



GEA biosolids Granulator

Innovative dry-on-demand solution
for sludge treatment

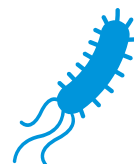


GEA biosolids Granulator

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 waste water biosolids treatment from municipal and industrial wastewater treatment plants by combining existing centrifuge based dewatering with established drying technology.

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 air flow 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

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.

Features and benefits

+ Suitable for field storage

End product does not degrade due to weather.

+ Incineration friendly

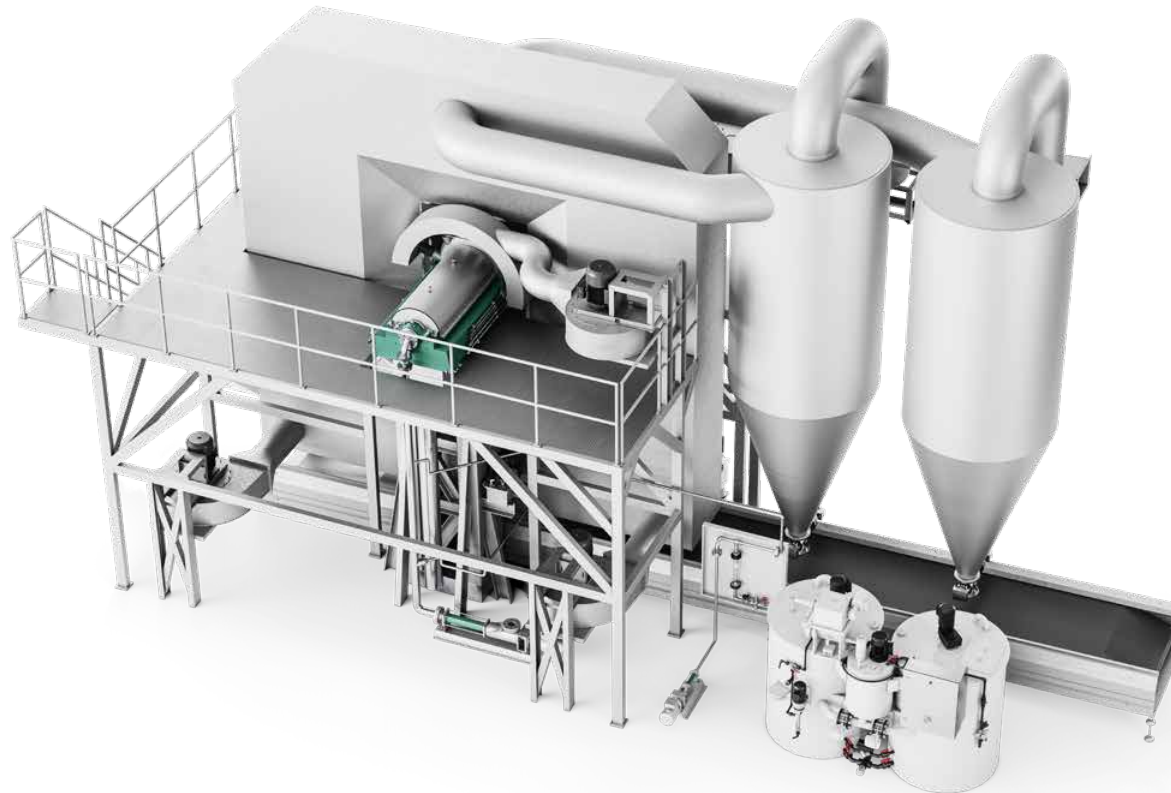
Granulated biosolid with a high calorific value.

+ 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.



GEA have partnered with global water and wastewater specialists EPS Group for the provision of a turnkey MEICA offering for GEA biosolids Granulator solutions. EPS are an Irish-based business which 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.





We live our values.

Excellence • Passion • Integrity • Responsibility • GEA-versity

“Engineering for a better world“ is the driving and energizing principle connecting GEA’s workforce. As one of the largest systems suppliers, GEA makes an important contribution to a sustainable future with its solutions and services, particularly in the food, beverage and pharmaceutical sectors. Across the globe, GEA’s plants, processes and components contribute significantly to the reduction of CO₂ emissions, plastic use as well as food waste in production.

GEA is listed on the German MDAX and the STOXX® Europe 600 Index and also included in the DAX 50 ESG and MSCI Global Sustainability indexes.

GEA United Kingdom

Westfalia House, Old Wolverton
Road, Old Wolverton
MK12 5PY Milton Keynes
United Kingdom

Tel +44 1908 576500
gea.com/united-kingdom



EPS Water
Unit 5 Delta Park, Wilsom Road
Alton, Hampshire, GU34 2RQ, U.K.

Tel +44 1420 481482
info@epswater.co.uk
www.epswater.co.uk