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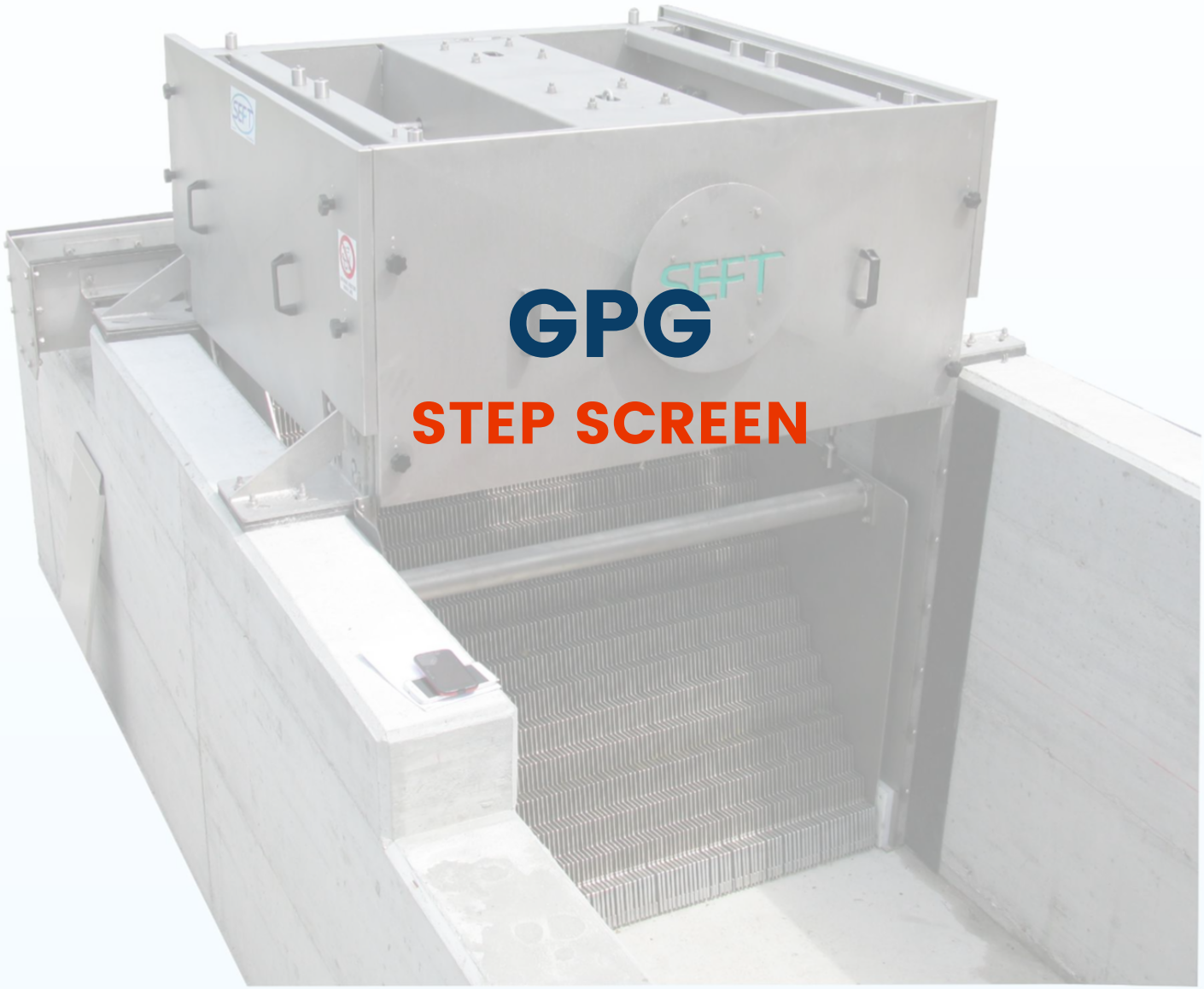
Leading Technologies



GPG

STEP SCREEN

GPG - STEP SCREEN

The step screen is used for the solid-liquid separation operations, as a system for the mechanical separation of grits, detritus and floating solids. Its typical field of usage is in the wastewater treatment plants, where an effective primary screening is the best way to achieve efficiency in the following processes

Main features:
• Series of laminas with a step design, available in stainless steel AISI 304 or 316
• Simple and robustconstruction
• Absence of overly complicated referral/crankmechanisms
• No chains or deformablequadrilaterals
• All transmission systems, bearings, shafts and couplings are out of the channel (no contact with the treated fluid and easy maintenance)
• The all-around cover is designed to protect the machines till the channel border, protecting also the moving parts from the weather (allowing open air installations and acting as a CE-norm protection system for the safety of plant personnel)

The filtering unitis divided in two interpenetrating blocks, one mobile and one steady, whose relative movement produces a steady going of the filtered solids towards the discharge, leaving the filtering spaces always free and clean. Furthermore, the deposit of the solid particles on the screening bed can be used to improve the percentage of removed floating debris. When choosing the filtration spacing, must be took into account the wide filtering surface that allows to work with low fluid speed through the grid, reducing the resulting headloss.

APPLICATIONS
• Municipalsewage
• Industrial wastewater treatment
• Cattle-breeding, foodstuffs industries, farms, slaughterhouse, paper-mill, tannery

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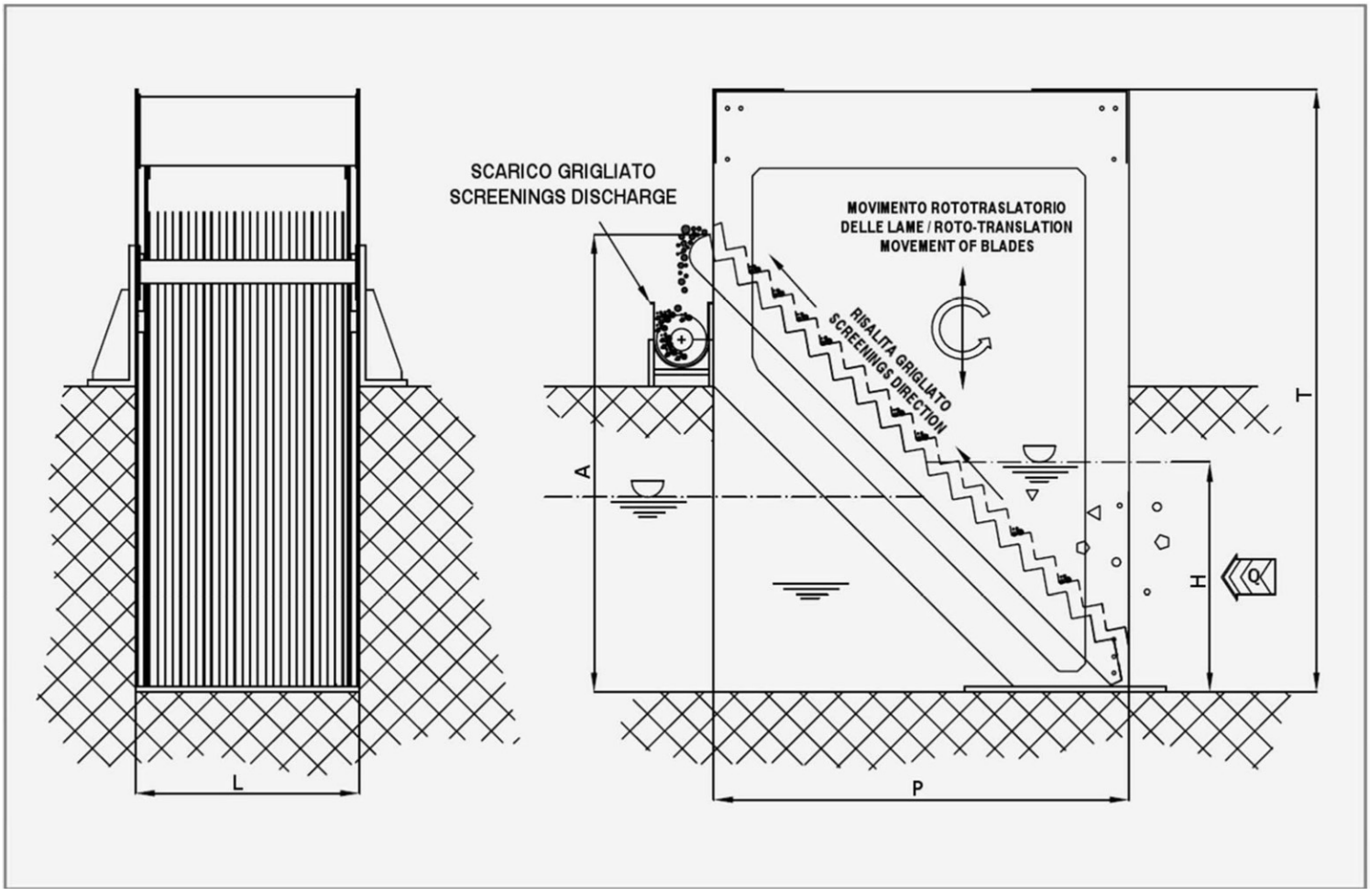
Technical details

	Model	GPG06	GPG10	GPG15	GPG20	GPG25	GPG30
Discharge height	A: [mm]	600	900	1200	1490	1950	2500
Total height	T: [mm]	1000	1350	1650	2100	2650	3050
Lenght	P: [mm]	700	1050	1350	1600	2150	2650
Width	L: [mm]	On request					
Max H2O lev. in	H: [mm]	600	850	1000	1200	1500	1800
Typical width	L': [mm]	300	500	500	1000	1500	1500
Bars free space	Sp: [mm]	3 mm					
Flow	Q: [l/s]	150	365	430	1050	2000	2375
Bars free space	Sp: [mm]	6 mm					
Flow	Q: [l/s]	165	400	480	1150	2180	2650

The figures explain the technical characteristics of the screens for some typical installation, the width can be fitted according to the installation requirements. Other constructive dimensions are possible with atechnicalandeconomicalfeasibility.



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