TLBE-S

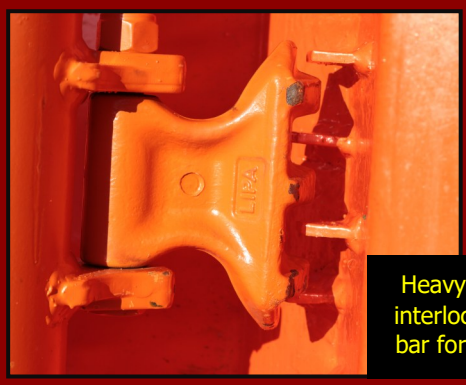
Heavy Duty Flail Mower For 10,000 - 20,000 lb Mini Excavators

Please click the QR code to the left, or enter "Needham Ag LIPA TLBE-S Flail Mower" into YouTube to see a video of this mower in action!

The TLBE-S heavy duty flail mower is perfect for mowing and shredding grass, brush and small trees up to around 4" in diameter. Larger diameters are possible with slow and careful operation, especially with soft wood and higher AUX flow). These mowers are designed to work in areas too steep or too unsafe to mow with tractors or skid-steer loaders. The TLBE-S range is designed for larger mini excavators which weigh between around 10,000 and 20,000 lb and those which have sufficient oil flow (see auxiliary oil flow requirements in chart below).



Optional hydraulic hoses are available from Needham Ag





Heavy Tri-Tooth flails with interlocking stationary knife bar for increased mulching.

Model	Overall Width (inches)	Cutting Width (inches)	Weight (lb) *	Rotor Speed (RPM)	Required Oil Flow (gal/min)	Ideal Oil Pressure (PSI)	Number Of Flails	Number Of Drive Belts	Price $
TLBE-S 90	41	37	760	2300	17-23	3000-3500	7	3	7890
TLBE-S 100	45	41	820	2300	20-26	3000-3500	7	3	8490
TLBE-S 120	53	49	880	2300	22-28	3000-3500	8	3	9090

* Approximate weight, with typical mounting bracket and optional hydraulic hoses.

Standard Equipment

- Excavator hookup linkage for most mini excavators, but some will require a specialist mount (which will incur an additional charge). Mounting pins are not included in the prices above.
- High torque group 3 hydraulic gear motor, with anti-cavitation block.
- Electronically balanced, heavy duty 5.5" Diameter rotor with tri-toothed flails.
- Heavy duty, adjustable rear steel roller with adjustable scraper.
- Heavy duty lateral skids.
- Chains across the front and rubber flaps front and back to help control flying debris.

Options



TLBE-S Oscillating Saddle

The oscillating saddle is a heavy duty parallel linkage which allows the mower to follow the ground much better on the rear roller. Its purchased by around 80% of customers and recommended if you plan to mow a lot of undulating ground. It adds around 120 lb to the mower, so its only recommended for

1250



TLBE-S Flow Regulator

The flow regulator is required for mini excavators which have higher auxiliary flow than what the mower is designed for (and they don't have the ability to reduce the auxiliary flow on the excavator). The flow regulator allows precise auxiliary flow adjustment, to set

850

CONFIGURING A LIPA FLAIL MOWER FOR YOUR MINI EXCAVATOR

To make sure your mini excavator is safe, stable and efficient when using a flail mower, it is critical to select the correct size and weight of flail mower and compare them to the manufacturers lift ratings. This is especially important if you plan to do a lot of mowing on rolling ground or with the mower fully extended.

You will also need to know the maximum auxiliary oil flow (and pressure) available, to maximize the mowers performance. These numbers are often reported within the manufacturer literature, but not always. Many newer mini excavators (including Bobcat, Cat and Kubota) come standard with auxiliary flow adjustment, so if your flail mower requires 15 gallons per minute of flow (for example), these machines allow you to adjust the flow up or down (which is a nice feature to optimize performance). Older mini excavator models (with more auxiliary flow than what the flail mower is designed for) will either require manual adjustment to limit the oil flow, or the purchase of the optional Lipa flow regulator. This flow regulator allows the oil flow to be adjusted up or down on the mower itself.

Please contact Needham Ag to help us configure the most suitable flail mower for your excavator size/weight and its hydraulic flow/pressure.



The image to the left shows a Lipa TLBE-100 on a CAT 304CR mini excavator. This 9800 lb machine had a maximum auxiliary flow of 18.5 gallon per minute. The TLBE-100 only requires 15-16 gallons per minute, so we added an optional flow regulator to regulate the flow down. By adjusting the flow, the rotor speed can be set to around 2300 RPM, to optimize the mower performance and maximize flail life.



The Lipa TLBE-100 shown in the image left is fitted with the optional oscillating saddle. This is an excellent option if mowing a lot of uneven ground. This is because it allows the mower to follow the ground much better with a lot less operator adjustment. The TLBE mowers do not come with hydraulic hoses, these can be supplied by Needham Ag, or sourced locally.

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We have lots of videos showing the Lipa flail mowers on YouTube, you can type "Needham Ag Lipa TLBE-S" to see them in action. You can also visit our Facebook group at "Lipa Mowers And Mulchers" to see lots of different videos of them in action!