

ALLU Windrow Turner

Effective working machines for treatment of compost and contaminated soil.

ALLU AS



ALLU AS 38H Windrow Turner

ALLU AS 38H designed for difficult materials and conditions

ALLU AS 38H Windrow Turner is designed for the treatment of different materials, from compost to contaminated soil stabilization and mixing. The ALLU AS can be operated in the most difficult conditions and is presently at work in a number of countries worldwide from the Arctic Circle to the Arabian Desert.

ALLU AS 38H, heavy duty design

ALLU AS 38H is a track driven machine powered by a diesel engine. The AS 38 can also handle mixing and aerating of heavy density materials and soils.

Patented mixing drum

The efficiency of the windrow turners is based on the patented mixing drum, which will give complete mixing and aeration with minimum power requirements. This is very important in order to speed up the working of micro organisms in the composting process. When the mixing and aeration is done often enough, it also essentially reduces the odor emissions from the composting.

New business possibilities

In the last few years, the environmental standards of road construction and utilization of contaminated soil have tightened considerably. New working areas are coming forth, like bentonite mixing for groundwater protection on road slopes or cleaning of oil-contaminated soil by composting it. For these demanding and very difficult jobs the users all over the world have chosen the ALLU AS 38 H – windrow turner. High capacity and heavy duty construction of the ALLU AS make it technically superior.





Auto power drive

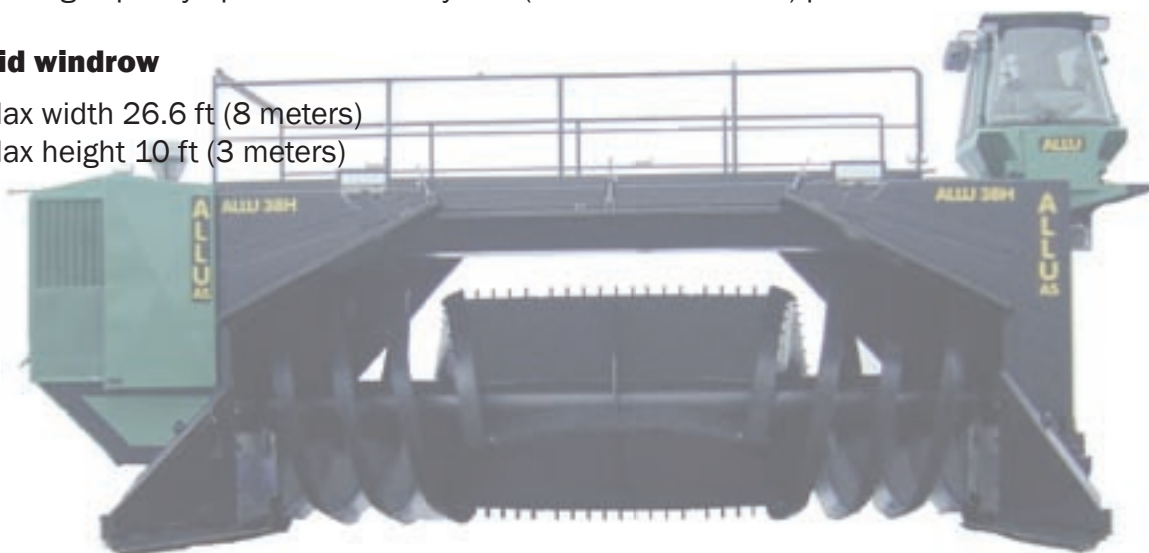
If the speed of the drum decreases under the adjusted limit the driving speed is automatically reduced in order to prevent the overload. When the overload is eliminated the driving speed returns automatically to the original power level without readjusting the joysticks.

Technical data

- 330 kW / 450 hp Mercedes-Benz inter-cooled turbo diesel engine
- Length of mixing drum is 20.8 ft (6,33 meters)
- Diameter of mixing drum is 7.2 ft (2,25 meters)
- Automatic power drive
- Fully equipped cabin
- Driving is controlled with two joysticks
- Turning capacity up to 7800 cubic yards (6000 cubic meters) per hour

Trapezoid windrow

- Max width 26.6 ft (8 meters)
- Max height 10 ft (3 meters)



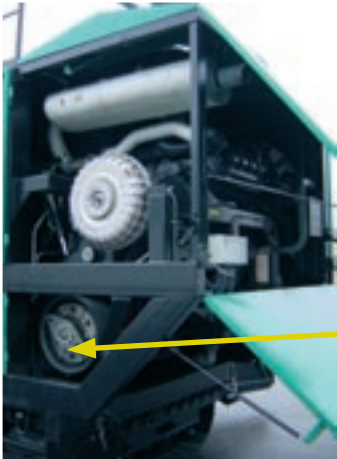
ALLU Technical details

Engine

The Power of the engine has been utilized effectively: Mechanical transmission of the power ensures the minimum loss of energy.

Electrical system

24 VDC, 2 pcs 12 VDC heavy duty batteries



ALLU AS is easy to maintain and service due to easy to access all components and service points.



The safety pin in the power transmission protects the construction if the drum hits the solid ground.



The large radiator ensures the effective cooling even in warm and dusty conditions.

Mixing Drum

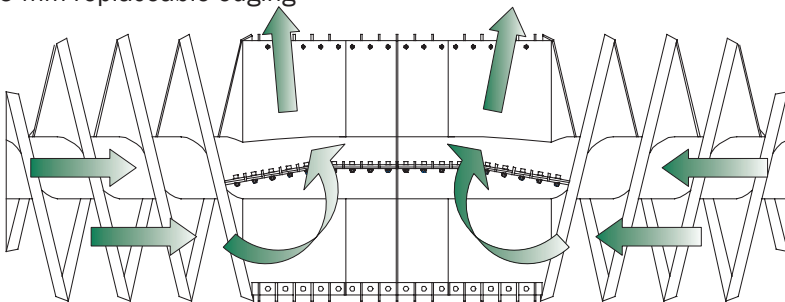
Unique patented construction of the drum with replaceable cutting edge makes it possible to handle heavy materials like contaminated soils with high capacity and low wear costs. Processing of contaminated soils on several locations has proved the effectiveness of the ALLU AS 38H frame and drum structure.

Diameter: 7.2 ft (2.25 m)

Length: 20.8 ft (6.33 m)

Ground clearance: adjustable up to 190 mm

175 mm replaceable edging



- 100% aerating
- Effective mixing
- Changeable wear parts
- Cutting edge reduces the need of power
- No paddles or flails



Unique unit body of the changeable cutting edge reduces the power requirements. All wearing parts are changeable.

Safety Cabin

The user operates the machine from a fully equipped safety cabin. The cabin can be lifted vertically about 5.6 ft (1,7 meters) allowing for a perfect view of the windrow material.

The full equipped safety cabine in designed and manufactured to meet the requirements of demanding users. The cabine can be easily lowered down during transportation.

- Heat isolation
- Air conditioning / heating
- Dust separation
- Front / back lights
- Complete operation control
- Windscreen wiper
- Adjustable seat
- Radio/cassette
- Remote control unit for tracks for loading and unloading from a transport platform
- Activated charcoal filter (option)



The driving speed is variably controlled with two joysticks inside the cabin. Both tracks can be individually controlled which ensures a small turning radius and good controllability. The turner is delivered with a remote control unit, which ensures an easier and safer drive to and from a transportation platform.



The cabine can be shifted down for the transportation or storing. The movement of cabine is 4.83 ft. (1,45 m).

Easy transportation

The transportation of ALLU AS is easy and do not require special permits in most countries when transported in a low bed trailer.

One man can easily load the ALLU AS to a trailer by using the remote control.

Ideachip retain the right to make changes to ALLU AS windrow turnes due to continuous product development.

ALLU AS
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ALLU Windrow Turner Jobs

Composting organic and green waste in USA



There are numerous sites that use the ALLU AS 38H in handling compost from green and organic waste. The ALLU AS 38H can turn large windrows and is easily transportable from site to site making high quality compost for cost-effective production.



Handling contaminated soil in USA



In this site the TNT contaminated soil is handled by ALLU AS 38H. The contaminated soil is from an army training area. The ALLU AS 38H mixes the material with e.g. industrial organic waste and other organic material to compost the soil.



Handling contaminated soil in UK

In UK the contaminated sludge was dredged from the sea bottom. The target was to clean the sludge by processing it with ALLU AS 38 and then build a blockhouse on the site.



Handling contaminated soil in Finland

Biomaa Oy is a Finnish company specializing in cleaning contaminated lands and composting. In the site in Finnish town Hyvinkää they compost waste water sludge from the close waste water purification station. The most commonly used mixing material is wood chips. The end product is used mainly in green construction.



ALLU products for soil improvement



e.p.m - Powder Spreader - spraying of binding agent



ALLU Screener Crusher - mixing/screening of soil and binding agent



ALLU PM Power Mix - mixing soil and binding agent in mass stabilization



ALLU AS Windrow turner - mixing soil and binding agent in large volumes

ALLU products for soil improvement

www.allu.net



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