PNR

SPRAY NOZZLES FOR INDUSTRIAL APPLICATIONS

WASTEWATER TREATMENT

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TAILORED INDUSTRIAL SOLUTIONS FOR SPECIFIC APPLICATIONS

For over 50 years, we have been supplying spray nozzles and filters to treat industrial wastewater. We specialize in equipping treatment plants for the recirculation or pre-disposal of wastewater within steel mills, paper mills, and many other industries.

WHAT IS INDUSTRIAL WASTEWATER TREATMENT?

Wastewater, or effluent water, originates from human, domestic, industrial, or agricultural activities. Due to its use, it contains organic and inorganic substances that can harm health and the environment, requiring treatment before being reintroduced into facilities or disposed of.

In our field of industrial specialization, "wastewater treatment" refers to applications found in municipal waterworks or large industries, such as paper mills and steel mills. These industries have internal treatment plants to manage recirculation or pre-disposal processes.

INDUSTRIAL FOAM CONTROL

Foam formation is common in various industrial sectors, such as the chemical, food, and wastewater treatment industries.

One of the primary methods to control foam is using spray nozzles. These must be appropriately selected and sized to achieve the desired result. Typically, the nozzles are mounted on manifolds positioned above the tanks, where their jets "break" the foam, eliminating it.

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FULL CONE NOZZLES

D PLUS
FULL CONE NOZZLES

E
FULL CONE NOZZLES

SCREEN WASHING FOR ROTARY DRUM AND FABRIC FILTERS

Rotary drums and fabric filters are devices used in industrial processes to separate solids and liquids. They operate based on mechanical filtration principles and are commonly employed in wastewater treatment within the food, chemical, mining, and paper industries.

Fabric filters consist of a cylindrical drum covered with a filtering mesh, while rotary drum filters feature a rotating drum partially immersed in a liquid-solid mixture with a filtering surface made of mesh or perforated metal.

Both types require constant or near-constant cleaning of the filters. PNR Italia provides tailored solutions for this application, typically consisting of external manifolds with GX nozzles mounted on ZP series clamps.

GX

FLAT FAN NOZZLES

ZP

NOZZLES CLAMPS

WATER FILTRATION FOR THE INDUSTRIAL SECTOR

In many industrial processes, water filtration is essential before it is recirculated.

We offer many in-line and self-cleaning filtration systems, from small industrial filters to large-scale units.

VEA, VEC, VED VEF, VEH, VEL, VEM

NOZZLES FILTERS

VEX MAXI, VEX MEDIUM, VEX MINI

SELF-CLEANING FILTERS

A GLOBAL PRESENCE ALL OVER THE WORLD.

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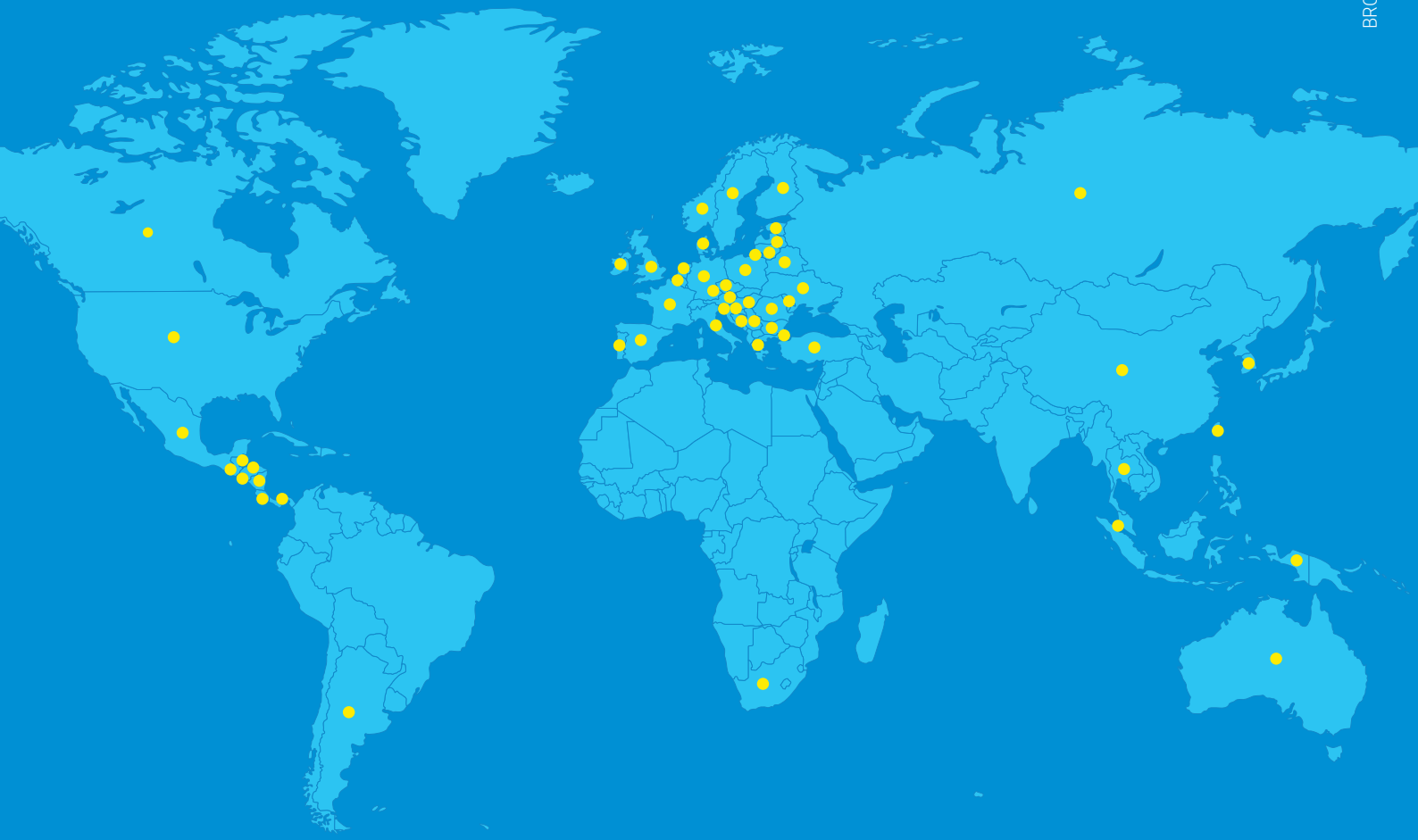

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