

Case Study No 22

INTERNATIONAL PAC INSTALLATION FOR WASTEWATER TREATMENT

Description	<p>With this installation the powdered active carbon (PAC) is delivered in big-bags to the Big-Bag Unloading station (BBU). The BBU is equipped with:</p> <ul style="list-style-type: none">• Hoist – to position the big-bag onto the station• Docking station – for dust free handling• Under massager – to improve product flow• Stretch unit – to prevent blockage by the outlet spout <p>From the BBU the product enters the hopper > GDU feeder and then is dosed into the vortex vessel/eductor which mixes the PAC into the water.</p>
Product	PAC – Powdered activated carbon.
Requirements	100% dust free operation, adhering to new directives with high feeding accuracy.
Capacity	PAC: 2 to 50kg per hour, 7 days a week.
Industry	Wastewater treatment. Same process can be used for PACAS (medicine removal) according to the EU Water Framework Directive (WFD).
Client	International business for the management of waste. This project has been delivered to an end customer in Russia. Therefore Gericke had to deliver to Russian certifications, Passports and TR CU certifications.



Complete installation

Gericke Technology

Complete installation including:

- Gericke BBU
- GDU 201.3
- 1x Hopper
- 1x Vortex vessel



Vortex vessel attached to a eductor



Close up of BBU docking station, hopper and GDU 201.3

Gericke has also supplied installations as a turn key project which includes controls, silos, pneumatic conveying to final dosing point, static mixer and site assembly for wastewater and flue gas treatments.

About Gericke

The Swiss Gericke Group has been designing and manufacturing equipment and systems for modern bulk material processes, as well as providing design and consultation services for more than 125 years. Gericke bulk materials processing technology can be found throughout the world in many sectors including the food, chemical, pharmaceutical, plastics and construction material industries.

Gericke's fully owned group companies employ more than 300 experienced professionals and are located in Switzerland, Germany, Great Britain, The Netherlands, Belgium, France, USA, Brazil, Singapore, Indonesia, Malaysia, Thailand and China.