

# JAGTAP ROTARY DRUM SCREEN

**JAGTAP**

FILTRATION / SEPARATION / DEWATERING

your reliable filtration partner

**REMOVAL OF HAIR,  
FIBER & SUSPENDED SOLIDS**

**REDUCTION OF COD & BOD**

**SCUM SCREENING**

[www.jagtapengineering.com](http://www.jagtapengineering.com)

## ABOUT US

Jagtap Engineering's business is primarily focused around the design and manufacturing of welded wedge wire screen and filtration products for various process industries.

The Jagtap filtration products are leading the industry in superior constructions, durability and quality. with a proven record it is a simple choice for reliable filtrations process.



## The JAGTAP'S ROTARY SCREEN

**A proven high-capacity screening technology for solid liquid separations used in wastewater treatment plants and various other process industries.**

In waste water treatment plants, the Rotary screen unit is renowned as a fine screen for pretreatment and primary treatment to replace the primary clarifiers. They are also used as sludge screens / sludge thickener.

Industrial users, such as meat processors, food processors, tanneries, textile mills, petrochemical plants, and recyclers, rely on it for product recovery and wastewater treatment. Pulp and paper mills use it for fiber recovery and rejects handling.



# JE-ROTARY IS AN INTERNALLY FED DRUM SCREEN

for liquid / solid separation in the field of process and water of industries or WWTPs.



## BENEFITS

**Outstanding  
Capture rate**

**Complete removal  
of the hair and fiber**

**Completely enclosed  
no odor nuisance**

**Quick and easy  
installation**

**Easy access for  
operation and  
maintenance**

**All Structural parts  
can be made of  
stainless steel  
for long life.**

**Enclosed Rotary  
Screen Unit All  
MOC Stainless  
Steel**

**Few and easily  
replaceable  
wear parts**

**Reliable,  
Self-cleansing  
operation**

Rotary screen sizes are customised as per the flow rate and filtration rating required for particular application.





Internal Feed Rotary Drum Screen for heavy duty application

## OPERATIONS

The Rotary Screen unit features a slowly rotating drum with a screen drum. The Screen is made of wedge wire, Feed water flows or is pumped into the drum where it is distributed over a side of the rotating screen through chutes. The water flows by gravity through the screen drum, from the inside to outside. Filtrate is collected in a trough wherefrom it drains by gravity.

The rotating screen is cleaned with one or two spray bars, depending on the screen's size, intermittent entry with auto cleaning cycle programmable to suit the solids loading and the fineness of the screen if the screen is fine enough to prevent clogging of the spray nozzles, a portion of the filtrated can be used as spray water. A wash water pump with HDPE tank is typically provided.

The screenings slide down to the invert of the screen drum. Rotating baffles push the screenings towards the end of the screen drum where they drop through a chute onto a conveyor or directly into a waste collection bean.

Where removal of BOD, COD or phosphorus is the objective, chemical pretreatment of the influent by precipitation and / or flocculation can be provided to further improve the screen's capture rate.

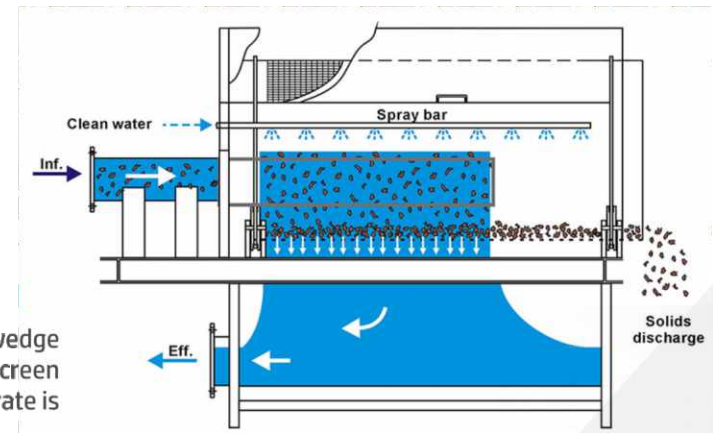
## FILTER MEDIA

- Wedge wire screen drum
  - Punch hole screen drums
  - Woven wire mesh screen drum
- Are available from opening 20 microns onwards

## SIZE AND CAPACITY

JAGTAP Rotary Screen are available in different sizes has per the flow rate.

The Capacity depends not only on the size of the unit but also on the type of the screen, size of its openings, as well as on the solids concentration in the feed flow



WATER FLOW BY GRAVITY THROUGH THE SCREEN DRUM



High efficiency and effectiveness of dewatering, filtration, and separation processes.

**A more efficient way of solid liquid separation**

**Main Application**  
Pre-treatment of waste water at the entrance of municipal and industrial WWTP.

**we have been designing and producing solutions for mechanical screening, classification, as well as dewatering and filtration for 30 years.**

## APPLICATIONS OF ROTARY SCREEN



Municipal Wastewater



Industrial Effluents



Breweries



Process Water

## OBJECTIVES

Protection of equipment and processes from clogging and tressing

Pretreatment of influents to MBR Systems

Removal of BOD & COD from influents

Product recovery from effluents

Improved sludge/ bio-solids quality

### SCUM SCREENING

Scum screens are provided with 0.08 to 0.5 mm screen opening.

### PROCESS WATER

Rotary screening permits reuse of effluent as wash water or process water.

### INDUSTRIAL EFFLUENT PRE-TREATMENT/PRODUCT RECOVERY

**Pulp and paper:**  
Removal and recovery of paper fibers

**Food processing :**  
Recovery of Organic waste Separation of fruit residues and peels

**Breweries :**  
Pre-treatment of all effluents

**Laundries :**  
Removal of Fibers



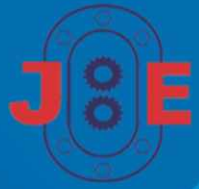
Internal Rotary Drum Screen for heavy duty application

### APPLICATION EXAMPLES

**Protection of MBR Systems:** Membrane Bioreactors using hollow fiber membranes are clogged and damaged by hair and fiber. For their protection every hair and fiber has to be removed from the influent. Where the membrane biological treatment is not available; the mechanical treatment should be as thorough as possible. Rotary fine screening removes up to 60% of suspended solids and up to 30% of BOD/COD removal can be further improved by flocculation to



SIMPLE AND  
COMPACT DESIGN



Innovation  
& Excellence  
**30 years** since 1989

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## NEW INFRASTRUCTURE

