

ESMIL

EQUIPMENT

EQUIPMENT AND TECHNOLOGIES
for wastewater treatment

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SCRAPER SYSTEM FOR HORIZONTAL FLOW SETTLING TANKS AND SAND TRAPS ESMIL-PROBIG

Optimal engineering solution for removal of sediments and floating matters from rectangular horizontal tanks.

The technology that provides the highly efficient collection and removal of coarse mechanical impurities (floating inclusions and insoluble mineral substances, including sand) from rectangular settling tanks and sand traps using the continuous gravity flowing water.



Original structure intended for maximum efficient collection of sediment



Highly efficient cleaning



Durability - made of corrosion-resistant materials



Minimum operating expenditures



Use of special control system



Wide range of tank sizes

APPLICATION AREA OF SCRAPER SYSTEMS:



Local treatment facilities;



Drinking water treatment;



Food Industry;



Chemical Industry;

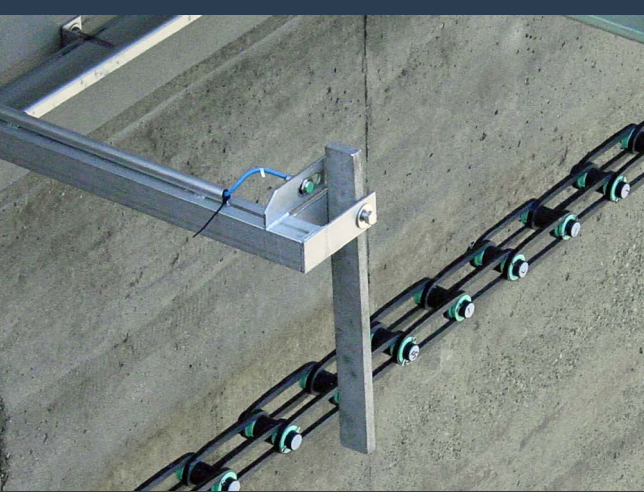


Paper industry;



Brewery.





Chain and Flight scraper systems

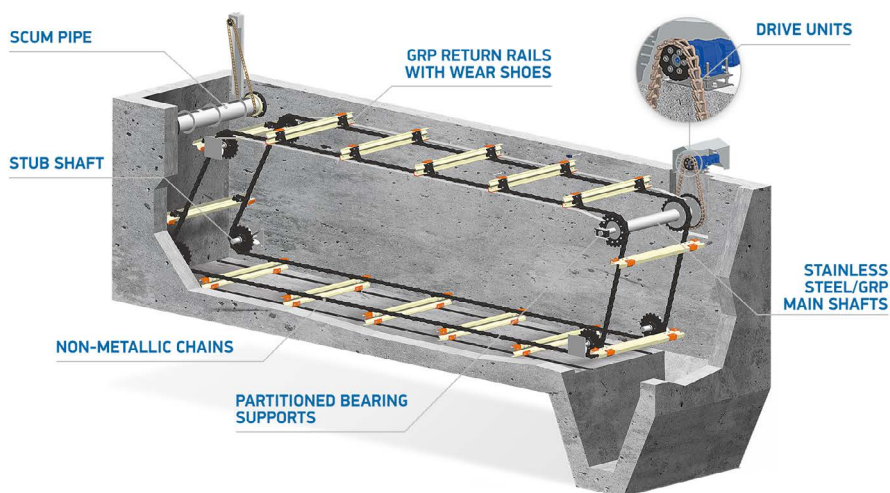
- » Fits main amount of rectangular clarifiers.
- » Designed in 2-, 3-, and 4-shaft configurations.
- » Made of high-quality plastic to withstand harsh and aggressive environment.
- » Intended for rectangular tanks to 140 m long and 14 m wide.
- » The component parts for scraper systems guarantee maximum safe operation and durability.
- » ESMIL Chain and Flight system can be used to retrofit the existing tanks.

Advantages of scraper systems ESMIL-PROBIG using the example of 4-shaft system

- » Wide use of plastic elements, high mechanical strength and corrosion resistance, low weight.
- » A single system for simultaneous collection of bottom sediment and floating matters, and low capital expenditures as a result.
- » Half-swing pipe for surface precipitate collection
- » Possible use of plastic covers to cover the tank (reduction of gas emissions and smell from sand traps and primary settling tanks to prevent system freezing in winter).

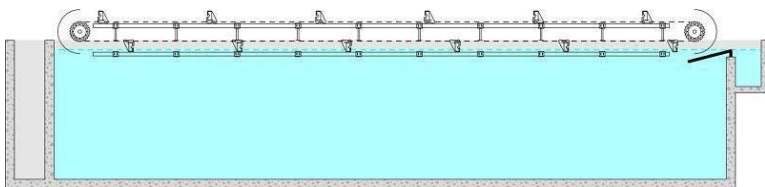
Why are the scraper systems suitable in operation?

- » The scraper systems ESMIL-PROBIG are widely used in various productions.
- » The highly efficient complex solutions are developed with due regard to the individual requirements of the customer.
- » There is an opportunity for special versions made of various materials depending on the application area.

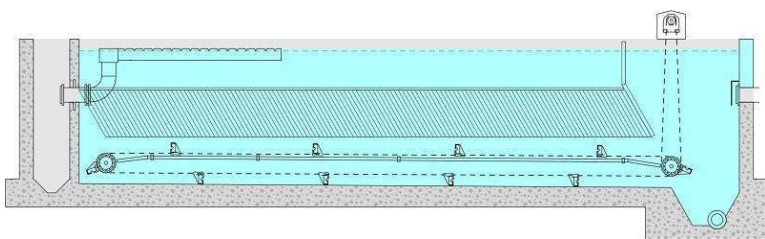


KINDS OF SCRAPER SYSTEMS ESMIL-PROBIG

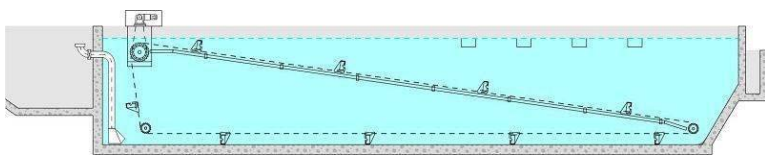
» 2-shaft scraper system for floating matters removal:



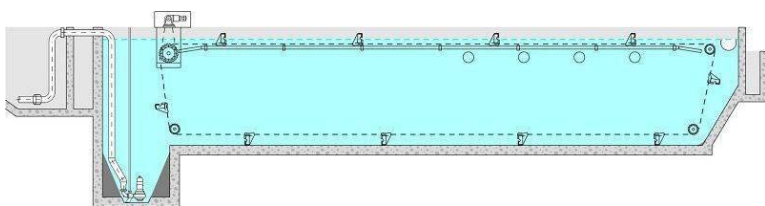
» 2-shaft scraper system for bottom sediment removal:



» 3-shaft scraper system for bottom sediment removal:



» 4-shaft scraper system for bottom sediment and floating matters removal:



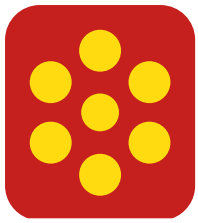
Technical specifications:

Parameter	Value
Tank width	from 0.6 to 14 m
Tank depth (water level)	from 0.9 to 9 m
Tank length	from 3 to 140 m
Materials	Robalon, nylon, fibreglass, stainless steel
Electric drive	380 V, 50 Hz
Drive IP rating	IP 55

WHY IS THE COOPERATION WITH US BENEFICIAL FOR THE CUSTOMER?

- ✓ Why is the cooperation with us beneficial for the customer?
- ✓ Domestic-made equipment of high-quality materials with the use of component parts of the leading world brands.
- ✓ Production line including both multi-purpose and specialized equipment to solve any tasks on the waste water treatment.
- ✓ A wide range of standard equipment due to which we can quickly choose the solution that is most fit for the Customer request and project requirements.
- ✓ Opportunity for the customer to consult directly with the leading specialists of the company within the shortest possible period of time.
- ✓ Selection from multiple systems that are distinctive by their high cost effectiveness, unique durability and maximum safe operation.
- ✓ High-efficient solutions providing for considerable power supply and maintenance cost reduction.





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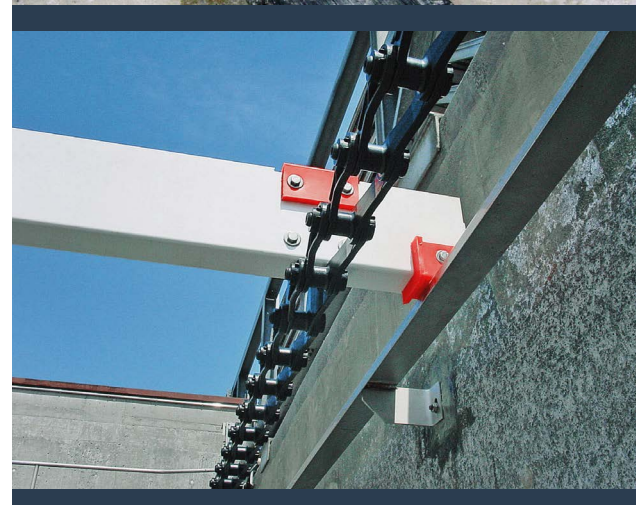
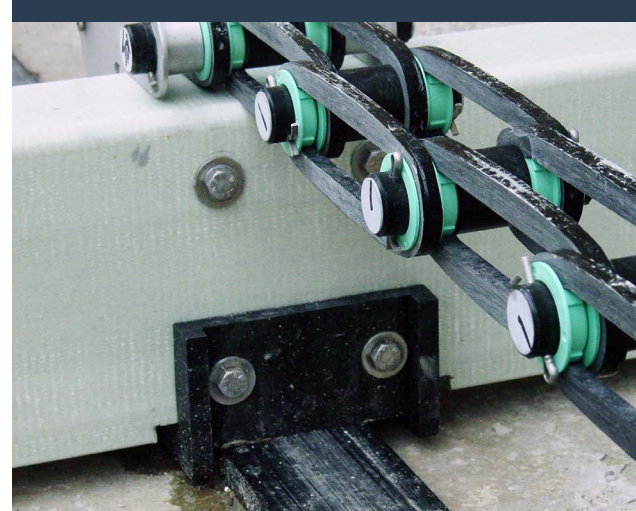
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WHAT ADVANTAGES OF SCRAPER SYSTEMS ESMIL-PROBIG DO ATTRACT THE CUSTOMERS?

- » Low capital and operating expenditures;
- » Long service life (2-5 time more than in similar metal items);
- » High reliability both during the equipment operation indoors, and outdoors;
- » Light weight construction, high wearing qualities and ability to operate without lubrication due to the used polymer materials;
- » Low noise during the equipment operation;
- » Customized approach to the equipment manufacture depending on its intended use and dimensions on the customer demands;
- » Low weight of the equipment;
- » Installation into the already existing tanks;
- » High corrosion resistance due to the used polymer materials and high-quality stainless steel;
- » Use of special control system for scraper parallel running, electric drive protection;
- » The scraper system structure additionally provide the customer with the option of arrangement of shelters for the tanks to prevent ingress of foreign matters, harmful gas emissions and protect from smells.



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