

## FLAIL MULCHER

# Bowell BCX Flail Mower

Professional flail mower with side shift for 70-150 hp tractors



## TOP FEATURES

- Cat. 2 / 3 three-point hitch for Front and rear mounting
- Performance rotor shaft with spiral Arrangement of the 1.2 kg hammer flails
- With inner housing made of Hardox® 400
- With double-walled housing 5+5 mm and 10 mm side wall thickness
- For grass heights over 150 cm
- 240 cm to 260 cm working width
- Angular gearbox from the Italian manufacturer Bondioli Pavesi
- 50 cm hydraulic Side offset

## Bowell BCX Flail Mower

### Applications of the Bowell BCX flail mower

The **Bowell BCX mower series** is equipped with a **high-performance, double-sided bevel gearbox** from the renowned Italian manufacturer **Bondioli Pavesi**, making it ideal for use as a **front or rear mower** even on large tractors.

With an available **working width of up to 260 cm** and a **hydraulic side shift** of up to **500 mm**, these professional flail mowers can also be used on very large areas. When paired with a suitable tractor, the Bowell BCX mowers outperform virtually any vegetation on large areas and deliver very high operational efficiency even when dealing with stubborn plants.



### Technical Details and Additional Features of the BCX Mulcher

The practical 500 mm **hydraulic side shift** eliminates the need for tedious maneuvering in tight turns and greatly facilitates mowing under fences and bushes. For this function, you need a **double-acting hydraulic control circuit** on your tractor.

1200 g **hardened flails** ensure an ideal mowing result, capable of handling even **tough undergrowth and brush** with a diameter of 30 mm. A total of 24 or 26 of these newly developed, high-performance flails are integrated into the mulchers, depending on the model.

**Additional counter-blades** inside the flail mower ensure even better performance when cutting grass. You can adjust the **cutting height** using the **self-cleaning rear roller**. The freely adjustable rear roller also helps smooth out **uneven ground**, preventing the flails from touching the ground while mowing.

The large **Bondioli Pavesi freewheel clutch** ensures that the heavy flail shaft can continue to rotate after the PTO drive is disengaged without transferring the motion to the tractor. prevent stones and other foreign objects from flying around.



## Flail mowers for front and rear mounting for 1000 rpm PTO shafts

The double-sided Bondioli Pavesi angle gearbox also allows for front-mounted operation on appropriately equipped tractors. The gearbox can operate at **PTO speeds of up to 1000 rpm**. The Bowell BCX mulchers are already equipped with a **double three-point hitch**, allowing for **quick switching between front and rear mounting at any time**.

Bowell BCX flail mowers come equipped with **Bowell Power Efficiency technology** right from the factory. Your tractor must have a front and rear **PTO speed of over 1000 rpm** ( ) to take advantage of this, enabling it to deliver more efficient performance with lower fuel consumption. Bowell Power Efficiency technology **saves fuel** from the very first meter, at no extra cost.

## Flail mowers with Bowell 5-speed belt drive

The new Bowell 5-speed belt drive, featuring 17 mm wide drive belts and correspondingly **reinforced pulleys**, guarantees nearly 100% power transmission even with these large working widths and despite the high shaft and flail weight, with barely measurable power loss and minimal wear. The new belt cover allows belt tension to be checked in seconds without having to remove the cover.

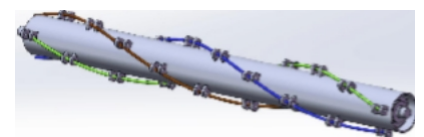
BCX mowers are equipped with **stainless steel grease fittings** at key locations and feature a **parking stand** in addition to the **skids**. The maintenance schedule in the German owner's manual is straightforward and makes it easy for you to maintain and care for your Bowell mower. Like all Bowell mowers, the Bowell BCX series is equipped with an **electronically precision-balanced flail shaft** driven by 5 wide V-belts. The heavy-duty free-wheel gearbox runs in an oil bath, so the gear oil must be filled before commissioning.



## SKF ball bearings and Performance rotor shaft

The BCX flail mowers are equipped with large **SKF rotor shaft ball bearings** , which are anchored in solid CNC-machined bearing seats. This is necessary because the heavy, laser-balanced rotor shaft rotates at **2,350 rpm**, thereby shredding the cut material to a minimum so that it can decompose quickly. The rotor shaft is specially optimized. The **flails are arranged in a spiral pattern**, so that no more than two flails cut the grass at the same time, despite the wide working width.

This significantly reduces the amount of force required.



## Double-walled mower housing

For wide and heavy flail mowers that operate at high rotor shaft speeds, a torsion-resistant and low-vibration housing is a fundamental requirement for the machine's reliability. In addition to solid side walls—which are 10 mm thick on the BCX mulcher—the best results are achieved by designing the rest of the mulcher housing with double walls. The Bowell BCX mulcher features a 5 mm thick outer housing and an inner housing reinforced by 4 mm in some areas. This enables very smooth operation of this professional attachment.



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

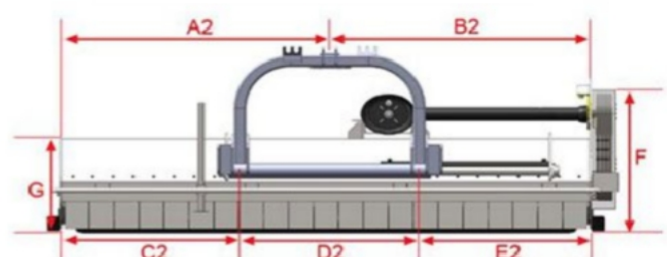
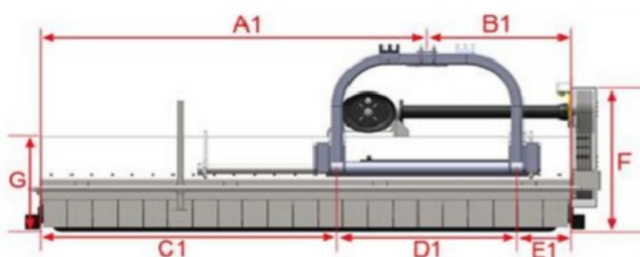
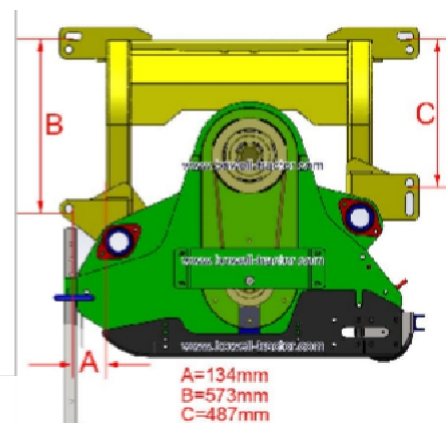
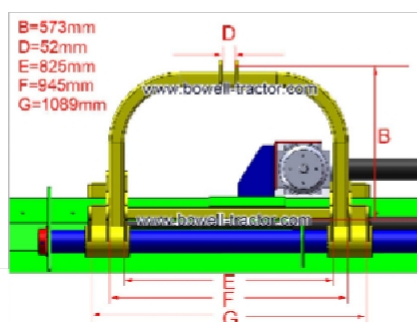
The reference point is always the center of your tractor, i.e., where the PTO shaft is located.

Let's assume your tractor is 120 cm wide from its center to the outer edge of the right rear tire (i.e., 240 cm total width); in that case, the mulcher should extend more than 120 cm to the right from the center of the tractor. This allows the mulcher to mow to the right of the right rear wheel as well. This would allow you, for example, to keep some distance from a fence, bush, tree, or shed with the tractor and still mow flush.

The three-point hitch on this model can be moved hydraulically. The above values A1, B1, etc., and A2,

B2, etc., for the BCX models.

If, in the example selected here, the flail mower is to extend more than 120 cm to the right of the tractor's centerline, all BCX models would be capable of doing so (50 cm, 70 cm, 100 cm); however, you must use the hydraulic side shift for this. The BCX flail mower is a front/rear mower, so it can also be mounted on the front of the tractor, provided there is a PTO output and a three-point hitch available there. As a rule, tractors are narrower at the front axle than at the rear axle, so significantly different values may result.



	A1(mm)	B1(mm)	C1(mm)	D1(mm)	E1(mm)	F(mm)	G(mm)	A2(mm)	B2(mm)	C2(mm)	D2(mm)	E2(mm)
BCX-240	1710	711	1267	885	268	768	511	1130	1291	687	885	848
BCX-260	1910	711	1467	885	268	768	511	1330	1291	887	885	848

TECHNICAL SPECIFICATIONS	BCX-240	BCX-260
Dimensions (LxWxH) mm	2580x1090x1000	2780x1090x1000
Total weight, including drive shaft, kg	840	880
Working width cm	240	260
Adjustable cutting height mm	20–75	
Recommended grass height cm	< 150	
Max. hydraulic side shift mm	500	
3-point hitch tractor	Cat. 2 + 3	
PTO clockwise rpm	540/1000	
PTO shaft length mm	1000	
Distance from top link pin to ground min/max mm	925 / 1018	
Distance from lower link pin to ground min/max mm	405 / 498	
Distance from PTO connection to ground min/max mm	657 / 705	
Length of hydraulic lines cm	185/245	
Working capacity (approx. values) m <sup>2</sup> /h	12,000–25,000	14,000–28,000
Number of drive belts / width mm	5 x 17	
Recommended tractor engine power HP/kW	70–120/52–90	80–150/60–110
Outer housing material thickness mm	5	
Inner housing material thickness (mm)	4 (in some places)	
side panel material thickness mm	10	
Coating	Powder coating	
Mallet shape, weight g	Hammer, hardened, 1200	
Number of hammers (helix arrangement)	24	26
RPM of the flail shaft 540 / 1000 RPM	2140 / 2270	
Diameter / wall thickness of flail shaft mm	168 / 10	
Diameter / wall thickness of trailing roller mm	196 / 6	
Rotor shaft diameter mm	438	
Beater speed m/s at 540/1000 rpm	49 / 52	
Transport frame (LxWxH) cm	265x100x120	285x100x120

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