TLBE

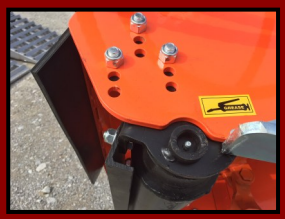
Flail Mowers For 4000 - 12,000 lb Mini Excavators



Optional hydraulic hoses are available from Needham Ag

No Case Drain Required





Please click the QR code to the left, or enter "Needham Lipa TLBE" into YouTube to see a video of the Lipa TLBE mower in action!

The Lipa TLBE range of flail mowers are the perfect choice for mini excavators. They can mow and mulch grass, brush or small trees up to around 2-3" inch in diameter, but larger materials are possible with slow and careful operation (especially in soft wood). They are ideal for areas too steep or too unsafe to mow with a tractor or skid-steer, such as around ponds or steep banks.

The Lipa TLBE flail mower range is designed for mini excavators which ideally weigh between 4000 and 12,000 lb and have sufficient oil flow. They feature heavy duty construction, with front safety chains, plus a front and rear rubber flap to help control flying debris.

All TLBE flail mowers come standard with an adjustable rear roller which sets the mowing height above the ground. This extends flail life by helping keep the flails out of soil/rocks.

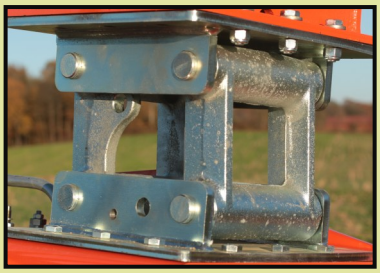
Model	Overall Width (inches)	Cutting Width (inches)	Weight (lb) *	Rotor Speed (RPM)	Required Oil Flow (gal/min)	Ideal Oil Pressure (PSI)	Number Of Flails	Number Of Drive Belts	Price $
TLBE-50	26	21	440	2000	7 - 10	3000	6	2	5490
TLBE-70	34	29	490	2000	10 - 14	3000	7	2	6290
TLBE-90	41	37	560	2000	12 - 17	3000	9	2	7090
TLBE-100	42	41	590	2000	15 - 20	3000	10	3	8090
TLBE-120	53	49	700	2000	18 - 22	3000	12	3	8890

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

Standard Equipment

- Excavator hookup linkage (for most mini excavators, please contact us to confirm availability). Pins not included.
- Electronically balanced, heavy duty rotor with staggered heavy steel flails.
- Heavy duty adjustable steel roller, with adjustable mud scraper.
- Heavy duty lateral skids.
- Chains across the front and rubber flaps front and back to help control flying debris.

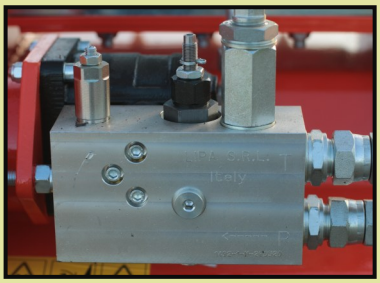
Options



TLBE Oscillating Saddle

The oscillating saddle is a heavy duty parallel linkage that allows the mower to follow the ground better, on the rear roller. It's purchased by around 75% of customers and it's recommended if you plan to mow a lot of undulating ground. It adds around 88 lb to the mower, so its only recommended for larger mini excavators with sufficient counterweight.

950



TLBE Flow Regulator

The flow regulator is only 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 the rotor speed to around 2000 rpm, to optimize its operation.

700

Prices and specifications can change, so please visit our website at needhamag.com for the most current information.

Please click the QR code to the left, or enter "Needham Lipa TLBE-D 60" into YouTube to see a video of the Lipa TLBE-D 60 mower in action!

TLBE-D

Flail Mowers For 3500-4000 lb Mini Excavators

The Lipa TLBE-D 60 flail mower is designed for 3500-4000 lb mini excavators, ideally with hydraulically adjustable undercarriage (extended for safety and stability) especially when mowing perpendicular to the tracks.







The TLBE-D 60 is designed for mini excavators with 7-10 gallons per minute of auxiliary flow. Compatible mini excavators include the Deere 17G/17P, Kubota U17/KX018, Cat 301.7/302, Takeuchi TB216, JCB 18Z-1/19C-1 and Bobcat E20. We have most pin style and quick couplers in stock, but please contact us with your machine type and coupler style to check availability and price.

The TLBE-D 60 features a heavy duty Casappa hydraulic motor and a direct drive to reduce weight. The motor is covered with a heavy duty stainless steel end shield for protection, as shown in the image below left.



No Case Drain Required

The TLBE-D 60 can mow and mulch grass, brush or small trees up to around 2" in diameter (with at least 8 gallons per minute of auxiliary flow). These mowers are suitable for mowing areas too steep or too unsafe to mow with a tractor or skid-steer, such as around ponds or steep banks. The adjustable rear roller sets the mowing height above the ground and helps keep the flails out of soil and rocks to extend their life.

Model	Overall Width (inches)	Cutting Width (inches)	Weight (lb) *	Rotor Speed (RPM)	Required Oil Flow (gal/min)	Ideal Oil Pressure (PSI)	Number Tri-Flails Sets	Price $
TLBE-D 60	34	25	370	2300	8 - 10	2500	7	4990

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

Standard Equipment

- Excavator coupler is included to fit most mini excavator couplers. However, some will require a specialist mount (which will incur an additional charge), so please contact us directly. Mounting pins are not included, but are available as an option.
- Electronically balanced, heavy duty 4 1/4" diameter rotor, with 7 sets of scrolled tri-flails as shown above.
- Heavy duty adjustable steel roller, with 3 vertical settings, and adjustable scraper to help keep the roller clean.
- Safety chains across the front, plus rubber flaps front and back (as shown above), to help control flying debris.

Prices and specifications can change, so please visit our website at needhamag.com for the most current information.

CONFIGURING A 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.

NEEDHAM
Ag Technologies, LLC.

Phone: (270) 785 0999
Email: phil@needhamag.com
Website: needhamag.com

We have lots of videos showing the Lipa flail mowers on YouTube, you can type "Needham Ag Lipa TLBE" 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!