

OFFSET DITCH MOWER

Bowell BCRI Offset Ditch Mower

Heavy-duty boom mulcher for 60–90 hp tractors



TOP FEATURES

- For 60–90 PS tractors with Cat. 2 three-point hitch
- High-performance rotor shaft with 1,200g hammer blades arranged in a spiral pattern
- With hydraulic swivel arm
- Maximum working range of the mulcher is 340 cm
- For grass heights up to approx. 100 cm
- 180 cm to 220 cm working width
- Replaceable counter blades
- 4-speed belt drive

Bowell BCRI Flail Mulcher

Applications of the Slope-Mounted Mulcher

The Bowell BCRI boom mulcher series is equipped with a heavy-duty, high-performance **bevel gearbox** from the renowned Italian manufacturer Comer Industries, making it ideal for use with medium-sized tractors. The flexible **hydraulic swing arm** allows for working angles ranging from $+90^{\circ}$ to -60° .

Even tall and tough plants can be removed quickly and effectively with the extendable mulcher. The mulcher's **maximum working reach** is approximately **340 cm to the right, measured from the center of the tractor**.

In addition to the flexible adjustment of the hydraulic swing arm to virtually any mowing situation, the flail mulcher's hydraulic system eliminates the need for tedious maneuvering in tight turns and makes mowing under bushes and fences much easier. To operate the hydraulic system, you'll need two double-acting hydraulic connections on your tractor.



Technology - Mechanical Collision Protection for the Boom Mulcher

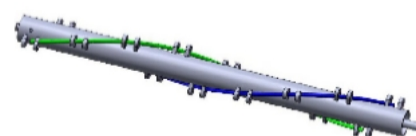
Accidents can be prevented thanks to a maintenance-free collision protection system, which is integrated **as standard in our boom mowers**. The mulcher swings backward when it comes into contact with a solid object. This additional swivel capability of the boom mulcher gives the operator time to brake before damage occurs to the machine. This safety feature is **completely maintenance-free** and therefore operates **reliably for years**.



Hammer Flails & Stone Impact Protection of the Mulcher

Depending on the model and working width, the BCRI boom mulcher is equipped with **16, 18, or 20 hardened, high-performance Bowell flails weighing approximately 1.2 kg each**. These efficient tools ensure that even tough brush and underbrush up to 30 mm in diameter are shredded optimally. The powerful **counter blades inside** the boom mulcher also ensure reliable shredding of dense vegetation.

The new **Performance rotor shaft** of the slope mulcher is equipped with hammer blades arranged in a spiral pattern. This guarantees maximum performance with minimal effort required from the tractor, as a significantly smaller number of blades are in contact with the crop at any given time.



The cutting height on the mulcher is adjusted using the heavy-duty, large **self-cleaning idler roller**.

Once the PTO drive is disengaged, no further motion is transmitted to your tractor's PTO gearbox. This is made possible by the large **Comer freewheel gearbox** and the inertia of the heavy rotor shaft. The cantilever mulcher is equipped with **metal slats for stone impact protection**, which prevent foreign objects and stones from flying off the front of the mulcher.

Stainless steel grease fittings are installed on all **ball bearings and joints**. In addition to the included 180-cm-long drive shaft, the machine also features two **adjustable parking stands**.

The service and maintenance information in the operator's manual makes it easy for you to maintain and care for your Bowell side mower.

The side-discharge mowers are 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 installed, which takes about 40 minutes. Easy-to-follow instructions are provided for this.



SKF ball bearings

The **electronically precision-balanced rotor shaft** is guided by **SKF ball bearings** and driven by **four V-belts**. This optimized technology guarantees nearly 100% power transmission—even with a heavy shaft and blades—with minimal wear and virtually undetectable power loss.

The heavy-duty freewheel gearbox runs in an oil bath; therefore, it is essential to top off the gear oil before commissioning.

The appropriate gear oil is already filled.



How is the BCRI Slope Mulcher mounted behind your tractor?

The table shows the options available to you when using the Bowell BCRI slope mulcher with your tractor.

Examples:

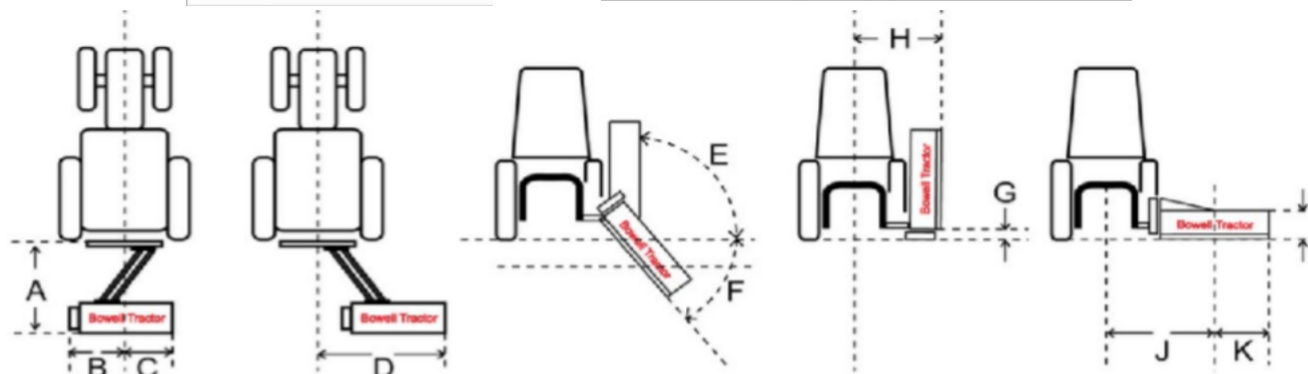
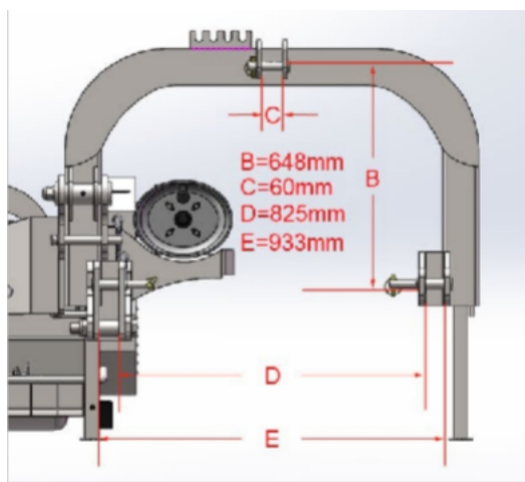
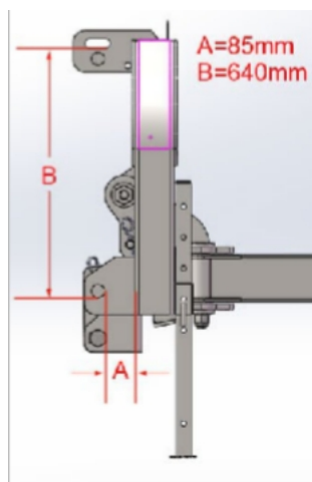
The value "D" describes the maximum reach achieved when you move the Bowell BCRI slope mulcher horizontally to the right. The dotted line running lengthwise through the tractor marks the center of your tractor. For the BCRI-220, the value "D" is approximately 3.4 m.

Let's assume your tractor is 220 cm wide (measured at the outer edge of the tires). This means that the BCRI-220 can mow approximately 230 cm (340 cm total reach from the center of the tractor minus half the tractor's width; in this case, 110 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 BCRI slope mowers use the same support arms, this value is always approximately 190 cm. If your tractor is also 220 cm wide in this example, the flails would operate approximately 80 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 BCRI-220, the mulcher's housing is 143 cm (K) long and 43 cm (I) high when viewed from the outside.

This measurement can be important, for example, when mowing under an electric fence or under solar panels.



	A(mm)	B(mm)	C(mm)	D(mm)	E(°)	F(°)	G(mm)	H(mm)	I(mm)	J(mm)	K(mm)
BCRI180	1940	761	1496	3005	90°	60°	448	1907	433	1969	1036
BCRI200	1940	761	1696	3205	90°	60°	448	1907	433	1969	1236
BCRI220	1940	761	1896	3405	90°	60°	448	1907	433	1969	1436

TECHNICAL SPECIFICATIONS	BCRI-180	BCRI-200	BCRI-220
Dimensions (LxWxH) mm	2257x900x1020	2457x900x1020	2657x900x1020
Total weight, including drive shaft, kg	718	755	797
Working width (cm)	180	200	220
Recommended grass height (cm)	< 100		
Adjustable cutting height (mm)	20–75		
3-point hitch for tractor	Cat. 2		
Tractor PTO, clockwise rotation, rpm	540		
Recommended minimum hydraulic system pressure, bar/psi	180 / 2,610		
Hydraulic side shift, mm	1,540		
Max. reach to the right at 90° from the center of the tractor mm	3005	3205	3,405
Max. reach to the right from the center of the tractor at 90°, mm	1907		
Slope mowing angle	-60° ~ 90°		
Length of hydraulic hoses (cm)	180 / 203 / 308 / 335		
Drive shaft length, mm	1800		
Distance from top link pin to ground, min/max, mm	1006 / 1094		
Distance from lower link pin to ground, min/max mm	405 / 453		
Distance from PTO connection to ground, min/max mm	583 / 631		
Working capacity (approx. values) m ² /h	6,000–15,000	7,000–17,000	8,000–19,000
V-belts Number / Width mm	4 / 17	4 / 17	4 / 17
Recommended Tractor Engine Power (PS/kW)	60–80 / 44–59	70–90 / 52–66	75–100 / 55–74
Rotor shaft diameter / wall thickness (mm)	127 / 8		
Trailing roller diameter / wall thickness mm	194 / 6		
Rotor shaft diameter (rotating) mm	377		
Beater speed m/sec	42		
Housing material thickness, mm	5		
Side wall material thickness () mm	6		
Finish	Powder coating		
Beater shape and weight	Hammer, hardened, 1200		
Number of hammers	16	18	20
RPM rotor shaft	2,150		
Transport case (LxWxH) cm	242x113x110	262x113x110	282x113x110

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