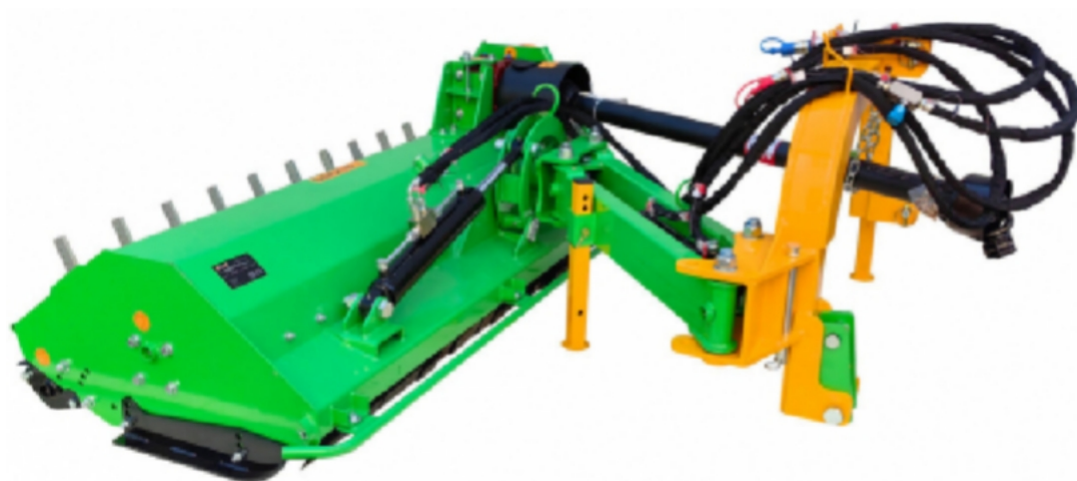


## OFFSET DITCH MOWER

# Bowell BCRMx Offset Ditch Mower

Versatile, medium-duty offset mulcher for 35–70hp tractors



## TOP FEATURES

- For 35–70 PS tractors with Cat. 1 & 2 three-point hitch
- High-performance rotor shaft with 1,200 -gram hammer blades arranged in a spiral pattern
- With hydraulic swing arm
- Controlled shredding of branches up to 50 mm in diameter
- For grass heights up to approx. 75 cm
- 135 cm to 175 cm working width
- Replaceable counter blades

## Bowell BCRMx Flail Mulcher

### Bowell BCRMx Series—Extremely Versatile

The new Bowell BCRMx mower is a side mulcher specifically designed **for small and medium-sized tractors**, with the added capability of reliably shredding branches and deadwood up to 50 mm in diameter. These professional **side mowers** are available with working widths of 135, 155, or 175 cm and feature a hydraulic swivel arm, allowing them to be used almost anywhere, as the mower head can be operated at angles ranging from +90° to -60°. Thanks to the 1,200-gram flails already familiar from the **Bowell MFZ/MXZ series**, the BCRM slope mulcher transforms into the extremely **versatile BCRMx side mulcher**, which can reliably remove even very stubborn brush.

The mower's maximum **reach** extends **up to 2.40 meters** to the right from the center of the tractor, **depending on the model**. When paired with a suitable tractor, the Bowell **BCRMx side mowers** can handle even dense vegetation and deliver high operational efficiency. The Bowell **BCRMx slope mulchers** can thus thoroughly shred even coarser **branches**. Typical applications in Northern Europe include fruit and wine growing, as well as olive groves in Southern Europe.

The **metal tines on the Bowell BCRMx** can be removed for normal mulching operations, but when there is a large amount of deadwood and branches in the grass, they ensure that the branches remain in the mulcher until they are small enough to pass through the tines. Thanks to this reliable shredding, the wood decomposes significantly faster than with conventional mulchers.

In addition to the flexible adjustment of the hydraulic swing arm to virtually any mowing situation, the hydraulic system eliminates the need for tedious maneuvering in tight turns and makes mowing under fences and bushes a breeze. 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 BCRMx side mowers 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 mower at this higher speed, provided you order the optional pulley set for 1,000 RPM. All you need to do is 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 Mulcher with Mechanical Collision Protection

The Bowell BCRMx series is equipped with a **collision protection system** that allows the slope mower to swing backward should the side mower collide with a solid object.

This additional rearward swivel capability gives the operator time to brake before damage occurs to the machine.

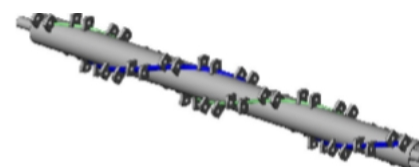
## Performance rotor shaft with hardened 1500gr hammer flails

Depending on the working width, the BCRMx slope mulchers are equipped with **10 to 14 heavy-duty, hardened 1200gr Bowell high-performance flails**, which not only ensure optimal mowing results but also reliably shred branches up to 50mm in diameter. The newly developed and easily **replaceable counter blades** inside the flail mower help to shred the cut material in the shortest possible time. A further-improved, 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, without transferring the motion to your tractor's PTO gearbox. Metal slats mounted on the front of the side mulcher act as stone guards, preventing stones and other foreign objects from flying around.

BCRMx side mowers 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 models. The maintenance schedule in the operator's manual is straightforward and makes it easy for you to maintain and care for your Bowell mower.

The unit is delivered fully assembled in solid Bowell wooden crates. All that remains is to attach the 3-point hitch, the pre-assembled swivel arm, and the PTO guard, which takes about 40 minutes. **Easy-to-follow instructions** are provided.



## SKF Ball Bearings

Like all Bowell mowers, the Bowell BCRMx 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 guarantees nearly 100% power transmission despite the high 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 freewheel gearbox from the Italian manufacturer Comer runs in an oil bath; therefore, the enclosed gearbox oil must be added before commissioning.

Beneath the heavy, sturdy cover made of 4-mm-thick sheet steel is a laser-balanced knife roller with 10 to 14 hardened, high-performance flails, each weighing 1,200 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 and branches to a minimum so that it can decompose quickly.





## How is the BCRMx Slope Mulcher positioned behind your tractor?

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

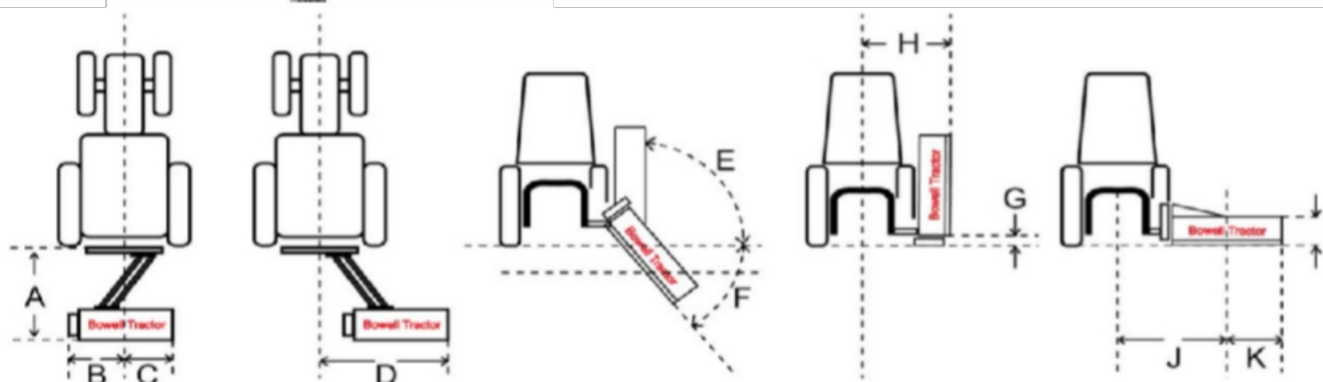
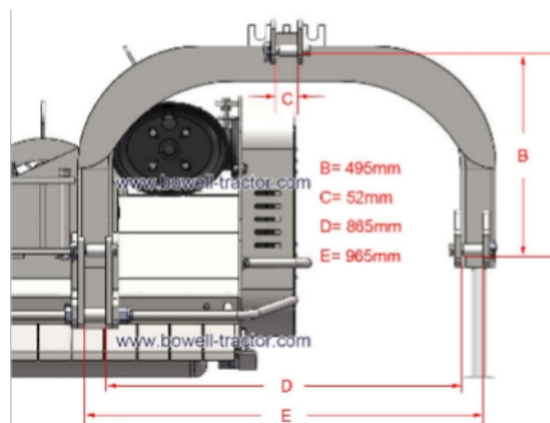
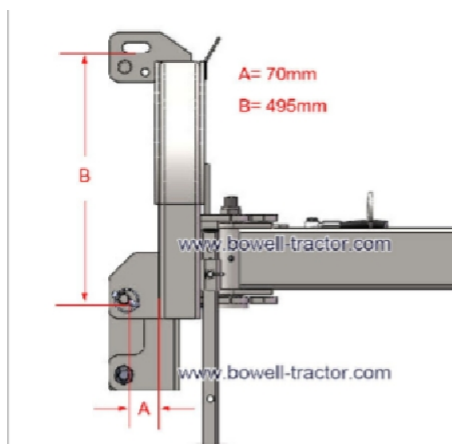
### Examples:

**The value "D"** describes the maximum reach achieved when you move the Bowell BCRMx slope mulcher horizontally to the right. The dotted line running lengthwise through the tractor marks the center of your tractor. For the BCRMx-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 BCRMx-175 can mow approximately 155 cm (240 cm total reach from the center of the tractor minus half the tractor 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 plane of operation of the hammer flails in the vertical position to the center of the tractor. Since all Bowell BCRMx 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. For the BCRMx-175, the mulcher's housing is 100 cm (K) long and 42 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) |
|---------|-------|-------|-------|-------|------|------|-------|-------|-------|-------|-------|
| BCRM135 | 1715  | 683   | 900   | 2005  | 90   | 55   | 400   | 1409  | 420   | 1398  | 607   |
| BCRM155 | 1715  | 683   | 1100  | 2205  | 90   | 55   | 400   | 1409  | 420   | 1398  | 807   |
| BCRM175 | 1715  | 683   | 1300  | 2405  | 90   | 55   | 400   | 1409  | 420   | 1398  | 1007  |

| TECHNICAL SPECIFICATIONS                                          | BCRMx-135                         | BCRMx-155     | BCRMx-175     |
|-------------------------------------------------------------------|-----------------------------------|---------------|---------------|
| Dimensions (LxWxH) mm                                             | 1580x940x610                      | 1780x940x610  | 1980x940x610  |
| Total weight, including drive shaft, kg                           | 437                               | 452           | 469           |
| 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 top link pin to 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 <sup>2</sup> /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)                          | 35–45 / 26–33                     | 45–60 / 33–44 | 50–70 / 37–52 |
| Rotor shaft diameter / wall thickness (mm)                        | 108 / 8                           |               |               |
| Trailing roller diameter / wall thickness mm                      | 133 / 4                           |               |               |
| Rotor shaft diameter (rotating) mm                                | 332                               |               |               |
| Beater speed, m/sec                                               | 38                                |               |               |
| Housing material thickness, mm                                    | 4                                 |               |               |
| Side wall material thickness ( ) mm                               | 6                                 |               |               |
| Finish                                                            | Powder coating                    |               |               |
| Beater shape, weight (g)                                          | Hammer, hardened, 1200            |               |               |
| Number of hammers                                                 | 10                                | 12            | 14            |
| RPM rotor shaft                                                   | 2,200                             |               |               |
| Transport case (LxWxH) cm                                         | 160x86x81                         | 180x86x81     | 200x86x81     |

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