

OFFSET DITCH MOWER

Bowell BCRM Offset Ditch Mulcher



Medium-duty offset mulcher for 30–60 PS tractors



- For 30–60 PS tractors with Cat. 1 & 2 three-point hitch
- High-performance rotor shaft with spiral-arranged hammer blades
- With hydraulic swivel arm
- For grass heights up to approx. 75 cm
- 135 cm to 175 cm working width
- Replaceable counter blades

Bowell BCRM Flail Mowers

Bowell BCRM Series—Versatile

The Bowell BCRM mowers are side-mounted mowers specifically designed for **small and medium-sized tractors**. With an available working width of up to 175 cm and a hydraulic swivel arm, these professional **side-mounted mowers** can be used almost anywhere, as the mower head can be operated in a position ranging from +90° to -60°.

The mower's maximum **reach** from the center of the tractor to the right is **up to 2.40 meters, depending on the model**. When paired with a suitable tractor, the Bowell **BCRM side mulchers** can handle even dense vegetation and deliver high operational efficiency.

In addition to allowing the hydraulic swing arm to be flexibly adjusted to virtually any mowing situation, the hydraulic system eliminates the need for tedious maneuvering in tight turns and makes mowing under fences and bushes effortless. To operate the hydraulic system, you'll need **two double-acting hydraulic connections** on your tractor.



Optional side mulcher for 540 / 1000 rpm PTO speeds

The Comer transmission can be operated at both **540 and 1000 rpm PTO speeds**. Bowell BCRM side mowers are equipped with **Bowell**

Power Efficiency technology on the transmission side as standard. If your tractor supports the **1,000 rpm PTO speed** in addition to the standard 540 rpm, you can also use the mulcher at this higher speed, provided you order the optional pulley set for 1,000 rpm. Simply replace the factory-installed pulleys with the new set for the higher RPM, and you'll achieve more efficient performance with lower fuel consumption. Bowell Power Efficiency technology **saves fuel** from the very first meter.



Side Mower with Mechanical Collision Protection

The Bowell BCRM Series is equipped with a mechanical, maintenance-free **collision protection system** that allows the slope mower to swing backward should the mower head strike an obstacle. This additional backward swing capability gives the operator time to brake before damage occurs to the machine.

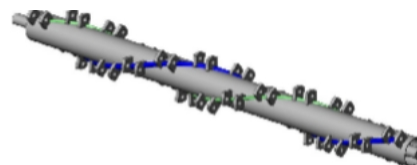
Performance rotor shaft with hardened 800-gram hammer heads

Depending on the working width, BCRM mulchers are equipped **with 18 to 26 800 g Bowell high-performance flails**, which ensure optimal mowing results. The newly developed and easily replaceable counter blades inside the mower help to shred the cut material in the shortest possible time. The spiral arrangement of the flails on the rotor shaft guarantees maximum performance with minimal effort required from the tractor.

The **heavy-duty, ball-bearing-mounted trailing roller** ensures smooth operation even on uneven ground and also serves to adjust the cutting height. The large **Comer freewheel clutch** ensures that the heavy flail shaft can continue to rotate after the PTO drive is disengaged. Metal slats mounted on the front of the side mulcher act as stone guards, preventing stones and other foreign objects from flying around.

BCRM side mulchers are equipped with sturdy stainless steel grease fittings at the relevant points and feature two adjustable parking stands in addition to the skids. The **150 cm long drive shaft** is included with all units. The service schedule in the operator's manual simplifies the maintenance and care of your Bowell mower.

The mower is delivered fully assembled in sturdy Bowell wooden crates. Only the 3-point hitch, the pre-assembled swivel arm, and the PTO guard need to be attached. **Easy-to-follow instructions** are provided for this.



SKF ball bearings

Like all Bowell mowers, the **Bowell BCRM series** is equipped with **SKF ball bearings** on the electronically precision-balanced flail shaft, which is driven by three or four 17-mm-wide V-belts. This ensures nearly

100% power transmission despite the heavy weight of the rollers and blades, with barely measurable power loss and minimal wear.

The new **Bowell belt cover** allows the belt tension to be checked without having to remove the cover. This significantly simplifies service and maintenance. The heavy-duty **Comer freewheel gearbox** runs in an oil bath; therefore, the enclosed gear oil must be added before commissioning.

Beneath the heavy, sturdy cover made of **4 mm-thick sheet steel** is a laser-balanced blade roller with 18 to 26 **hardened, high-performance flails**, each **weighing 800 g**, which can be replaced individually.

The rotor shaft rotates, driven by the tractor's PTO at up to **2,200 rpm**, and shreds the cut material for rapid decomposition.



How is the BCRM Slope Mulcher positioned behind your tractor?

The table shows the options the Bowell BCRM slope mulcher offers when attached to your tractor.

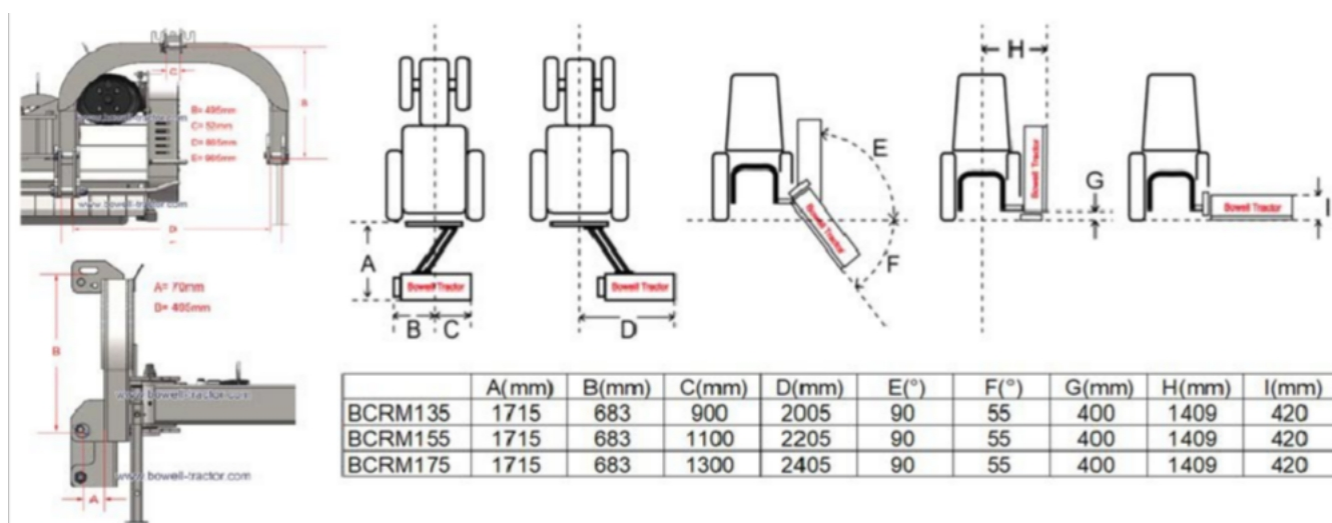
Examples:

The value "D" describes the maximum reach achieved when you move the Bowell BCRM slope mulcher horizontally to the right. The dotted line running lengthwise through the tractor marks the center of your tractor. For the BCRM-175, the value "D" is approximately 2.4 m.

Let's assume your tractor is 170 cm wide (measured at the outer edge of the tires). This means that the BCRM-175 can mow approximately 155 cm (240 cm total reach from the center of the tractor minus half the tractor's width; in this case, 85 cm) to the right of the right rear wheel. If your tractor is narrower or wider, the value changes accordingly.

The value "H" describes the distance from the center of the tractor to the working plane of the hammer flails in the vertical position. Since all Bowell BCRM slope mowers use the same support arms, this value is always approximately 140 cm. If your tractor is also 170 cm wide in this example, the flails would operate about 55 cm to the right of the right rear tire, for example, to keep road shoulders clear of branches and bushes.

The value "I" indicates the height of the mower at its outer end, and the value "K" indicates how long the housing maintains this height. On the BCRM-175, the mulcher's housing is 100 cm (K) long and 42 cm (I) high when viewed from the outside. This value can be important when, for example, mowing under an electric fence or under solar panels.



TECHNICAL SPECIFICATIONS	BCRM-135	BCRM-155	BCRM-175
Dimensions (LxWxH) mm	1580x940x610	1780x940x610	1980x940x610
Total weight, including drive shaft, kg	417	432	449
Working width (cm)	135	155	175
Recommended grass height (cm)	< 70		
Adjustable cutting height (mm)	20–75		
3-point hitch for tractor	Cat. 1 (Cat. 2 bushings included)		
Tractor PTO (clockwise rotation), rpm	540 / 1000 (optional)		
Recommended minimum hydraulic system pressure bar/psi	160 / 2320		
Hydraulic side shift mm	1105		
Max. reach to the right at 90° from the center of the tractor mm	2005	2205	2405
Max. reach to the right from the center of the tractor at 90°, mm	1409		
Slope mowing angle	-60° ~ 90°		
Length of hydraulic hoses, cm	180 / 203 / 208 / 335		
Drive shaft length, mm	1500		
Distance from upper control arm pin to the ground, min/max mm	750 / 824		
Distance from lower link pin to ground, min/max mm	292 / 328		
Distance from PTO connection to ground, min/max mm	525 / 561		
Working capacity (approx. values) m ² /h	5,400–10,800	6,200–12,400	7,000–14,000
V-belts Number / Width mm	3 / 17	3 / 17	4 / 17
Recommended tractor engine power, PS/kW	30–40 / 22–30	40–55 / 30–40	45–60 / 33–44
Rotor shaft diameter / wall thickness (mm)	108 / 8		
Trailing roller diameter / wall thickness mm	133 / 4		
Rotor shaft diameter (rotating) mm	358		
Beater speed m/s	41		
Housing material thickness, mm	4		
Side wall material thickness () mm	6		
Finish	Powder coating		
Flat-head shape, / weight in g	Hammer, hardened, 800		
Number of mallets	18	22	26
RPM rotor shaft	2,200		
Transport case (LxWxH) cm	160x86x81	180x86x81	200x86x81

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