



DM 215 E



ALLRECO MIXER DM 215 E

Three-shaft horizontal mixer for intensive kneading and mixing

The DM 215 E has three mixing screws within a 15m³ mixing chamber. The upper two screws convey the feed material into the opposite direction of the lower mixing screw. In consequence the feed material follows a circulating motion, gets homogenized and mixed. The continuously variable dosing gate ensures the controlled and constant discharge of the mixed product.

In case of batchwise operation the gate can be set to open and close

in certain intervals. The ALLRECO Mixer is applied to homogenize organic or mixed waste, soil, and sludge. Large, smoothly operable service doors are installed in order to ensure save maintenance of the machine.

Exact mixtures can be prepared and additives such as lime can be applied using an optional set of weighing cells. Other optional pieces of equipment are a cover lid for the mixing chamber to avoid dust emissions and a conveyor

belt for the discharged product.

The most important machine functions can be operated via optional remote control from out of a wheel loader, thus enable one-man operation of the DM 215 E.

ALLRECO. KOMPLETT. DURCHDACHT.

It all started in Niederberg in the "Bergisches Land" region. Hedwig, Werner, and Josef Doppstadt established the "Doppstadt" agricultural contractor company. Today the passion for technical innovations, inventiveness and the perception of market requirements are still the fundamental motive forces for the successful creativeness of the Langenberger Innovation

Group (LIG) with the 2nd generation of shareholders. ALLRECO, with a long Doppstadt history, is directly owned by the LIG since 2021.

Our core business includes machines and plants for the processing and separation of waste wood, MSW, commercial and industrial waste, biomass processing and refuse-derived fuel production.

We are a team of highly qualified and experienced employees, and we can offer our customers tailor-made high-quality machines and completely thought-out plant solutions to meet their requirements.

With a lot of flexibility and inventiveness, we are ready to move great things with you!



THE PROCESS RESULT

The application of the ALLRECO Mixer is the homogenization of organic waste or, materials such as:

- Green waste and tree clippings
- Biowaste
- Contaminated soil
- Sludge
- Compost
- Certain additives (e.g. lime or bark mulch)

The throughput in continuous operation is around 100m³/h depending on the material. In case of batch operation depending on the mixing time and loading speed, throughput is accordingly less.

The process goal may be:

- Immobilizing moisture
- Adding structure for better aeration
- Neutralize or adjustment of pH using additives
- Setting the desired nutrient balance
- Homogeneous inoculation for biological treatment or soil remediation

OPTIONS:

The material follows a circular motion within the mixing chamber due to the counter-conveying mixing screws. In the case of loading via wheel loader, an optional hopper enlargement can be installed to prevent material from spilling down the sides of the machine. A hydraulically operated cover, controlled by remote can be opened for loading and closed to reduce emissions of dust and steam from the mixing chamber. Further options are water application system, weighing system and Profibus integration.



ADVANTAGES IN DETAIL

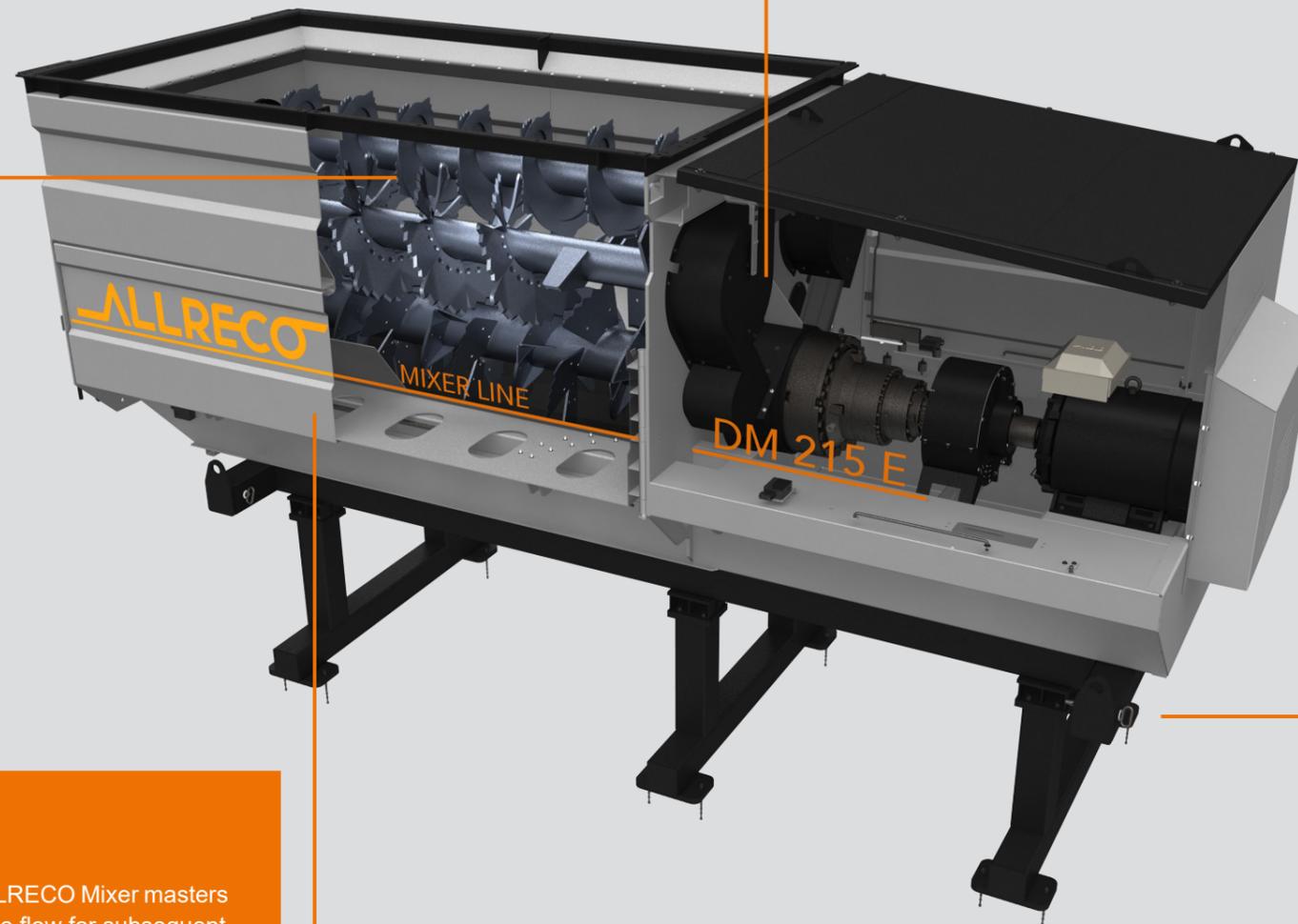
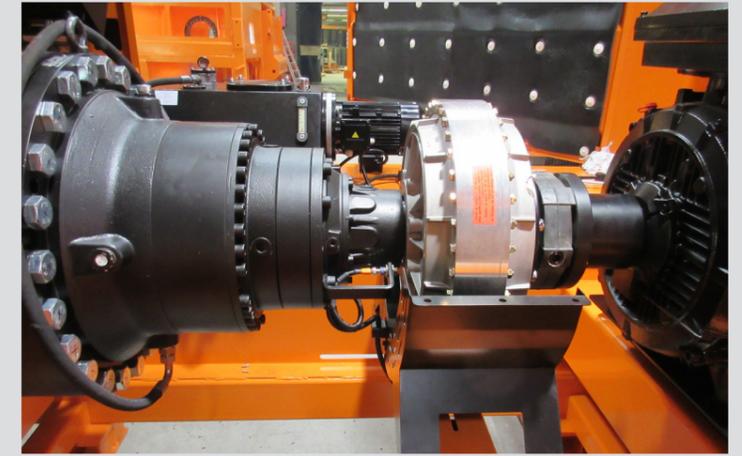
MIXING SHAFTS

Three horizontal screws accomplish the mixing work. The segments made of wear-resistant materials are positioned at different pitch angles and are easily replaceable.



DRIVE

The machine is driven by a 160kW electric motor. The connection between the motor and the planetary gear unit is automatically disconnected in the event of an excessive load via a turbo coupling with renewable fuses.



WEIGHING CELLS

With the help of an optional set of weighing cells exact mixtures can be produced and additives such as lime can be applied.

MAINTENANCE DOORS

The hopper walls of the 15m³ mixing room are designed as hinged doors and thus allow easy cleaning and replacement of the wearing parts.



ADVANTAGES AT A GLANCE:

With its three robust mixing screws and a capacity of 15m³ the ALLRECO Mixer masters the most demanding applications and provides a constant volume flow for subsequent process steps.

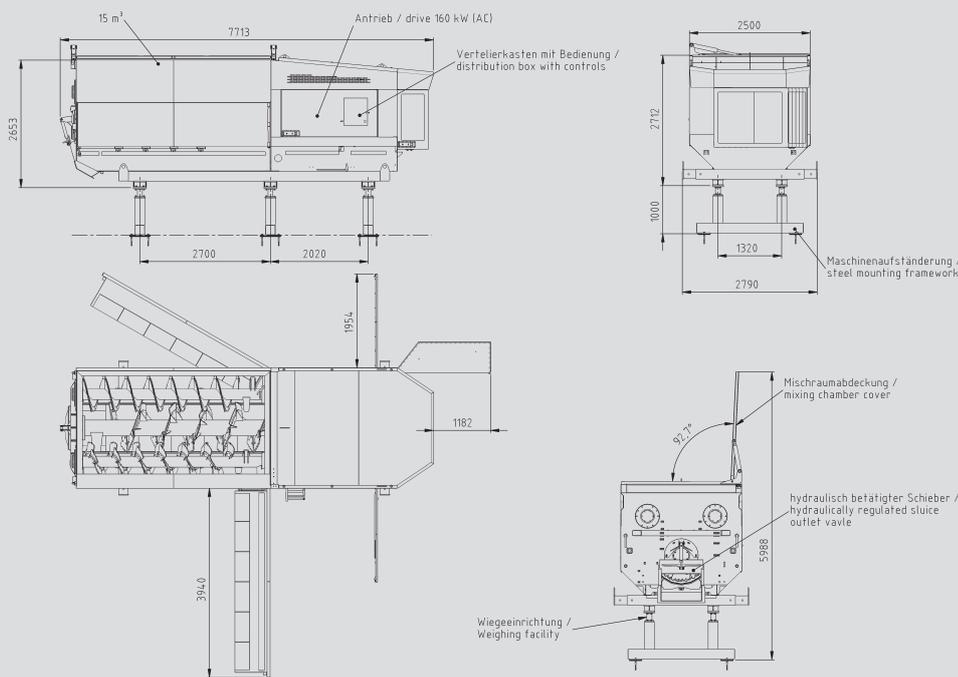
- Variable mixing behaviour due to interchangeable shovel plates on the screw flight (smooth or toothed)
- Robust, non-sensitive process for heavy mixing tasks
- Good accessibility of tools and process chamber via large maintenance doors
- Continuous or batch operation possible
- Exact setting of operating parameters via programmable logic controller

TECHNICAL DATA

DM 215 E

Total weight	15,500 kg
Length (Basic)	7,710 mm
Width (Basic)	2,800 mm
Height (Basic)	2,700 mm
Loading width	3,700 mm
Loading height	2,700 mm
Motor startup	star delta (soft starter optional)
Main drive	160 kW
Auxiliary drive	1.5 kW (hydraulic unit)
Mixing chamber	
Length	3,800 mm
Width	2,500 mm
Volume	15 m ³
Screw shafts	
Number	3
Diameter	top screws 830 mm bottom screw 1,080 mm
Rotation speed	top screws 19 rpm bottom screw 13 rpm

The technical data are approximate and depends on the machine equipment.
Subject to change without notice!



Images similar.

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