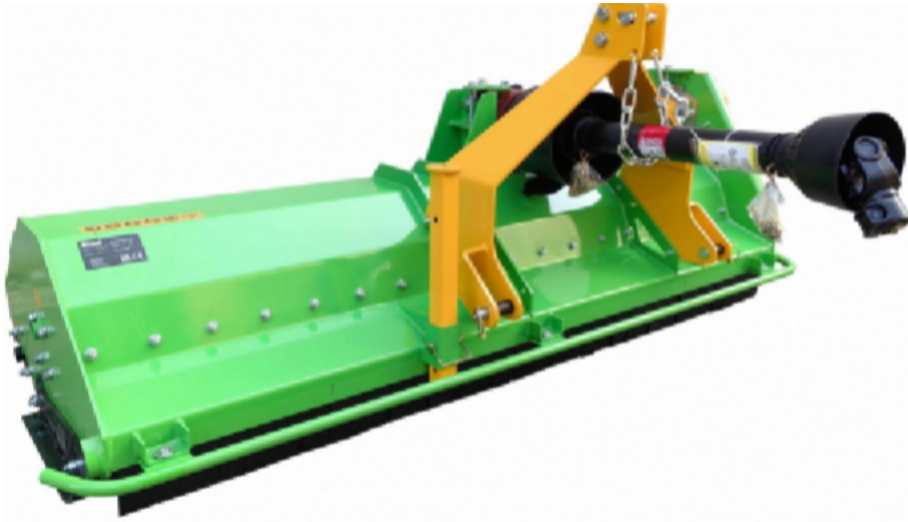


## FLAP MULCHER

# Bowell EFGC Flail Mower

Medium-duty flail mower for 25–65 hp tractors



### KEY FEATURES

High performance rotor shaft with spiral arranged hammer flails

- 800 g hardened hammer flails Up
- to approx. 75 cm grass height
- 
- 

For 25–65 hp tractors

- Gearbox by COMER (Italy)
- Easy belt tension check without tools
- 
- 

FLAP MOWER

## Bowell EFGC flail mower

### Applications of the mower

The Bowell EFGC flail mower series is equipped with reinforced **free-wheel** bevel **gearboxes** from the Italian manufacturer **Comer**. With a working width of up to 195 cm available, the robust EFGC mowers can be optimally adapted to the power and width of your tractor and the area to be cultivated.

Bowell EFGC flail mowers are fitted as standard with the new **Bowell Power Efficiency technology**. If your tractor supports a 1000 rpm PTO speed in addition to the standard 540 rpm, you can also use Bowell EFGC mowers from the 2020 model year onwards 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.

EFGC mowers can be used **effectively on medium-sized areas** with a grass height of up to 75 cm, where mowing is required only two or three times a year.

Woody plant material up to 25 mm in diameter, twigs, small branches and even small bushes are reliably shredded by the EFGC mower. EFGC mowers are true all-round **flail mowers for tractors** with up to 65 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.



### The technology behind the EFGC mower

Depending on the working width, the EFGC flail mowers are equipped with 18 to 28 heavy-duty, hardened 800 g 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 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 when encountering uneven terrain. From the 2020 model year onwards, we use sturdy stainless steel grease nipples. An additional support at the front ensures greater 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.

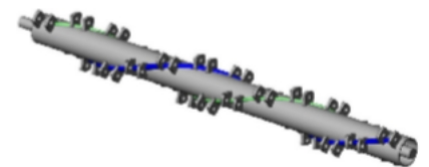
The reinforced **Comer freewheel gearbox** on the mower ensures that the heavy flail shaft can continue to run after the **PTO drive** has been switched off, without the movement being transmitted to the tractor. The metal slats fitted to the front of the flail mower prevent stones and other foreign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



## SKF ball bearings with Performance rotor shaft

Beneath the mowers' sturdy 4 mm or 5 mm thick steel sheet cover lies a laser-balanced rotor shaft fitted with 18 to 28 high-performance, hardened flails, each weighing 800 g ( ). 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 Bowell EFGC mowers are fitted with **SKF ball bearings**, which are protected from external influences in solid, CNC-machined bearing housings. The new stainless steel grease nipples are mounted on the outside of the mulcher housing for easy access and are thus protected against contamination and damage.



The mower's **rotor shaft** 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 as standard with Bowell EFGC flail mowers, as is the gearbox oil, which simply needs to be topped up before commissioning. 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.



The mower is delivered 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 and rear safety bars need to be fitted to the mower, which takes approximately 30 minutes.

## Mower unit with drive system and 4 drive belts

Like all Bowell mowers, Bowell EFGC mowers are equipped with an electronically **fine-balanced flail shaft**, which is driven by three or four 17 mm wide drive belts, depending on the working width of the mower.

From a working width of 175 cm, a 4-speed belt drive with **reinforced pulleys** is used in the mower unit, which enables almost 100% power transmission even with a high flail weight, with barely measurable power loss and minimal wear.

The new **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 EFGC 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 84 cm wide from its centre to the outer edge of the right-hand tyre (i.e. 168 cm total width); in that case, the mulcher should extend more than 84 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**.

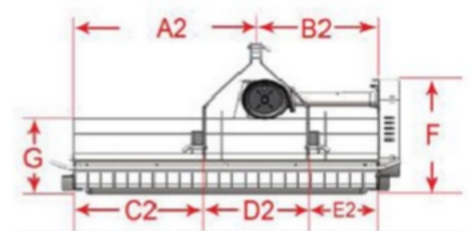
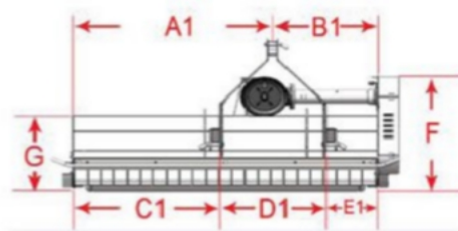
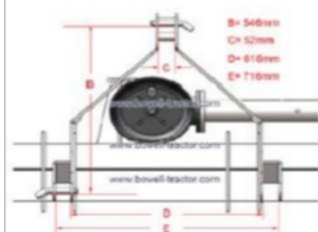
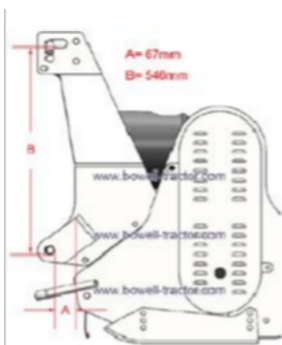
The three-point hitch can be mounted in **two different positions** on the mower housing. These are

marked here as A1, B1 etc. and A2, B2 etc.

If, in the example shown here, the mower is to extend more than 84 cm to the right of the **centre of the tractor**, the EFGC-135 would be too narrow (A1

= 754 mm); however, with the EFGC-155, you could mow 11 cm to the right of the right-hand rear wheel (A1 = 954 mm).

**You may find that these 11 cm are not enough**, as you want to mow just below a fence or bush. Provided your tractor has sufficient power, you could choose the EFGC-175 (A1 = 1154 mm), which can mow 31 cm from the right rear wheel of your tractor, or the EFGC-195, which would even reach over 50 cm in this scenario.



	A1 (mm)	B1 (mm)	C1 (mm)	D1 (mm)	E1 (mm)	F (mm)	G (mm)	A2 (mm)	B2 (mm)	C2 (mm)	D2 (mm)	E2 (mm)
EFGC135	754	608	454	600	308	641	421	604	758	304	600	458
EFGC155	954	608	654	600	308	641	421	804	758	504	600	458
EFGC175	1154	608	854	600	308	641	421	1004	758	704	600	458
EFGC195	1354	608	1054	600	308	641	421	1204	758	904	600	458

TECHNICAL SPECIFICATIONS	EFGC-135	EFGC-155	EFGC-175	EFGC-195
Dimensions (LxWxH) mm	1620x940x840	1820x940x840	2020x940x840	2220x940x840
Total weight incl. drive shaft kg	296	313	336	360
Working width cm	135	155	175	195
Recommended grass height cm	< 70			
Adjustable cutting height mm	20–75			
3-point tractor hitch	Cat 1 (Cat 2 bushings included)			
Tractor PTO clockwise rpm	540 / 1000			
PTO shaft length mm	1000			
Distance from top link pin to ground (min/max) mm	806 / 841			
Distance from lower link pin to ground min/max mm	261 / 296			
Distance from PTO connection to ground min/max mm	523 / 558			
Working capacity (approx. values) m <sup>2</sup> /h	5400–10800	6,200–12,400	7,000–14,000	8800–15600
V-belt quantity / width mm	Mar. 17	Mar 17	Apr. 17	Apr.17
Recommended tractor engine power HP/kW	25–40/18–30	30–40/22–30	40–55/30–40	45–65/33–48
Rotor shaft diameter / wall thickness mm	108 / 8			
Follow-up roller diameter / wall thickness mm	133 / 5			
Rotor shaft diameter (rotating) mm	358			
Flatter speed m/s	41			
Housing material thickness mm	4			5
Side panel material thickness ( ) mm	6			
Paint finish	Powder coating			
Mallet shape	Hammer, hardened			
Number of hammers	18	22	26	28
Flat weight (g)	800			
rpm Rotor shaft	2200			
Transport crate (LxWxH) cm	170x105x84	190x105x84	210x105x84	230x105x84

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