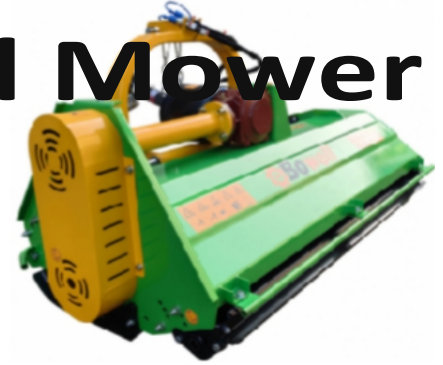


## FLAP MULCHER

# Bowell EFGCH Flail Mower

Medium-duty flail mower with side shift for 30–70 hp tractors



## KEY FEATURES

High performance rotor shaft with spiral arranged hammer flails

- 800 g hardened hammer blades For

- grass heights up to approx. 75 cm



50 cm hydraulic side shift

- Gearbox by COMER (Italy)

- Easy belt tension check without tools



FLAP MOWER

## Bowell EFGCH flail mower

### Applications of the mower

The Bowell EFGCH 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 EFGCH mowers can be optimally adapted to the power and width of your tractor and the area to be mowed.

Bowell EFGCH flail mowers are now 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 the Bowell EFGCH 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.

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

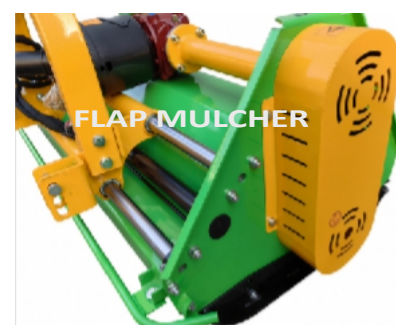
Woody plant material up to 25 mm in diameter, twigs, small branches and even small bushes are reliably shredded by the EFGCH mower. EFGCH mowers are true all-round **flail mowers for tractors** up to 70 hp, as they are suitable for both light tasks such as regular mowing of horse pastures and for clearing significantly thicker vegetation, whilst remaining extremely competitively priced flail mowers.



### Technology of the EFGCH mower

Depending on the working width, the EFGCH flail mowers are fitted 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 mowing performance, even when dealing with stubborn undergrowth and scrub.

...ious manoeuvring in tight bends and makes mowing under fences or around trees much easier. For this function, you will need a double-acting hydraulic control circuit on your tractor.



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. 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 rotate after the **PTO drive** has been disengaged, 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 being thrown about.



## SKF ball bearings with Performance rotor shaft

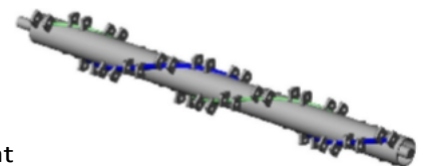
Beneath the mowers' robust **4 mm or 5 mm thick steel sheet cover** lies a laser-balanced rotor shaft fitted with 18 to 28 **hardened high-performance flails**, each **weighing 800 g**. A further improved, spiral arrangement of the flails on the rotor shaft guarantees maximum performance with minimum effort required from the tractor.

The EFGCH 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 rotor shaft of the mowers rotates, driven by the tractor's PTO shaft at up to **2200 rpm**, and shreds the cut material for rapid decomposition. The heavy-duty, ball-bearing-mounted trailing roller ensures smooth operation.

The drive shaft is included with the **Bowell EFGCH flail mower**, as is the gearbox oil, which must be topped up before commissioning. The comprehensive operating instructions provide detailed guidance on assembly, commissioning and maintenance.

The machine is delivered fully assembled in sturdy **Bowell wooden crates**. Only the Cat 1 three-point hitch and the front and rear safety bars need to be fitted.



## Mower unit with drive system and 4 drive belts

Like all Bowell mowers, Bowell EFGCH 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, 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 servicing and maintenance much easier.



### How is the EFGCH mulcher positioned behind your tractor?

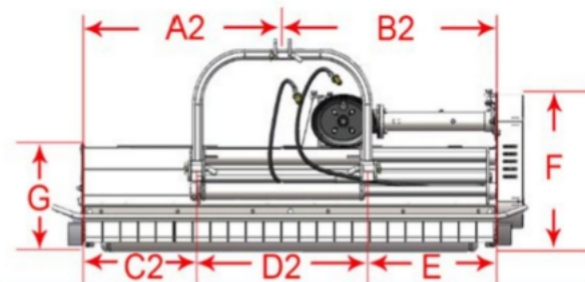
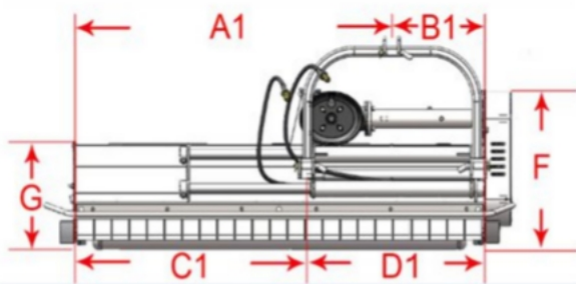
**The reference point is always the centre of your tractor**, i.e. where the PTO shaft is located.

Let's assume your tractor is 98 cm wide from its centre to the outer edge of the right-hand tyre (i.e. 196 cm total width); in that case, the mulcher should extend more than 98 cm to the right from the centre of the tractor. 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.

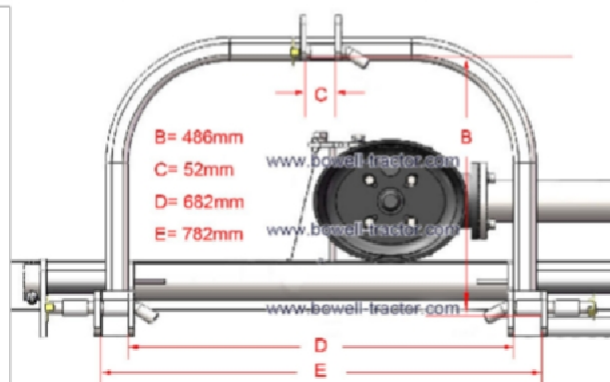
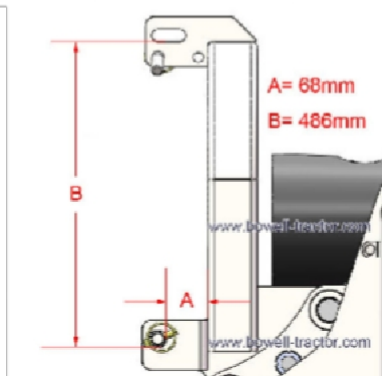
The three-point hitch on this model can be moved hydraulically. The

respective end points of the adjustment, the following values apply: A1, B1 etc. and A2, B2 etc...

If, in the example given here, the mulcher were to protrude more than 98 cm to the right of the centre of the tractor, the EFGCH-135 would be too narrow (A1 = 965 mm), even if it were moved right to the edge in the direction of travel. The EFGCH-155, when pushed all the way to the right (A1 = 1165 mm), would be able to mow about 18 cm to the right of the right-hand rear wheel, and the EFGCH-175 (A1 = 1365 mm) as much as 38 cm to the right. The maximum value for this series would then be 58 cm with the EFGCH-195, provided your tractor has sufficient power.



|          | A1(mm) | B1 (mm) | C1 (mm) | D1 (mm) | E (mm) | F (mm) | G (mm) | A2(mm) | B2 (mm) | C2 (mm) | D2 (mm) |
|----------|--------|---------|---------|---------|--------|--------|--------|--------|---------|---------|---------|
| EFGCH135 | 965    | 397     | 599     | 763     | 549    | 641    | 421    | 447    | 915     | 81      | 732     |
| EFGCH155 | 1165   | 397     | 799     | 763     | 549    | 641    | 421    | 647    | 915     | 281     | 732     |
| EFGCH175 | 1365   | 397     | 999     | 763     | 549    | 641    | 421    | 847    | 915     | 481     | 732     |
| EFGCH195 | 1565   | 397     | 1199    | 763     | 549    | 641    | 421    | 1047   | 915     | 681     | 732     |



| TECHNICAL SPECIFICATIONS                            | EFGC-135                       | EFGC-155     | EFGC-175     | EFGC-195    |
|---|--------------------------------|--------------|--------------|-------------|
| Dimensions (LxWxH) cm                               | 162x94x84                      | 182x94x84    | 202x94x84    | 222x94x84   |
| Total weight incl. drive shaft kg                   | 336                            | 353          | 376          | 400         |
| Working width cm                                    | 135                            | 155          | 175          | 195         |
| Recommended grass height cm                         | < 70                           |              |              |             |
| Adjustable cutting height mm                        | 20–75                          |              |              |             |
| 3-point hitch for tractors                          | Cat 1 (Cat 2 sockets included) |              |              |             |
| Tractor PTO clockwise rpm                           | 540 / 1000                     |              |              |             |
| Hydraulic side shift cm                             | 50                             |              |              |             |
| Length of hydraulic hoses cm                        | 150 / 190                      |              |              |             |
| Drive shaft length mm                               | 1000                           |              |              |             |
| Distance from top link pin to ground min/max mm     | 787 / 858                      |              |              |             |
| Distance from lower link pin to ground min/max mm   | 267 / 373                      |              |              |             |
| Distance from PTO connection to ground min/max mm   | 524 / 560                      |              |              |             |
| 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           |
| e side panel thickness mm                           | 6                              |              |              |             |
| Paint finish  | Powder coating                 |              |              |             |
| Mallet shape, weight g                              | Hammer, hardened, 800          |              |              |             |
| Number of hammers                                   | 18                             | 22           | 26           | 28          |
| rpm rotor shaft                                     | 2200                           |              |              |             |
| Transport crate (LxWxH) cm                          | 170x105x84                     | 190x105x84   | 210x105x84   | 230x105x84  |

Your specialist dealer

FLAP MULCHER