



Innovating With Precision Since 1978

GUJARAT WEDGE WIRE SCREENS LIMITED

Industry Leaders in Custom Wedge Wire Fabrication & Engineering



ABOUT US

Gujarat Wedge Wire Screens Ltd. ("GWWSL") is a Public Limited Company with technological assistance by N Greenings Ltd. (UK) for supplies of equipment and technology at the time of incorporation.

We are one of the leading manufacturers for industrial wedge screens, wedge wire baskets, filtration wedge screens and V-Wire pipes etc.

Our manufacturing unit is located in the industrial park of Halol near Vadodara, Gujarat. Plant is equipped with modern machines and aided with latest technology for the manufacture of high precision looped & welded type Wedge Wire Screens in various shapes and sizes, our product V Wire Screen Pipes are used in various filtration processes.

We follow the most stringent norms and precision for our manufacturing process and deliver a complete customized solution of our products as per the specification of our customers.

Since incorporation in 1987, we have been associated with various industries in multiple sectors owing to our products broad based industrial application.

The company's management has more than 15 years of experience in this industry and the team of employees and technical staff are highly qualified in their respective areas of specialty.

We have successfully catered to the customized requirements of our clients operating in various industries, be it corporates, merchant exporters, OEM vendors and also to individual end users & contractors in India and abroad.

WHAT WE DO?

We manufacture a variety of **custom baskets, screens, laterals and filtration elements** for leading manufacturers.

GWWSL has been supplying Wedge Wire Screen internals and components to all major industries and equipment manufacturers for well over two decade. During these years our steady growth and success has been directly related to our efforts in continually engineering innovative and cost-effective solutions for the industries looking for wedge wire solution.



Water Treatment



Pharmaceutical



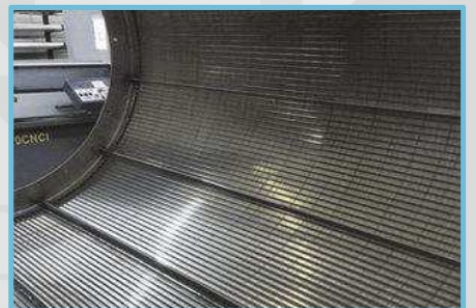
Waste Water Treatment



Food & Beverage



Oil Gas & Petrochemical



OPM Screens



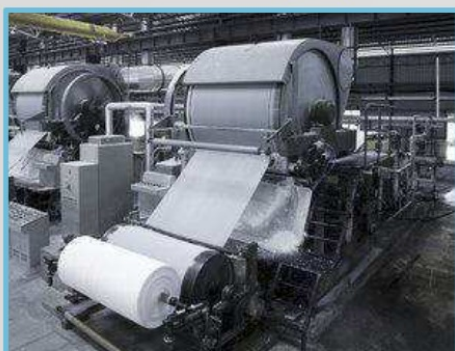
Mining



Sugar



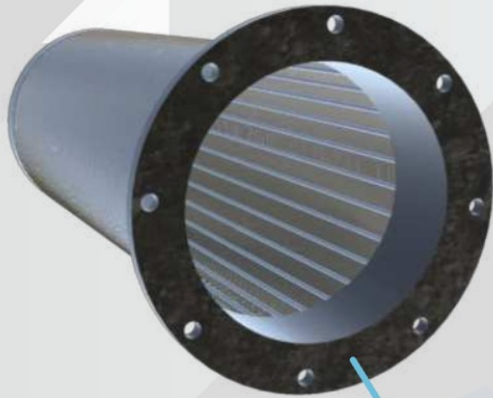
Power Generation



Pulp & Paper

TRAP FILTER FOR RAIN WATER HARVESTING

WITH ONE SIDE CLOSED WITH V WIRE
& OTHER SIDE CLAMPING FLANGE



One side flange for clamping
Hole size 10 mm x 8 NOS

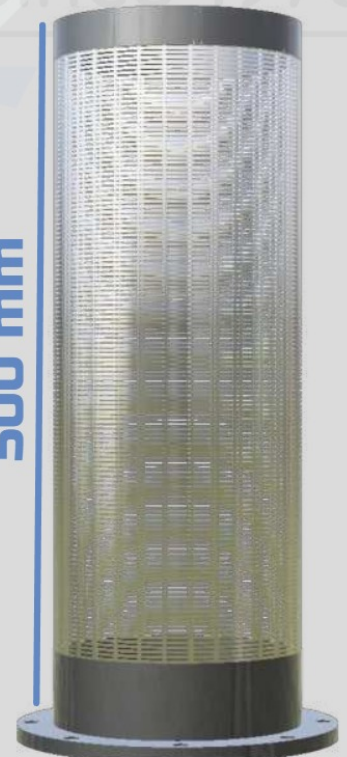
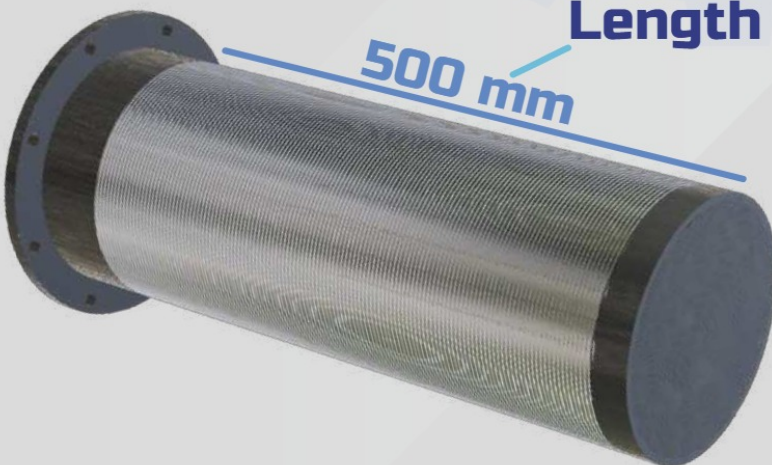
Closed with
V Wire from Top



Length 500 mm

500 mm

500 mm



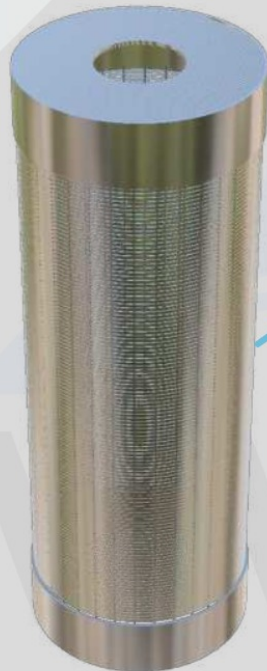
MOC AISI SS304 & MS

V WIRE SCFREEN FILTER FOR RAIN WATER HARVESTING

WITH ONE SIDE CLOSED WITH V WIRE & AIR VENT HOLE



2.5 " INCH UPVC PIPE
OD 64 mm



V WIRE SCREEN FILTER
OD 245 X ID 235 XL500
OPENING /APPERTURE
0.5 mm
MOC : SS304
With air vent hole
Size : 65 mm

8 " INCH UPVC PIPE
OD 234 mm



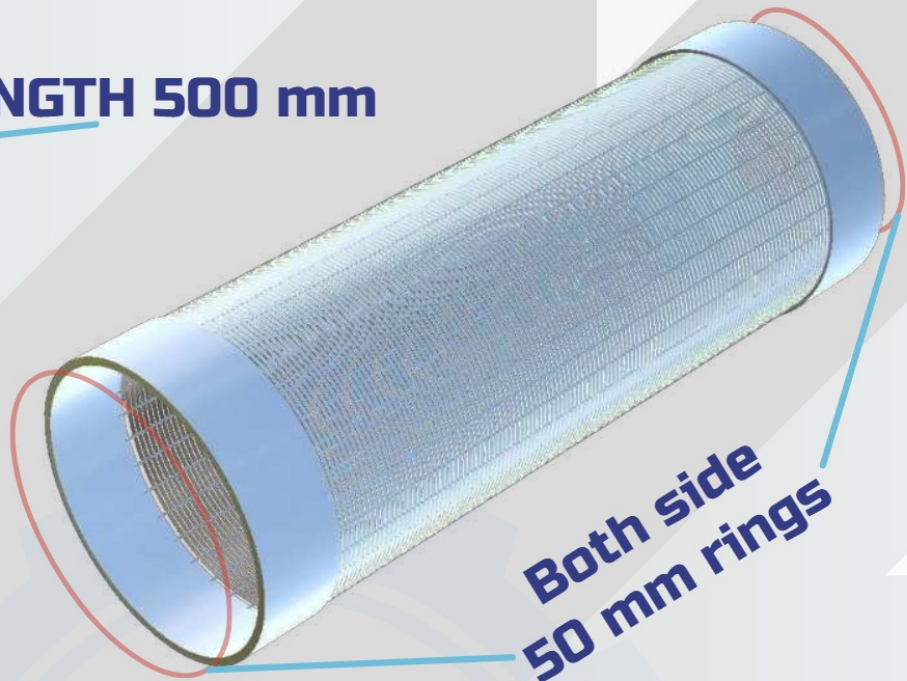
ASSEMBLED
VEIW

DETAIL OVERLOOK OVER THE FILTER



LENGTH 500 mm

500 mm

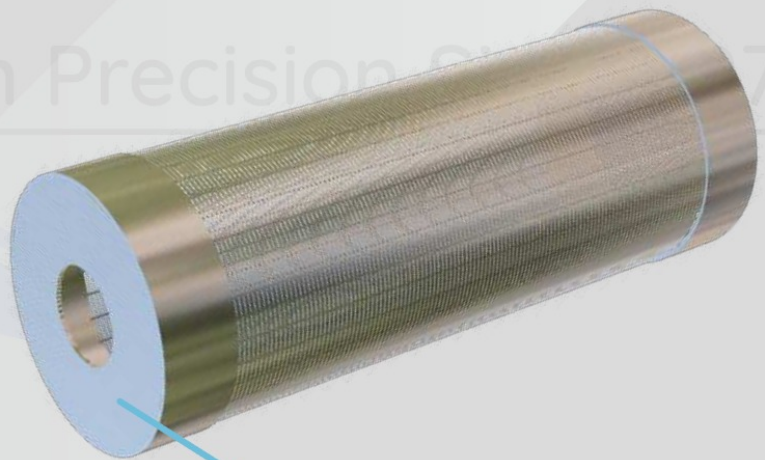


**Both side
50 mm rings**

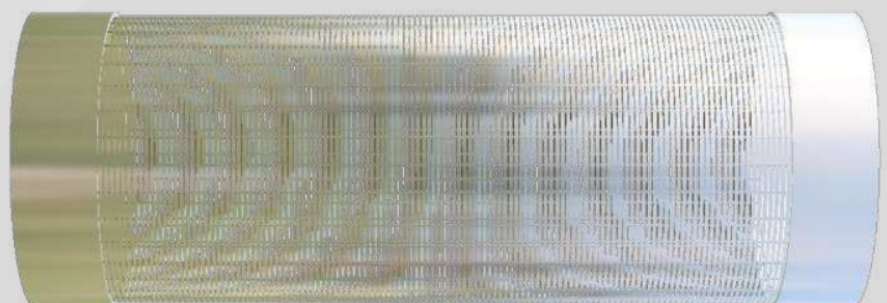
**HOLE FOR AIR
VENT 65 mm**



MOC AISI SS304



CLOSED WITH V WIRE FROM TOP



V WIRE SCREEN FILTER FOR RAIN WATER HARVESTING

WITH BOTH SIDE UPVC PIPE FITTINGS

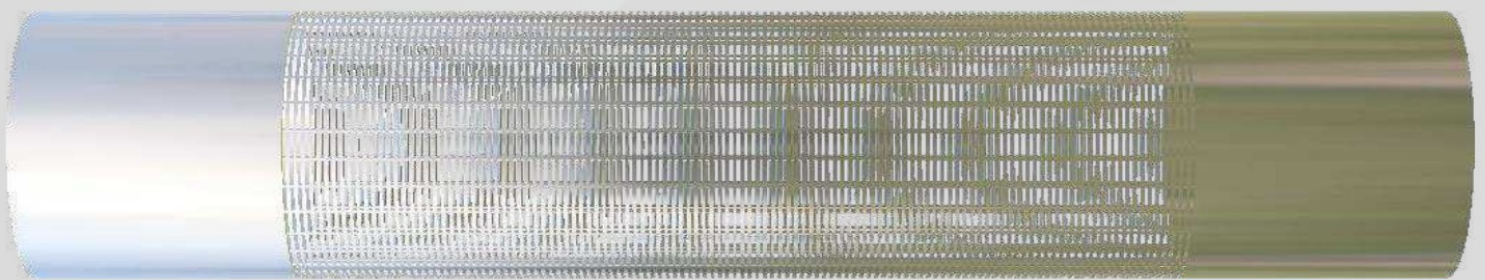
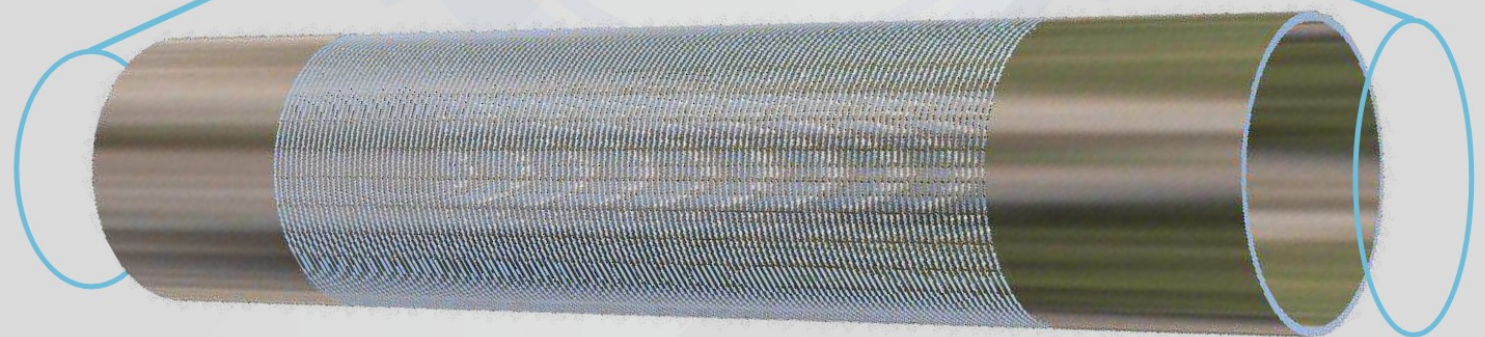
MOC AISI SS304 & MS

750 mm

750 mm

LENGTH 750 mm

**BOTH SIDE UPVC 6"
INCH PIPE FITTING**

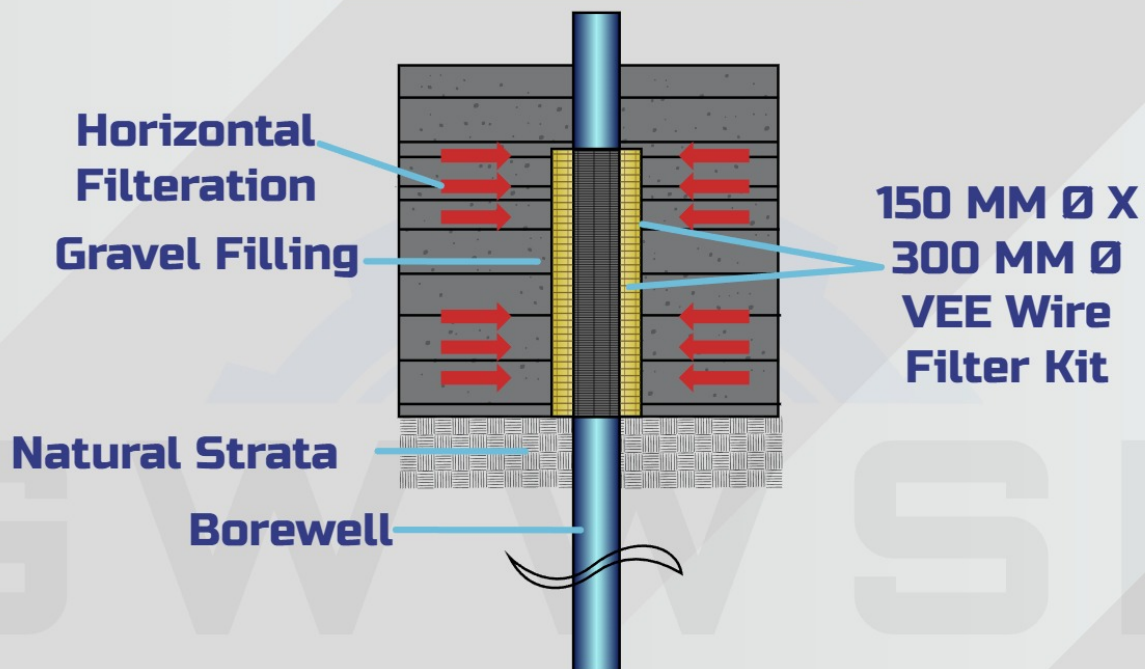


FITTING LENGTH 150 mm BOTH SIDE

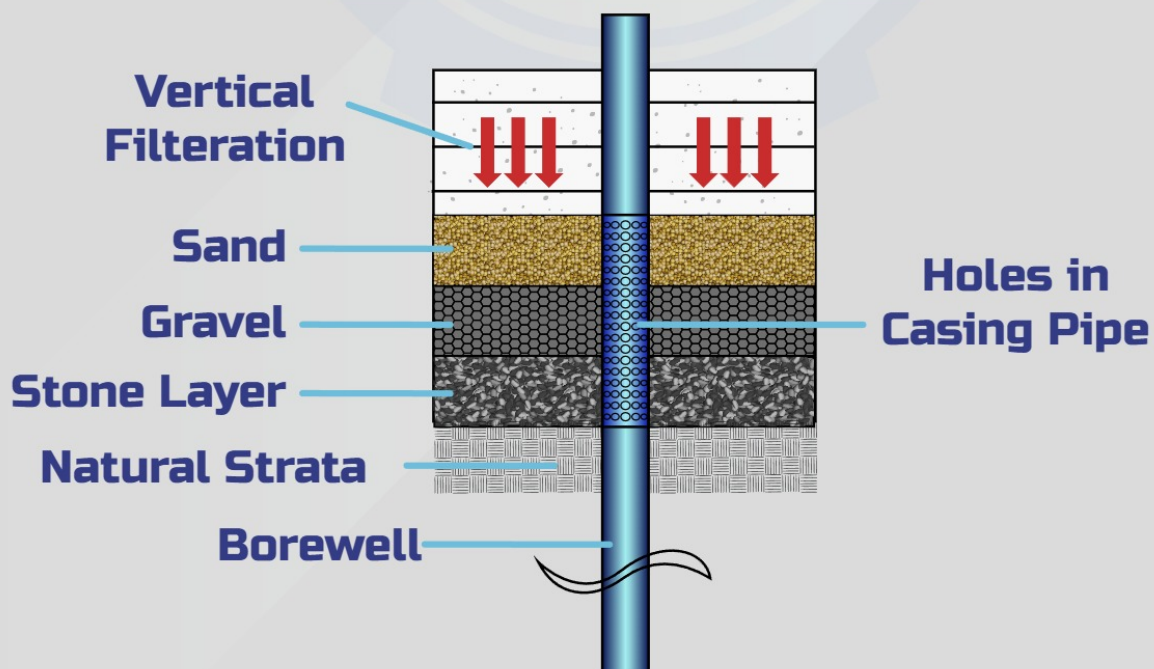
ADVANTAGES OF RAIN WATER HARVESTING SYSTEM OVER CONVENTIONAL METHOD

WITH BOTH SIDE UPVC PIPE FITTINGS

1. RAIN WATER HARVESTING SYSTEM USING V-WIRE FILTER SCREENS



2. RAIN WATER HARVESTING SYSTEM USING CONVENTIONAL METHOD



KEY DESIGN FEATURES & BENEFITS OF V-WIRE FILTER SCREEN

EFFICIENT & NON-CLOGGING SCREEN

Effectively filters out maximum suspended solids from raw water with non clogging slots for sustained recharge rate.

ANTI CORROSIVE MATERIAL

Made from stainless steel and suitable from acid treatment to remove incrustation, checking of gravels which ensures long life and rain water harvesting bore well.

EFFICIENT OPEN AREA

Compared to any slotted pipes gives maximum recharge rate at minimum frictional head loss which also reduces incrustation rate .

EASSY INSTALATION

Saves money, time and energy.
Customised for small or very large roof top area

V SHAPED SLOTS

Produces jetting effect to inject recharge water into the aquifer .

CONTINUOUS SLOTES GIVES

Large 100% open area.



V-WIRE FILTER SCREEN TECHNICAL SPECIFICATION & SIZE

V WIRE FILTER SCREEN KIT

- A. 4" INCH DIA X 6" INCH DIA
- B. 6" INCH DIA X 8" INCH DIA
- C. 6" INCH DIA X 12" INCH DIA
- D. 8" INCH DIA X 12" INCH DIA

0.15 TO 10 mm

0.1 meters to 4 meters

Customized fittings as required

AISI SS 304, LCG as per customer recommendation

SIZE

SLOT SIZE

LENGTH

END FITTING

MATERIAL

V-WIRE SINGLE FILTER SCREEN

- A. 4" INCH DIA
- B. 6" INCH DIA
- C. 8" INCH DIA
- D. 12" INCH DIA

0.1 to 10 mm

0.1 meters to 4 meters

Customized fittings as required

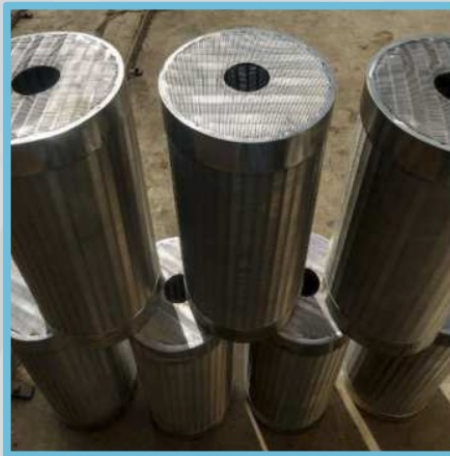
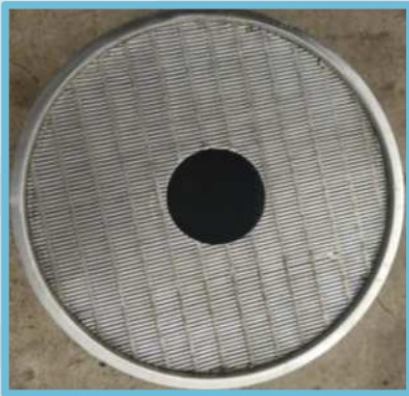
AISI SS 304, LCG as per customer recommendation



LIVE PICTURES OF OUR PRODUCTS

1. RWH AIR VENT TYPE

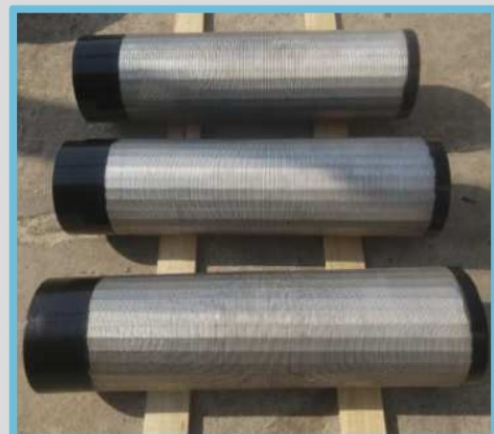
Description :one side closed with v wire and 65 mm hole & other side internal UPVC 8 " inches pipe fitting 50 mm

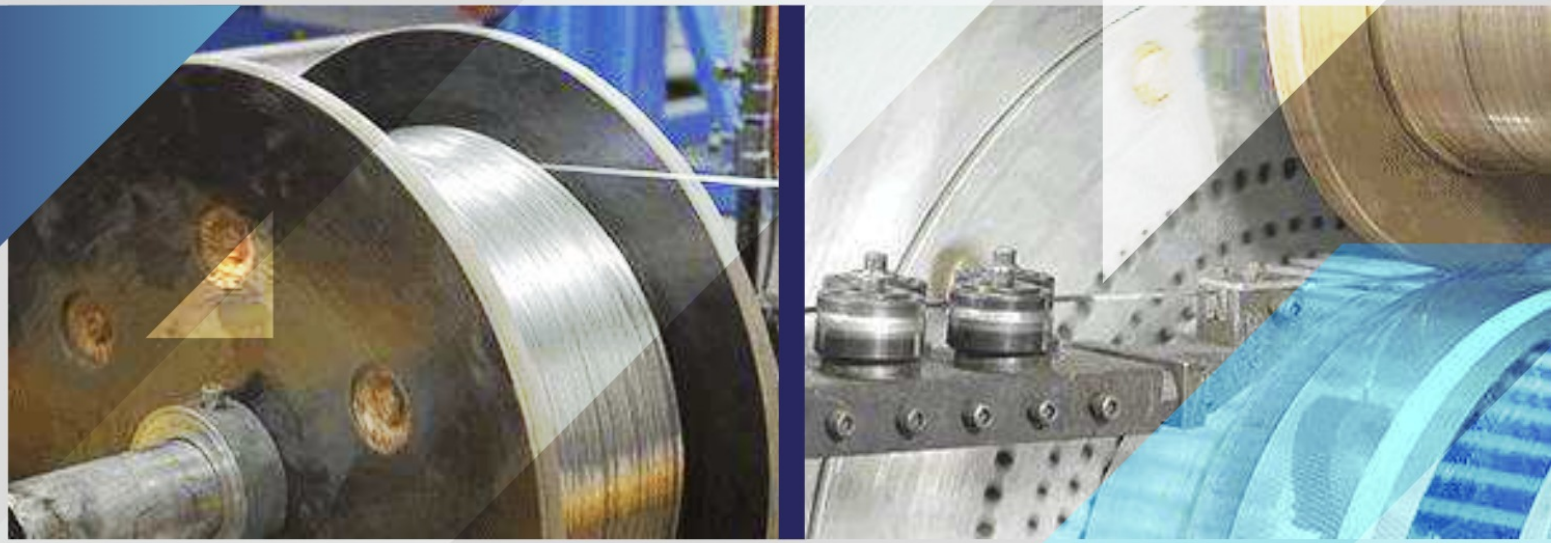


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2. BORING FILTER TYPE

Description one side closed with v wire & other side internal UPVC 6 " inches pipe fitting





ABOUT WEDGE WIRES

Wedge wire screens are manufactured either by loop or welded technology presently in India, in our endeavour for maintaining high standards of wedge wire screen the actual process begins with the highest quality raw wire then is made into screen that is cut, shaped, fabricated and cleaned.

Wedge wire can be ordered as raw screen material or fabricated to a finished product to suite your application requirements. The pinpoint control over the specifications of the slot is what allows us to provide our customers with highly accurate flow distribution and effective media, debris and sediment filtration.



ABOUT WEDGE WIRES

- Support Rods are structured on the basis of flow direction to the wrap wire for strengthening and maintaining of the proper wedge configuration of the screen allowing it to handle intense pressure demands.
- Our wedge wire screen are designed with precision to enable control on various process conditions including volumetric flow rate, minimum dimensional media retention, minimum open area and fluid pressure capabilities.
- We deliver product in varieties of stainless steels and alloys as material of construction both in standard or customizable screen applications and allied products usage.

THE BENEFITS OF USING WEDGE WIRE

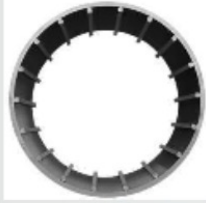
Our screen can be **welded to nipples, couplings, pipe, or flanges**. The fabricated and welded construction makes for durable quality vessel **internals and media retention** products. Wire mesh and perforated pipe may be less expensive initially, but wedge wire screens offer **easier installation and long-term operating and cost benefits**. Any process or vessel requirements can be accommodated, such as vertical or horizontal vessels.



BENEFITS OF WEDGE WIRE

- Extended product life and increased efficiency
- Consistent slotsize
- Capable of withstanding higher pressures than mesh or perforated plate
- Higher percentage of open area as compared to other materials
- Inherently clog resistant
- Ideal for self-cleaning applications in filters and strainers
- Very low pressure loss
- Durable in extreme conditions
- Low maintenance cost due to long lifespan
- Available in most high-nickel alloys for use in highly corrosive environments

PRODUCT OVERVIEW



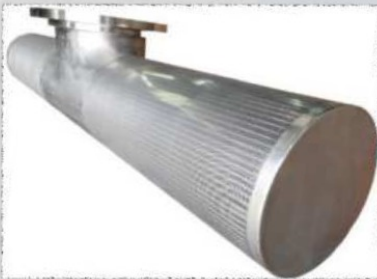
PLAIN SCREEN



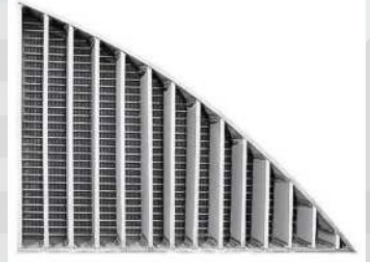
MEDIA RETENTION NOZZLES



HEADER AND LATERS



INTAKE SCREENS



SUPPORT GRIDS



RESIN TRAPS



VESSEL INTERNALS

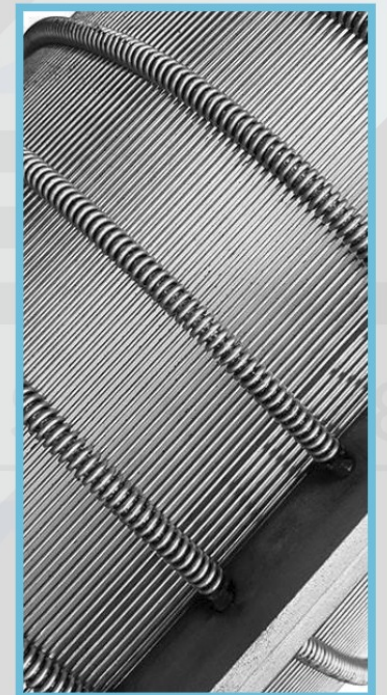


STRAINERS

LOOPED TYPE WEDGE WIRE SCREENS

Looped wedge wire screens are a type wedgewire screen that works for separating materials such as solids from liquids, and smaller materials from bigger materials. Individual wires are put through a machine, looped at pitch of **70 mm** and held together with cross rods of size **5 mm/ 8mm/10 mm/12 mm**.

The individual wedge wires are built into panels by feeding cross rods through the loops of the wires the hole are then clamped together and made secure, usually by riveting over the cross rod ends. Finished sieve grill made up of cross rods supporting profiled wires with loops, the usual materials of construction are stainless steel grade 304, 316, 430 and mild steel.



LOOPED TYPE WEDGE WIRE SCREENS

Advantages of looped wedge wire screens

- ≡ Stronger than welded wedge wire screens
- ≡ Deep arch looped wedge wire screens achieve a tilted effect for better water filtration
- ≡ Self cleaning
- ≡ Less heat used to manufacture screens
- ≡ Wear and corrosion resistant



Looped wedge wire screens are used in industries like:

- ≡ Coal mining
- ≡ Dewatering Screens
- ≡ Sand recovery/reclamation screens for foundries
- ≡ Glass recycling screens
- ≡ Sugar beet screens
- ≡ Paper and pulp screens
- ≡ Mineral and food processing
- ≡ Gold mining
- ≡ Petrochemical plants



WATER TREATMENT

ABOUT WATER TREATMENT

Water treatment screens and pipes are used for filtration of drinking, industrial water, irrigation water, river flow control and maintenance, recreation parks or many similar uses, aiding for environment balance. Filtration components aids in containment or reduces their concentration for desired end-use.



COST-EFFECTIVE TECHNOLOGY

The treatment standards and its technology are continuously changing, it requires the application to be efficient, cost-effective and better life, hence these filter are at certain places more effective then conventional perforated or membrane filters, we recommend our customers to use our filter along with others filters as per the process requirements at various stages of filtration.

IT'S OUR PRIMARY MARKET

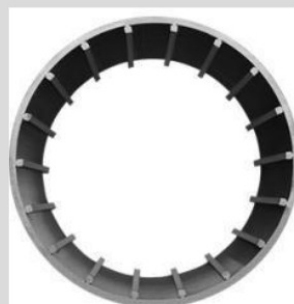
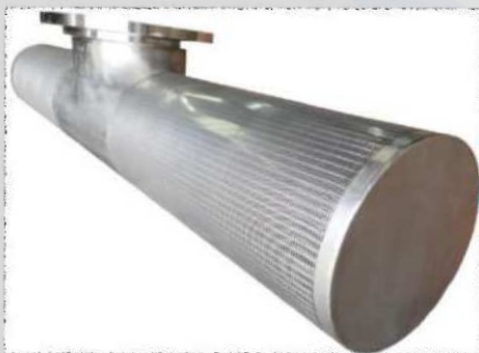
We have ensure that the varieties of internals, resin traps, v wire pipes and complete hub lateral systems are design and made available for our customers.



WASTE WATER TREATMENT

ABOUT WASTE WATER TREATMENT

- The process of removing the majority of **contaminants from wastewater/sewage**. To be effective, sewage must be conveyed to a treatment plant by pipes and substructure and the process itself must be subject to regulation and controls.
- Some wastewater processes require different and sometimes specialized treatment methods.
- At the simplest level, treatment of sewage is carried out through **separation of solids from liquids, usually by filtration screens**.
- We play significant part as manufacturer in wastewater and effluent treatment industry our screens and pipes are used in wastewater for **removing solids from water source**.
- Wastewater contains large solids foreign debris to avoid interfering with treatment processes or cause unwanted mechanical wear in equipment.



OPM SCREENS

ABOUT OPM SCREENS

As OPM supplier to equipment manufacturers, we take pride in being customised design and engineering solution for wedge wire use in critical area of functioning suitable for original equipment manufacturer.



SUPERIOR WEDGE WIRE MEDIA RETENTION

We closely work alongside manufacturers that sell filters and strainers for creating an effective solution for screen usage. Our OPM screens are **non-clogging, offer a continuous slot formed by the V-shaped surface wires** (ensures a two-point contact between the particles and the slot), and high-precision slot sizes (which enables us to meet equipment manufacture's requirements).

The V-shaped surface wires allow **easy cleaning by mechanical scraping or back flushing, low pressure-drop, strong construction** for most applications.



OIL & PETROCHEMICAL

OIL, GAS AND PETROCHEMICAL

- ✎ The petroleum industry includes the processes of exploration, extraction, refining, transporting of petroleum products. Oil is also the raw material for many chemical products, including pharmaceuticals, solvents, fertilizers, pesticides, synthetic fragrances, and plastics. The industry is usually divided into three major components: upstream, midstream and downstream.
- ✎ Over the years our imputes has been to continuously improved and adapted to the standards required in industry for wedge wire products for reactor internals mainly used for media retention and solid-liquid separation processes.
- ✎ We try and ensure for optimal solution by understanding the end use requirement, our effort to deliver highly durable screens in the given specifications.
- ✎ We offer burst and collapse calculations, in-house inspections for slot control etc. to ensure we individually tailor our practices meeting quality plans set out by our customers.



POWER GENERATION

ABOUT POWER GENERATION

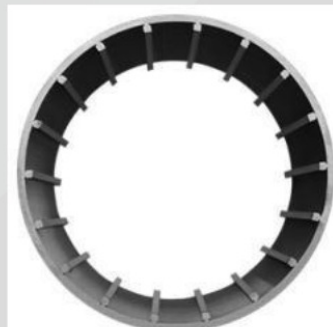
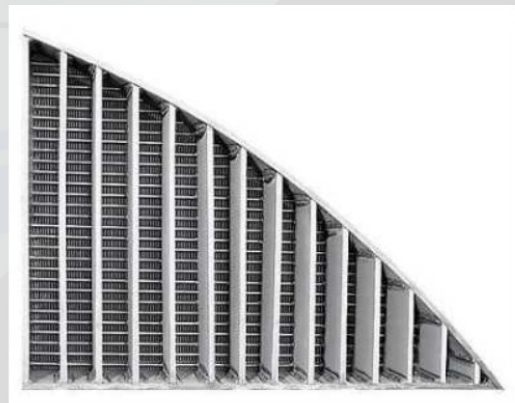
- Electricity generation is the process of generating electric power from other sources of primary energy. **For electric utilities**, it is the first process in the delivery of electricity to consumers.
- Electricity is most often generated at a power station **by electro-mechanical generators**, primarily driven by heat engines fuelled by combustion or nuclear fission but also by other means such as the kinetic energy of flowing water and wind.
- Our wedge wire products are used** in ion exchange tanks and water intake systems, filter elements of condensate treatment, de-mineralize filters device and ion exchange columns for the power plant.



FOOD AND BEVERAGES

ABOUT FOOD & BEVERAGE PROCESSING

- Food processing is the transformation of raw ingredients, by physical or chemical means into food. Processing combines raw food ingredients to produce marketable food products that can be easily prepared and served by the consumer.
- The food industry has a wide variety of applications which wedge wire has been used over many years. This includes flat **static panels, vibrating deck panels, sieve bend panels, centrifuges and static or rotating cylinders.**
- The main use of wedge wire in this industry varies from solid or water separation, grading and sifting to transporting, reclaiming and recycling. Some typical industries applications include: Fish, Vegetables, Oils and sugar just to name a few.



MINING

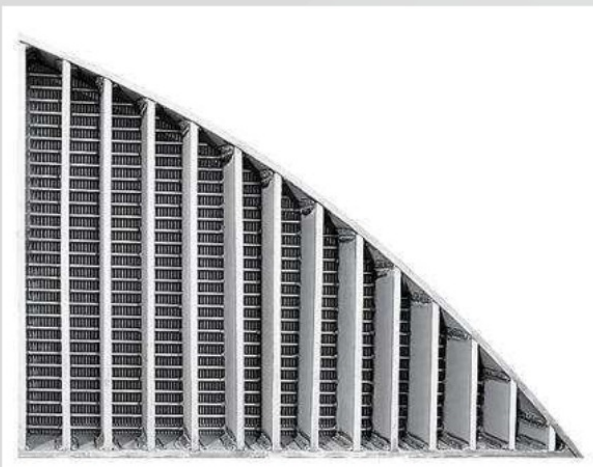
ABOUT MINING

≡ Mining has is known as the extraction of valuable minerals from the earth usually in the form of ore-body, lode, vein, seam, reef or placer deposits. These deposits that are recovered by mining include **metals, coal, oil shale, gemstones, limestone, gold, chalk, dimension stone, rock salt, potash, gravel, and clay.**



≡ As a manufacturer of stainless steel wedge wire, we offer the most comprehensive and innovative range of screens in the industry. Mineral processors throughout the world know the dramatic cost-per-ton reduction that can be achieved when using wedge wire solutions.

≡ The screens successes have been proven over more than two decades of progressive innovation and quality. Our team is committed to providing **technical support, design suggestions, provide information where necessary with the objective in mind of helping our customer's improve or optimize their operations.**



OUR CLIENTS

≡ SAIL ≡ MOIL ≡ JINDAL ≡ TATA STEEL
≡ METSO ≡ AM/NS ≡ ADANI ≡ NMDC
≡ KUMAR METAL ≡ KARAD PROJECT
≡ TATA CHEMICALS
≡ HYDRODYNE TEIKOKU PVT LTD

CROSS-BORDER SERVICES

≡ Indonesia ≡ Oman ≡ Singapore
≡ Dubai ≡ Europe ≡ Vietnam

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Locate us