

OFFSET DITCH MOWER

Bowell BCRS Offset Ditch Mower

Professional slope and ditch mulcher for 60–120hp tractors



TOP FEATURES

- For 60–120 PS tractors with Cat. 2 three-point hitch
- High-performance rotor shaft with 1,200g hammer flails arranged in a spiral pattern
- With hydraulic swing arm Maximum working range of the mulcher is 340cm
- For grass heights over 100 cm
- 180 cm to 220 cm working width
- Newly developed collision protection for greater safety
- Dual-PTO-Shaft System

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Applications of the Trench Mulcher

The Bowell BCRS mulcher series is equipped with a heavy-duty, high-performance **bevel gear** from the well-known Italian manufacturer Comer Industries, making it ideal for use as a ditch mulcher with medium- and large-sized tractors. **Available working widths are 180 cm, 200 cm, and 220 cm.** The newly designed **hydraulic swing arms are internally reinforced** and can achieve operating angles ranging from +90° to -60°.

Tall and tough vegetation can be removed quickly and effectively by the mulcher. The mulcher's **maximum working reach** is approximately **340 cm to the right of the tractor's centerline.**

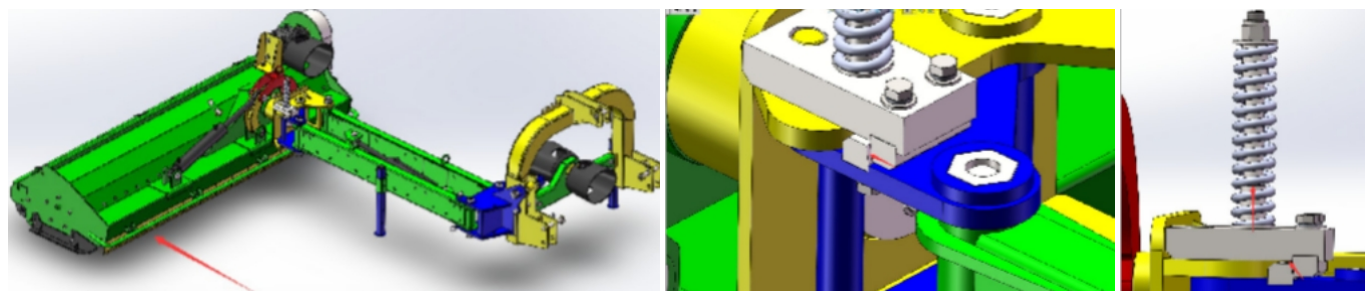
In addition to the flexible adjustment of the hydraulic swing arm to virtually any mowing situation, the mulcher's hydraulic system eliminates the need for tedious maneuvering in tight turns. To operate the hydraulic system, you'll need two double-acting hydraulic connections on your tractor.



Slope and Ditch Mulcher Technology - Innovative Mechanical Collision Protection

An intelligent collision protection system, integrated **as standard on the BCRS slope mulcher**, effectively prevents damage. The ditch mulcher is

swung backward by the collision protection system as soon as the mower head strikes a solid object. This additional swivel capability of the ditch 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.**



SLOPE MULCHER

Hammer Blades & Stone Guard for Bowell Trench Mulchers

Depending on the model and working width, the BCRS embankment mulcher is equipped with **16 to 20 hardened, high-performance hammers (approx. 1.2 kg each)** from Bowell. These efficient tools ensure that even tough brush and underbrush up to 30 mm in diameter are optimally shredded and processed. The powerful **counter blades inside** the trench mulcher also ensure reliable shredding of dense vegetation.

The cutting height on the ditch mulcher is adjusted using the heavy, large **self-cleaning trailing roller**. This prevents the mower from digging into the ground when encountering bumps.

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 ditch mulcher is equipped with **metal slats () for stone impact protection**, which prevent foreign objects and stones from flying off the front of the mulcher.

Durable stainless steel grease fittings are installed on all **ball bearings and joints**. The machine also features two **adjustable parking stands and skids**.



Bowell Dual-Joint Drive Shaft System

The sophisticated new **dual-drive-shaft system** consists of a 100 cm drive shaft between the tractor and the 3-point hitch, and an additional 180 cm

long **dual wide-angle drive shaft** between the 3-point hitch and the mulcher transmission; it is included as standard equipment on all BCRS ditch mulchers. The advantage of this system is that the drive shafts cannot come into contact with the 3-point hitch under any operating conditions, thus preventing damage to the drive shafts. The service and maintenance information in the operator's manual makes it easy for you to maintain and care for your Bowell mulcher.

The flail 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 attached, which takes about 40 minutes. Easy-to-follow German instructions are provided for this purpose.



Trench mulcher with standard PTO speed of 540 / 1000 rpm

The Comer transmission can be operated at both **540 and 1000 rpm PTO speeds**. Bowell BCRS mulchers are equipped with **Bowell Power Efficiency technology** on the transmission side as standard. If your tractor supports a **1,000 rpm PTO speed** in addition to the standard 540 rpm, you can also use the mulcher at this higher speed. All you need to do is swap the factory-installed drive pulleys, and you'll achieve more efficient performance with lower fuel consumption. Bowell Power Efficiency technology **saves fuel** from the very first meter.

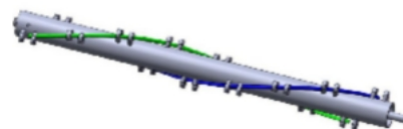


Below the technical data table at the bottom of this page, you'll find detailed dimensions of the Bowell trench mulchers. Using the diagrams and dimensions, you can see how the mulcher is positioned behind your tractor and what horizontal or vertical reach the flail mulcher can achieve relative to your tractor.



SKF Ball Bearings and Performance Rotor Shaft

The **electronically precision-balanced rotor shaft** is supported by **SKF ball bearings** and driven by **four V-belts**. This optimized technology guarantees nearly 100% power transmission—even with a heavy shaft and blade assembly—with minimal wear and virtually undetectable power loss. A further-improved, **spiral arrangement of the flails** on the rotor shaft ensures maximum performance with minimal power requirements for the tractor. The heavy-duty freewheel transmission operates in an oil bath; therefore, it is essential to fill the transmission with oil before starting operation.



How is the BCRS Slope Mulcher positioned behind your tractor?

The table shows the options available to you when using the Bowell BCRS Slope Mulcher with your tractor.

Examples:

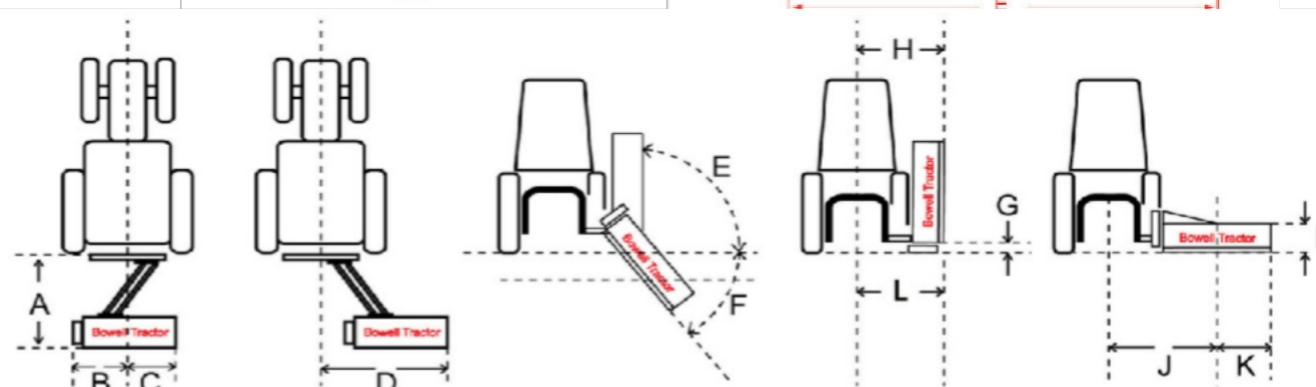
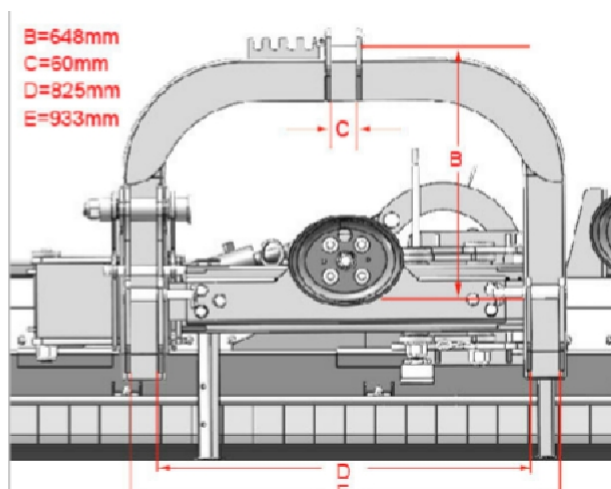
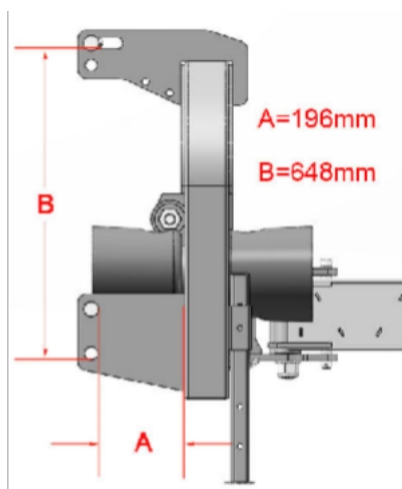
The value "D" describes the maximum reach achieved when you move the Bowell BCRS slope mulcher horizontally to the right. The dotted line running lengthwise through the tractor marks the center of your tractor. For the BCRS-220, the value "D" is approximately 3.3 m.

Let's assume your tractor is 220 cm wide (measured at the outer edge of the tires). This means that the BCRS-220 can mow approximately 220 cm (330 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 BCRS slope mowers use the same support arms, this value is always approximately 200 cm. If your tractor is also 220 cm wide in this example, the flails would operate approximately 90 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 BCRS-220, the mulcher's housing is 115 cm (K) long and 47 cm (I) high when viewed from the outside.

This measurement can be important when, for example, 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)
BCRS180	2625	1031	967	2915	90	60	350	2022	476	2165	750
BCRS200	2625	1031	1167	3115	90	60	350	2022	476	2165	950
BCRS220	2625	1031	1367	3315	90	60	350	2022	476	2165	1150

TECHNICAL SPECIFICATIONS	BCRS-180	BCRS-200	BCRS-220
Dimensions (LxWxH) mm	1998x900x1020	2198x900x1020	2398x900x1020
Total weight, including drive shaft, kg	792	827	862
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 / 1000 (optional)		
Recommended minimum hydraulic system pressure bar/psi	180 / 2610		
Hydraulic side shift mm	1948		
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)	280 / 300 / 410 / 420		
Drive shaft length, mm	1000 + 1800 (wide angle)		
Distance from upper control arm pin to the ground, min/max mm	949 / 1047		
Distance from lower link pin to ground, min/max mm	299 / 467		
Distance from PTO connection to ground, min/max mm	543 / 591		
Working capacity (approx. values) m ² /h	6,000–15,000	7,000–16,500	8,000–18,000
V-belts Number / Width mm	4 / 17		
Recommended tractor engine power (PS/kW)	60–80 / 44–59	60–90 / 44–66	80–120 / 59–88
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		
Mallet shape, weight (g)	Hammer, hardened, 1200		
Number of flails	16	18	20
RPM rotor shaft	2,150		
Transport case (LxWxH) cm	220x113x110	240x113x110	260x113x110

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