

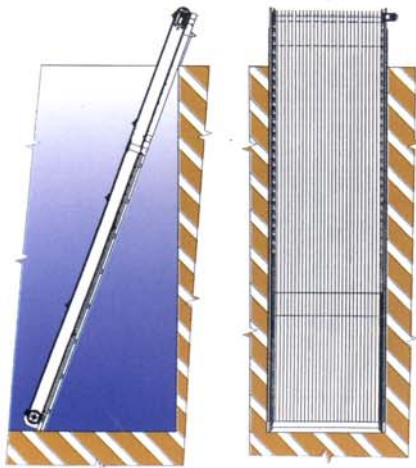
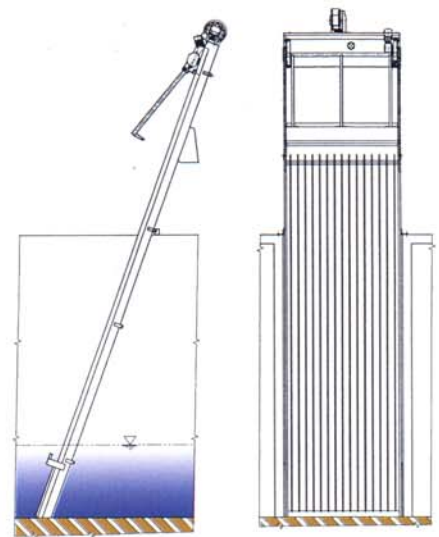
**INKOS<sup>®</sup>**

***Mechanical  
pre-treatment***



## Mechanically wiped truck screens SCV

are automatic operator-free screens intended especially for the inlet canals of the medium size. The basis of the screens is the frame with the bars of a special shape, which minimises the hydraulic resistance and backwater in front of the bars. On the sides of the frame, the travel racks are fixed, on which the truck with the wiping rakes is moving. The truck carries the drive and the lifting mechanism of the rakes ensuring all the movements of the rakes when wiping the impurities from the bar screens. The truck always travels above the water level and only the rakes reach into the water, which with higher water level is ensured by the float mechanism.



## Mechanically wiped chain screens SCR

are intended especially for medium and large canals with high water level. In the upper part of the frame there is a drive with chain wheels, which are driven by two chains with wiping strips. In the lower part the chains are guided by the chain wheels located on the common shaft. The removal of the impurities from the screen and their transport to the discharge trough is carried out by the wiping strips.

## Mechanically wiped rake screens SCH

are intended for the canals of small size. The wiping rake is attached to the motion mechanism placed on the upper part of the screens. This ensures that the rake slides out, they slide into the bar screen in the bottom position and they are pulled out, during which the bars are wiped. During the repeated dumping, the rake is cleaned from the impurities and the cycle can be repeated.

### Equipment advantages:

- All types are made from stainless steel and plastic
- Bar clearance from 3mm to 100 mm
- Performed mechanical screens for the canals up to 2,800 mm wide and 12,000 mm deep
- At SCV and SCH all mechanical parts are above water level
- Bar shape with the minimum hydraulic resistance
- Easy maintenance and service
- Automatic operator-free operation
- Very favourable proportion price/performance





**Mechanical pre-treatment** on the bar screens is the first stage of water purification. This process is used for catching floating and water-drifted impurities.

Bar screens prevent larger impurities, which could damage the following technology, from penetrating. Mechanically wiped bar screens ensure continuous and operator-free purification process.

## INKOS supplies complex solution of mechanical pre-treatment with bar screens

### Deliveries

- Mechanically wiped truck screens SCV
- Mechanically wiped chain screens SCR
- Mechanically wiped rake screens SCH
- Manual screens
- All accessories (distributors, ultrasound water-level sensors, conveyers, ...)

### Services

- Optimal technical set design
- Realisation project
- Erection
- Warranty and after-warranty service



*Truck screens*



*Rake screens*



*Detail of double truck screens*



## Areas of using bar screens

### WATER TREATMENT PLANT

Neither municipal nor industrial water treatment plants can exist without the building of the inlet pre-treatment, where the mechanically wiped bar screens are used most frequently. According to the size of the channel and character of contamination, truck, chain or rake screens can be installed. In big water treatment plants, the mechanical screens can be arranged in two stages as coarse ones and then fine ones.

### POWER PLANTS

In inlet buildings of the cooling water, deep and wide canals are used, in which the chain screens SCR or the truck screens SCV are used as a protection of the pumps and pre-purification.

### INDUSTRIAL PROCESSES

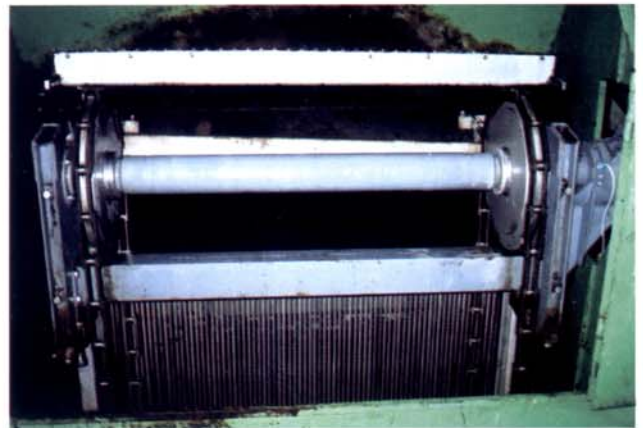
Technological water of industrial processes, during which natural resources are used, also require pre-treatment, for which the mechanically wiped screens are the most convenient. All types of screens are used depending on the size of channels and character of contamination.

### PUMPING STATIONS

Pumping stations of irrigation systems use mechanical screens on the inlet for the protection of the pumps. The truck and chain screens are thus used for example in the irrigation systems in Egypt.



*Truck screen in WWTP, Slovakia*



*Chain screen in power plant, CR*



*Truck screen in WWTP, CR*



*Truck screen in WWTP, CR*



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