



## About Us

WILL SCREEN & PLANT, since established in 2001, has been growing steadily by engineering, manufacturing, supplying stainless steel 'V' Wedge Wire Screens to domestic and overseas market in petrochemical, desalination, water & wastewater and the other industrial plants. With our own R&D center, we have been able to develop a state of the art technology and know-how for screening & filtration solutions and as a global leading manufacturer in screen & filtration industry, all products are designed, manufactured according to ISO 9001, ISO 14001, OHSAS 18001.

## Insights

As a Korean manufacturer of 'V' wedge wire screen & filtration systems, having its own facility in Korea with more than 20 years experiences, has been serving customers globally with the best solutions and ideas for better performance by engineering and customizing products as per customer requirements. Our core business is 'V' wedge wire screen used for parts of pressure vessel internals and filtering machinery, but also screening machinery complete set using 'V' wedge wire technologies such as automatic self cleaning filter, drum screen, static sieve screen, auto bar screen and intake screen. Our mission is to provide the highest quality, delivery on time, best customer service, R&D, document control and constant employ education.





## Our Application

Our esteemed 'V' wedge wire offers exceptional strength and resistance to collapse, breaking and buckling. The combination of high open area and non-clogging of the slots provides high volume flow and efficient separation & filtration while screens are used to collect or distribute the treated liquids and retains the treatment media and filters solids.

Thanks to a customized design and various material selection, we are providing multiple types of screens and related screening equipment in many different industries



### Oil & Gas, Petrochemical

- Screen Internals for Reactor, Absorber Vessel, Activated Carbon Filter, Mixed Bed Tank, Ion Exchanger



### Desalination, Power, Marine

- Intake Screen System
- Automatic Self Cleaning Backwashing Filter
- Cartridge Filter
- Manual Strainer



### Water & Wastewater

- Well Screen
- Manual/Auto Bar Screen
- Sieve Screen
- Drum Screen



### Starch, Food & Beverage

- Round Screen
- DSM/ICM Screen
- Screw Press Screen
- Vibrating Screen



### Paper & Pulp

- Basket Screen
- Drilled Hole Screen
- Mill Screen
- Mesh & Punched Screen



### Others

- Special Spool Fabrication
- Special Fitting Fabrication
- Steel Structure Fabrication



## ❖ Definition of Profile Wedge Wire Screen

- Wedge Wire Screen is a welded stainless steel structure consisting of 'V' shape wire and support. It is mainly used for filtration, separation and distribution of solids and liquids in different applications.
- This is made by wrapping 'V' shaped wires helically with support rod and this unique design construction contributes strong resistance against pressure and corrosion. The distance between the wires (so called 'slot') is controlled very accurately by automatic welding machine, as it greatly affects the fluid flow and filtering efficiency. We are providing a variety of selection options for wire and support rods based on our strength and flow calculation.
- 'V' shaped design also allows the fluids to go through the slots smoothly while sludge and debris are filtered without clogging which reduces the pressure drop and increase product life cycle.
- We provide various selection of stainless steel materials ranging from 304/316/321/347 to 31803/32750/HC-276/Ti/Cu-Ni



## ❖ Filtrations Direction

- The direction of the flow is determined by the position of the wires (so called 'surface profile') in relation to the support profiles. Wedge wire screens are constructed with either flow-out-to-in (FOTI) or flow-in-to-out (FITO)

## ❖ Advantages

- Non-clogging: The continuous slot formed by 'V' shaped surface wires allows only two-point contact between the particles and the slot, which minimizes clogging.
- High-precision slot sizes: Minimum slot tolerance is kept to make the highest precision slot size.
- Easy cleaning: The 'V' shaped surface wires allow easy cleaning by mechanical scraping or back flushing.
- Low pressure-drop: Reduce the amount of energy required to pull liquids through the screen, creating significant savings on operating costs.
- Strong construction: For most applications, the wedge wire screen can be used as a self-standing, with its own supports welded at each intersection.

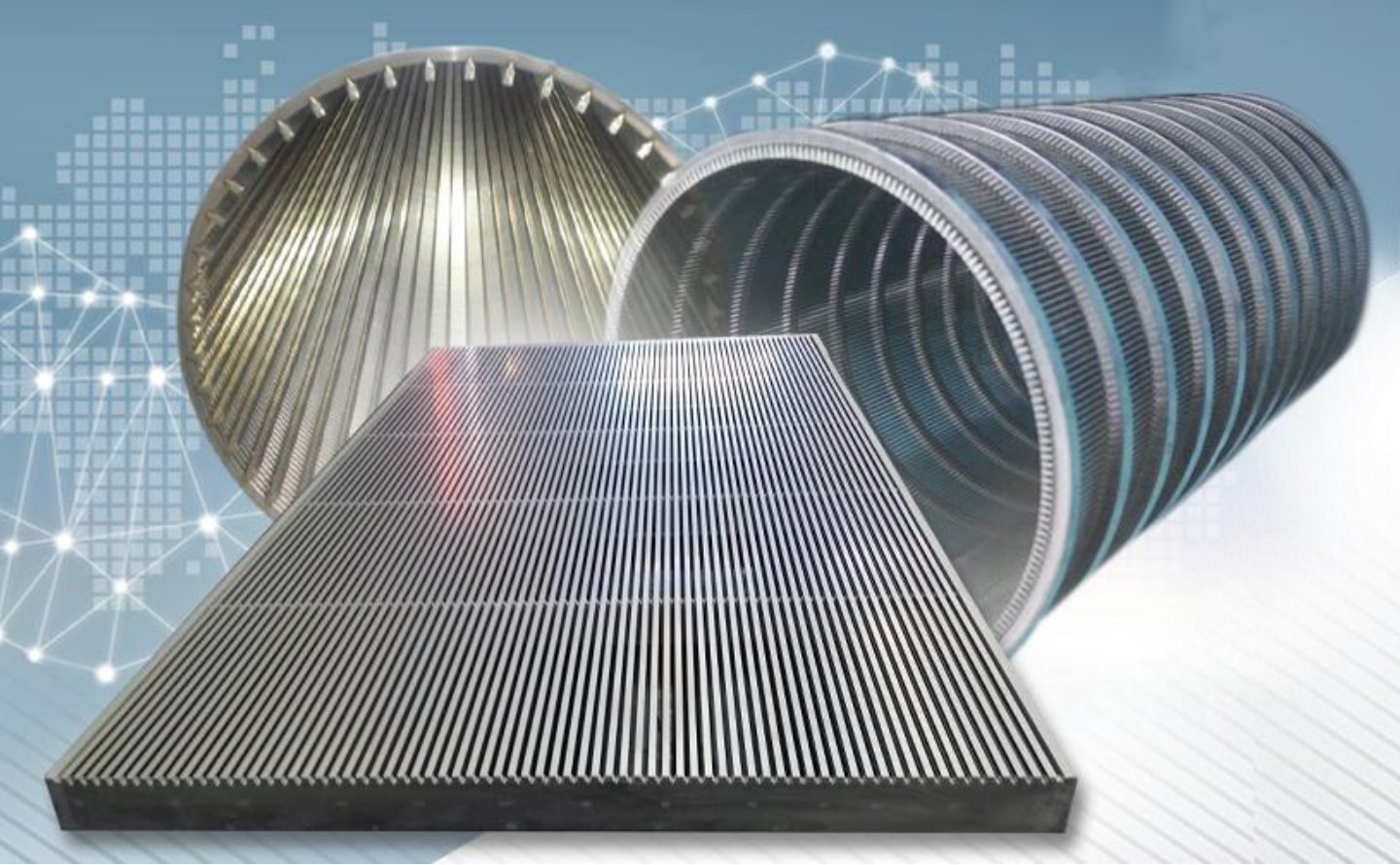




## ❖ Our Plant Business

- Plant business has become one of our important businesses. As customer needs are growing, we have expanded our scope of work and developed design and technologies for our screening machineries
- We are in a plant business by providing not only screen single item, but also screening machineries with cleaning functions equipped with drive and control devices, tank & pressure vessel, special spool fabrication.
- With 'V' wedge wire technologies and know-how, we have been supplying multiple types of screening machineries such as automatic backwashing filter, drum screen, static sieve screen, intake screen system in desalination, water & wastewater treatment plant
- We are also in a business for special spool fabrication, tank & pressure vessel and ensures a high welding quality through strict welding procedures and monitoring as per WPS & PQR
- We have been doing business with EPC contractors in petrochemical, desalination and water treatment plant through our strict work flow process and document & quality management as per ISO. We also achieve customer satisfaction by taking immediate action towards customer complaints.
- We keep sharing informations with customers through frequent communication and manage the delivery schedule through continuous schedule monitoring.
- we are particularly competitive when it comes to special materials or products that require accuracy and we are doing business based on our many experiences and references.





## ❖ Our Product Range

Wedge Wire Screen

Wire Mesh

Mesh Filter

Cartridge Filter

Pressure Vessel Screen Internals

Manual Strainer

Auto Strainer (Automatic Self Cleaning Filter)

Drum Screen

Static Sieve Bend Screen

Intake Screen

Manual/Auto Bar Screen

Special Spool Fabrication

Tank/Pressure Vessel Fabrication

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