

FLAIL MULCHER

Bowell EFMEpro flail mower

Professional medium-duty front/rear flail mower
- also available with side shift for 40-75 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
- 175 to 220 cm working width
- Can be switched between front and rear mounting at any time (EFMEpro series)
- 50 cm hydraulic side shift (EFMEHpro series)
- Dual 3-point mounting for front and rear mounting (EFMEHpro series)

Bowell EFMEpro flail mower

Applications of the mower

The Bowell EFMEpro flail mower series offers professional technology for small and medium-sized tractors and is fitted with reinforced **free-wheel bevel gearboxes** from the Italian manufacturer **Comer**. The EFMEpro flail mowers can be mounted **on both the front and rear of the tractor**, as the gearbox naturally also supports the 1000 rpm of the front PTO. In addition, the EFMEHpro series is equipped with a hydraulic system that allows the flail mower to be shifted 50 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 hydraulics make it easy to mow around obstacles such as trees, fence posts or road signs without having to use the tractor's steering. With an available working width of up to 220 cm, the robust EFMEpro and EFMEHpro mowers can be optimally adapted to the power and width of your tractor and the area to be managed.

Bowell EFMEpro 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 EFMEpro mowers 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.

EFMEpro 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 35 mm in diameter, twigs, small branches and even small bushes are reliably shredded by the EFMEpro mower thanks to its hammer flails, which weigh approximately 1.2 kg. EFMEpro mowers are true all-round **flail mowers for tractors** up to 75 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 EFMEpro mower

Depending on the working width, the EFMEpro flail mowers are equipped with 16 to 20 of the heavy, hardened, approx. 1.2 kg new Bowell high-performance **flails**.

The newly developed, replaceable counter blades inside the flail mowers ensure optimum results even with stubborn undergrowth and scrub.

The cutting height can be 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 when encountering uneven terrain. A support at the front ensures stability when the equipment is stored.

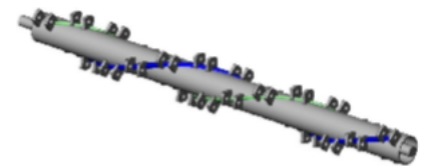
The scope of delivery includes a CE-approved PTO shaft with a length of between 80 cm and approximately 110 cm, which can be shortened as required for your application.

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 EFMEpro mowers lies a laser-balanced rotor shaft fitted with 16 to 20 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 EFMEpro 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 EFMEpro 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 cuttings to a minimum so that they can decompose quickly. The heavy-duty, ball-bearing-mounted **trailing roller** ensures smooth operation.

The drive shaft is included in the scope of delivery of the Bowell EFMEpro 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.

Delivery is fully assembled in sturdy Bowell wooden crates. Only the **Cat 1 three-point hitch** (Cat 2 bushings are included in the scope of delivery) and the front safety bar still need to be fitted to the mower, which takes approx. 30 minutes.



Mower unit with drive system and 4 drive belts

Like all Bowell mowers, Bowell EFMEpro mowers are equipped with an electronically **fine-balanced flail shaft**. All working widths in the EFMEpro and EFMEHpro series feature a powerful 4-belt drive system 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 your servicing and maintenance work considerably easier.



How is the EFMEpro / EFMEHpro 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 110 cm wide from its centre to the outer edge of the right-hand tyre (i.e. 220 cm total width); in that case, the mulcher should extend more than 110 cm to the right of the tractor's centre. This allows the mulcher to mow to the right of the right-hand rear wheel. 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 with

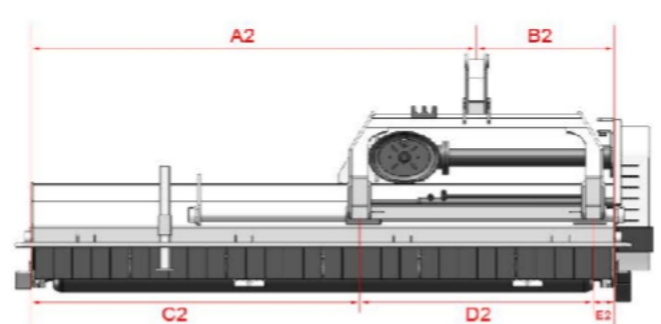
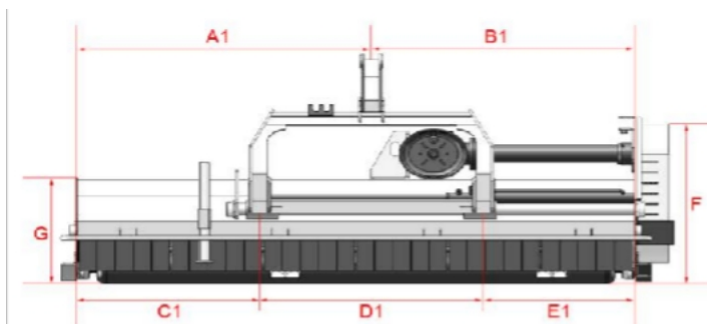
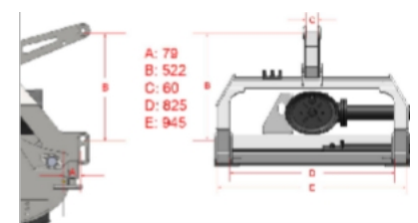
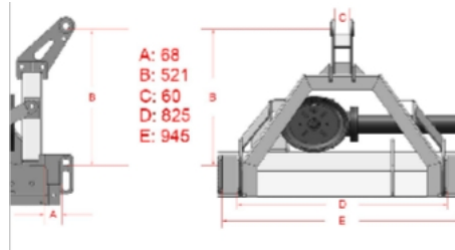
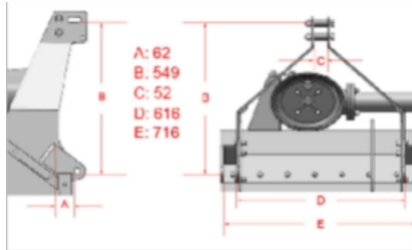
A1, B1 etc. and A2, B2 etc.

If, in the example chosen here, the mower is to extend more than 110 cm to the right of the tractor's centre, the EFMEpro-175 would only just be sufficient (A1 = 1154 mm); however, with the EFMEpro-200, you could achieve over 30 cm (A1 = 1404 mm). It is possible that even these values are not 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 EFMEHpro-220 (with hydraulic offset) (A2 = 1689 mm), which can even mow just under 60 cm to the right of your tractor's rear or front wheel.

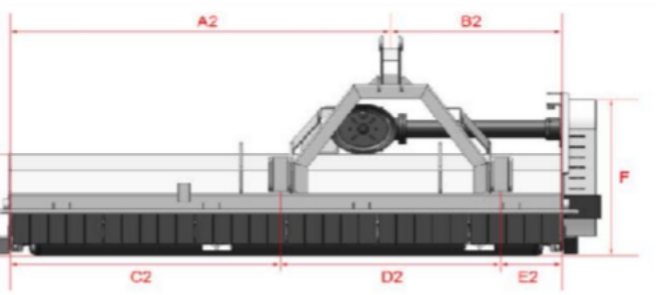
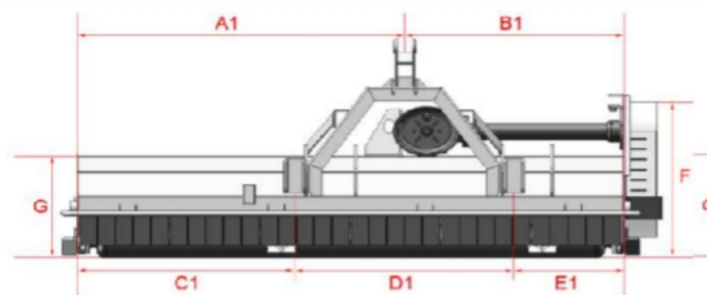
EFMEpro-175 / 200

EFMEpro-220

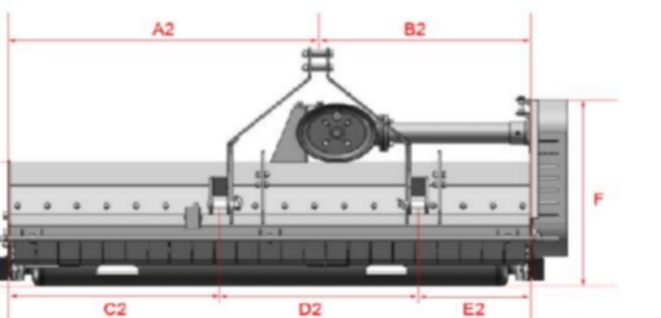
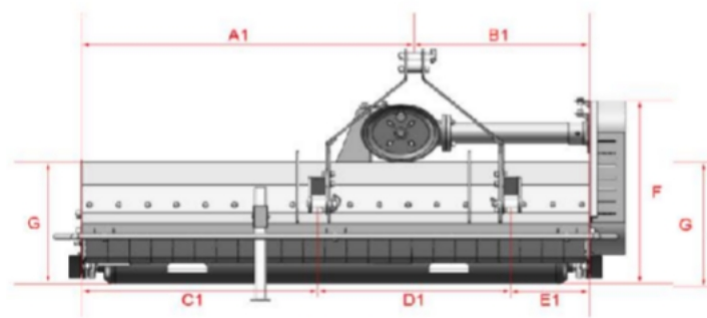
EFMEpro-200 / 220



	A1(mm)	B1(mm)	C1(mm)	D1(mm)	E1(mm)	F(mm)	G(mm)	A2(mm)	B2(mm)	C2(mm)	D2(mm)	E2(mm)
EFMEHpro-200	969	1047	527	885	605	679	448	1489	527	1047	885	85
EFMEHpro-220	1169	1047	727	885	605	679	448	1689	527	1247	885	85



	A1(mm)	B1(mm)	C1(mm)	D1(mm)	E1(mm)	F(mm)	G(mm)	A2(mm)	B2(mm)	C2(mm)	D2(mm)	E2(mm)
EFMEpro-220	1325	891	884	883	450	679	448	1525	691	1084	883	250



	A1(mm)	B1(mm)	C1(mm)	D1(mm)	E1(mm)	F(mm)	G(mm)	A2(mm)	B2(mm)	C2(mm)	D2(mm)	E2(mm)
EFMEpro-175	1154	608	821	666	275	679	459	1046	716	713	666	383
EFMEpro-200	1404	608	1071	666	275	679	459	1296	716	963	666	383

TECHNICAL SPECIFICATIONS	EFMEpro-175	EFMEpro-200	EFMEHpro-200	EFMEHpro-220
Dimensions (LxWxH) cm	195x86x88	220x86x88	220x107x95	240x107x102
Total weight incl. drive shaft kg	359	377	489	578
Working width cm	175	200	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	844 / 891		945 / 1005	
Distance from lower link pin to ground (min/max) mm	299 / 346		380 / 485	
Distance from PTO connection to ground min/max mm	560 / 608		551 / 611	
Hydraulic side shift cm			52	
Length of hydraulic lines from lower link cm			175	
Working capacity (approx. values) m ² /h	7000–14000	8800–15600	8800–15600	10,000–17,000
V-belt quantity / width mm	4 / 17			
Recommended tractor engine power HP/kW	40–50/29–37	50–60/37–45	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/sec	46.5			
Housing material thickness mm	5		5	
Side panel material thickness () mm	6		8	
Paint finish	Powder coating			
Mallet shape, weight kg	Hammer, hardened, approx. 1.2			
Number of hammers	16	18	18	20
rpm rotor shaft	2295			
Transport crate (LxWxH) cm	200x90x78	225x90x78	225x110x78	245x110x78

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