



GEA BIOSOLIDS GRANULATOR

Innovative dry-on-demand solution
for sludge treatment

**The end product.**

Granulate from GEA biosolids Granulator.

GEA BIOSOLIDS GRANULATOR

Innovative dry-on-demand solution for sewage sludge treatment – with stackable end product and minimized pathogen regrowth.

The GEA biosolids Granulator is an innovative dry-on-demand solution for wastewater biosolids treatment from municipal and industrial wastewater treatment plants by combining existing centrifuge-based dewatering with established drying technology.

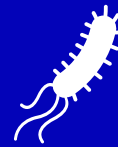
A perfect solution for plants with limited disposal and recycling capacities that want to future-proof their processes in terms of circular economy, sustainability and ecological footprint.

BIOSOLIDS CAN BE SAFELY AND SUSTAINABLY RECYCLED TO AGRICULTURAL LAND.

This unique process utilises small dewatered particles – ejecting directly from the rotating centrifuge bowl – which are then immediately heat-seared and fixed by the primary direct heat injection stream. These solids are then further dried by the secondary hot airflow in the main drying chamber. This results in an enhanced dried granulated material with up to 50 % dry solids with a sustained pathogen count below 100,000 cfu/g, which conforms to the Biosolids Assurance Scheme (BAS).

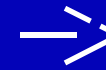
It's possible to achieve these process results using either low grade waste heat available at site (75 – 90 °C), heat generated from a fuel source or a combination of both.

The end product opens additional recycling opportunities to the end user such as agriculture, composting or incineration as a fuel/fuel additive.



Compliant to Biosolids Assurance Scheme (BAS)

Treated biosolids can be safely and sustainably recycled to agricultural land.



<100K

cfu/g
reduced pathogen count



Up to 50 % savings on transportation and disposal costs

One container of solids less per day.



12

tons of water
can be removed daily



Learn more

The animation vividly illustrates the working principle of the GEA biosolids Granulator.

FEATURES AND BENEFITS

Suitable for field storage

End product does not degrade due to weather.



Incineration friendly

Granulated biosolid with a high calorific value.



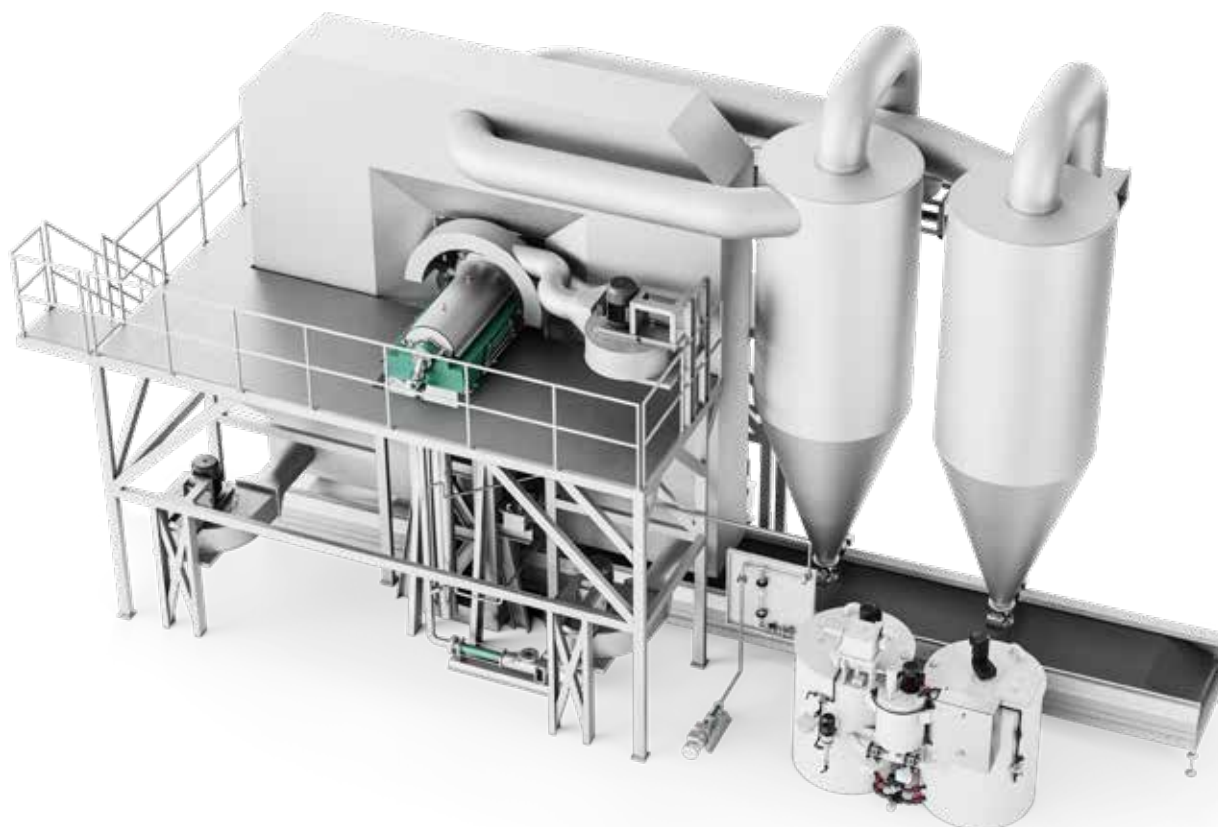
Limited pathogen regrowth

BAS compliant final product with low re-infection risk.



Combination of robust and proven system components

Utilization of standard service methods.



Drying performance on demand

Final product dry solids can be controlled to different levels.



Efficient use of waste heat

Energy efficient circular economy.



Flowing consistency, small particle size

Easy to convey and mix with other products without the need for back-mixing.



Continuous process

Predictable throughput capacity, no interruptions of the dewatering or drying process.



SUCCESSFUL PARTNERSHIP



GEA has partnered with global water and wastewater specialists EPS Group for the provision of a turnkey MEICA offering for GEA biosolids Granulator solutions. EPS is an Irish-based business that has accumulated over 50 years' experience and expertise in the design, construction and operation of water and wastewater assets. EPS have developed a market-leading capability in the application of digital tools, BIM and off-site modular construction techniques.



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