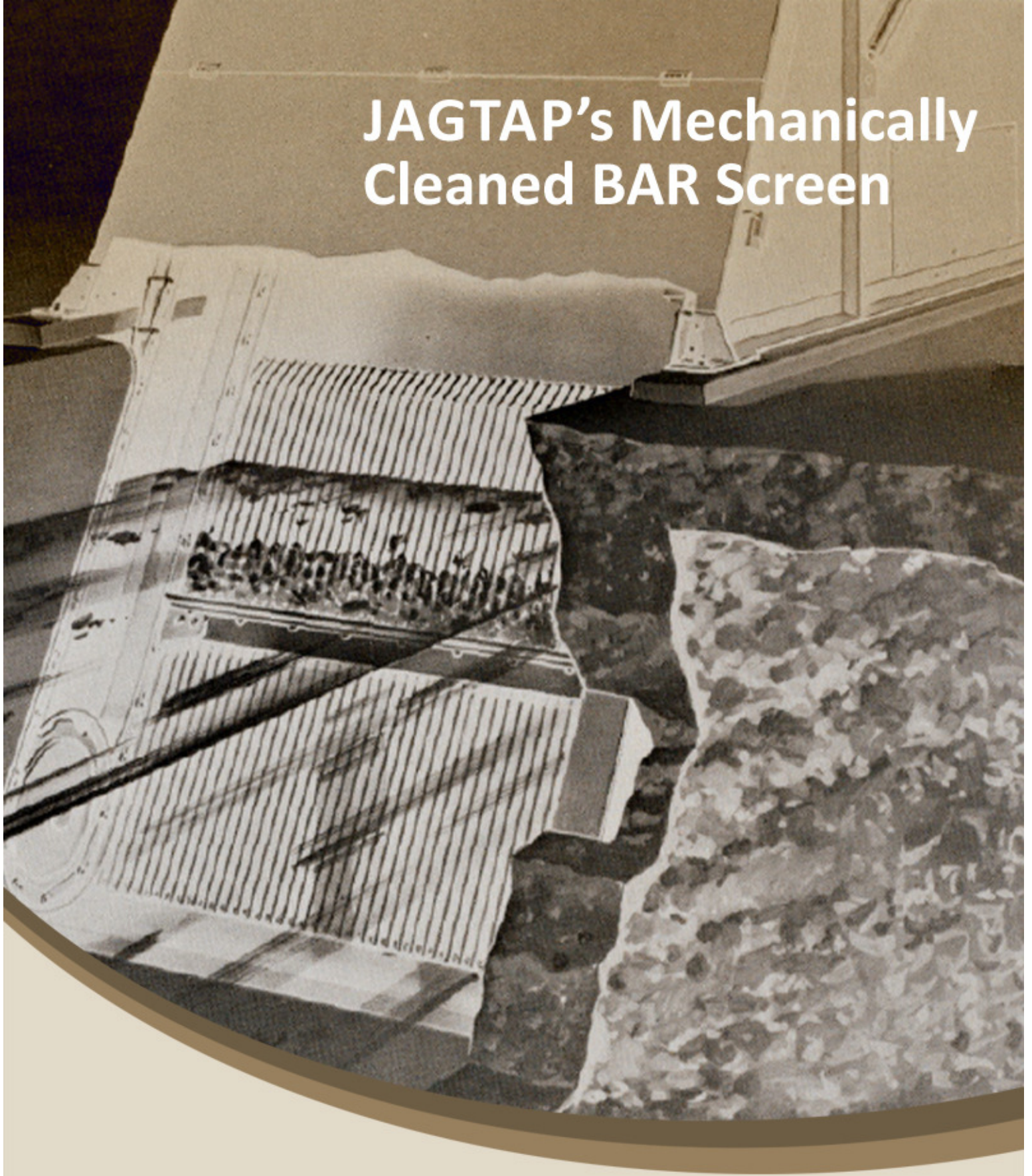


JAGTAP's Mechanically Cleaned BAR Screen



JAGTAP ENGINEERING WORKS

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The JEW bar screen is a mechanical fully automatic screen used for liquid/solid separation in the pre-treatment stage of wastewater treatment plants, pumping station.

The Jagtap's Mechanical Bar Screen assures positive, efficient screening for any flow condition. Backed by decades of experience, our Mechanical Bar Screen provide the efficiency, economy and dependability that means lowest overall cost.

Jagtap's Mechanical bar screens for channel installations are available in wide range of size to exactly suit any condition, e.g. flow rate, channel size, liquid depth, length of screen centers etc.

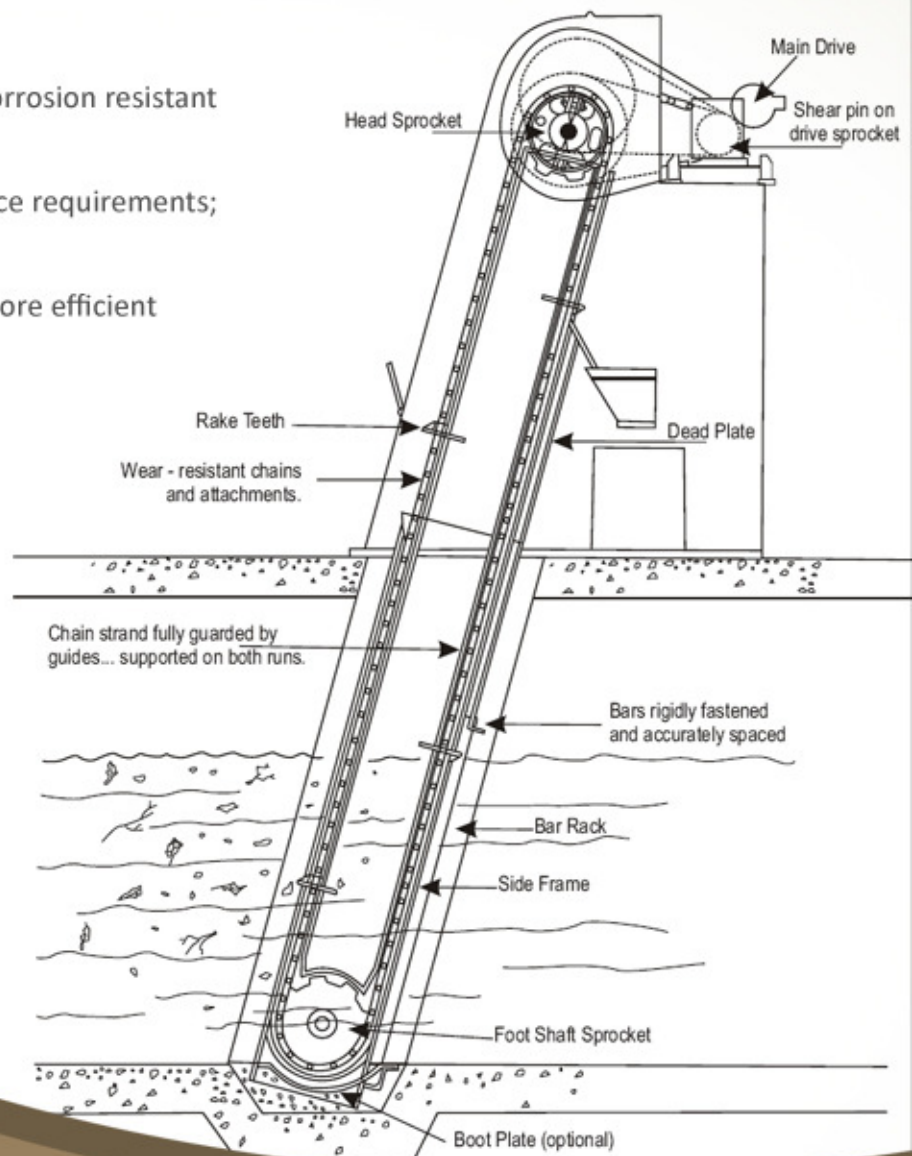
JAGTAP's Multi Rake Mechanically cleaned Bar Screen

- Rake & Link chain driven screen
- Mounting position: 60° / 70° / 90°

All internal replaceable parts supplied in corrosion resistant material.

Efficient proven design reduces maintenance requirements; requires fewer parts.

Low rpm backwash mechanism provides more efficient cleaning, less wear of internals.



Main areas of use and features

- Slot width 5-50mm
- High screening discharge capacity due to multiple rakes
- Low hydraulic resistance, very low head loss
- Heavy duty, extremely robust design
- Pivots out of channel as an option
- Service friendly design
- Dip pickled SS guarantees a long life time

Area of use

Jagtap's Bar Screen is a mechanically cleaned screen suitable for inlet works of treatment plants, pumping stations and inlet water structures. The screen captures solid materials which otherwise would be harmful to the following process and to the downstream equipment.

Jagtap's Bar Screen can be built to operate both as coarse screen and a fine screen, with a slot width down to 5mm. For demanding installations the fine screen can be fitted with teardrop shaped bars, presenting an unrivaled low flow resistance

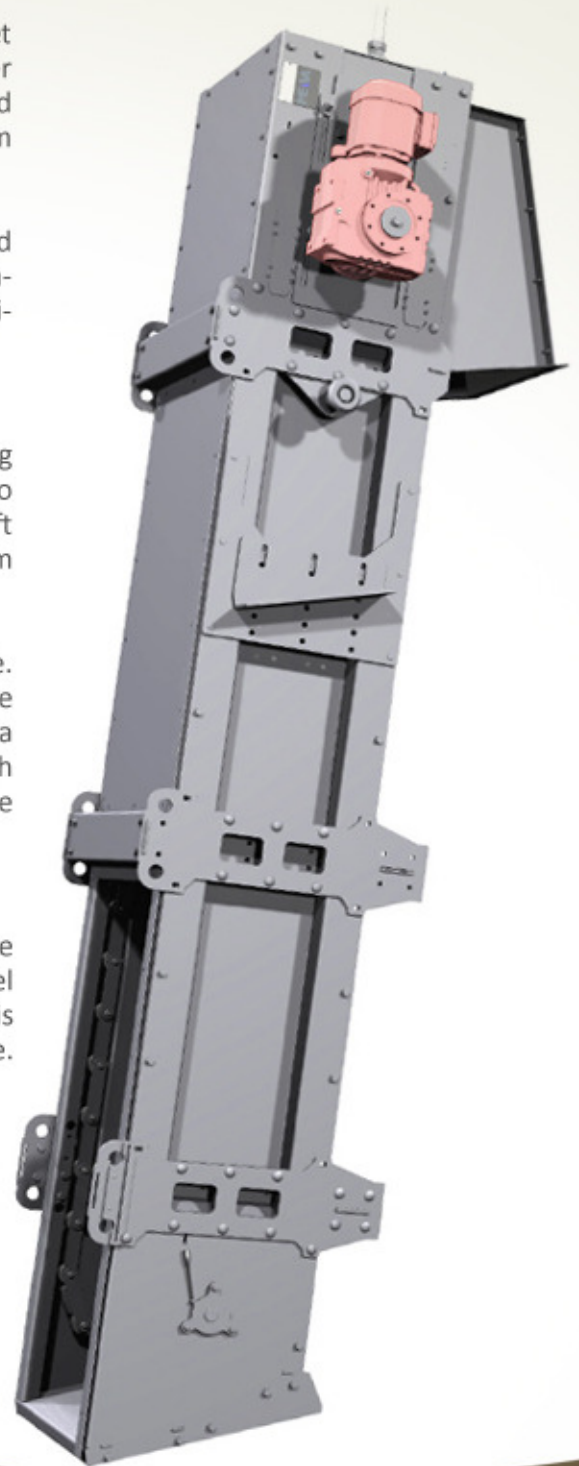
Function

Jagtap's Bar Screen is built with an open structure up-stream, enabling all maintenance and repairs of the drive unit, dead plate or bar rack to be performed without access to the back of the screen. The drive shaft at the bottom is fitted with a long life bearing, for minimum maintenance.

The wiper is fitted with a PE-wear section, which is easily replaceable. An Electronic motor protection monitors the motor and protects the screen. This allows for a more complex and detailed setting than a mechanical breaker. As an option the screen can be delivered with special supports, which allow the screen to be pivoted out of the channel for service and maintenance.

Automatic Control

Jagtap's Bar Screen works intermittently. Thus the operation can be adjusted to the incoming flow. A level sensor is installed in the channel in front of the screen. The screen starts when a pre-set water level is reached and operates until the water level is below the pre-set value. The cycle is repeated when the level is reached again.



Removal of solid particles larger than 5 mm ...

It is an equipment that rakes the screen bars in the vertical way by linear motion. It is installed in the wastewater channel with angle of 60 - 70 - 90°. The equipment consists of screen, motor-reducer, base frame, chain mechanism, rake and rake cleaning system.

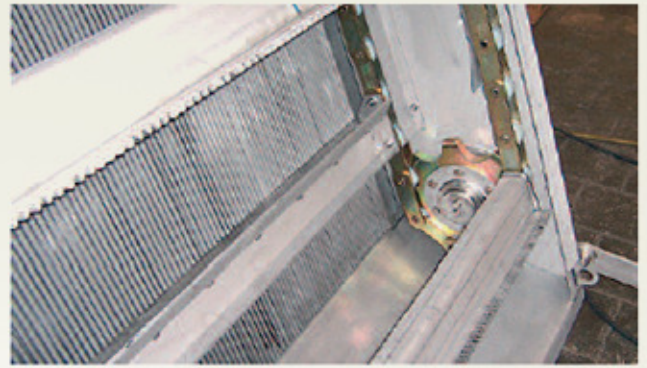
The motion supplied from the motor is conveyed to the rakes with the help of the chain mechanism. There are more than one rake on the chain which rotate infinitely. Number of the rakes depends on to the depth of channel and in the consequence of the length of the screen.

Raking starts from bottom of the linear screen and ends by the moving solid parts to the screening discharge outlet. Cleaning period should be controlled by the wastewater level. Screening operation is continuous and water flow is not interrupted by the scrape at any pause case.

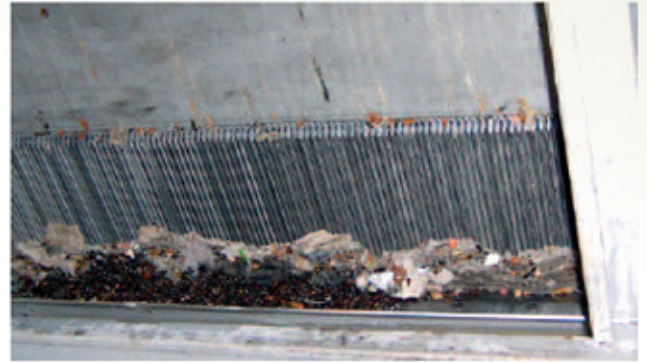
All steel parts are produced in stainless steel. Frame can be produced in carbon steel with epoxy coated if requested.

Benefits

- Fine to coarse screen with low head loss
- Removal of extremely high screenings loads
- Unimpaired by grit
- Low height above operating level
- Enclosure prevents odor nuisance
- Frame-mounted bar rack for exact rake engagement and reliable cleaning
- Mechanical overload-prevention and automatic reverse
- Easily accessible chain tensioning system
- Independently replaceable rake bars and blade sections
- Well-proven, maintenance-free lower ceramic bearings
- Sturdy design, excellent manufacturing with small tolerances
- Made of stainless steel, pickled in an acid bath for perfect finishing and corrosion protection



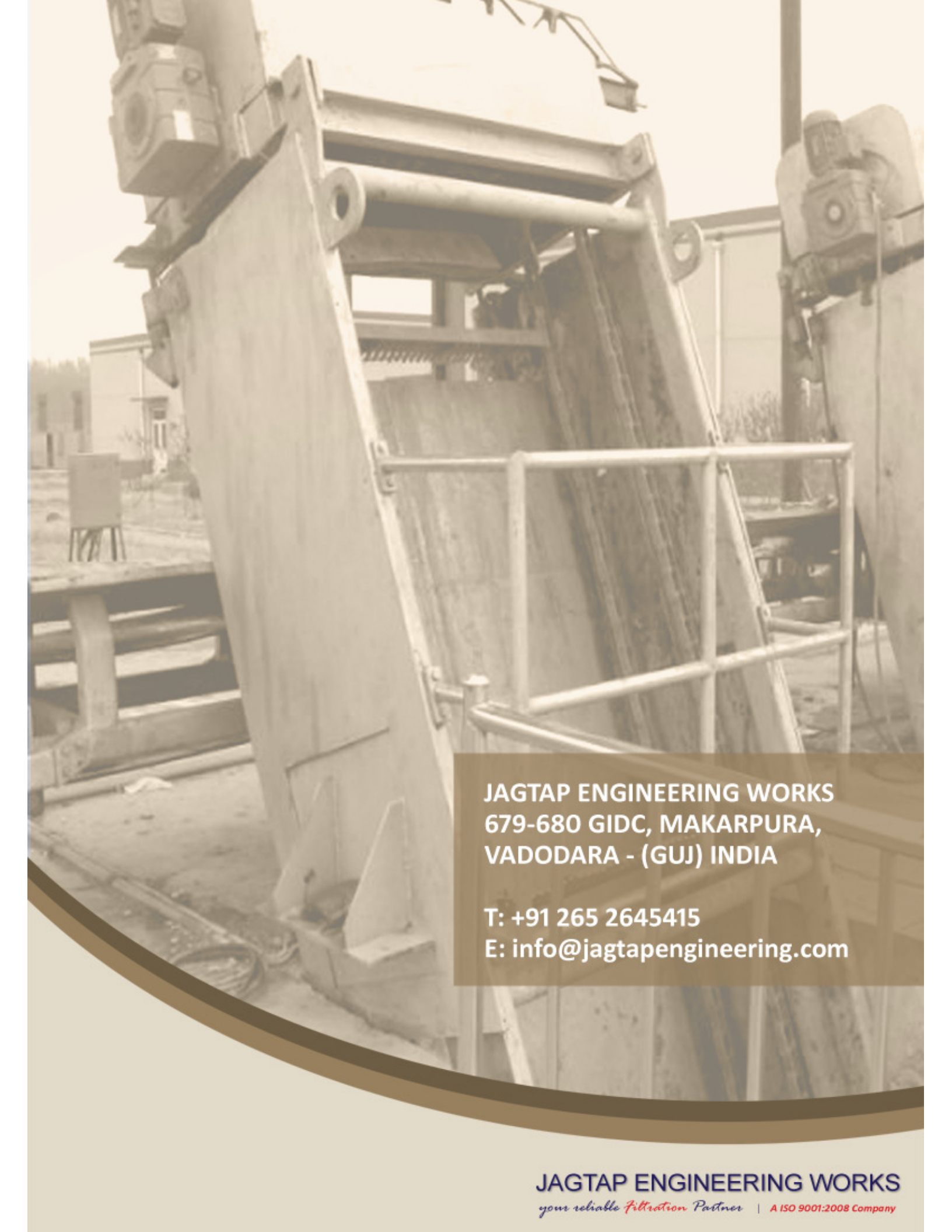
Traveling rakes are bolted to the drive chains; individual sections of the rake blades can be exchanged in case that teeth should become damaged or worn; the ceramic bearings are maintenance-free (no lubrication)



Bar rack with a fine spacing ; the bars have a streamlined tear drop profile resulting in low head loss and avoiding jamming; Jagtap's screens are unimpaired by grit and gravel



Cog wheel and chain are made of hardened, wear resistant steel that is zinc -galvanized and chromated for long-term corrosion protection; alternatively, wheels and chains can be made of stainless steel



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