

Fine mechanical screen - SCJ

Fine mechanical screen (SČJ) is classified as a device for mechanical wastewater pre-treatment. It is intended for installation at the entry point of a wastewater/water treatment plant. Typically, it is used in power plants, thermal plants and the chemical industry as a follow-up device after a coarse screen. They are designed to collect and separate drifting solids from water - e.g., leaves, plant residues, woody shrubs, and other predominantly organic waste.

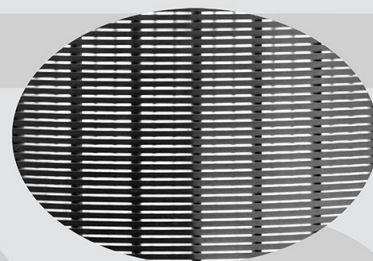
Fine mechanical screens consist of a robust frame structure with its rear wall fitted with a stainless steel slotted screen or bar screen. Collected solids on the screen are scooped from the bottom and lifted towards the overflow edge.

Raking is performed by brushes or rake bars attached to brackets on moving carriages, mounted on specialized driving chains. For driving the chains electric gearboxes are used.

Note: The manufacturer fully complies with requested size parameters - B, H, e.

Technical data	
Channel width B:	800 ÷ 3 000 mm
Channel depth H:	up to 9 000 mm
Discharge port height V₀:	based on container
Screen gap width:	1 ÷ 20 mm
Water level height h:	500 ÷ 5 000 mm
Screen inclination α:	60°, 70°, 75°, 80°
Drive input power:	0,55 ÷ 1,5 kW/400V/50 Hz
Heating:	420 ÷ 3 000 W/ 230V/ 50 Hz
Switchboard control:	timer, level sensor
Material: a) All-stainless steel + plastics b) Combination of galvanized carbon steel and stainless steel + plastics	
For alternate parameter value ranges, please consult the manufacturer	

Product designation: **SCJ B x H / V₀ x e / 75°**



ISO 9001

WASTEWATER TREATMENT PLANT EQUIPMENT

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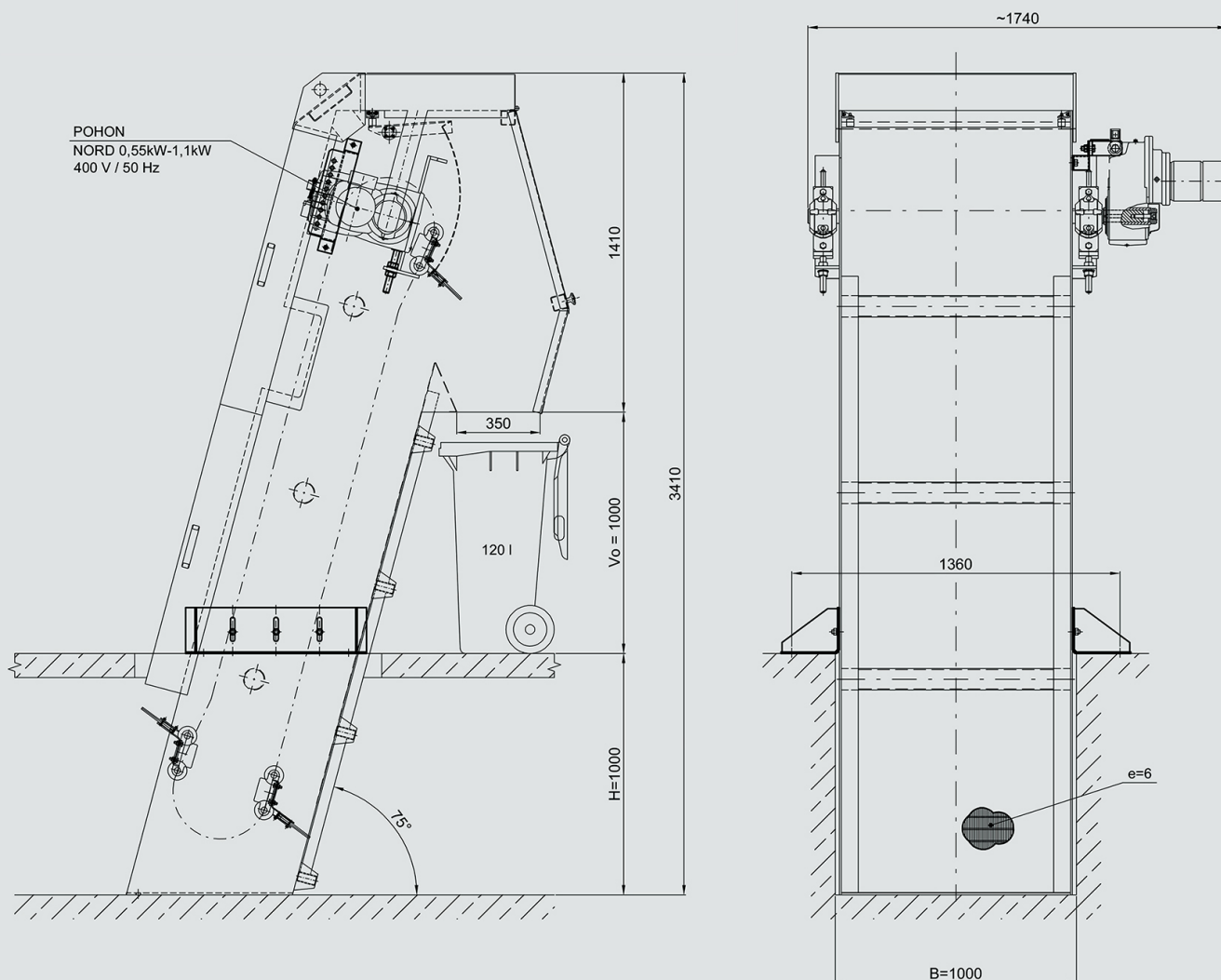
For protection against drive overload, the screen is equipped with an emergency switch. A portion of the screenings scooped by the rakes falls off without agitation, while the rest is removed by a scraping mechanism.

The screenings discharge height is determined based on the follow-up equipment used for their further processing or disposal (container, screenings screw conveyor, screenings press).

Fine mechanical screens are made of stainless steel and plastics. An economy version is also available, made of a combination of galvanized steel, stainless steel and plastics. Both versions are supplied with an additional layer of protective coating.

Under automated operation controlled by a switchboard, the screen is activated in configurable time intervals or in response to the water level, with adjustable delayed shut-off. For outdoor applications, the screen is additionally equipped with heating elements. Operation of the heat elements is controlled by a thermostat.

SCJ 1000 x1000/1000 x 6/ 75° - example



The manufacturer Fontana R, s.r.o. offers its customers free consultations and technical assistance to help ensure optimal integration of equipment into the technological part of given WWTP.