

FLAP MULCHER

Bowell EFGCH+H70 Flail Mower

Medium-duty flail mower with side shift for 30-70 hp tractors with 70 cm hydraulic hedge trimmer



KEY FEATURES

- For tractors with Cat. 1 / 2 Three-point linkage
- Performance rotor shaft with spiral hammer flails (800g)
- additional 70 cm sickle mower with hydraulic drive
- Up to approx. 75 cm grass height
- 175 cm to 195 cm working width
- hydraulic side shift 50 cm
- Easy checking of the Belt tensioning without tools

Bowell EFGCH+H70 flail mower

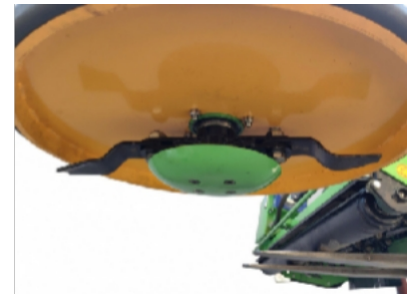
Applications of the mower

The Bowell EFGCH+H70 flail mower series is fitted with a reinforced **free-wheel angular gearbox**. With a working width of up to 195 cm available, the robust EFGCH+70 mowers can be optimally adapted to the power and width of your tractor and the area to be mowed. The new "H70" generation features a 70 cm wide hydraulic sickle mower. The hydraulic tank, pump and an electric oil cooler are mounted on the mower housing. The 70 cm wide hydraulic flail mower can automatically avoid obstacles such as tree trunks, fence posts or road signs, allowing you to mow quickly and easily around such obstacles without the hassle of manoeuvring.

Bowell EFGCH+H70 flail mowers are now factory-fitted 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+H70 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+70 mowers can be used **effectively on medium-sized areas with many obstacles** and an average grass height of up to 75 cm, where mowing is required only two or three times a year.

The EFGCH mower reliably shreds woody plant material up to 25 mm in diameter, twigs, small branches and even small bushes. EFGCH mowers are true all-round **flail mowers for tractors** with 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 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 optimal mowing results even

The practical **500 mm hydraulic side shift** eliminates the need for tedious manoeuvring in tight bends and makes it easier to mow under fences or around trees. 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, self-cleaning rear roller. The height-adjustable side skids on the flail mower prevent the mower from digging into the ground on 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 if required.

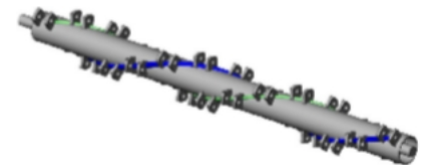
The reinforced **freewheel gearbox** ensures that the heavy flail shaft can continue to run after the PTO drive has been switched off. The metal slats of the stone guard fitted to the front of the flail mower prevent stones and foreign objects from flying off.



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 with 18 to 28 **hardened high-performance flails**, each **weighing 800 g**. The spiral arrangement of the flails on the rotor shaft guarantees maximum performance with minimum effort required from the tractor.

The **EFGCH+H70 mowers** are fitted with **SKF ball bearings**, which are protected from external influences within solid, CNC-machined bearing housings. The stainless steel grease nipples are mounted on the outside of the mulcher housing for easy access, thereby protecting them from dirt and damage.



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

The drive shaft is included in the scope of delivery of the **Bowell EFGCH+H70 flail mower**, as is the gearbox oil, which must be topped up before commissioning. The operating instructions explain the assembly, commissioning and maintenance of the mowers in detail. Delivery is 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 to the mower.



Mower deck with drive system and 4 drive belts

Like all Bowell mowers, Bowell EFGCH mowers are equipped with an electronically **fine-balanced flail shaft**, driven by four 17 mm wide drive belts.

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 EFGCH+H70 mulcher positioned behind your tractor?

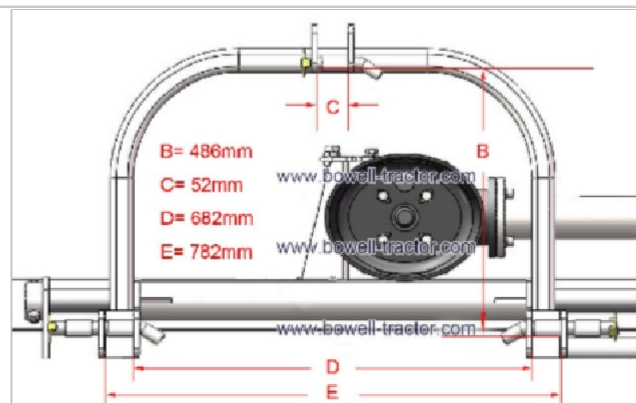
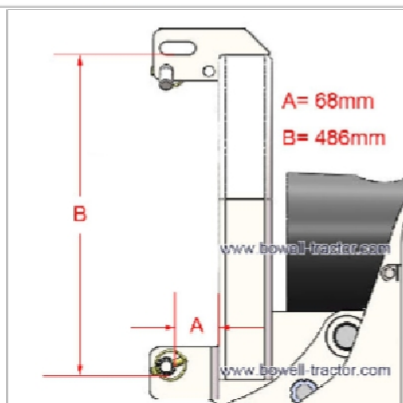
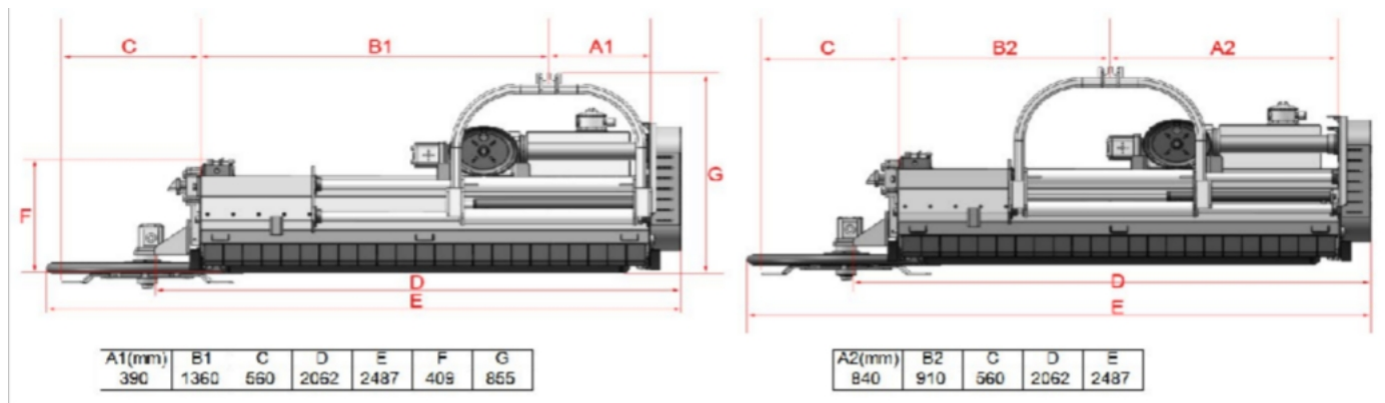
The reference point is always the centre of your tractor, i.e. where the PTO shaft is located.

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. At the respective end points of the movement,

the values A1, B1 etc. and A2, B2 etc.

If, in the example chosen here, the mulcher is to extend 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 all the way to the right in the direction of travel. The EFGCH-155, when moved 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.



TECHNICAL SPECIFICATIONS	EFGCH+H70-175	EFGCH+H70-195
Dimensions (LxWxH) cm	202x94x84	222x94x84
Total weight incl. drive shaft kg	414	434
Working width cm	175+70	195+70
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	
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	
Hydraulic tank capacity L	4	
Hydraulic oil cooling	Electric fan, 12V	
Hydraulic pump flow rate L/min	46	
Hydraulic pump, max. pressure , bar	160	
Working capacity (approx. values) m ² /h	7000–14000	8800–15600
V-belt Number / Width mm	Apr.17	Apr.17
Recommended tractor engine power HP/kW	40-60/30-45	45-75/33-56
Rotor shaft diameter / wall thickness mm	108 / 8	
Trailing roller diameter / wall thickness mm	133 / 5	
Rotor shaft diameter (rotating) mm	358	
Flatter speed m/sec	41	
Housing material thickness mm	4	5
Side panel material thickness () mm	6	
Paint finish	Powder coating	
Mallet shape and weight	Hammer, hardened, 800	
Number of hammers / sickle blades	26 Feb	28 Feb
RPM rotor shaft	2200	
Transport crate (LxWxH) cm	210x105x84	230x105x84

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