

MUS-MAX® Wood chip hopper filling

PROVEN HOPPER FILLING SYSTEMS



Hopper filling systems – Version 2014

Quality that counts

Mus-Max builds simple suction and trough-type blowers for electric motors and tractor drives, as well as screw conveyor systems with throwing mechanism.



Trough-type blower can be handled with forklift – simple to load



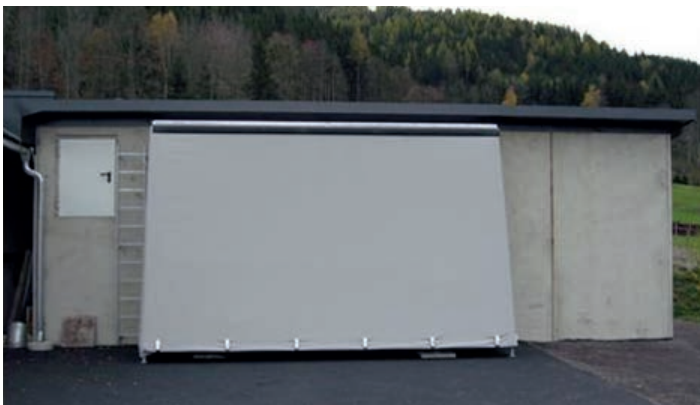
Tractor blower with suction mechanism – container feeding



Quality woods chips as per Önorm EN 14961-1 / Önorm M 7133



Tractor blower with swivel-mounted trough – high output



Winter and rain-proof with canvas – the blower is protected



Suction blower with suction hose – can be used anywhere



Trough-type blower with return suction mechanism – for dust-free working



Trough-type blower with electric motor – ideal up to 30 m³/h



Wood chip blower

For professional tipper truck unloading.

The very latest in conveyor blowers for wood cuttings make possible relative dust-free conveying – reliably and without problem. Many years' experience gained by Mus-Max in wood chip conveying equipment means the mobile blowers are very user-friendly, extremely powerful and above all proven in the field.

Output: to 40 m³/h



WOOD CHIP TROUGH-TYPE BLOWER:

Practical in application and with many new features borne out of 25 years' experience



TROUGH-TYPE BLOWER: The low fill chute means the sturdy trough-type screw blower with robust spiral design can be filled easily with every tipper truck. Vertical heights to 25 metres can be reached with conveyor equipment. The chute attachment panel can be removed and reinserted for feeding on both sides. The blower blade is electronically balanced.

- **Top filling trough 3 m:**
Extra low for all tipper trucks
- **Top blower:** Highest throw capacities with special pressure blade

Continuity creates trust, trust creates success.

NEW ● **electronic switch box with Emergency Stop switch**

The screw conveyor speed is infinitely adjustable using a frequency regulator. An amperemeter is fitted to monitor for overloading. It is possible to reverse the screw conveyor by a short distance to clear blockages.



Better is the enemy of good

Quality lies in the detail:

Here everything is solved neatly



A cable switch and special Emergency Stop mechanism are fitted for increased safety at work. The screw conveyor is also stopped when the cable breaks.



The tow coupling is height-adjustable and removable. This means the storage area is shorter.



The wheels guarantee perfect stability. The large wheels can be lifted up such that the blower is resting on the floor, and the small wheels are slowed with a foot.



The volume of wood chips is adjusted with the slider at the entrance to the blower.

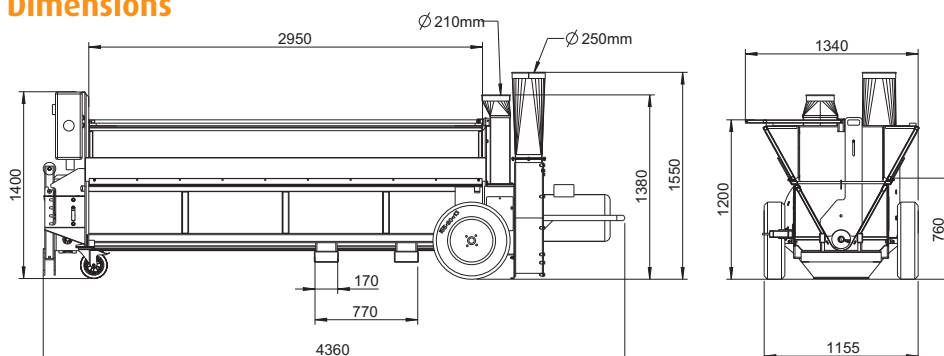


Cyclone: for essentially dust-free filling; always lay blow lines at an angle of about 30° upwards. Horizontal blow lines are not suitable.



Return suction mechanism: Air blown into the hopper can be drawn back into the blower using a hose - this generates less dust than with hopper filling.

Dimensions



TECHNICAL DETAILS OF TROUGH-TYPE BLOWER

Blower with 3 m discharge chute:

Blower	kW	11
Screw	kW	4
Pipe Ø	mm	210
Conveyor height ~	m	12
Max. conveyor width (increasing)	m	15
Trough length	m	3
Output ~	m ³ /h	20-25
Wood chips		G30 / G50

Blower with 3 m discharge chute:

Blower	kW	15 / 18.5
Screw	kW	5.5
Pipe Ø	mm	250
Conveyor height ~	m	20
Conveyor width ~	m	15
Trough length	m	3
Output ~	m ³ /h	30-40



SUCTION BLOWER: An ideal device for smaller heating systems. The blower is also used for refilling wood cuttings from the storage area to the container room discharge. It is available as a wood chip suction blower with electric motor (11 – 18.5 kW) or tractor (usable with a filler hopper or with a suction hose from tipper slot or floor).



Air can also be drawn back from the hopper.

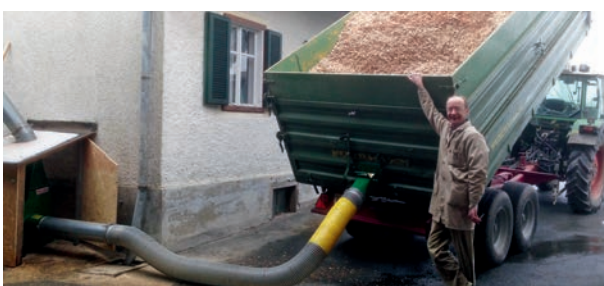
Nothing is more valuable than the trust of customers – we have it!

Technical details of SUCTION BLOWER

Wood chip suction blower:			Suction blower / swivel-mounted for tractor:		
Blower	kW	11	Gear drive	rpm	1000 (540)
Pipe/intake connector Ø	mm	210	Pipe connector ø 2x	mm	250
Conveyor height ~	m	12	Conveyor height ~	m	20
Max. conveyor width (increasing)	m	10	Conveyor width ~	m	15
Output ~	m³/h	15-20	Output ~	m³/h	30-40
Suction blower / swivel-mounted for electric motor:			Feed hopper:		
Blower	kW	15; 18.5	Suction pipe ø 250	mm	L 1000 / W 500
Pipe connector ø 2x	mm	250	with air valve		
Output	m³/h	20-25	Pipe Ø	mm	200
Merz:			ø cone 250 open		
Star delta switch with EURO connector as standard			Air intake 0.5 m with grip		
			Connector piece for hose		
			mm		
			200		

SUCTION BLOWER Convincing arguments

- **Top suction capacity:**
Highest capacity with rubber suction hose
- **Top flexible:**
All blowers swivel-mounted, few pipe elbows, increased capacity
- **Top blower:**
Electronically balanced pressure blade with extra strengthening
- **Top cyclone:**
Ensures relatively dust-free conveying
- **NEW:**
A dust return suction device can be fitted to the trailer



Return suction device for hopper connection

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Tractor wood chip blower with swivel-mounted filler trough

For quick filling at wood cuttings storage area.

The lower height of the hydro tractor blower means it is fillable easily and also lends itself to the conveying of pellets, wood shavings, etc.

Output: to 50 m³/hour.



Can be used for a diversity of applications

Can be used with tractors rated at 50kW/68HP and higher.

The blower is driven by the tractor's power take-off shaft. The fill trough can be swivelled by about 60°.

The trough-type screw is driven by the tractor's hydraulic system. Vertical heights to 25 m are reachable with conveyor equipment, and 5 – 15 m conveyor widths possible (increasing). A cable safety shutdown mechanism provides the necessary safety whilst working.

The variant with a 2.8 m wide fill trough means any tractor tipper can be used for filling. A cyclone ensures less dust in the wood cuttings area.



Convincing arguments

- Top cable safety shutdown mechanism:**
 With hydraulic solenoid valve and plug for light connector. The screw conveyor stops when pressure is applied to the cable
- Top speed:**
 Speed of conveyor screw infinitely adjustable
- Top reverse:**
 Short reverse movement of the screw is possible
- Top dust-free:**
 A cyclone ensures dust-free working
- Top blower lines:**
 They can be laid at angles of 30° upwards or downwards
- Top dust-free:**
 Every trough-type blower has a return suction mechanism for keeping workplaces clean

Technical details of hydro tractor blower

Transport width	m	2.5
Trough length	m	2.8
Trough height	m	0.65
Swivellable	about	60°
Conveyor height to	m	25
Conveyor width (increasing)	m	5-15
Pipe Ø	mm	250
Universal shaft for tractor's PTO shaft		rpm 1000
Power requirement	from HP	68
Screw conveyor drive: from tractor hydraulic system – dual-effect controller	l/min	approx. 40
Pipe parts zinc-plated		
Lengths available	m	0.5/1/2
Pipe elbows from 15 to 90° (15/30/45/60/90°)	mm	Radius 700
Pipe elbow 90°	mm	Radius 1450
Stainless steel pipe clamp Ø	mm	250
Output	m³/h	30-50





Wood chip inclined conveyor with throwing mechanism

The trough screw conveyor uses a 3 m long feed trough to convey wood chips directly to the inclined screw conveyor. Attached at the top end is a throwing mechanism which throws wood chips a few metres into the hopper.





The wood chip inclined conveyor can be lowered statically into a concrete pit. The fill opening on the feed trough can then be raised

from control panels. It is ideal for front-end loaders and tipping trough feed. The concrete bay can then be covered and driven on.



The inclined screw conveyor with throwing device is often secured permanently in the hopper. The throwing device on the top can be turned from un-

derneath using a lever arm and geared ring. This swivel-mounted throwing mechanism enables the receiving hopper to be filled better in the corners.





A drivable, 3 m long fill trough with four wheels can be removed quickly from the inclined conveyor.



For the inclined conveyor there is also a small filling chute for intake via the grain slider of the trailer. For

this movable trough variant, the trough can be stored elsewhere after filling.



The low height of the trough conveyor is suitable for all popular tipper trucks. The trough can be filled from both sides by switching the rear panel.



The amount of wood chips supplied in the filling trough can be adjusted with a slider with easy height adjustment.

Less energy, less dust, less noise



An electric control unit ensures best possible safety whilst working and simple operation of the system.



The screw conveyors stop when the cable switch is activated (Emergency Stop). The screw conveyors can be reversed for a short time to immediately clear a fault (blockage).



Compact delivery: Suitable for self-installation

Technical details for *inclined Conveyor*

Trough-type screws: Length: 3 m, 4 m, 5 m, 6 m, 7 m, 8 m

Screw conveyor: Spiral diameter = 200 x 200 mm

Power connector: To length of 6 m 5.5 kW gear motor
Lengths 7-8 m 7.5 kW gear motor

Wood chipping throwing mechanism Housing swivel-mounted

Throw blade - slow-running Power connector: 4 kW electric motor

Electric switch box with Emergency Stop switch

For filling trough, inclined conveyor and throwing mechanism for cable shutdown, Emergency Stop function and amperemeter.

Wood chip filler trough with protective grid, regulating slider and CE cable shutdown with lifting plates for forklifts, movable with 4 swivel-mounted wheels or with 4 fixed-position feet.

Filling trough dimensions: Length 3 m, width 0.7 m, height 0.7 m

Screw conveyor: Diameter = 140 x 140 mm

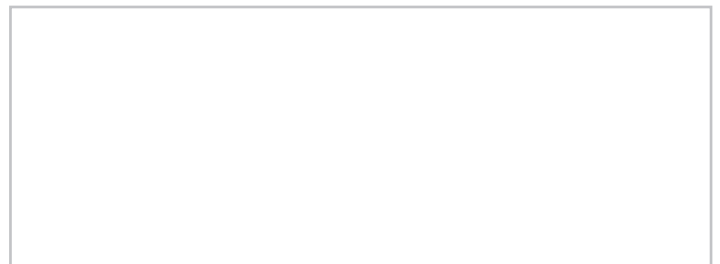
Power connector: 5.5 kW gear motor

Output: 25-45 m³/h

Convincing arguments

- Wood chip delivery rate 25-45 m³ per hour (depending on conveyor angle)
- Low trough fill height - 0.7 m - suitable for any tipper truck or tipping trough
- Low power consumption: trough 5.5 kW; conveyor 5.5 kW; throwing device 4 kW
- Environmentally-friendly: less power, less noise, less dust
- Prolonged service life: largely dimensioned gear motors; sturdy, low-wearing components

This quality product from MUS-MAX is handed over by:



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