


# Front/Rear & Offset Flail Mowers



distributed by 



## FLAIL MOWERS





# MASCHIO FLAIL MOWERS *...give you more*

The Maschio flail mower range is one of the largest available on the UK market with models and features to suit nearly all possible applications. The 50 years of expertise gained from building gearboxes and drivelines for rotary cultivators is clearly evident in the design of all Maschio flail mowers. Build technique and buying volume ensure both robust, reliable and competitively priced machines and wearing parts.

The ability to create a fine residue whether cutting long grass or twigs and branches is a key element of all Maschio flail mowers. This ability to “mulch” increases the speed that residues are broken down at and ultimately the nutrient value of the residue is absorbed back into the soil more quickly.

All the models produce excellent results ensuring worked material is thoroughly cut and mulched at a fast rate enabling a large amount of ground to be covered in a working day. Furthermore, there are a host of small features incorporated into every model to make use and maintenance, easy and safe.

Whilst a mechanical and/or hydraulic offset is available on most standard mounted machines the range also includes fully offset models for field/verge side and ditch mowing.

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# LIGHT DUTY FLAIL MOWER

MASCHIO

## BARBI

20 - 45 hp

The Barbi flail mower is a light duty model, designed for use on compact tractors from 20 to 45hp and is typically used for amenity and gardening applications.

Suitable for cutting grass and shredding small branches and twigs, the Barbi is compact and manoeuvrable

It comes as standard with mechanical offset, multiple toothed transmission belts (3) and adjustable self cleaning rear roller.



**1 PTO gearbox** The Barbi uses a self contained gearbox with an input speed of 540 rpm.

**2 Linkage mounting** Category I three point linkage mounting to connect to the tractor.

**3 Transmission belt** The Barbi flail mower is equipped with 3 toothed transmission drive belts to transfer power to the rotor. The toothed drive belts allow slip proof engagement, preventing power from the transmission being reduced due to heavy loads or general wear.

**4 Blades and hammers** Hammer flails are standard and fish tail flails optional. The self sharpening hammer flail leaves a clean and level cut and lifts and mulches while cutting, whereas the fish tail flail is used for cutting dense tougher material. The hammers and blades bolt onto an electronically balanced rotor that minimises machine vibration and stresses on the bearings.

**5 Counter blade** An internal lower counter blade ensures that the discharged material is mulched into a fine pieces.

**6 Adjustable rear roller** The Barbi flail mower has an internal rear roller. Debris is discharged behind the roller, ensuring efficient discharge of material. The internal position unloads the material behind the roller and is recommended for grass cutting.



**7 Front safety flaps** Steel front safety flaps allow material to enter the cutting chamber but prevent pieces from being thrown out at high speed.

**8 Mechanical offset** Comes as standard with mechanical offset, it utilises a pin system to allow the 3 point linkage frame to slide along a front bar to select the offset in either a left or right direction (hydraulic offset as an option).

## MODEL SPECIFICATIONS

MODEL SPECIFICATIONS								Machine offset (cm)			
Models	HP	Working width (m)	Total width (m)	No. of hammers	Weight (kg)	PTO/RPM	Models	Machine offset (cm)			
BARBI	100	20-45	1.0	1.13	14	262	100	60	40	60	
	120	25-45	1.2	1.33	16	283	120	74.5	45.5	74.5	
	140	30-45	1.4	1.55	20	310	140	84	56	95	
	160	35-45	1.6	1.75	22	326	160	84	76	116	
	180	40-45	1.8	1.9	24	344	180	84	91	131	



# MEDIUM DUTY FLAIL MOWERS

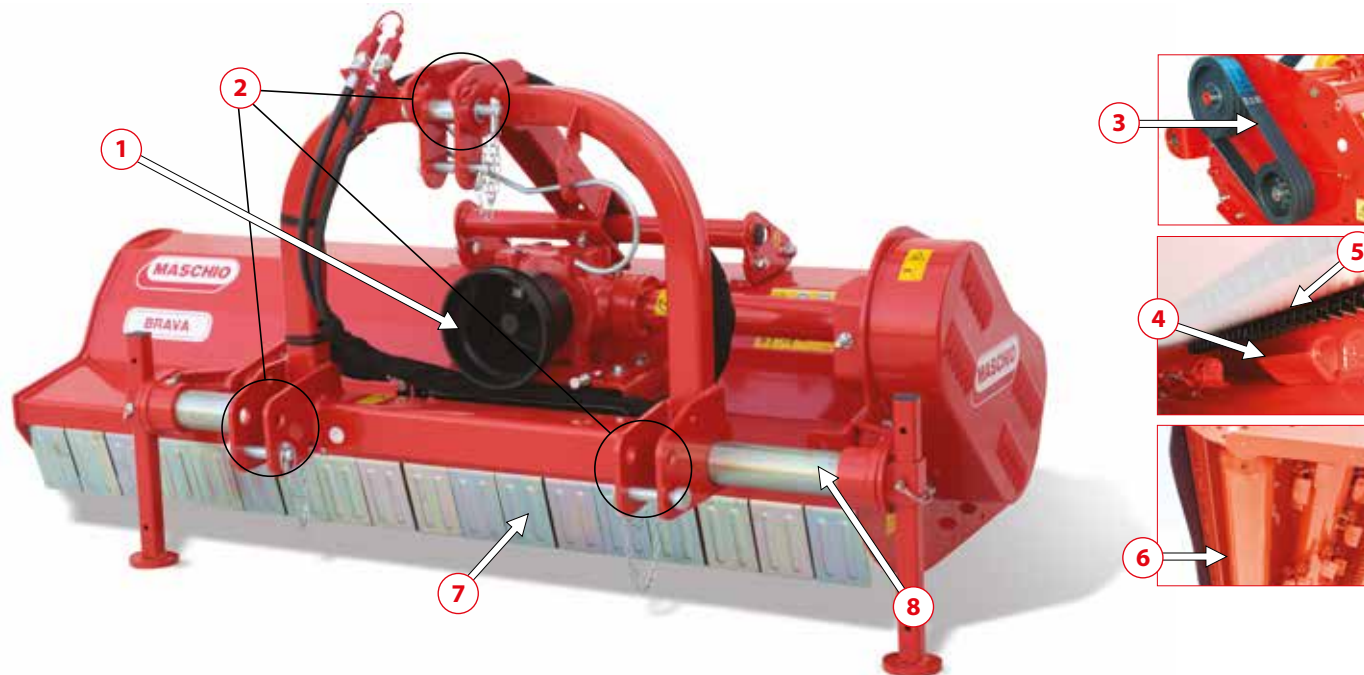
## BRAVA

30 - 80 hp

The Brava flail mower is a medium duty model, designed for use on compact tractors from 30 to 80hp and is typically used for amenity and gardening applications.

Suitable for cutting grass and shredding branches and twigs.

It comes as standard with mechanical offset, multiple toothed transmission belts (3 or 4 depending on model) and adjustable self cleaning rear roller.



## BELLA

30 - 80 hp

The Bella flail mower is a medium duty model, designed for use on compact or agricultural tractors from 30 to 80hp and is typically used for amenity and light agricultural applications.

Suitable for cutting grass and shredding branches and twigs.

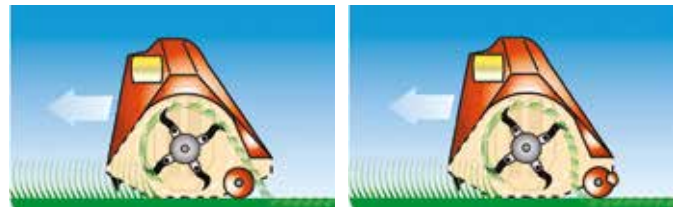
It can be used as a front or rear mounted machine and comes as standard with, mechanical offset, multiple toothed transmission belts (3 or 4 depending on model) and adjustable self cleaning rear roller.





- ① **PTO gearbox** The Brava and Bella use a self contained gearbox with an input speed of 540 rpm. The Bella gearbox can be reversed by unbolting and turning it over, this allows the Bella to be used as a front or rear mounted flail mower (front and rear gearbox options on the Bella).
- ② **Linkage mounting** The Brava and Bella flail mowers use category I three point hitches to connect to the tractor. These can be easily removed and reversed or turned on the Bella allowing it to be either a front or rear mounted machine. A Category II upgrade kit is also available as an optional extra.
- ③ **Transmission belt** The Brava and Bella flail mowers are equipped with 3 toothed transmission drive belts (Brava 200 and Bella 190 & 210 models have 4 toothed drive belts) to transfer power to the rotor. The toothed drive belts allow slip proof engagement preventing power from the transmission being reduced due to heavy loads or general wear.
- ④ **Blades and hammers** Hammer flails are standard and fish tail flails optional. The self sharpening hammer flail leaves a clean and level cut and lifts and mulches while cutting, whereas the fish tail flail is used for cutting dense tougher material. The hammers and blades bolt onto an electronically balanced rotor that minimises machine vibration and stresses on the bearings.
- ⑤ **Counter blade** The Brava and Bella flail mowers come as standard with an internal lower counter blade that ensures that the discharged material is mulched into fine pieces. The upper counter blade kits are available as an optional extra for finer mulching of harder coarser materials.

- ⑥ **Rear roller** The Brava has an internal rear roller. Debris is discharged behind the roller, ensuring efficient discharge of material. The internal position unloads the material behind the roller and is recommended for grass cutting. Height adjustment is controlled by the **external rear roller** on the Bella flail mower. Wheels are available as an option.



- ⑦ **Front safety flaps** Steel front safety flaps allow material to enter the cutting chamber but prevent pieces from being thrown out at high speed.
- ⑧ **Mechanical offset** The Brava and Bella flail mowers come as standard with mechanical offset, using a pin system to allow the 3 point linkage frame to slide along a front bar to select the offset in either a left or right direction.

## MODEL SPECIFICATIONS

	Models	HP	Working width (m)	Total width (m)	No. of hammers	Weight (kg)	PTO/RPM
BRAVA	140	30-80	1.45	1.54	14	435	540
	160	35-80	1.6	1.74	16	467	540
	180	40-80	1.75	1.89	20	490	540
	200	45-80	1.95	2.09	22	528	540
	230	50-80	2.3	2.44	26	620	540
	250	55-80	2.5	2.64	28	650	540
BELLA	135	30-80	1.35	1.5	14	400	540
	155	35-80	1.55	1.7	16	430	540
	170	40-80	1.7	1.85	20	470	540
	190	45-80	1.9	2.05	22	500	540
	210	50-80	2.1	2.25	24	530	540

	Models	Machine offset (cm)	
BRAVA	140	70 41	65 94
	160	80 40	75 115
	180	85 45	88 128
	200	98 58	96 136
	230	112 86	118 144
	250	137 97	120 160
BELLA	135	82 42	53 93
	155	82 42	73 113
	170	96 56	74 114
	190	96 56	94 134
	210	96 56	114 154



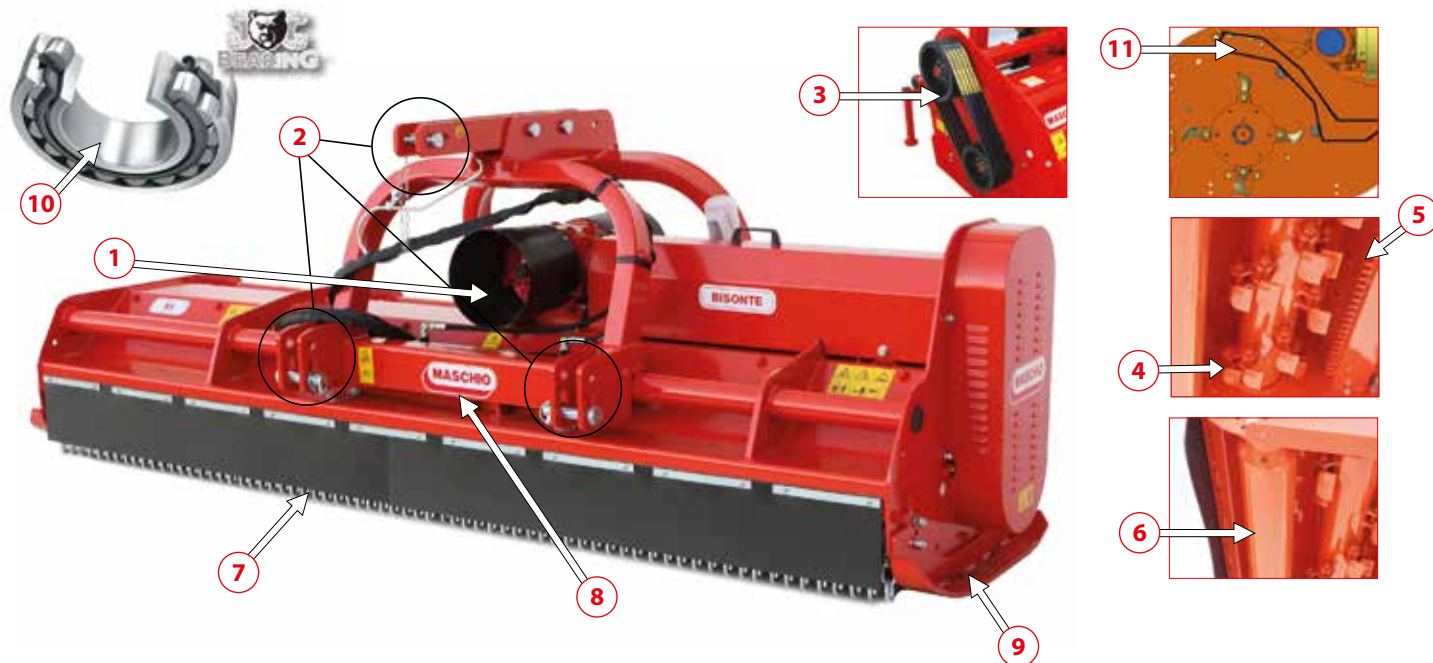
# HEAVY DUTY FLAIL MOWERS

## BISONTE - front or rear mounted

50 - 110 hp

The Bionte flail mower is one of the heavy duty models, designed for use on small to medium sized agricultural tractors from 50 to 110hp and is typically used for agricultural and forestry applications.

Suitable for cutting grass, crop residues, and shredding branches or twigs. It can be used as a front or rear mounted machine.



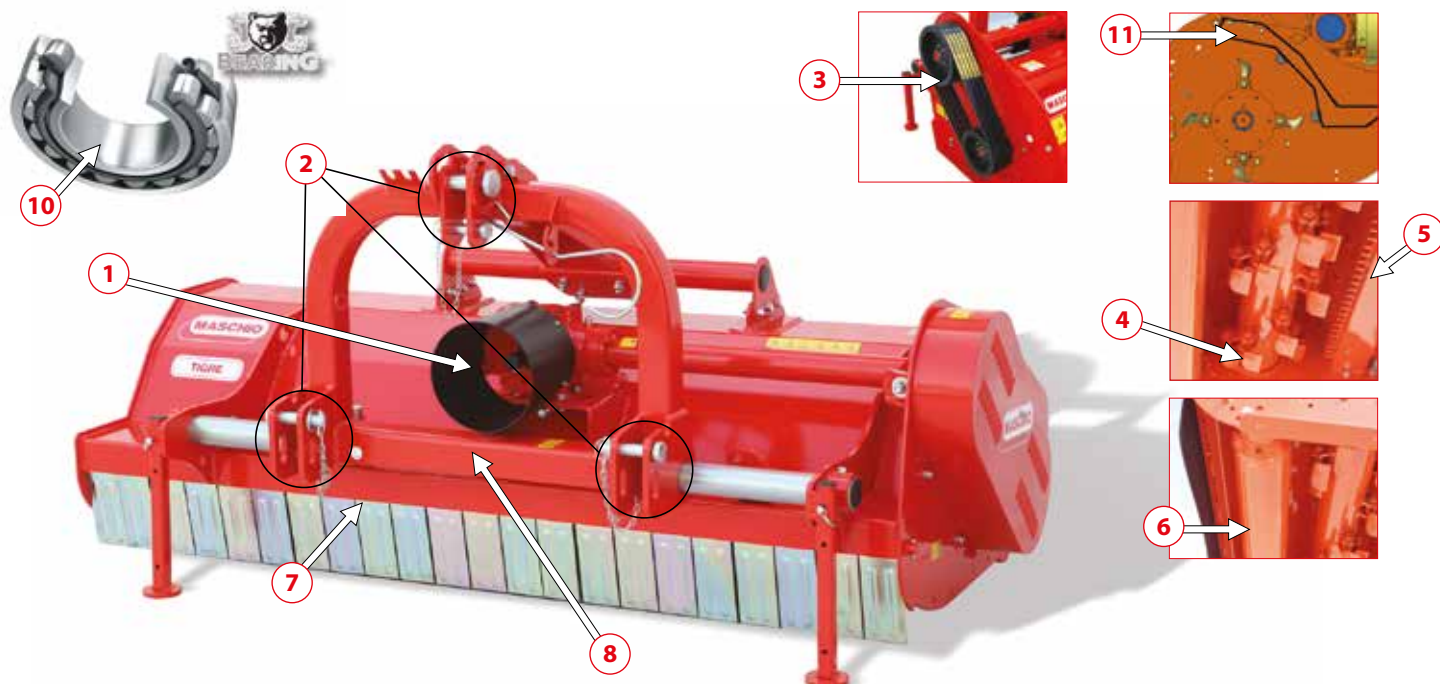
## TIGRE

55 - 140 hp

The Tigre flail mower is a heavy duty model, designed for use on small to medium sized agricultural tractors from 55 to 140hp and is typically used for amenity and agricultural applications.

Suitable for cutting grass, crop residues, and shredding branches or twigs.

It comes as standard with, hydraulic offset, multiple toothed transmission belts (5) and height adjustable rear roller.





- 1 **PTO gearbox** The Bisonte and Tigre use a self contained gearbox with an input speed of 1000rpm and 540rpm respectively. The Bisonte's gearbox can be rotated through 180°, allowing it to be used as a front or rear mounted flail mower.
- 2 **Linkage mounting** The Bisonte and Tigre flail mowers are supplied as standard with category II three point hitches to connect to the tractor. The Bisonte has a second category II three point hitch that allows it to be either a front or rear mounted machine.
- 3 **Transmission belt** The Bisonte and Tigre flail mowers are equipped with 5 toothed transmission drive belts to transfer power to the rotor. The toothed drive belts allow slip proof engagement preventing power from the transmission being reduced due to heavy loads or general wear.
- 4 **Blades and hammers** Hammer flails are standard and fish tail flails optional. The self sharpening hammer flail leaves a clean and level cut and lifts and mulches while cutting, whereas the fish tail flail is used for cutting dense tougher material. The hammers and blades bolt onto an electronically balanced rotor that minimises machine vibration and stresses on the bearings.
- 5 **Counter blade** Double counter blades are standard with an internal lower toothed counter blade and one upper counter blade ensure that the discharged material is mulched into fine pieces. The upper counter blade enables them to produce a finer mulch of harder coarser materials.
- 6 **Rear roller** The Bisonte and Tigre flail mowers have an internal rear roller. Debris is discharged behind the roller, ensuring efficient discharge of material. The internal position unloads the material behind the roller.



- 7 **Protective safety guards** Front chains and rubber guards on the Bisonte and steel safety flaps on the Tigre allow material to enter the cutting chamber but prevent pieces from being thrown out at high speed.
- 8 **Machine offset** The Bisonte and Tigre flail mowers come as standard with hydraulically adjusted offset. Both systems allow the 3 point linkage frame to slide along a front bar to selecting the offset in either a left or right direction.
- 9 **Pair of side skids** A pair of hard wearing protective skids prevent wear to the machine and allow the operator to adjust the cutting length.
- 10 **Long life bearings** The Bisonte and Tigre flail mowers use barrel roller bearings, each bearing has a double rail consisting of two rows of spherical or barrel bearings to cope with heavy workloads. All bearings used in Maschio flail mowers are produced by SKF, the worlds largest bearing manufacturer.

**Main Advantages:**

- Long Life (up to 30% longer life than traditional taper roller bearings).
  - High load capacity (shock resistance). Easy maintenance (one of Maschio's main philosophies).
- 11 **Double skin frame** The double skin frame on the Bisonte and Tigre re-enforces the main structure of the machine and also protects the external skin from wear and damage from debris inside the flail mower during work.

**MODEL SPECIFICATIONS**

	Models	HP	Working width (m)	Total width (m)	No. of hammers	Weight (kg)	PTO/RPM
BISONTE	220	50-110	2.26	2.49	20	820	1000
	250	80-110	2.57	2.8	20	888	1000
	280	90-110	2.76	2.99	24	944	1000
	300	100-110	2.98	3.21	24	995	1000
TIGRE	210	55-140	2.1	2.33	16	775	540
	230	60-140	2.3	2.49	20	810	540
	250	65-140	2.5	2.8	20	880	540
	280	70-140	2.8	2.99	24	925	540
	300	90-140	3.0	3.21	24	955	540

	Models	Machine offset (cm)	
BISONTE	220	113 73	113 153
	250	129 89	128 168
	280	138 98	138 178
	300	149 109	149 189
TIGRE	210	119 69	91 141
	230	130 80	96 146
	250	144 94	113 163
	280	159 109	117 167
	300	159 109	139 189

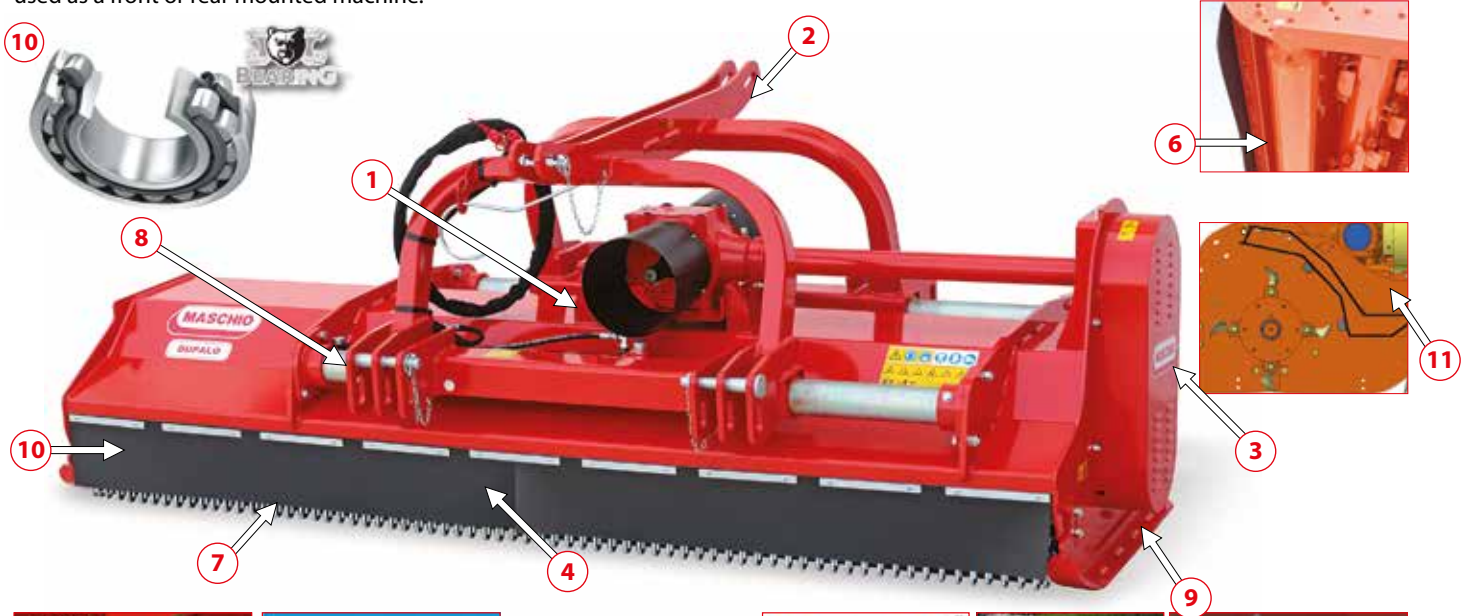


# HEAVY DUTY FLAIL MOWER

## BUFALO - front or rear mounted

100 - 200 hp

The BUFALO flail mower is the new heavy duty big brother to the BISONTE model with upgraded transmission and driveline, to cope with higher horsepower tractors (up to 200hp). Suitable for cutting grass, crop residues, maize stalks and shredding branches or twigs. It can be used as a front or rear mounted machine.



**1 PTO gearbox** The Buffalo uses a self contained gearbox with an input speed of 1000rpm, the gearbox has a 6 spline output shaft on each side allowing the Buffalo to be used as a front or rear mounted flail mower.

**2 Linkage mounting** The Buffalo flail mower is supplied as standard with category II three point hitches to connect to the tractor. The Buffalo has a second category II three point hitch that allows it to be either a front or rear mounted machine.

**3 Transmission belt** The Buffalo flail mower is equipped with 5 toothed transmission drive belts to transfer power to the rotor. The toothed drive belts allow slip proof engagement preventing power from the transmission being reduced due to heavy loads or general wear.

**4 Blades and hammer kits** Hammer flails are standard and fish tail flails optional. The self sharpening hammer flail leaves a clean and level cut and lifts and mulches while cutting, whereas the fish tail flail is used for cutting dense tougher material. The hammers and blades bolt onto an electronically balanced rotor that minimises machine vibration and stress on the bearings.

**5 Counter blades** Double counter blades are standard. An internal lower toothed counter blade and one upper counter blade that ensure that the discharged material is mulched into fine pieces. The upper counter blade enables the Buffalo to produce a finer mulch of harder coarser materials.

**6 Adjustable rear roller** The Buffalo flail mower has an internal rear roller. Debris is discharged behind the roller, ensuring efficient discharge of

material. The internal position unloads the material behind the roller and is recommended for grass cutting.

**7 Protective front chains and rubber guard** Front chains and rubber guards allow material to enter the cutting chamber but prevent pieces from being thrown out at high speed.

**8 Hydraulic offset** The Buffalo flail mower comes as standard with hydraulically adjusted offset. It utilises a hydraulic system to allow the 3 point linkage frame to slide along a front bar to select the offset in either a left or right direction.

**9 Pair of adjustable side skids** A pair of hard wearing protective skids prevent wear to the machine and allow the operator to adjust the cutting length.

**10 Long life bearings** The Buffalo flail mower uses barrel roller bearings, each bearing has a double rail consisting of two rows of spherical or barrel bearings to cope with heavy workloads. All bearings used in Maschio flail mowers are produced by SKF, the worlds largest bearing manufacturer.

- **Long Life** (up to 30% longer life than traditional taper roller bearings)
- **High Load Capacity** (shock resistance)
- **Easy Maintenance** (one of Maschio's main philosophies)

**11 Double skin frame** The double skin frame re-enforces the main structure of the machine and also protects the external skin from wear and damage from debris inside the flail mower during work.

## MODEL SPECIFICATIONS

Models	HP	Working width (m)	Total width (m)	Weight (kg)	No. of hammers	PTO/RPM	Machine offset (cm)	
							Left	Right
BUFALO	250	100-200	2.57	2.7	1190	26	129	121
	280	120-200	2.76	2.99	1250	28	139	141
	300	140-200	2.98	3.3	1300	30	154	156
BUFALO	250						79	171
	280						89	191
	300						104	206



# FOLDING FLAIL MOWERS

MASCHIO

## GEMELLA

120 - 300 hp

The Gemella flail mower is a heavy duty model, designed for use on medium large sized agricultural tractors from 120 to 300hp and is typically used for agricultural applications.

Suitable for cutting grass, crop residues, cornstalks and shredding branches or twigs.



**1 PTO gearbox** The Gemella uses a self contained over-run gearbox with an input speed of 1000rpm, the over-run function prevents shock loads from being applied to the flail mower transmission when the tractor PTO is switched off.

**2 Linkage mounting** Dual category II and III three point hitches to connect to the tractor, the dual hitch consists of two holes and pins on each attaching bracket, one CAT II and one CAT III.

**3 Transmission belt** The Gemella flail mower is equipped with 5 toothed transmission drive belts per unit to transfer power to the rotor. The toothed drive belts allow slip proof engagement preventing power from the transmission being reduced due to heavy loads or general wear.

**4 Blades and hammers** Hammer flails are standard and fish tail flails optional. The self sharpening hammer flail leaves a clean and level cut and it lifts and mulches while cutting, whereas the fish tail flail is used for cutting dense tougher material. The hammers and blades bolt onto an electronically balanced rotor that minimises machine vibration and stresses on the bearings.

**5 Counter blade** The Gemella flail mower has an internal lower counter blade that ensures that the discharged material is mulched into fine pieces.

**6 Adjustable rear roller** Height adjustment is controlled by the external rear roller on the Gemella flail mower. Wheels are available as an option.

**7 Front safety flaps** Steel front safety flaps allow material to enter the cutting chamber but prevent pieces from being thrown out at high speed.

**8 Transport** The Gemella flail mower has a transport width of 2.4m with hydraulic safety locks for easy safe transport.

**9 Rotor layout** A helical type rotor with spiral effect flail mounting points on the rotor gives a more even rotation and reduces vibration and power requirement from the tractor.

**10 Transport lights** The Gemella flail mower comes with transport lights as standard.

**11 Floating system** The floating link allows the Gemella to continuously cut more at a constant length on undulating ground and banks giving the Gemella flail mower 3 degrees upward movement on each wing. The floating function can be deactivated by simply moving the locking pin.

**12 Double skin frame** The Gemella features a double skin frame that re-enforces the main structure of the machine and also protects the external skin from wear and damage from debris inside during work.

**13 Central mower kit** This new hydraulic twin-blade cutting device has been designed to be attached at the rear, ensuring full management of residue in the field. Available as an optional extra.

**14 Depth wheel** Both models can be fitted with optional rear pivoting wheels.

## MODEL SPECIFICATIONS

	Models	HP	Working width (m)	Total width (m)	Transport width (folded cm)	No. of hammers	Weight (kg)	PTO/RPM
GEMELLA	470	120-300	4.65	5.02	2.4	98	2500	1000
	620	150-300	6.20	6.57	2.4	128	2925	1000

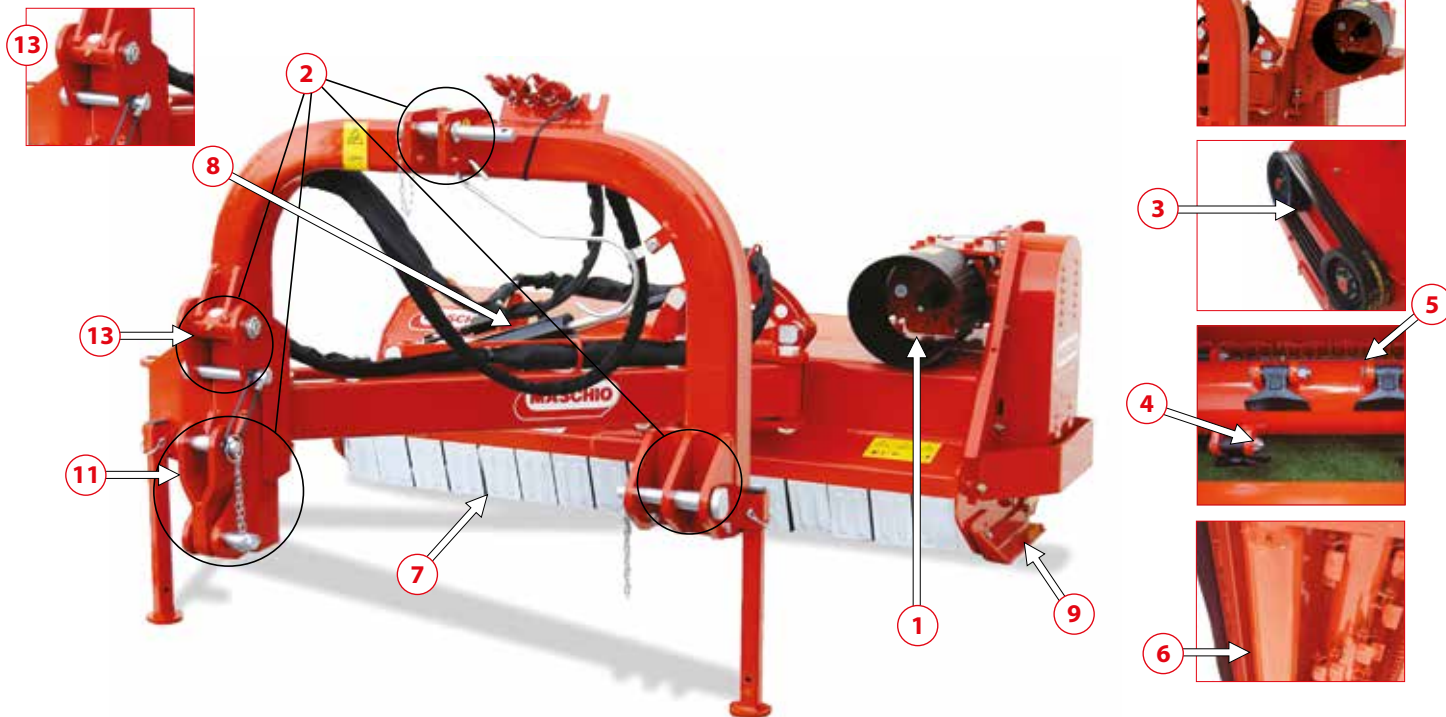
# MEDIUM & HEAVY DUTY OFFSET FLAIL

## GIRAFFA

40 - 100 hp

The Giraffa flail mower is one of the offset models, designed for use on small to medium sized agricultural tractors from 40 to 100hp and is typically used for amenity and agricultural applications.

It is suitable for cutting grass, road side clearance and shredding branches or twigs.

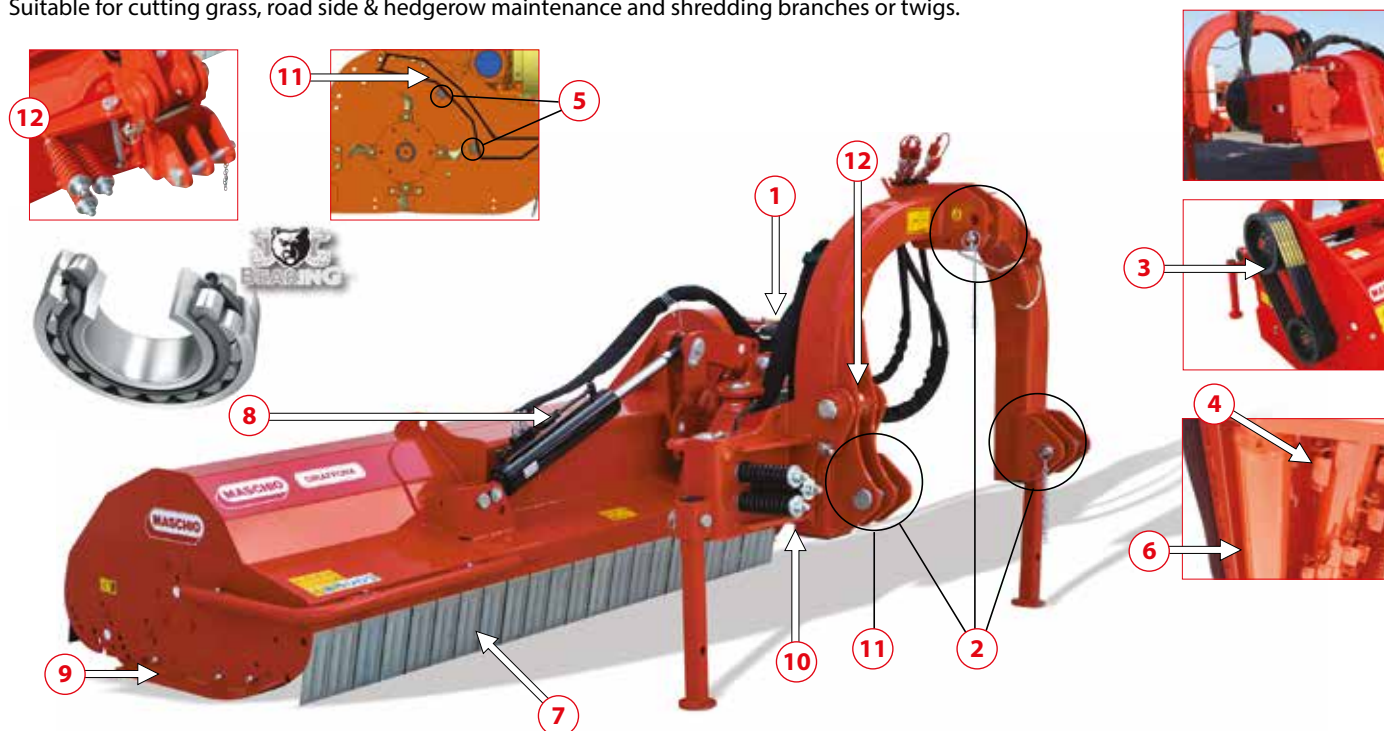


## GIRAFFONA

120 - 200 hp

The Giraffona flail mower is the heavy duty offset model, designed for medium sized agricultural tractors from 120 to 200hp and is typically used for amenity and agricultural applications.

Suitable for cutting grass, road side & hedgerow maintenance and shredding branches or twigs.







**1 PTO gearbox** The Giraffa and Giraffona flail mowers use a self contained 540 rpm over-run gearbox. There are two versions of each Giraffa model size, one with an internally mounted gearbox (SI) and one with an externally mounted gearbox (SE) which gives it an extra 44cm reach compared to the internal models.

**2 Linkage mounting** The Giraffa and Giraffona use category II or III three point hitches to connect to the tractor depending on the size of the model.

**3 Transmission belt** The Giraffa is equipped with 4 toothed transmission belts and the Giraffona 5 toothed transmission belts to transfer power to the rotor. The toothed drive belts allow slip proof engagement preventing power from the transmission being reduced due to heavy loads or general wear.

**4 Blades and hammers** Hammer flails are standard and fish tail flails optional. The self sharpening hammer flail leaves a clean and level cut and lifts and mulches while cutting. The fish tail flail is used for cutting dense tougher material. The hammers and blades bolt onto the rotor which is electronically balanced to minimise machine vibration and stresses on the bearings.

**5 Counter blade** The Giraffa flail mower comes as standard with an internal lower toothed counter blade which ensures that the discharged material is mulched into fine pieces. The Giraffona comes as standard with double counter blades, the additional upper counter blade produces a finer mulch of harder coarser materials. The upper counter blade is available as an optional extra on the Giraffa.

**6 Adjustable rear roller** The Giraffa and Giraffona flail mowers have an internal rear roller position.



Giraffa only

The Giraffa and Giraffona flail mower has an internal rear roller. Debris is discharged behind the roller, ensuring efficient discharge of material. The internal position unloads the material behind the roller.

**7 Front safety flaps** Steel front safety flaps allow material to enter the cutting chamber but prevent pieces from being thrown out at high speed.

**8 Hydraulic offset** The Giraffa and Giraffona flail mowers come as standard with hydraulically adjusted side and incline offset. They utilise a hydraulic system to allow the machine to work either directly behind the tractor or to the side enabling the user to reach far beyond the profile of the tractor and the ability to work on vertical or steep sloping surfaces.

**9 Pair of side skids** A pair of hard wearing protective skids prevent wear to the machine and allow the operator to adjust the cutting length.

**10 Mechanical shock-absorber** If obstructions are encountered, a safety system ensures that the machine retracts and then returns automatically.

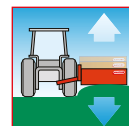


Giraffa

Giraffona

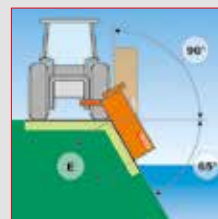
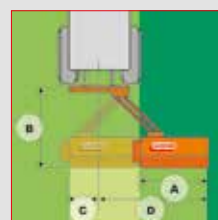
**11 Double skin frame** The Giraffona features a double skin frame that re-enforces the main structure of the machine and also protects the external skin from wear and damage from debris inside the flail mower during work (option on the Giraffa).

**12 Floating Head System** The flail head is fully floating allowing it to follow the contours of the ground.



## MODEL SPECIFICATIONS

	Models	HP	Working width (m)	Total width (m)	No. of hammers	Weight (kg)	PTO/RPM	A (cm)	B (cm)	C (cm)	D (cm)	E (cm)
GIRAFFA	160 SI	40-100	1.57	1.77	16	688	540	157	170	80	221	122
	185 SI	60-100	1.9	2.1	20	746	540	190	170	80	251	155
	210 SI	70-100	2.12	2.32	22	774	540	212	170	80	276	177
	160 SE	40-100	1.57	1.98	16	710	540	157	170	35	265	150
	185 SE	60-100	1.9	2.31	20	750	540	190	170	35	295	183
	210 SE	70-100	2.12	2.53	22	778	540	212	170	35	320	205
GIRAFFONA	210	120-200	2.1	2.64	16	1075	540	210	238	50	318	200
	230	130-200	2.26	2.78	20	1110	540	226	238	50	334	216
	260	140-200	2.57	3.08	20	1220	540	257	238	50	365	247



# ACCESSORIES



Pair of skids



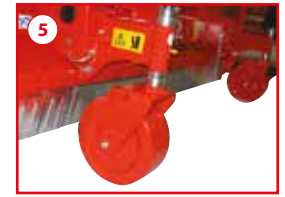
Mechanical sideshift



Hydraulic sideshift



Lower counter-blade



Front fixed wheels (pair)



Upper counter-blade



Double skin frame



Collecting rakes



Rear steering wheels (pair)



Front/Rear PTO



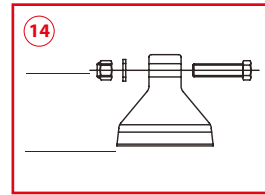
Multi-aggressive rotor



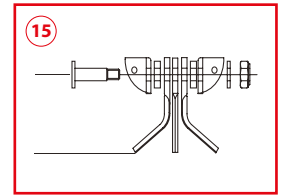
Lighting kit



Linkage for CAT II & III



Hammer flail

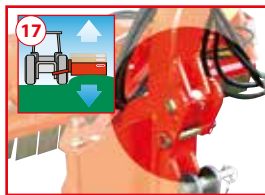


Fish tail flail

## OFFSET FLAIL MOWERS



Pin safety lock for transport



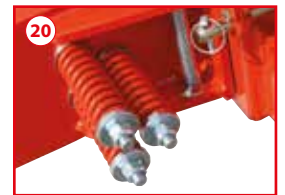
Three point hitch with mechanised floating device



Hydraulic offset



Hydraulic adjustment for sloped ditch mowing



Mechanical shock absorber

For graphic reasons, some pictures and images do not show the "EU" safety guards. Technical data and models shown in this catalogue are not binding. We reserve the right to revise the contents of this catalogue, to amend or improve the specifications without notice.

## STANDARD and OPTIONAL EQUIPMENT

● Standard ○ Optional

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
BARBI	○	●	○	●										●	○					
BRAVA	○	●	○	●		○	○	○						●	○					
BELLA	○	●	○	●	○	○	○			○				●	○					
BISONTE	●		●	●		●	●			●				●	○					
TIGRE	○	●	●	●		●	●	○	○					●	○					
BUFALO	●		●	●	○	●	●			●			●	●	○					
GIRAFFA	●		●	●		○	○				○		●	●	○	●	●	●	●	●
GIRAFFONA	●		●	●		●	●						●	●	○	●	●	●	●	●
GEMELLA	●			●		●	●		○			●		●	○					



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