

Demi water treatment and process water treatment

Cold-rolling mill, Belarus

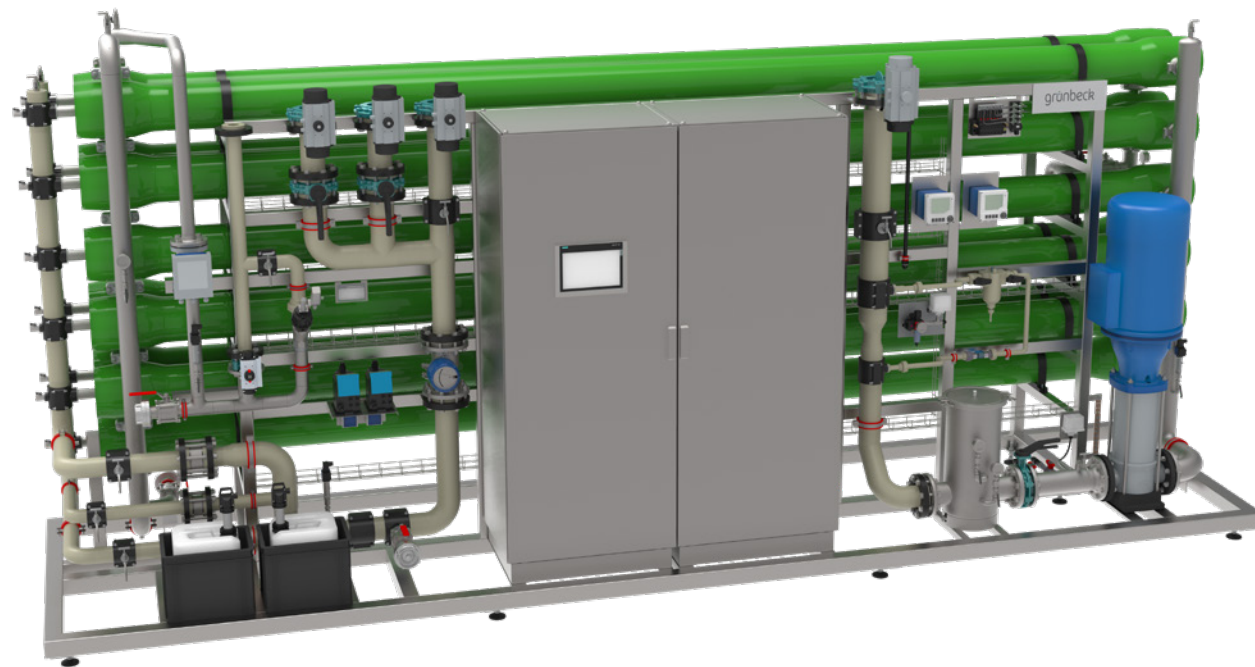
Customer PSE Engineering GmbH

System Demi water treatment and process water treatment to reduce waste water (zero liquid discharge concept)

Process technology

Decarbonation, degassing, reverse osmosis system and electrodeionisation installed downstream for the generation of demi water.

Ultrafiltration and three-stage reverse osmosis system (with concentrate stage) for the treatment of process water and the reduction of waste water upstream of an evaporation system.



Scope of supply

- 1 Raw water pressure booster
- 1 Antiscalant dosing station and 1 sodium hydroxide dosing station to condition the feed water
- 1 Reverse osmosis system with a permeate capacity of 50 m³/h
- 1 Electrodeionisation system with a diluate capacity of 47.5 m³/h
- 1 Simatic S7 controller with 12" touchscreen, with transfer of the operating data to the central control station via Profinet
- 3 Reverse osmosis systems (as three-stage system with concentrate stage) with permeate capacities of 29 m³/h, 15 m³/h and 3.5 m³/h
- 1 Mobile CIP system for chemical cleaning of the reverse osmosis systems
- Documentation in German and Russian, incl. FAC certificates

Grünbeck's services

Process design, mechanical and electrical engineering, programming and manufacturing