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# Grass Machinery







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# About Us

Major Equipment Intl Ltd was established in 1976. The company manufactures and exports a comprehensive range of agricultural, amenity and site equipment.

The product range is manufactured and distributed under the brand name of MAJOR. Over the years the company has expanded and now has branches in the UK and the Netherlands to service the extensive European customer base.

The company policy is one of

continuous product development. There is a specialist research and development team who use the latest design software and production technologies available.

Major Equipment is committed to providing you with a high quality product delivered to the desired destination, within the stipulated time period.

Major Equipment also provides a full after sales service and technical assistance.



## SYNERGE Mower for use with popular power units including John Deere, Kubota and Shibaura

The MAJOR SYNERGY rotary mower offers expert reliability, durability and lower running costs to provide a compelling cost effective option. It features fewer wearing parts – approximately half those of a typical flail mower.

The body is produced from Optim™ high-strength steel which is stronger, yet much lighter than steel traditionally used in machinery manufacturing. As a result the overall weight of the machine is reduced without compromising on build quality.

The MAJOR SYNERGY rotary mower is ideal for sports pitches and parklands and will appeal to local authorities, landscape gardeners and other grounds care professionals that demand a versatile mower deck capable of delivering a professional finish across a variety of grass lengths and types.

### Features:

- Compatible with Kubota F Series, John Deere 1400/1500 Series II and Shibaura power units
- Unique MAJOR break back blades that include a high-wear protecting blade carrier
- Adjustable castor wheels follow the contours of the terrain
- A djustable rear-roller for matching desired cutting height
- Gear driven driveline
- Constructed from Optim™ high-strength steel
- Shock-absorbent couplings between gearboxes to protect gearboxes while mowing

Model	Overall Width	Working Width	Power (HP)	PTO rpm	Cutting Height	Rotors	Blades	Weight	Blade tip speed
MJ60-175	1.75m (5'9")	1.62m (5'3")	20 HP	2100 rpm	0-118mm	3	6	240kg	83 m/s
MJ60-200	2.00m (6'6")	1.88m (6'3")	20 HP	2100 rpm	0-118mm	3	6	260kg	83 m/s





# MAJOR Flail Mower for use with popular power units

including John Deere, Kubota and Shibaura

This flail mower from MAJOR have been designed for use with the Kubota F Series of outfront mowers. It is suitable for cutting both coarse and fine grass and gives a professional finish.

### Features:

- Castor wheels with a simple height adjustment system. The wheels allow the flail to follow the grounds contours.
- Patented twin cutting vertical/horizontal heavy duty flail.
- Adjustable rear roller to give you your desired cutting height.
- Heavy duty drive line and flail rotor for long machine life.
- Overrun driveline prevents damage to the tractor driveline in the event of an emergency shut-off.



Model	Overall Width	Working Width	No. Of Flails	Power (HP)	PTO rpm	Belts	Weight
MJ21-140	1.52m	1.4m	24	25	2545	3	185kg
MJ21-160	1.72m	1.6m	28	25	2545	3	225kg

# THREE POINT LINKAGE 1.35m - 2.4m ROLLER MOWERS

The MJ70-190 and MJ70-240 MAJOR Roller Mowers easily connect to the tractors three point linkage and roll over the ground following the earth's contours independently of the tractor.

The blade system is enclosed within an aerofoil chamber and cut material is recycled and distributed evenly in the wake of the machine. The finish is a professional stripe which is favoured by groundsmen.

A simple spanner adjustment sets and locks the cutting height of the machine by raising or lowering the rollers. The cutting range available is from 10mm to 150mm. Heavy duty rollers are fitted with internal bearings and seals to prevent water and dust contamination ensuring life long protection.

MAJOR Roller Mowers are all gear driven machines which results in low maintenance and down time costs when compared to belt driven machines.

The gear drive system allows these machines to operate in the most arduous weather conditions and still produce a perfect finish. The slip clutch and overrun protection on the input PTO shaft coupled with the rubber buffer protection between each of the rotor gearboxes minimize damage to vital components in the event of an impact.

This machine is suitable for use in a wide range of applications including cricket outfields, sports pitches, polo grounds, school grounds and golf course rough maintenance.

### Features:

- Adjustable cutting height from 10mm to 150m
- 3 point linkage Cat I/II Arms
- Inter gearbox shock loading protection
- Slip clutch and overrun on PTO shaft
- Internal double roller bearing housing
- Scraper bars or optional wire roller cleaner
- Durable two pack paint finish

Model	Working Width	Power (HP)	PTO rpm	Cutting Height	Rotors	Blades	Weight	Blade tip speed	Mowing Rates (Acres/hr at 7mph)
MJ70-190	1.95m (6' 4")	25 - 50	540	10-150mm (1/2"-6")	3	6	450kg	4534 m/min	5.18
MJ70-240	2.4m (8')	30 - 60	540	10-150mm (1/2"-6")	4	8	510kg	4534 m/min	6.52





# FRONT MOUNTED ROLLER MOWER

This machine features an innovative four point pivot system that ensures constant contact with the undulating ground.

The CAD designed linkage system allows the machine unrestricted floatation and excellent road height clearance when the machine is locked into transport position.

Swinging blades protect the gearboxes from impact damage with rubber buffers eliminating residual shock loading. The blade system is enclosed within an aerofoil chamber and cut material is recycled and distributed evenly in the wake of the machine.

The finish is a professional stripe which is favoured by grounds maintenance keepers. A simple spanner adjustment sets and locks the cutting height of the machine by raising or lowering the rollers. The cutting height can be adjusted from 12mm to 150mm.

Heavy duty rollers are fitted with internal bearings and seals to prevent water and dust contamination ensuring life long protection.

The MAJOR Roller Mower range are all gear driven machines which results in low maintenance and down time costs when compared to belt driven machines. This machine is suitable for use in a wide range of applications including cricket outfields, sports pitches, polo grounds and golf course rough maintenance.

## Features:

- Adjustable cutting height from 12mm to 150mm
- 3 point linkage Cat I/II Arms
- Inter gearbox shock loading protection
- Slip clutch and overrun on PTO shaft
- Internal double roller bearing housing
- Heavy duty rollers
- Durable two pack paint finish
- Scraper bars or optional wire roller cleaner

Model	Working Width	Transport Width	Power (HP)	PTO rpm	Cutting Height	Rotors	Blades	Weight	Blade tip speed	Mowing Rate (Acres/hr at 7mph)
8400GR-FM	2.4m (8')	2.4m (8')	60 - 110	1000	12-150mm	4	16	550kg	4534 m/min	8.94
11000GRFL	3.2m (11')	2.3m (7'6")	60 - 110	1000	12-150mm	5	20	1074kg	4373m/mm	9.68
15000GRFL	4.6m (15')	2.3m (7'6")	60 - 110	1000	12-150mm	7	28	1320kg	4373m/mm	12.5

# THREE POINT LINKAGE 3.2m - 4.6m ROLLER MOWERS

MJ70-320 (11000), 12000 and 15000 MAJOR Roller Mowers are gear driven machines with working widths from 3.2m to 4.6m. With the wings folded these machine have a transport width of just 2.3m.

The MJ70-320 and 15000 can be front mounted with a Major linkage frame. They can be used in conjunction with the MAJOR TDR range to give a superior cut.

The slip clutch and overrun protection on the input PTO shaft coupled with the rubber buffer protection between each of the rotor gearboxes minimise damage to vital components in the event of an impact.

The twin blade system is enclosed within an aerofoil chamber and cut material is recycled and distributed evenly in the wake of the machine. The finish is a professional stripe which is favoured by grounds maintenance keepers. The blades are synchronised to rotate in opposite

directions and overlap each other by 75mm to ensure a perfect finish every time. A simple spanner adjustment sets and locks the cutting height of the machine by raising or lowering the rollers. The cutting height can be adjusted from 12mm to 150mm.

Heavy duty rollers are fitted with internal bearings and seals to prevent water and dust contamination ensuring life long protection. These machines are suitable for use in a wide range of applications including sports grounds, private estates, polo grounds and schools.

## Features:

- CAD designed linkage system
- Inter gearbox shock loading protection
- Slip clutch and overrun on PTO shaft
- Durable two pack paint finish
- Internal double roller bearing housing
- Scraper bar or optional wire roller cleaner

Model	Working Width	Transport Width	Power (HP)	PTO rpm	Cutting Height	Rotors	Blades	Weight	Blade tip speed	Mowing Rate (Acres/hr at 7mph)
MJ70-320	3.2m (11')	2.3m (7'6")	35 - 130	540/1000	10-150mm	5	20	1074kg	4534 m/min	8.94
12000GR3PTL	3.6m (12')	2.3m (7'6")	45 - 130	540	10-150mm	4	16	1377kg	4411 m/min	9.68
15000GR3PL	4.6m (15')	2.3m (7'6")	40 - 150	540/1000	10-150mm	7	28	1340kg	4534 m/min	12.5





The wings float up to 25° above and below the cutting plane



## TRAILED ROLLER MOWERS

### 2m - 4.6m

The MAJOR Trailed Roller Mowers are ideal for maintenance of large grassy areas such as sports grounds, golf courses, airports, racetracks and parklands. As all the gearboxes are in one line, the effective cutting widths are at a maximum.

There is no waste of cutting area from having the rotors staggered as in a belt driven machine. The machines are only as wide and as deep as the diameters of their rotors, therefore they can follow the contours of the most undulating ground and give a perfect finish every time.

The 12000GR and 18000GR have four and six rotors respectively and are mounted in three different sections. Two rotors are mounted in the main body of both machines; the others are contained in the wings.

The design of the machine ensures that no windrowing of cut material takes place due to the unique aerodynamic chamber that surrounds each blade and the rotation of each rotor. These factors cause the grass to be 'sucked'

towards the blade, cut finely and then blown, in an even layer from the rear of the machine. The 12000 model can cut up to 9.7 acres per hour and the 18000 Groundsmajor has a cutting capacity of up to 14.6 acres per hour.

Both machines are fitted with BKT turf tyres as standard. They can be hydraulically raised clear of the ground for mowing and lowered for mower transportation. The drawbar is fitted with a hydraulic ram to give additional ground clearance when the machine is in the transport position.

#### Features:

- Inter gearbox shock loading protection
- Wide angle PTO shaft with slip clutch and overrun
- Internal double roller bearing housing
- Swivel drawbar hitch
- Parking jack
- Scraper bars and lights as standard
- Optional wire roller cleaner
- Durable two pack paint finish

Model	Working Width	Transport Width	Power (HP)	PTO rpm	Cutting Height	Rotors	Blades	Weight	Blade tip speed	Mowing Rate (Acres/hr at 7mph)
6300GR-T	1.95m (6' 4")	1.95m (6' 4")	25 - 50	540	12-150mm	3	6	550kg	4534 m/min	5.18
8400GR-T	2.4m (8')	2.4m (8')	30 - 60	540	12-150mm	4	8	610kg	4534 m/min	6.5
12000GR	3.6m (12')	2.3m (7' 6")	50 - 130	540	12-150mm	4	16	1500kg	5931 m/min	9.68
18000GR	5.4m (18')	2.3m (7' 6")	60 - 180	540	12-150mm	6	24	1890kg	5931 m/min	14.62

## TDR16000 and TDR20000

### ROTARY GANG MOWERS

The MAJOR TDR Rotary Gang Mowers lead the range of Roller Mowers with cutting widths of 4.9m and 6.1m. The patented three point pivot system allows the machine to glide over the ground contours eliminating scalping of the grass.

The heavy duty rollers are fitted with internal bearings and seals to prevent water and dust contamination ensuring life long protection. The twin blade system is enclosed within an aerofoil chamber and cut material is recycled and distributed evenly in the wake of the machine.

The blades are synchronised to rotate in opposite directions and overlap each other by 75mm to ensure a perfect finish every time. A simple spanner adjustment sets and locks the cutting height of the machine by raising or lowering the rollers. The cutting height can be adjusted from 12mm to 150mm.

As with all the MAJOR range ease of maintenance is paramount and the rear deck two stage lift allows simple maintenance to be carried out.

The slip clutch and overrun protection on the input PTO shaft coupled with the rubber buffer protection between each of the rotor gearboxes minimise damage to vital components. The machines wings can be folded up to a 90° angle giving

a transport width of 2.4m. To ensure operator safety the wings auto-stop when raised and must be reset manually when lowered. This is an important feature when operating in public areas.

All moving parts are completely enclosed and the rollers prevent debris from escaping from the under the machine. The rear deck (MAJOR 8400GR) can be removed easily and be used independently of the wings giving the operator two machines in one. The electronic in-cab remote control system allows full independent use of each deck from the comfort of the tractor. This machine is widely used by local authorities, military grounds, sports clubs, parklands and airports to name a few.

#### Features:

- Wide angle PTO shaft with slip clutch and overrun
- Three point pivot floating deck system
- Inter gearbox shock loading protection
- Detachable rear deck
- Adjustable drawbar hitch
- Scraper bars or optional wire roller cleaner
- Option of swinging, rigid blades or mulching blades
- Durable two pack paint finish
- Highway LED EU specification lighting
- Hydraulic control by radio wireless remote control

Model	Working Width	Transport Width	Power (HP)	PTO rpm	Cutting Height	Rotors	Blades	Weight	Blade tip speed	Mowing Rates (Acres/hr at 7mph)
TDR16000	4.9m (16')	2.4m (7' 10")	65 - 150	540	12-150mm (1/2"-6")	8	6	2260kg	4569 m/min	13.22
TDR20000	6.1m (20')	2.4m (7' 10")	75 - 180	540	12-150mm (1/2"-6")	10	6	2675kg	4569 m/min	16.58





## VERGE MAJOR MULTI-PURPOSE MOWER

This is a versatile and nimble machine designed for professional users. Thanks to the durable and pivoting headstock, this machine easily copes with the most extreme work conditions.

All MAJOR machines are robust and the Verge Major is no exception! When cutting grass, the roller system allows the machine to follow the contours of the most undulating ground to give a perfect finish.

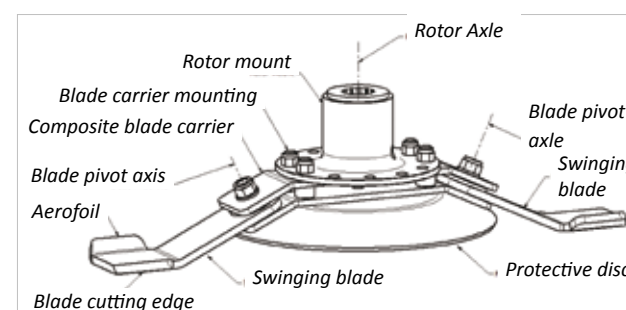
### STANDARD FEATURES:

- A unique patented blade system. In the event of a hitting an obstacle, the blades retract upwards out of the line of impact preventing breakages and damage to gearboxes and driveline
- Internal double roller bearing housing to support the rollers while cutting and protect the bearings
- Heavy duty gearboxes with inter gearbox shock loading protection, to protect the machine in the event of a collision
- Simple height adjustment system
- Low maintenance machine with less wearing parts than a flail mower. This is the most versatile machine on the market and guarantees a minimum fuel saving of 30% when compared to flail mowers. The machine gives you precision cutting and can operate from 96° to -45° either fully offset or inline behind your tractor.

### Specifications

Model	OSM-1400	OSM-2000	OSM-2650
Overall Width	1.4m	2.05m	2.65m
Cutting width	1.35m (4' 5")	1.98m (6' 6")	2.6m (8' 6")
No. of Rotors	2	3	4
No. of Blades	4 / 8	6 / 12	8 / 16
Sliding Offset	1.56m	1.56m	1.56m
RPM	540	540	540
Power Requirements	40 HP	60 HP	80 HP
Hedge cutting	0 - 96°	0 - 96°	0 - 96°
Mowing of road sides	0 - 45°	0 - 45°	0 - 45°
Tractor class	II	II	II
Weight	685kg	800kg	905kg

### Blade details



## MJ2000 FLAIL COLLECTOR

The MAJOR MJ2000 Flail Collector has a 2m cutting width and can be adjusted to cut heights from 12mm to 250mm. The cutting head floats independently of the body ensuring a perfect finish.

The cutting head lifts for transport and locks in position giving the operator 250mm ground clearance. The collector has a volume of 3 cubic metres and a tipping height of 2m. The tipping height allows the collected material to be dropped into any trailer.

Blade changing and cutting head maintenance are easy to facilitate with the maintenance locking arm and three cubic metre hopper in tipped position and the hydraulically powered chute pulled forward.

Robustly constructed this machine is guaranteed to withstand the rigors of continuous use. Hammer blades are fitted as standard and the MJ2000 works perfectly in all conditions including fine grass collection, bracken and gorse clearance, rough cutting and scrub land collection.

This machine is used extensively by Local Authorities,



golf courses, heath land management programmes and conservation schemes where the cutting and collection of material is required.

### Features:

- Wide angle auto reset PTO shaft
- Highway LED EU specification lighting
- Independent floating cutting deck
- BKT turf tyres
- Cutting deck transport lock
- Flail blades
- Galvanised top cover
- Durable two pack paint finish

### Optional Extras:

- Road tyres
- Scarifying kit

Model	Overall Width	Working Width	Transport Width	Power (HP)	PTO rpm	Blade Speed	Cutting Height	Weight	Collector Capacity	Mowing Rate (Acres @ 7mph)
MJ2000	2.2m	2m	2.3m	50 - 120	540	2006m/min	12 - 150mm	1400kg	3m³	4.98





# JUNGLE BUSTER

The MAJOR Jungle Buster is designed for heavy duty brush and scrub cutting. This machine is robustly constructed with a 10mm deck and the blade system from the MAJOR 490 Eagle Wing topper.

The free swinging blades fall back upon obstacles virtually eliminating shock damage being carried down the transmission to the tractor. The blades have an up draught aerofoil providing an exceptional air current and in turn spreading the cut material evenly.

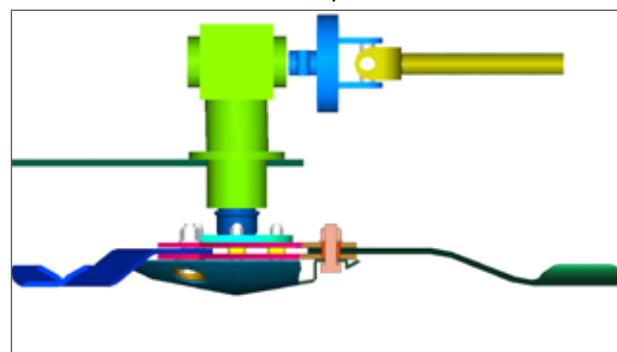
This heavy duty machine is CE certified with durable chains to prevent debris escaping. The slip clutch PTO shaft is fully guarded ensuring operator safety at all times. Transmission is protected by the slip clutch removing residual shock loading. Blades are easily changed without having to remove the sprung steel stump jumper.

## Features:

- 10mm Deck
- Three high lift spring steel blades
- High blade tip speeds for clean cutting
- Round skid pan (stump jumper)
- Slip clutch PTO.
- Chain guard as standard
- Heavy duty lifting chain

## Optional Extras:

- Heavy duty chain in lieu of blades
- Front or rear mounted operation



Model	Working Width	No. of Blades	No. of Rotors	Power (HP)	PTO rpm	Blade Speed	Cutting Height	Weight
605JB	1.7m (5' 6")	3	1	70-150 HP	1000	89m/s	50-185mm	810kg



# GRASS SLASHER

The MAJOR Grass Slasher is a single rotor machine ideally suited for cutting rough pastures, forestry ridges, grass verges, heathland, rushes and heather.

The blade system is capable of tackling material of up to 30mm in diameter. Each machine is fitted with two heavy duty swinging blades fitted to a compound blade beam.

Protection is given to the tractor by using a shear-bolt in the PTO shaft. The cutting height is set by adjusting the two side skids.

The skids have wide runners preventing damage to the ground.



Model	Overall Width	Working Width	No. of Blades	No. of Rotors	Power (HP)	PTO rpm	Blade Speed	Cutting Height	Weight
605SL-HD	2m (6' 5")	1.73m (5' 8")	2	1	30-120 HP	540	72m/s	12-250mm	365kg
609SL	2.1m (6' 9")	1.95m (6' 3")	2	1	30-120 HP	540	81m/s	12-250mm	413kg





Double cut blades as standard to give an even spread of cut material



# THREE POINT LINKAGE GRASS TOPPER

The MAJOR Centre Mount Topper is a fully gear driven machine fitted with high speed rotors and twin cut swinging blades. The 909HD Topper is a heavier duty version of the 9FTGDX toppers.

A new blade design has a quicker flick back reducing shock loading onto gearboxes. This machine is powered by rotor gearboxes through a large horsepower splitter gearbox. A V rated PTO shaft is supplied as standard for best power transfer.

It has an overrun and slip clutch to protect the tractor PTO. Both models are robustly constructed and the free swinging blades 'twin cut' system gives precision cutting and greater spreading. The geared blades are timed to prevent blade collisions. To ensure there is no

striping, the blades overlap by a minimal 78mm (3"). The finish is the traditional MAJOR colours and is available with castor wheels.

**Features:**

- Heavy duty transmission
- Rubber shock absorbers between rotor gearboxes.
- Low maintenance - no belts or pulleys
- ProCut blade system

Model	Overall Width	Working Width	No. of Blades	No. of Rotors	Power (HP)	PTO rpm	Blade Speed	Cutting Height	Weight
7FTGDX-HD	2.3m (7'8")	2.1m (7')	8	2	40-70 HP	540	87m/s	12-250mm	370kg (450kg with wheels)
9FTGDX-HD	2.74m (8' 9")	2.7m (9')	8	2	40-120 HP	540	111m/s	12-250mm	490kg (570kg with wheels)
909 HD	2.91m (9' 5")	2.7m (9')	8	2	50-120 HP	1000	111m/s	12-250mm	560kg (640kg with wheels)

# FLEX WING GRASS TOPPER

The MAJOR Flex Wing Topper is a three point linkage mounted machine which folds up to give a 7'6" transport width. Like all MAJOR machines, the Flex Wing topper is of robust construction. CE conformity is achieved through full PTO guarding and heavy rubber skirting to prevent debris from escaping.

The wing cutting decks are raised by hydraulic control to transport position. The wings are capable of flexing from -15 to +25 degrees allowing the cutting unit to follow the ground contours.

Contra-rotating swinging blades are retained in hardened steel bushing and clamped by sprung steel blade backs. Under-sole discs are fitted to prevent scalping and ensure a perfect finish every time.

**Features:**

- Robust pivot points.
- Rubber shock absorbers
- Slip clutch PTO protection
- Patented transmission system
- Hydraulic wing lift
- ProCut swinging blades
- 88mm (3 1/2") blade overlap to eliminate striping



Flex wing design allows the machine to follow the ground contours.

Model	Working Width	Transport Width	No. of Blades	No. of Rotors	Power (HP)	PTO rpm	Blade Speed	Cutting Height	Weight
12000FW-HD	3.56m (12')	2.2m (7' 2")	16	4	50-160 HP	540	74m/s	12-250 mm	1116 kg
18000FW-HD	5.38m (18')	2.2m (7' 2")	24	6	60-160 HP	540	74m/s	12-250 mm	1395 kg





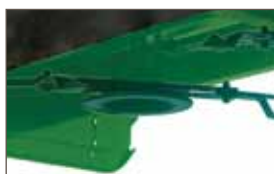
## SIDE MOUNTED GRASS TOPPER

The MAJOR Side Mounted Topper is a fully offset three point linkage pasture topper with two models offering 8' (2.4m) and 9' (2.7m) cutting widths. This machine is robustly constructed with features including overlapping twin-cut high lift swinging blades with under-sole discs.

Other features include hydraulic offset with an integrated hydraulic breakaway protecting the tractor from impact damage. The floating top link ensures the cutting deck hugs the ground contours with the damper bar removing any lateral vibration. Tractor PTO protection is provided through the shearbolt and overrun.

### Features:

- Heavy duty transmission
- Rubber shock absorbers between rotor gearboxes.
- Full hydraulic offset control
- Hydraulic breakaway system
- High lift twin-cut ProCut swinging blades



Undersole discs and swing blades



Hydraulic breakaway system

Model	Working Width	Transport Width	No. of Blades	No. of Rotors	Power (HP)	PTO rpm	Blade Speed	Cutting Height	Weight
800SM-HD	2.4m (8')	2.22m (7' 3")	8	2	45-120 HP	540	100m/s	12-250 mm	550 kg
900SM-HD	2.7m (9')	2.22m (7' 3")	8	2	55-120 HP	540	111m/s	12-250 mm	640 kg

## TRAILED GRASS TOPPER

The MAJOR Trailed Topper is a fully offset gear driven machine. It is offset for working and is folded into transport position hydraulically from the tractor seat.

This topper is available in 8', 9' and 12' cutting widths. The rotors are timed with each other and have an overlap of 3 inches (75mm). The blades rotate in opposite directions to each other and spreads the cut grass evenly behind the machine.

As the machine is fully offset there is no trampling of the pasture prior to cutting. The cutting height is set at the desired level by moving the adjustable side skids to the appropriate position.

There is a limit stop on the ram which controls the rear axle. When the operator reaches the field, the machine is offset then lowered and topping can commence. This reduces downtime.

### Features:

- Heavy duty transmission
- Rubber shock absorbers between rotor gearboxes
- Full hydraulic offset control
- Hydraulic breakaway system
- High lift twin-cut ProCut swinging blades
- Wide angle PTO shaft



Double cut blade system

Model	Working Width	Transport Width	No. of Blades	No. of Rotors	Power (HP)	PTO rpm	Blade Speed	Cutting Height	Weight
8FTGD-HD	2.4m (8')	2.6m (8' 5")	8	2	35-140 HP	540	70m/s	12-205 mm	550 kg
9FTGD-HD	2.7m (9')	2.9m (9' 5")	8	2	40-140 HP	540	77m/s	12-205 mm	650 kg
12FTGDW-HD	3.57m (12')	2.6m (8' 5")	12	3	40-160 HP	540	70m/s	12-205 mm	1240 kg

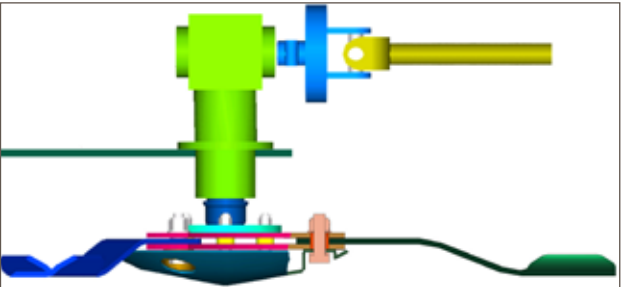




# EAGLE WING GRASS TOPPER

The MAJOR 490EW grass topper is the number one choice for grassland and setaside areas and for military authorities for cutting training areas and bases.

It is also suitable for use by airports for inner runway maintenance and at racecourses and stud farms for pasture improvements. Practical, simple engineering



are the key elements in the design of this robust and flexible mower. The blade lift and aerofoil combination disperses cut grass evenly

### Features:

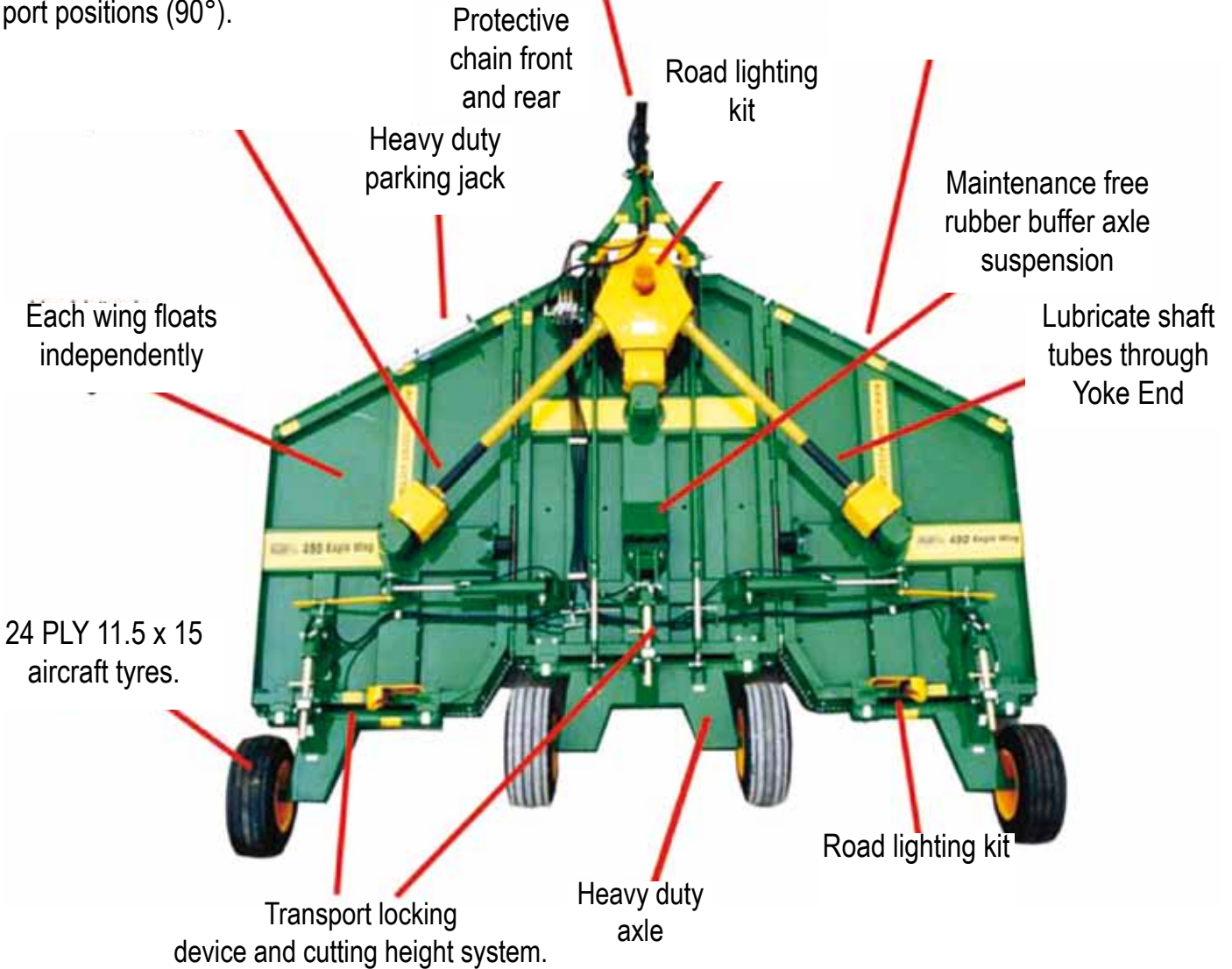
- Three rotors with three blades per rotor
- Four gear box drive, with independent slip clutch and two year warranty
- Wide angle shaft (80°) constant velocity U-joint for continuous cutting
- Road lighting kit with flashing beacon
- 24 ply virtually puncture proof aircraft tyres
- Floating front swivel hitch and frame allows the machine to follow the grounds contours
- 153 mm (6") blade overlap and high blade tip speeds ensure clean cutting



Maintenance free suspension removes shock loading and stress

Four gearbox drive line, each with an independent slip clutch for each cutter assembly to minimise drive line shock in rough conditions. This drive layout allows the wings to operate from -20° up to transport positions (90°).

Blades - Each rotor is fitted with 3 high lift spring steel blades which swing freely in hardened steel bushings mounted on spring steel stump jumpers which give a fly wheel effect providing extra torque



Model	490EW	Blade Speed	17520 f/min (89m/s)
Overall Width	5.1m (16' 7")	Cutting Height	24 - 410mm (1"-16")
Working Width	4.9m (16')	Blade Overlap	155mm (6")
Transport Width	2.3m (7' 6")	Weight	2750 kg
Transport Height	2.25m (7' 4")	Wing Float	90° Up, 20° Down
No. of Blades	9	Input Gearbox	120HP continious
No. of Rotors	3	Rotor Gearbox	75HP continious
Power (HP)	90 - 180	Input PTO Shaft	V 80 Wide Angle
PTO RPM	1000	Rotor PTO shaft	T 60 Slip Clutch





# MAIZE TOPPER

This machine has been designed to tackle the European corn borer which is wiping out crops in Germany and other parts of Europe. The machine has a unique bullet system that shreds the plant remains left in the field after harvesting. This eliminates the overwintering of the caterpillars in the plant and helps eliminate this parasite from the crop.

Because the bullets don't have to hit the stalk deeply, there is no contact with the ground. This saves energy, fuel and wear. If a conventional flail were to process the stubble this intensively, fuel costs would be significantly higher.

There is a blade conversion kit available. A simple adjustment allows the removal of the bullet system and fitting of the MAJOR 'Green Kit' blade system. This allows the machine to be used throughout the year.

The purpose of these bullets is to destroy the maize stubble. The pulse of the rotating bullets is transferred



A perfect result

to the remainder of the plant and forces them to open properly below the first node. This is the area that parasites tend to overwinter in and this destroys the crop.

# 2000 & 3000 SHREDDER

## Heavy duty grassland mower

The MAJOR Shredder is a strong, rugged and robust machine, specifically designed for use in set-aside, forestry margin management and sensitive environmental scrubland control. This machine easily copes with the toughest of conditions including shrub, saplings, gorse and brush as well as the clearance of arable stubble, including maize and rapeseed crops.

The body of this machine is manufactured from Optim™ high strength steel. The combination of swinging blades, under-sole anti-scalping disc and heavy duty rear roller allow fully mulched material to be evenly distributed over the full width of cut. It also provides protection for the gearboxes and drive system. The optional "Bullet" Blades are designed for arable land for maize, rape seed and shrub clearance.

### Features:

- Front or rear tractor mounted
- Anti scalp hardened blade saucers with internal bearings
- Patented heavy duty transmission system allows the machine to work in the toughest of conditions
- Rear roller fitted with twin taper bearings each side as standard
- Impact shock reducing swinging hardened spring steel blades
- Protective chains at front and rear roller to prevent debris from escaping
- Low maintenance machine with less wearing parts than a flail mower and 30% less power and fuel consumption than a flail machine
- External double skin 3MM wear panels protect the machine from stone damage
- Patented bullet system

Model	Working Width	Overall Width	No. of Blades	No. of Rotors	Power (HP)	PTO rpm	Blade Speed	Cutting Height	Weight
2000CM	2.1m (7')	2m (6' 5")	12	3	30-180 HP	1000	77.5 m/s	0-250mm	600 kg
3000FW-HDJ	2.85m (9')	3.0m (9' 4")	12	3	30-180 HP	1000	77.5 m/s	0-250mm	890 kg

Model	Working Width	Transport Width	No. of Blades	No. of Rotors	Power (HP)	PTO rpm	Blade Speed	Cutting Height	Weight
18000HDM	5.52m	2.2m	12	6	60-180	1000	74 m/s	0-250mm	1900 kg



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