V-belt
- larger diameter flail rotor
- larger diameter rear roller
- heavy-duty flail option

KT Heavy-Duty Flail Toppers are intended for the professional customer who needs a versatile and reliable implement that provides an excellent performance, even under heavier conditions, at very low maintenance costs.



KT front mount

Specifications		KT-245	KT-270	KT-300	KT-320
Cutting width	cm / ft	245 / 8'1"	270 / 8'10"	300 / 9'10"	320 / 10'6"
PTO speed	rpm	1000	1000	1000	1000
Flail rotor speed	rpm	2100	2100	2100	2100
*Power requirements, minimal	kW / hp	40 / 55	48 / 65	55 / 75	62 / 85
Flails:					
- standard: 0,8 kg = 1¾ lb each	qty	24	28	32	32
- optional: 2,2 kg = 5 lb. each	qty	16	16	18	20
Total width	cm / ft	272 / 8'11"	297 / 9'9"	327 / 10'9"	347 / 11'5"
Tractor 3 pt. linkage	cat.	II	II	II	II
Weight	kg / lbs	900 / 1980	970 / 2135	1030 / 2265	1095 / 2415
Offset from tractor centreline:					
Fixed linkage (standard)	cm / ft	143 / 4'8"	168 / 5'6"	150 / 4'11"	160 / 5'3"
Manual or Hydr. Side-Shift (optional):					
- minimum	cm / ft	115 / 3'9"	140 / 4'7"	122 / 4'0"	132 / 4'4"
- maximum	cm / ft	172 / 5'8"	197 / 6'6"	180 / 5'11"	190 / 6'3"

*Power requirements depend entirely on the type of work.

The cutting height is adjustable from 4 to 10 cm (1½" to 4").

A PTO shaft with overload protection must be used in case of oversized tractors

Optional Extras

Offset

Instead of the standard fixed headstock our Flail Toppers are also available with a parallelogram that allows for 64 cm = 25" manual or hydraulic offset adjustment. *Optional on series KC and KT*



Wheels

For certain applications the standard full width rear roller can be replaced by 2, 3 or 4 wheels 6.00 x 9 with pneumatic tyres. *Optional on series KC and KT*



Front Linkage

The unique cantilever design of the parallelogram-type headstock enables the front mounted version of our “Perfect” Toppers to be pulled rather than pushed. This protects the machine and provides a full floatation effect. By reversing the headstock the front mounted models can also be used as rear mounted machines. Manual offset is standard; hydraulic offset optional extra. Both 540 and 1000 rpm of tractor pto can be accommodated in clockwise as well as anti-clockwise rotations. *Optional on series KC and KT*





FLAIL TOPPERS / MOWERS

Front / Rear Mounted Flail Topper • Series KM

Based on our KT Heavy-Duty Flail Toppers the KM-Series are fitted with a universal headstock that fits both the tractor front and rear linkage without any transformation.

Its versatility in combination with heavy-duty construction makes the KM an ideal and reliable choice for farmers, councils, leasers, contractors and other mixed tractor fleet owners.



The standard configuration of the KM front and rear mounted Flail Toppers includes a hydraulic side-shift of 57 cm = 22".

Interchangeable wearing plates in the sliding sections of the headstock ensure long life and minimal maintenance.

Specifications		KM-245	KM-270	KM-300
Cutting width	cm / ft	245 / 8'1"	270 / 8'10"	300 / 9'10"
PTO speed	rpm	1000	1000	1000
Flail rotor speed	rpm	2100	2100	2100
*Power requirements, minimal	kW / hp	40 / 55	48 / 65	55 / 75
Flails:				
- standard: 0,8 kg = 1¾ lb each		24	28	32
- optional: 2,2 kg = 5 lb each		16	16	18
Total width	cm / ft	272 / 8'11"	297 / 9'9"	327 / 10'9"
Tractor 3 pt. linkage	cat.	II	II	II
Weight	kg / lbs	1030 / 2270	1120 / 2465	1200 / 2640
Hydr. offset from tractor centreline:				
- minimum	cm / ft	116 / 3'10"	141 / 4'7"	123 / 4'1"
- maximum	cm / ft	173 / 5'9"	198 / 6'6"	180 / 5'11"

*Power requirements depend entirely on the type of work.

A PTO shaft with overload protection must be used in case of oversized tractors

The cutting height is adjustable from 4 to 10 cm (1½" to 4").

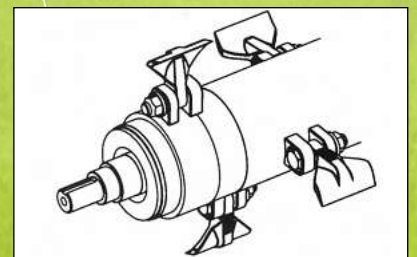
Flail Rotor and Flails

Our special steel 0,8 kg (1¾ lb) standard flails with flat single cutting edges provide a clean and neat cut.

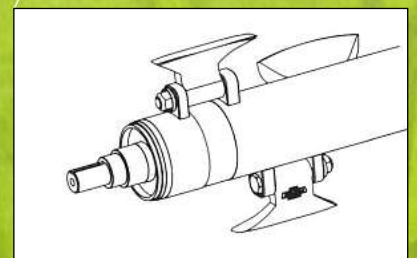
They are fitted to the electronically balanced vibration-free flail rotor with heavy bolts and replaceable steel bushes.

Universal 2,2 kg (5 lb) heavy-duty flails - less sensitive for obstructions - are optionally available on series KT, KM and ZF.

Flails 0,8 kg = 1¾ lb (width 110 mm = 4½")



Flails 2,2 kg = 5 lb (width 200 mm = 8")



ROTARY TOPPERS / MOWERS

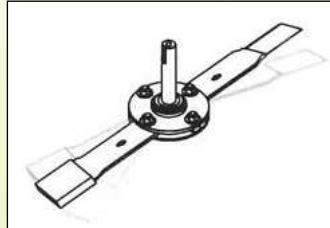


Rotary Topper • Series LB

“Perfect” LB Rotary Toppers clear grass, thistles, nettles, bracken etc. quickly, efficiently and safely.

They are robustly built and have long, profiled skids to follow the ground contours easily and allow for fast working speeds up to 10 km/h = 6½ mph.

Generously overlapping cutting blades are made from special alloy spring steel and have replaceable and reversible cutting edges for 100% longer life.



Specifications		LB-185	LB-245V	LB-275V	LB-365
Cutting width	cm / ft	185 / 6'1"	245 / 8'1"	275 / 9'0"	365 / 12'0"
PTO speed	rpm	540	540	540	540
Rotor speed	rpm	1685	1685	1685	1540
*Power requirements, minimal	kW / hp	18 / 25	26 / 35	29 / 40	33 / 45
Number of blades		2	3	3	4
Total width	cm / ft	194 / 6'4"	258 / 8'6"	284 / 9'4"	374 / 12'3"
Tractor 3 pt. linkage: std.(optional)	cat	(I + II)	II	II	II
Weight	kg / lbs	370 / 815	435 / 960	485 / 1070	575 / 1265
Offset from tractor centreline :					
- minimum (centre mount)	cm / ft	93 / 3'1"	122 / 4'0"	138 / 4'6"	183 / 6'0"
- max. manual → (standard)	cm / ft	135 / 4'5"	205 / 6'9"	220 / 7'3"	230 / 7'7"
- max. parallelogram. ↔ (opt.)	cm / ft	135 / 4'5"	200 / 6'7"	218 / 7'2"	224 / 7'4"

*Power requirements depend entirely on the type of work.

The cutting height is adjustable from 4 to 14 cm (1½" to 5½")

A PTO shaft with overload protection must be used in case of oversized tractors

The unique quick connect coupling system (not on LB-185) enables quick, safe and easy connecting and disconnecting as well as side-shifting.

Models LB-245V and LB-275V have very large offset possibilities to cut clear of the left hand tractor wheel.

The indirect, flexible V-belt drive of all rotor spindles protects the gearbox and the PTO shaft against shockloads. V-belt tension is easily adjustable. Most belts have an automatic spring loaded belt tensioner.



Optional Extras

Rear Roller / Saucers

LB Rotary Toppers are available (if required) with a Rear Roller and/or Support Saucers to prevent the skids from marking soft ground or the blades from scalping in uneven field conditions. *Optional on series LB and SV2*

Swing-Away Blades

For additional protection in rough or stony conditions our Rotary Toppers can also be equipped with swing-away blades instead of the standard fixed cutting blades. *Optional on series LB and SV2*

Offset

The parallelogram-type offset feature allows for stepless offset with manual or hydraulic adjustment. *Optional on series LB*



Front Linkage

Front mounted mowers have the benefit of cutting grass before the tractor wheels run over as well as a better overview of the work. The cantilever design of the parallelogram-type headstock enables our front mounted Topper versions to be pulled rather than pushed. This protects the machine and provides a full floatation effect. *Optional on series LB*

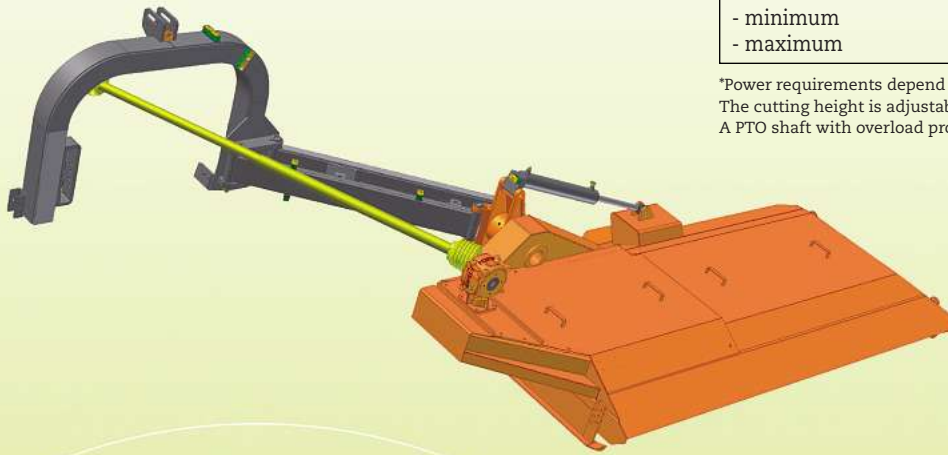




OFFSET TOPPERS / VERGE MOWERS

Fully Offset Topper • Model SV2-275

Main feature of our Fully Offset Topper SV2-275, which is based upon our LB-275V Rotary Topper, is the elimination of the tractor wheel marks. This provides an excellent clean cut over the full width.



Specifications		SV2-275
Cutting width	cm / ft	275 / 9'0"
PTO speed	rpm	540
Rotor speed	rpm	1685
*Power requirements, minimal	kW / hp	40 / 55
Number of blades		3
Tractor 3 pt. linkage	cat	II
Weight	kg / lbs	675 / 1485
Offset from tractor centreline :		
- minimum	cm / ft	225 / 4'6"
- maximum	cm / ft	385 / 7'3"

*Power requirements depend entirely on the type of work
The cutting height is adjustable from 4 to 14 cm (1½" to 5½")
A PTO shaft with overload protection must be used in case of oversized tractors

Verge Mowers • Series ZF

The ZF is a very robust professional Articular Offset Flail Mower, designed specifically for the maintenance of roadside verges, embankments, ditch sides etc.

Drive to the flail rotor is transmitted through a 5-fold power belt, which is automatically kept at the right tension. A flexible coupler eliminates peak strokes on the drive system.

Its articulation range of 155° (+90° to -65°) and its hydraulic side-shift of 700 mm (27") give the machine utmost flexibility to work around obstacles such as poles, trees etc. and to deal with variations in ground level. A unique large deflection breakaway device ensures maximum protection.

The ZF can either be equipped with 0,8 kg (1¾ lb) standard flails for finest cut or 2,2 kg (5 lb) optional heavy-duty flails which are less sensitive for obstructions.



ZF in combination with Front Topper



Specifications		ZF-150	ZF-180	ZF-210	ZF-240
Cutting width	cm / ft	150 / 4'11"	180 / 5'11"	210 / 6'11"	240 / 7'11"
PTO speed	rpm	1000	1000	1000	1000
Flail rotor speed	rpm	2265	2265	2265	2265
*Power requirements, minimal	kW / hp	44 / 60	50 / 68	55 / 75	65 / 88
Flails:					
- standard 0,8 kg = 1¾ lb each		16	18	22	24
- optional 2,2 kg = 5 lb each		9	12	12	16
Transport width	cm / ft	187 / 6'1"	187 / 6'1"	187 / 6'1"	187 / 6'1"
Tractor 3 pt. linkage	cat.	II	II	II	II
Weight	kg / lbs	890 / 1960	940 / 2070	990 / 2180	1050 / 2315
Offset from tractor centreline:					
- minimum	cm / ft	255 / 8'4"	285 / 9'4"	315 / 10'4"	345 / 11'4"
- maximum	cm / ft	325 / 10'7"	355 / 11'7"	385 / 12'7"	415 / 13'7"

*Power requirements depend entirely on the type of work.

The cutting height is adjustable from 4 to 9 cm (1½" to 3½")

A PTO shaft with overload protection must be used in case of oversized tractors.



MULTI MOWERS



Multi Mowers • Series ZW

ZW Multi Mowers have a hydraulic offset possibility of 1600 mm (63") and can work both partially behind the tractor and fully offset. The working range of the cutting head is hydraulically adjustable from +90° to -65°.

This mower is ideal for topping, estate maintenance, field borders, ditches, embankments, hedges etc., cutting around trees and other obstacles on the verge with minimum tractor road width required because of the large offset.

The 0,8 kg (1¾ lb) special flails with single cutting edges ensure clean and finest cut of grass, rushes, reed stems, brush etc. up to 30 mm (1¼").

The clever location of the gearbox and the cutting head joint allows for maximum use of the cutting width in any working position. The reliable, powerful and flexible drive system includes a heavy oilbath gearbox and 3 or 4 V-belts.



Specifications		ZW-150	ZW-180	ZW-210	ZW-240
Cutting width	cm / ft	150 / 4'11"	180 / 5'11"	210 / 6'11"	240 / 7'11"
PTO speed	rpm	540	540	540	540
Flail rotor speed	rpm	2075	2075	2075	2075
*Power requirements, minimal	kW / hp	37 / 50	44 / 60	51 / 70	59 / 80
Number of flails, 0,8 kg = 1¾ lb each		16	18	22	24
Transport width	cm / ft	140 / 4'7"	140 / 4'7"	140 / 4'7"	140 / 4'7"
Tractor 3 pt. linkage	cat.	II	II	II	II
Weight	kg / lbs	735 / 1620	780 / 1720	825 / 1820	900 / 1985
Offset from tractor centreline:					
- minimum	cm / ft	100 / 3'3"	130 / 4'3"	160 / 5'3"	190 / 6'3"
- maximum	cm / ft	260 / 8'6"	290 / 9'6"	320 / 10'6"	350 / 11'6"

*Power requirements depend entirely on the type of work.

The cutting height is adjustable from 5 to 11 cm (2" to 4")

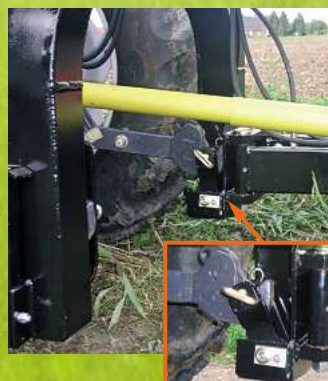
A PTO shaft with overload protection must be used in case of oversized tractors



All "Perfect" Multi Mowers are also available as front mounted or left hand model.

The main body of the cutting head is fitted with a twin skin metal plate construction with reinforcements at key mounting points for utmost security and durability.

"Perfect" has designed a special heavy-duty headstock and offset device to transmit the weight of the cutting head to the tractor.



The headstock incorporates a safety breakaway system that allows the cutting head in case of collision to pivot clear and then reset automatically.



SOLO SWING

Solo Swing • Series SZF and SZL

The Solo Swing is a swinging arm, driven by a hydraulic motor, to mow around trees, fences, posts etc.

The standard configuration is a tractor front mount version with hydraulic offset and two support wheels. Available for pastures, paddocks, orchards, vineyards, etc.
All Solo-Swing versions have swing-away blades as standard.

The Solo Swing comes automatically in transport position as soon as the swing arm is being retracted completely.



For optimal performance under different conditions the cutting height, as well as the working angle, float and swing-return pressure are easily adjustable.

Solo Swing Attachment • Series SZA

The Solo Swing is also available as an attachment with mounting brackets to be fitted to a rotary mower or a flail mower.

Specifications		SZF-600	SZL-600	SZA-600
Cutting width	cm / ft	60 / 2'0"	60 / 2'0"	60 / 2'0"
Oil flow	min	30	30	30
Oil pressure	bar / psi	± 120 / 1740	± 120 / 1740	± 120 / 1740
Cutting angle	°	0 - 15	0 - 15	0 - 15
Discharge angle	°	0 - 15	0 - 15	0 - 15
Tractor hydraulics required		1 x double acting valve 1 x single or double acting valve 1 x free flow return		1 x single or double acting valve 1 x free flow return
Offset from tractor centreline:				
- maximum	cm / ft	165 / 5'5"	210 / 6'11"	
Weight	kg / lbs	175 / 385	200 / 440	60 / 132

The cutting height is adjustable from 4 - 11 cm (1" to 4")

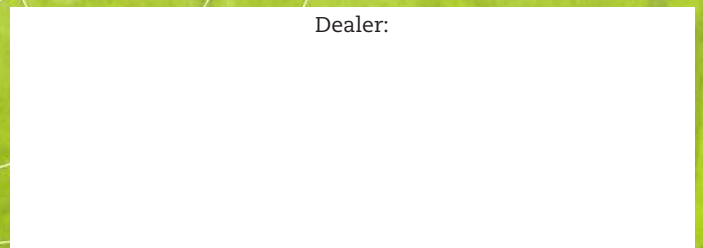
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As our policy is one of continuous improvement, we reserve the right to change the specification or to modify the design without prior notice.