

FLAIL MULCHER

Bowell MFZpro Flail Mower

Professional heavy-duty flail mower with side shift for 30-80 hp tractors



KEY FEATURES

- For tractors with Cat. 1 / 2 three-point linkage
- Performance rotor shaft with spiral arrangement of 1.2 kg hammer flails
- Reinforced rotor shaft with 127 mm diameter and 10 mm wall thickness
- Up to approx. 100 cm grass height
- 135 to 220 cm working width
- Large rear service hatch
- Shreds branches up to 50 mm in diameter
- 50 cm hydraulic side shift

Bowell MFZpro flail mower

Applications of the mower

The **Bowell MFZpro flail mower series** offers professional technology for small and medium-sized tractors and is equipped with reinforced **free-wheel angular gearboxes** from the Italian manufacturer **Comer**. In addition, the MFZpro series is fitted with a hydraulic system that allows the mower to be shifted 52 cm to the right in the direction of travel. This makes it possible to work further to the right of the tractor than with a fixed flail mower. The hydraulic system allows you to mow comfortably around obstacles such as trees, fence posts or road signs without having to use the tractor's steering. With a working width of up to 220 cm available, the robust MFZpro mowers can be optimally adapted to the power and width of your tractor and the area to be managed. The 220 cm model features a further **reinforced 3-point hitch**, which accommodates the machine's heavy weight.

The Bowell MFZpro mulchers are therefore **particularly** well suited **for use in fruit and vine cultivation** or in tree nurseries, where prunings lie on the ground and need to be mulched. Woodland meadows with a lot of deadwood in the grass can also be worked exceptionally well.

Bowell MFZpro flail mowers are factory-fitted with **Bowell Power Efficiency technology**. If your tractor supports a 1000 rpm PTO speed in addition to the standard 540 rpm, you can also use the Bowell MFZpro mulchers at this higher speed. Simply swap the upper pulley for the lower pulley on the belt drive and you can achieve the same output much more efficiently and with lower fuel consumption. **Save fuel** with the new Bowell Power Efficiency technology, at no extra cost, right from the very first metre.

MFZpro mowers can be used **effectively on medium-sized areas** with a grass height of up to 100 cm, where mowing is required only two or three times a year.

Woody plant material up to 50 mm in diameter, twigs, small branches and even small bushes are reliably shredded by the MFZpro mower thanks to the special serrated hammer flails, each weighing approx. 1.2 kg. MFZpro mowers are true all-round **flail mowers for tractors** with to 80 hp, as they are suitable for both light tasks such as regular mowing of horse pastures and for clearing significantly thicker vegetation, whilst remaining extremely competitively priced flail mowers.



Technology of the MFZpro mower

Depending on the working width, the **MFZpro flail mowers** are equipped with 10 to 18 of the heavy, hardened, approximately 1.2 kg new Bowell **high-performance flails**, which ensure an optimal mowing result even with stubborn undergrowth, scrub and woody debris up to 50 mm in diameter. The newly developed, replaceable counter blades inside the flail mowers ensure an optimal result even with stubborn undergrowth and scrub.

The cutting height is adjusted between 20 and 75 mm using the heavy-duty, ball-bearing-mounted, **self-cleaning rear roller**. The **height-adjustable side skids** on the flail mower prevent the mower from digging into the ground on uneven terrain. A support at the front ensures stability when storing the equipment.

The scope of delivery includes a CE-approved PTO shaft with a length of between 80 cm and approximately 110 cm, which can be shortened as required for your application.

The reinforced **Comer freewheel gearbox** on the mower ensures that the heavy flail shaft can continue to run after the **PTO drive** has been switched off, without the movement being transmitted to the tractor. The metal slats of the stone guard fitted to the front of the flail mower prevent stones and other foreign objects from flying off.

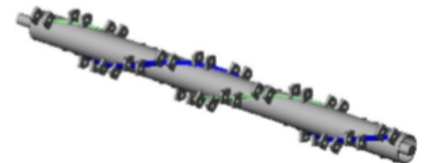


SKF ball bearings with Performance rotor shaft

Beneath the robust 5 mm to 8 mm thick housing of the MFZpro mowers lies a laser-balanced rotor shaft fitted with 10 to 18 hardened, high-performance flails, each weighing approximately 1.2 kg. The flails have bevelled surfaces on the inside, to which debris can hardly adhere. A further improved, **spiral arrangement of the flails** on the rotor shaft guarantees maximum performance with minimum effort required from the tractor. The MFZpro series mulchers are equipped with reinforced rotor shafts, which have a **diameter of 127 mm** and a **wall thickness of 10 mm**. The larger diameter also increases the **flail speed** from the previous 41 m/s to 46.5 m/s, thereby enhancing their performance.

The new Bowell MFZpro mowers are fitted with **SKF ball bearings**, which are protected from external influences by solid, CNC-machined bearing housings. The stainless steel grease nipples are mounted on the outside of the mulcher housing for easy access and are protected against contamination and damage by additional metal rings.

The **rotor shaft** of the mowers rotates, driven by the tractor's PTO shaft at up to 2200 rpm, and shreds the cut material to a minimum so that it can decompose quickly. The heavy-duty, ball-bearing-mounted **rear roller** ensures smooth operation.



The drive shaft is included in the scope of delivery of the Bowell MFZpro flail mowers, as is the gearbox oil, which is already filled at the factory. The comprehensive operating manual explains the assembly, commissioning and maintenance of the mowers in detail and also provides exploded views of the flail mower's construction.

In addition to the PTO shaft, the heavy-duty metal tines are also included in the scope of delivery; these can be fitted to the rear of the mulcher if required. These metal tines fit into the gaps between the **special serrated hammer flails** used by in MFZpro and MXZpro mulchers. These ensure that branches are thrown back into the flail mower until they have been chopped down to a size small enough to pass through the row of solid steel tines.

The **Bowell MFZpro flail mowers** are therefore capable of thoroughly shredding even coarser **branches**. Whilst the MFZpro is often used in **orchards and vineyards** in Northern Europe, olive groves are its preferred application in Southern Europe. The metal tines can be removed for standard mulching work.

The unit is delivered fully assembled in sturdy Bowell wooden crates. Only the **Cat 1 three-point hitch** (Cat 2 bushings are included) and the front safety bar need to be fitted to the mower, which takes around 30 minutes.



Mower with drive system and 4 drive belts

Like all Bowell mowers, Bowell MFZpro mowers are equipped with an electronically **fine-balanced flail shaft**. All working widths in the MFZpro series feature a powerful 4-belt drive with **reinforced pulleys**, which enables almost 100% power transmission even with a high flail weight, with barely measurable power loss and minimal wear.

The **belt cover** allows you to check the belt tension without having to remove the cover from the flail mower. This makes servicing and maintenance much easier.



What are the benefits of a mulcher's hydraulic side shift for me?

Bowell MFZpro mulchers can be shifted 50 cm to the right in the direction of travel. This makes it possible to mow a larger area to the right of a tractor's right rear wheel. In other words: you can keep the tractor further away from the edge of the mowing area, or even mulch under a fence alongside which you are driving the tractor.

Just as important is the ease with which the hydraulics allow you to navigate around obstacles such as trees, fence posts or road signs. These can be navigated without complex steering manoeuvres, as the mulcher in front of the obstacle simply needs to be moved briefly to the right and then back to the left using the hydraulics. A double-acting control unit is required so that your tractor can control the hydraulics.



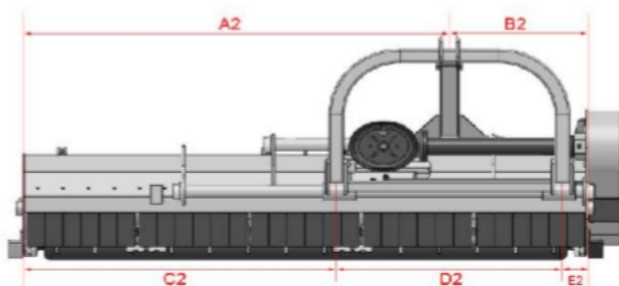
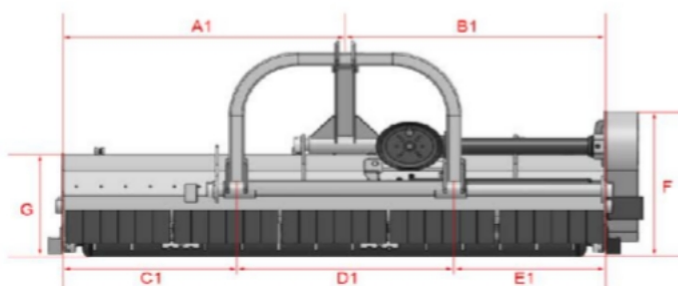
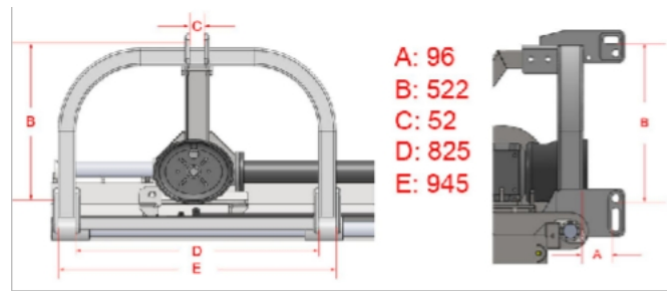
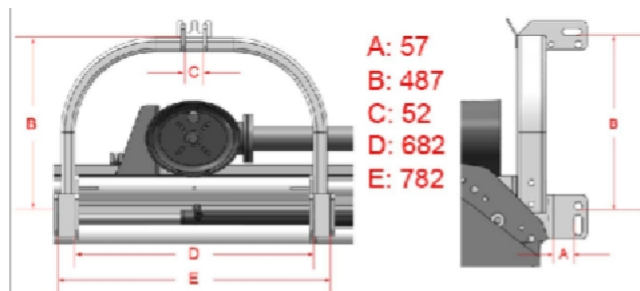
How is the MFZpro mulcher positioned behind your tractor?

The reference point is always the centre of your tractor, i.e. where the PTO shaft is located.

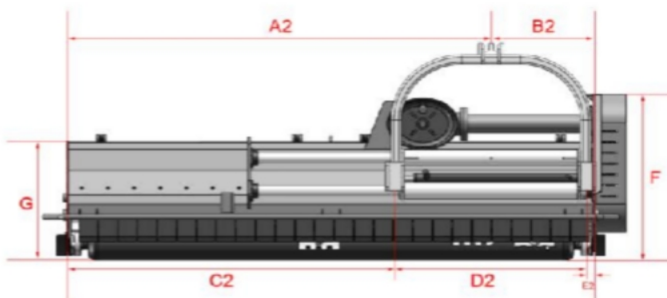
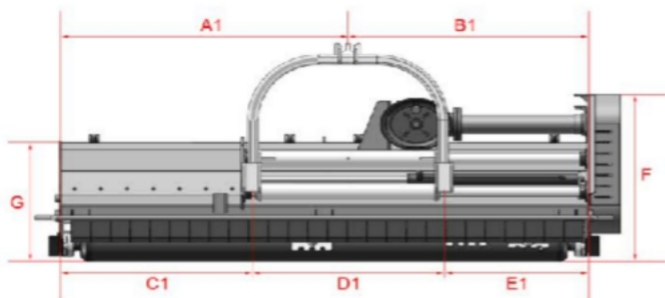
Let's assume your tractor is 90 cm wide from its centre to the outer edge of the right-hand tyre (i.e. 180 cm total width); in that case, the mulcher should extend more than 90 cm to the right of the tractor's centre. This allows the mulcher to mow to the right of the right-hand rear wheel as well. This would allow you, for example, to keep the tractor at a slight distance from a fence, bush, tree or shed whilst still mowing flush with the edge.

The three-point hitch can be moved hydraulically on the mower housing. The respective end points are marked here as A1, B1 etc. and A2, B2 etc.

If, in the example chosen here, the mower is to extend more than 90 cm to the right of the centre of the tractor, the MFZpro-155 would be sufficient (A2 = 1166 mm); however, with the MFZpro-175 you could achieve over 45 cm (A2 = 1366 mm). These values may not be sufficient for you, as you are mowing under a low tree and do not want to snap its branches. Provided your tractor has sufficient power, you could choose the MFZpro-200 (A2 = 1616 mm), which can even mow more than 70 cm to the right of your tractor's rear right wheel. In addition, the MFZpro-220 is also available, although its power requirements will likely necessitate a wider tractor.



	A1(mm)	B1(mm)	C1(mm)	D1(mm)	E1(mm)	F(mm)	G(mm)	A2(mm)	B2(mm)	C2(mm)	D2(mm)	E2(mm)
EFGCHpro-220	1153	1063	711	885	621	638	456	1673	543	1231	885	101



	A1(mm)	B1(mm)	C1(mm)	D1(mm)	E1(mm)	F(mm)	G(mm)	A2(mm)	B2(mm)	C2(mm)	D2(mm)	E2(mm)
EFGCHpro-135	446	916	81	730	551	684	495	966	396	601	730	31
EFGCHpro-155	646	916	281	730	551	684	495	1166	396	801	730	31
EFGCHpro-175	846	916	481	730	551	684	495	1366	396	1001	730	31
EFGCHpro-200	1096	916	731	730	551	684	495	1616	396	1251	730	31

TECHNICAL SPECIFICATIONS	MFZpro-135	MFZpro-155	MFZpro-175	MFZpro-200	MFZpro-220
Dimensions (LxWxH) cm	155x90x89	175x90x89	195x90x89	220x90x89	242x107x95
Total weight incl. drive shaft kg	410	430	450	474	565
Working width cm	135	155	175	200	220
Recommended grass height (cm)	< 100				
Adjustable cutting height mm	20–75				
3-point tractor hitch	Cat 1 (Cat 2 bushings included)				CAT 1 + 2
Tractor PTO clockwise rpm	540 / 1000				
PTO shaft length mm	1000				
Distance from top link pin to ground min/max mm	827 / 910				878 / 983
Distance from lower link pin to ground min/max mm	342 / 425				358 / 463
Distance from PTO connection to ground (min/max) mm	565 / 613				487 / 547
Hydraulic side shift cm	52				
Length of hydraulic lines from lower link cm	175				
Working capacity (approx. values) m ² /h	5500–11000	6200–12400	7,000–14,000	8,800–15,600	10,000–17,000
V-belt quantity / width mm	4 / 17				
Recommended tractor engine power HP/kW	30–45/22–33	35–45/26–33	40–55/29–40	55–65/40–48	65–75/48–55
Rotor shaft diameter / wall thickness mm	127 / 10				
Follow-up roller diameter / wall thickness mm	133 / 5				
Rotor shaft diameter (rotating) mm	387				
Flatter speed m/s	46.5				
Housing material thickness mm	5				5
Side panel thickness mm	6				8
Paint finish	Powder coating				
Mallet shape, weight kg	Hammer, hardened, approx. 1.2				
Number of hammers	10	12	14	16	18
rpm rotor shaft	2295				
Transport crate (LxWxH) cm	160x95x78	180x95x78	200x95x78	225x95x78	245x110x78

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