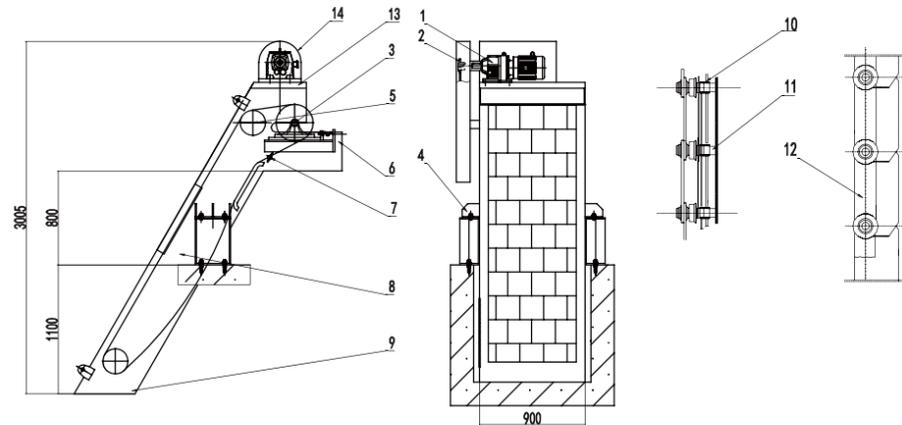


## Construction

NO.	Name	Material	NO.	Name	Material
1	Reducer	/	8	Rack	SUS304
2	Chain transmit device	S45C	9	Button Rack	SUS304
3	Driving shaft	SUS304	10	Rake teeth	SUS304
4	Support	SUS400	11	Rake teeth shaft	SUS304
5	Guidance device	SUS304	12	Connecting strip	SUS304
6	Bake coverplate	SUS304	13	Top Rack	SUS304
7	Bearing Block Housing	SUS400	14	Rain cover	SUS304



## Running control

- Every HF-900 Rake type Bar Screen equipped with one set of electrical control box, the control box is located on the nearest position to the Rake Screen;
- The electrical control box with Automatic&Manual control modes;
  - Manual control: Pushing buttons on the control panel control the operation of the Rake Screen;
  - Automatic control: the PLC controls the operation of the Step Screen according to the difference of influent before/after level, the program or timing requirements;
- The power supply of the electrical control box is three-phase five-wire system, the rated voltage is AC380V, and the control voltage is AC220V;
- The body of the electrical control box is made of stainless steel, with IP55 protection and class F insulation;
- Electrical control box has a variety of standard protection functions: short circuit protection phase protection overload protection;
- The panel of the electrical control box is provided with the stop button, emergency stop button, stop fault indicator and M/A change-over switch;
- The electrical control box can provide the following signals to the PLC control system in the central control room:
  - Operation/Stop signal of each device (passive contact);
  - Normal/Fault signal of each device (passive contact);
  - Manual/Automatic status signal of each device (passive contact);
- The electrical control box can accept the start and stop command (passive contact) for each device from the PLC control system in the central control room.

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GREEN SAFE DEVELOPMENT

## HF-900 Rake type Bar Screen

HF Rake type Bar Screen is composed of the main components such as the rack, chain mesh assembly, guidance device, dirt discharging device, dirt cleaning device and driving device. When working, the rotary gate surface composed of the rake teeth fixed on the traction chain is driven by the driving device and driven by the sprocket wheel to rotate with uniform speed in directional manner, and the dirt trapped on the surface of the rake teeth is retrieved. The grid surface of the rake teeth rotates synchronously from the front to the back of the gate by the traction chain on both sides. When the rake teeth reaches the upper part of the body, due to the action of the steering rail, the dirt falls and displaces by the action of gravity and the brush.



## Features

- The built-in cleaning device can clean the board surface, effectively prevent the blockage of holes, and obviously extend the maintenance cycle of the board surface;
- The rake teeth is made of reinforced stainless steel plate, which has the advantages of good rigidity, wear resistance and corrosion resistance and long service life;
- The reducer adopts the world famous brand, which has high transmission efficiency with stable and reliable operation;
- The drive motor adopts the world famous brand, with IP55 protection and class F insulation;
- The two sides of the machine are provided with mounting support, which is connected with the foundation by installing channel steel, which can be lifted out of the water for maintenance without interruption;
- The bearing underwater is a special sliding bearing made of oil-containing nylon material. The bearing has good water resistance, corrosion resistance and wear resistance. It can be lubricated automatically in water without lubricating oil.
- The machine can run intermittently or continuously 24 hours a day, and it can work continuously and stably without any supervision;
- With mechanical and electrical overload protection function, safety bolts are provided in the fixed assembly of the drive shaft, which can cut off the power output in the case of overload to prevent the equipment from overload work and being damaged. The electrical protection measures effectively protect the motor from being damaged.

## Application

It is widely used in the water inlet channel of municipal sewage treatment plant, waterworks pump station and power plant. It can also be used in textile, printing, dyeing, slaughtering, leather making, paper making, sugar making, wine making and food processing.