

FLAIL MULCHER

Bowell MXZpro Flail Mower

Heavy-duty flail mower with side shift for 70–150 hp tractors



KEY FEATURES

- For tractors with Cat. 2 / 3 three-point linkage
- 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
- up to approx. 160 cm grass height & 50 mm branch diameter
- 240 cm to 260 cm working width
- Angular gearbox from the Italian manufacturer Bondioli Pavesi
- 50 cm hydraulic Side offset

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Applications for hydraulic flail mowers

The **Bowell MXZpro mulcher** series is equipped with a heavy-duty, high-performance **bevel gearbox** from the Italian manufacturer Bondioli Paveli, making it ideal for use with medium and large tractors. With a working width of up to 260 cm and a **hydraulic side shift** of 50 cm, these professional hydraulic mulchers can be used wherever heavily woody plants or branches need to be processed.

The Bowell MXZpro mulchers are therefore **particularly** suitable for **fruit growing and viticulture**, or in tree nurseries, where prunings lie on the ground and need to be mulched.



Technology of the MXZpro mulchers

When used with a suitable tractor, the Bowell MXZpro mulchers are superior to almost any vegetation and enable **high working efficiency** even with

Bowell MXZpro mulchers are fitted with **Bowell Power Efficiency technology** as standard. If your tractor supports a **1000 rpm PTO speed** in addition to the standard 540 rpm, you can also use the mulcher at this higher speed. Simply swap the upper pulley for the lower one on the belt drive and you'll achieve more efficient performance with lower fuel consumption. **Bowell Power Efficiency technology saves fuel** from the very first metre, at no extra cost.

The practical 500 mm **hydraulic side shift on the mulcher** eliminates the need for tedious manoeuvring in tight bends and allows you to mow even under bushes or fences. For this function, you will need a double-acting hydraulic control circuit on your tractor.

Depending on the working width, the MXZpro mulchers are equipped with 18 to 20 of the wide and heavy, specially shaped 1.2 kg **Bowell high-performance flails**, which ensure an optimal mowing result even with stubborn undergrowth, scrub and woody debris up to 50 mm in diameter. The newly developed counter-blades inside the housing of the hydraulically side-shifting mulcher significantly improve shredding performance. The cutting height is adjusted using the heavy-duty, **self-cleaning rear roller**. This prevents the mulcher from digging into the ground when encountering uneven terrain.



The **freewheel gearbox** from the Italian manufacturer Bondioli&Pavesi ensures that, in the MXZpro series, the heavy rotor shaft can continue to rotate after the **PTO drive** has been switched off, without the movement being transmitted to the tractor. Metal slats fitted to the front of the hydraulic mulcher prevent stones and other foreign objects from flying off.

In addition to the PTO shaft, the heavy-duty metal tines are also included in the scope of delivery and can be fitted to the rear of the hydraulically adjustable mulcher as required. These specially shaped metal tines ensure that branches are thrown back into the flail mulcher until they have been chopped down to a size small enough to pass through the row of solid steel tines.

The **Bowell MXZpro mulchers** can thus thoroughly shred even coarser **branches**. Whilst these flail mulchers are popular in Northern Europe for use in fruit and vine cultivation or on woodland meadows, olive groves are the preferred application in Southern Europe. The metal tines can be removed for normal mulching work.

The **rear flap of the mulcher**, designed as a maintenance hatch, can be opened wide. This gives you easy access to the rotor shaft for maintenance work.

MXZpro flail mowers are delivered largely ready for use, assembled in sturdy Bowell wooden crates. Only the 3-point hitch needs to be fitted.

The MXZpro mulchers are fitted with **SKF ball bearings** on the rotor shaft, which are anchored in solid, CNC-machined bearing seats. The new stainless steel grease nipples are conveniently located on the outside of the mulcher housing, which not only makes maintenance easier but also protects them from dirt and damage.



SKF ball bearings

The Bowell flail mowers are fitted with an **electronically precision-balanced flail shaft** driven by five 17 mm wide V-belts. The new belt cover allows the **belt tension** to be checked in seconds without having to remove the belt drive cover.

The heavy-duty free-wheel gearbox runs in an oil bath, so the gearbox oil must be topped up before commissioning. The special gearbox oil is, of course, included with the delivery or has already been filled in.

Beneath the heavy, solid cover made of double-walled steel sheet up to 10 mm thick (inner housing made of ^fHardox®) lies a laser-balanced rotor shaft with 18 to 20 high-performance flails, each weighing approx. 1.2 kg, which can be replaced individually.



The flails rotate, driven by the tractor's PTO shaft at up to 2270 rpm, and shred the cut material to a minimum so that it can decompose quickly. The heavy rear roller ensures smooth operation.

The new Bowell 5-belt drive ensures almost 100% power transmission, even with these large working widths and despite the high weight of the flails, with barely measurable power loss and minimal wear.



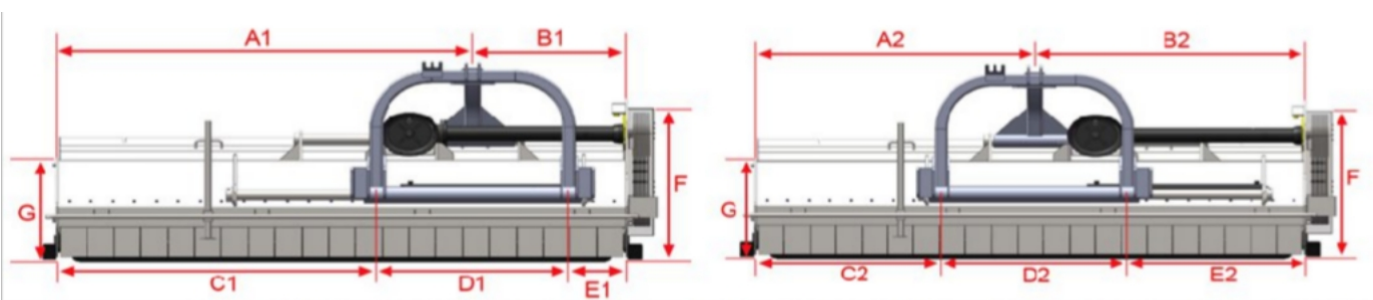
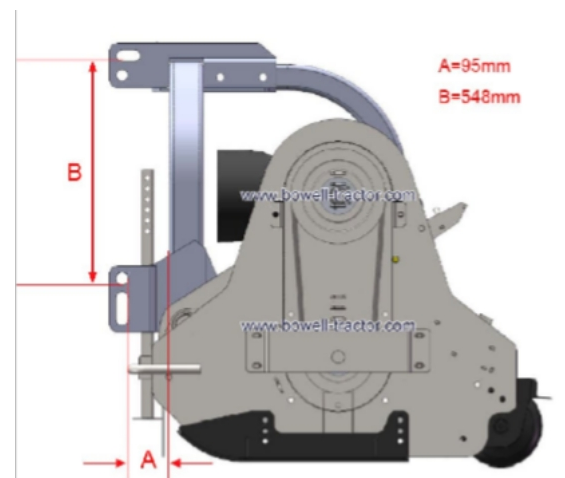
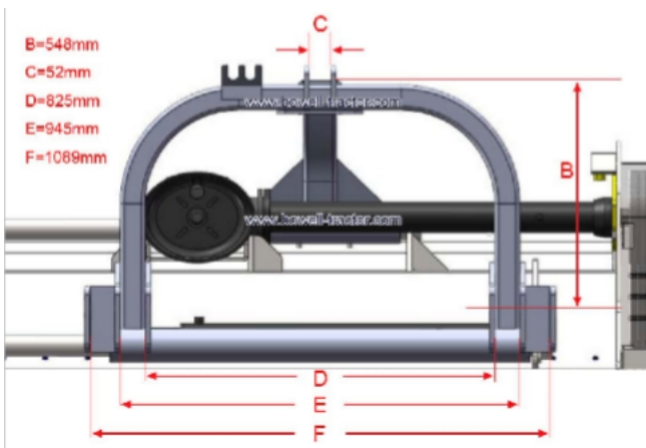
How is the MXZpro mulcher positioned behind your tractor?

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

Let's assume your tractor is 110 cm wide from its centre to the outer edge of the right-hand tyre (i.e. 220 cm total width); in that case, the mulcher should extend more than 110 cm to the right of the tractor's centre. This allows the mulcher to mow to the right of the right-hand rear wheel. This would allow you, for example, to keep the tractor at a slight distance from a fence, bush, tree or shed whilst still mowing flush with the edge.

The three-point hitch on this model can be moved hydraulically. The values A1, B1 etc. and A2, B2 etc. below result at the respective end points of the movement.

If, in the example selected here, the flail mower is to extend more than 110 cm to the right of the centre of the tractor, both MXZpro models (A1 = 1713 mm and 1913 mm respectively) would be capable of doing so with an additional 60 cm and 80 cm respectively.



	A1(mm)	B1(mm)	C1(mm)	D1(mm)	E1(mm)	F(mm)	G(mm)	A2(mm)	B2(mm)	C2(mm)	D2(mm)	E2(mm)
MXZ-PRO-240	1713	706	1269	885	266	746	492	1129	1290	687	885	848
MXZ-PRO-260	1913	706	1469	885	266	746	492	1329	1290	887	885	848

TECHNICAL SPECIFICATIONS	MXZpro-240	MXZpro-260
Dimensions (LxWxH) mm	2580x1090x1000	2780x1090x1000
Total weight incl. drive shaft kg	780	810
Working width cm	240	260
Recommended grass height (cm)	< 160	
Adjustable cutting height mm	40–95	
3-point tractor hitch	Cat 2 / Cat 3	
Tractor PTO clockwise rpm	540 / 1000	
Hydraulic side shift cm	50	
Length of hydraulic hoses cm	185 / 245	
Drive shaft length mm	1000	
Distance from top link pin to ground, min/max mm	882 / 975	
Distance from lower link pin to ground min/max mm	362 / 455	
Distance from PTO connection to ground min/max mm	614 / 662	
Working capacity (approx. values) m ² /h	14,000–28,000	16,000–31,000
V-belt number / width mm	5 / 17	
Recommended tractor engine power HP/kW	70–120/52–88	80–150/59–110
Rotor shaft diameter / wall thickness mm	168 / 10	
Trailing roller diameter / wall thickness mm	196 / 6	
Rotor shaft diameter (rotating) mm	392	
Beater speed m/sec at 540/1000 rpm	44 / 47	
Housing wall thickness mm	5+5 (double-walled)	
Side wall material thickness () mm	10	
Finish	Powder coating	
Mallet shape, weight kg	Hammer, hardened, approx. 1.2	
Number of hammers	18	20
rpm rotor shaft 540 / 1000 rpm	2140 / 2270	
Transport crate (LxWxH) cm	265x115x120	285x115x120

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