



WELDED WEDGE WIRE SCREENS AND INDUSTRIAL FILTER MEDIA

Win Your Trust With Our Best!

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BRIEF INTRODUCTION OF ENTERPRISE



HISTORY

SINFT is located in Shijiazhuang City, Hebei Province, covering 26,658 m². We was established in 2007, Now we has become an excellent manufacturer of brand-compatible spare parts in the industrial filtration and spraying fluid delivery industries with 16 years of experience accumulation and precipitation .

PRODUCT CATEGORY

- High Pressure Filter Elements
- Low Pressure Filter Elements
- Hydraulic Filter Elements
- Stainless Steel Filter Elements
- Pipeline Basket Strainer (simplex&Duplex)

·Replacement filter elements for over 200 brands
INDUFIL, PALL, HYDAC, HILCO, BOLL&KIRTCH, MOATTI, FILTREC, INTERNORMAN, PARKER, SF, STAUFF, HIFI MP, VICKERS, DONALDSON, MP, ARGO, REXROTH, HY-PRO, EA-TON, TAISEIKOGYO, EPE etc.

VISION & MISSION

SINFT vision: High-quality, future-proof products and solutions with customer service for any need at any time. Everything we do starts with a specific need which represents our true mission. It drives us to continuously improve and build trust with our customers.

CERTIFICATION

SINFT certifications: ISO 9001:2015,CE, EPR

PRODUCTION

SINFT produces high quality accessories and spare parts compatible with major brands in the world market with much competitive prices. We use advanced, professional, automated and precise equipment to escort the orders, and our professional quality department from the operator to the precise control system of the machine which all ensure the safety and reliability of the quality.

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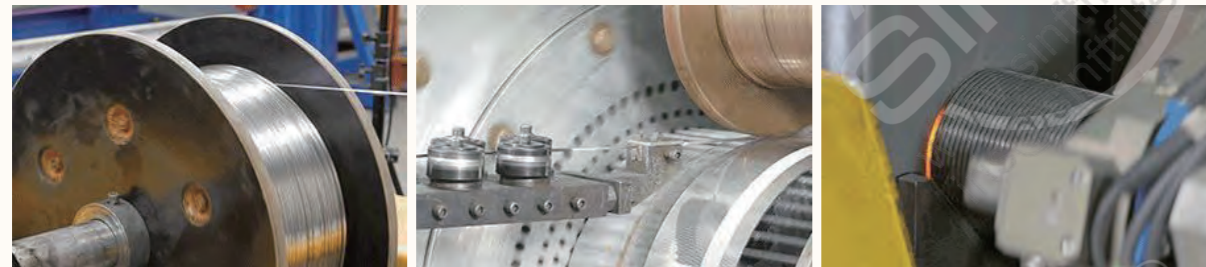
01. SINFT INDUSTRIAL PRODUCTS

Innovative Design

SINFT's stainless steel Vee-Wire filter elements for liquid/solid and gas/solid separation that is known for great strength, a long service life, and a high level of adaptability.

Vee-Wire screens are made by welding our patented V-shaped wire onto various sizes and shapes of support rods. This process creates a slot that enlarges inwardly, creating a large open area and clog-resistant surface.

Our continuous welding method meets the most demanding standards for ruggedness, durability, resistance to abrasion, consistency, and slot openings.



Custom Designed and Engineered

Each project is engineered to ensure it meets the required specifications. We provide guidance and support from project conception to completion.

A Highly Technical Product

The design and manufacturing characteristics of Vee-Wire surfaces, provide the following advantages:

- Non-clogging surface
- Abrasion resistant
- High flow rates
- Low-pressure drop
- Hydraulic efficiency
- Large open area
- Easy cleaning
- Mechanical strength

Quality

SINFT has been delivering reliable screens to various industries for more than 16 years and though technology has changed, our commitment to quality products and services have not.

As an ISO-certified company, each product is subject to a procedure of self-inspection by each operator throughout the manufacturing process. A final inspection guarantees delivery of a product that fully meets the user's specifications.



SINFT can provide the following documents upon request:

- Quality plan
- Manufacturing plan
- Production schedule
- Process qualification record (PQR)
- Welding procedure specification (WPS)
- Welder performance qualification (WQR)
- In-house inspection reports
- Chemical and/or mechanical analysis certificates

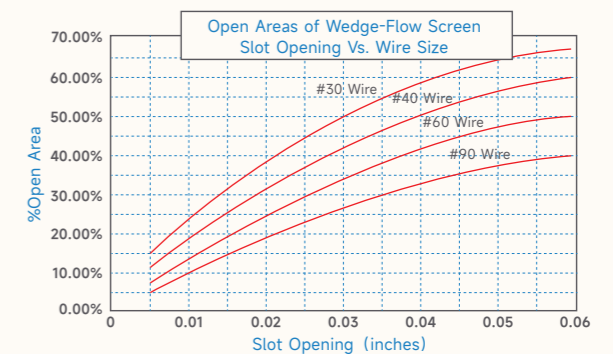
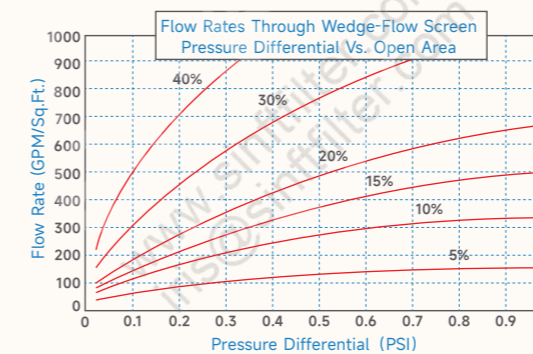
Specifications

Materials:

Stainless Steel 304, 304L, 316, 316L, 316 Ti, 321, 2205

Maximum differential pressure: 300 psi.

Maximum temperature: Synthetic seals 500 oF / NPT 1500 oF.



Applications



The SINFT Products



02. CYLINDRICAL SCREENS

Standard External circumferential wire and axial internal support rods.

Benefit

- Economical
- Suitable for most applications
- Precision openings

Product

- Filter cartridges
- Header laterals
- Nozzles
- Candle filters
- Rotating drum screens
- Resin traps



1.1 External Axial Wire (Re-Rolled)

External axial wire with internal circumferential support rods.

1.2 Product

- Automatic filters (Channel Rod Construction)

Perforated U-section channels replace the internal support rods. When the filter is used as a collector, flow is outside-in. When it is used as a distributor, flow is inside-out.

1.3 Benefit

- Optimized collection and distribution
- Replaces perforated inner tube

1.4 Application

- Potable water treatment
- Ion exchange
- Oil refining processes

2.1 Internal Axial Wire (Wire-Based)

Internal axial wire with external circumferential support rods.

2.2 Benefit

- Smooth internal screen surface
- Facilitates cleaning with an internal axial-movement scraper
- The flow moves across the wire edges for effective dewatering

2.3 Product

- Trommel screens with internal feed
- Dewatering systems
- Systems with an internal rotor or screw
- Baskets
- Automatic filters



2.4 Inverted

External circumferential inverted wire and axial internal support rods.

2.5 Application

Inside-out flow Internal Circumferential Wire (Re-Rolled) Internal axial wire with external circumferential support rods.

03. CANDLE FILTERS

Candle filters are filter elements with the following qualities:



- Small diameter usually less than 1.97 in. (50 mm)
- Substantial length usually greater than 39.37 in. (1,000 mm)
- Very fine openings: 25 to 150 microns, according to the application
- Direct filtration
- Medium support (diatoms in filters)

The filtration capacity can be easily modified by varying the number of candle filters to obtain the required filter area.



Cleaning

A stronger flow in the backward direction, known as backwash, cleans the candle filters effectively.

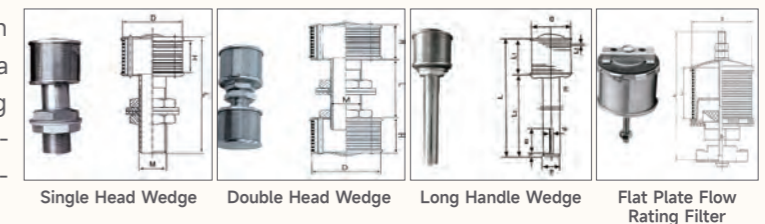
Maintenance

Because the filter elements are particularly rigid and rugged, they can be disassembled without risk of damage to the filter surface.



Filter Nozzle

It could be called "filter" because it merges like a mesh, which its main purpose is not to filter, but to retain a granular filter media or purifying agents inside the container that contains it, typically can be manufactured in stainless steel, PVC plastic.



Advantages and disadvantages of nozzles

Cylindrical shape to withstand high pressures

Manufacturing nozzles by welding a circular shape to support avoids the need for cups because the cylindrical elements are more resistant to high pressures.- Good distribution of the liquid being treated.Placement distance between centers of 2 nozzles: Optimum 6 inches and maximum 12 inches between each.



04. RESIN TRAPS

A resin trap is a safety device used on the overflow lines of ion exchange units, high-purity water systems and activated carbon and media filters.

In many systems, a valve failure can allow media to escape from the treatment vessel. Not only is the loss of expensive media significant, but damage can easily occur to downstream pumping equipment. Resin traps, placed inline, provide positive protection. The traps can be designed to capture media particles of any size



Features



- Continuous slot design, allowing traps to capture media particles of any size, providing sufficient open area to let process flow move smoothly
- Stainless steel construction (other alloys can be used, depending on pressure and temperature)
- Various options for sizes, shapes and connections, depending on process flow characteristics
- Designed for full system pressure

Benefits

- Prevents expensive resin/media loss into piping distribution system
- Protects downstream pumping equipment
- Visibility of minor resin/media losses in prevention of major equipment failure

Flat Screens

SINFT offers a variety of flat screens for the malting and brewing industries. Vee-Wire screens are ideal for:

- Lauder tubs
- Germination
- Kilning
- Ultra filtration
- Steeping
- Malt extraction



Used in the kilning, germination and drying phases of the malting process, Johnson Screens' malting bed screens are the ideal choice for malting floors and other screening needs in the malting process.

These screen panels can be designed to minimize "dead spots" in the malting floor over supports or other structures, to further improve the overall process. In between malting batches, the screens are very easy to clean, reducing contamination of the process

05. SCREEN LATERAL SYSTEMS

These assemblies consist of a series of screen laterals connected to either a central header pipe or a hub. They are designed for effective media retention in a wide range of applications, including ion exchangers, clay and sand filtration applications and carbon towers.

1. Features

- Lateral spacing, length, diameter and slot opening sizes are based on individual system need: slot size 0.002 in. (0.05 mm) and up in 0.0004 in. (0.01 mm) increments and diameter from 0.79 in. (20 mm) and up
- Assemblies are typically made with type 304SS, 316LSS or other exotic alloys are also available
- Connections of the laterals can be threaded fittings, couplings or flanges



2. Benefits

- The design allows a uniform collection or distribution flow of a gas or liquid through treatment media without dead zones
- The system can accommodate a wide variety of vessel sizes and shapes with side, center, top or bottom inlet piping
- The assemblies can be designed to accommodate flow in any direction



Pressure Screens



Pressure screens are mainly used for the stock preparation in the pulp and paper industry. They can be used for any application involving fiber or fine grain filtration.

1. Features

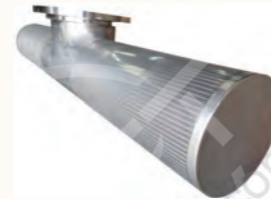
- Specific, contoured wire shape
- Diameters from 7.87 in. to 59 in. (200 mm to 1,500 mm)
- Increased screening efficiency
- Special surface chroming process allows for less frequent cylinder replacement

2. Benefits

- The continuous slot gives a greater performance with a higher open area

06. INTAKE SCREENS

Intake screens, half intake screens and drum intake screens, they are commonly used in hydroelectric, agricultural, drinking water applications to filter unwanted materials from water. Intake screen is commonly used in lakes known as lake pump intake screen.



1. Specifications

Name	Specifications
Material	stainless steel and Duplex stainless steel
Slot size	0.1/0.15/0.2/0.25/0.3 and up to 6.0 mm.
Diameter	25 mm to 1500 mm
Wedge wire sizes Width	1.5/1.8/2.3/3.0/3.3/3.7 mm
Height	2.2/2.5/2.7/3.6/4.3/4.7/5.6/6.3/7.0
Support rod sizes Width	2.3/3.0/3.3/3.7 mm
Height	2.7/3.6/4.7/5.6/6.3 mm

2. Applications

- Hydropower Intake
- River Application
- Municipal water supply
- LNG plants
- Paper & pulp
- Lake Application
- Water Cleaning
- Water treatment plants
- Desalination
- Sugar mills
- Nuclear power plants

Wedge wire screens

Wedge wire screens are a type wedge wire 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.

1. Advantages

- 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

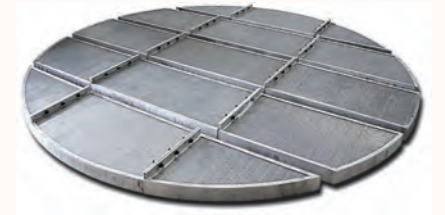


2. Applications

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

07. SUPPORT GRIDS

The support grid system is available in a variety of framing options and designs — as a one-piece construction or in multiple sections for onsite assembly and ease of retrofitting through existing manways. Because of their strength, durability and flow characteristics, the support grids are widely used in hydrotreaters, desulfurizers, molecular sieves, gas sweeteners, ion exchangers and other absorption systems.



1. Features

- Slot size can be designed for direct media retention
- Grids can be supplied with support beams, rope packing, bolting and all necessary accessories

2. Benefits

- Self-supporting structure
- Exceptional resistance to collapsing or buckling, even in operations where screens must withstand extremely high loads
- More effective open area than grids using wire mesh or grating
- Smooth surface of the screens reduces abrasion of media

Screw Press Screens

For dewatering using a screw press, we can provide a screen designed to meet your exact specifications. Johnson Screens' high-strength design can withstand the rugged operation, while providing an accurate slot width and maximizing open area to maximize dewatering. For use in numerous industrial designs. Abrasion resistant options are available.

1. Features

- Accurate slot width
- Custom designed to fit any application

2. Benefits

- High strength design
- High open area



08. CYLINDRICAL BASKETS

Cylindrical baskets can be designed for a flow from out to in (standard construction) or from in to out (re-rolled construction). These screens are adapted for self-cleaning filters or screw press filters and can be cleaned with static scrapers.

Features

- Dimensions adaptable to any specific needs
- Large range of constructions (wires, rods)
- All slot sizes from 25µm
- Flanges and reinforcement rings available depending on the application



Benefits

- Self cleaning surface
- High open area
- Strong construction

Cartridges and Outlet Baskets

A large range of industries use cartridges. Rugged, precise and easy to clean, these filter elements are suitable for all industrial processes.

They can be used for:

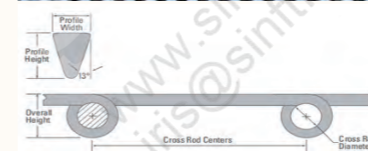
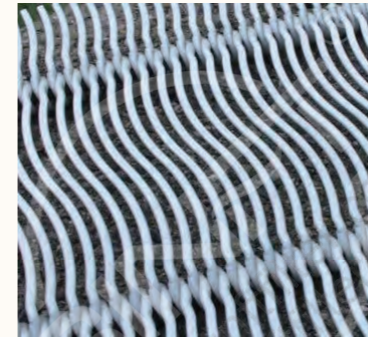
- Conventional filtration, outside-in
- Reverse filtration, inside-out

The use of extremely fine wire maximizes the open area. This process is even more effective for slots smaller than 100 microns. The following types of fittings can be welded to allow incorporation of cartridges into any process:

- Collars
- Flanges
- BSP or NPT threaded end fittings
- Machined rings for fittings with O-rings or flat baskets
- Other fittings



09. WEDGE WIRE PANELS



Loop Profile wire screens find uses in a wide variety of applications. Loop construction eliminates a welding requirement to join the rod and wire, and greatly increases the strength and durability of the screen.

SINFT' proprietary loop wire manufacturing process allows for a great degree of flexibility in producing various profile shapes, openings and support member configurations. Standard specifications for Loop Profile wire screens are illustrated. Additional specifications are available by contacting your Wedge Wire sales engineers. Flexible manufacturing gives Wedge Wire the capability to manufacture screens utilizing virtually any metal, from basic carbon steels to high tech alloys.

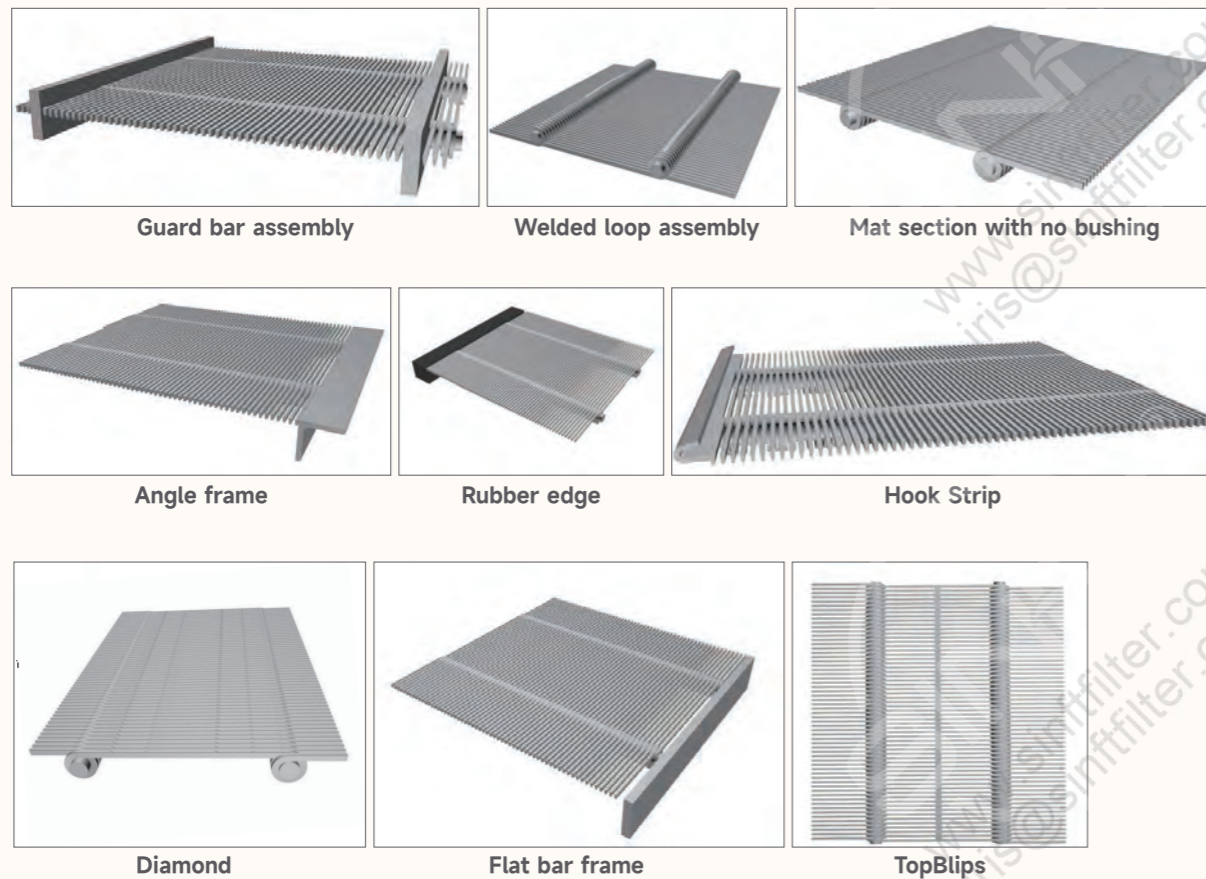
Specifications for Profile "D"

Wire Number	Standard Openings (in.)	Cross Rod Diameter(in.)	Cross Rod Centers (in.)	Profile*	
				Width (in.)	Height (in.)
70	.003- .040	0.25	2	0.06	0.085
100	.005- .060	0.3125, 0.375	2.75	0.086	0.125
132	.010- .080	0.3125, 0.375, 0.5	2.75	0.109	0.156
156	.020- .100	0.375, 0.5	2.75	0.135	0.188
187	.030- .120	0.375, 0.5	2.75	0.172	0.219
217	.040- .160	0.375, 0.5	2.75, 4.	0.188	0.266
250	.060- .200	0.5	2.75, 4	0.219	0.281

Specifications for Profile "WT"

Wire Number	Standard Openings (in.)	Cross Rod Diameter(in.)	Cross Rod Centers (in.)	Profile*	
				Width (in.)	Height (in.)
156	.020- .100	0.375, 0.5	2.75	0.125	0.188
187	.030- .120	0.375, 0.5	2.75	0.156	0.219
217	.040- .160	0.375, 0.5	2.75, 4	0.188	0.25
250	.060- .200	0.5	2.75, 4.	0.219	0.131

10. LOOPED WIRE ASSEMBLY AND FRAMING OPTIONS

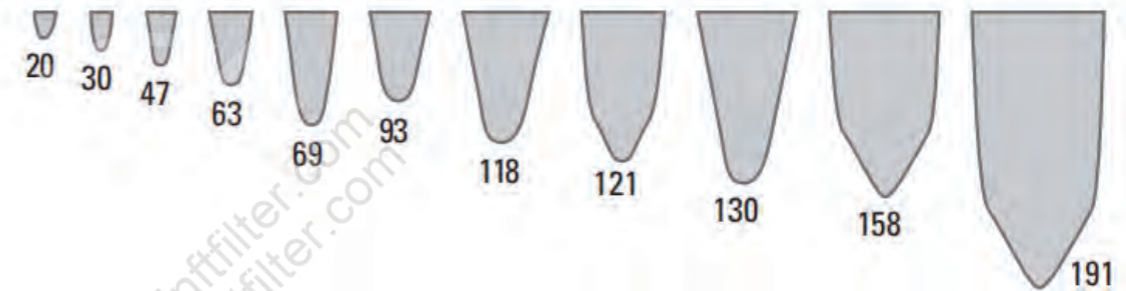


Comprehensive fabrication capabilities allow to supply a wide range of customized framing and assembly options designed to meet individual customer needs.

SINFT' s technical department and engineering staff are available to help create the total profile wire system which is best suited to solve your specific application requirements.

11. WIRE AND ROD INFORMATION

Vee-Wire® Profiles - Most Commonly Used



Name	Width		Height		Section Area		Relief Angle
	In.	mm	In.	mm	in2	mm	
20	0.020	0.508	0.040	1.016	0.0005	0.323	11°
30	0.030	0.762	0.050	1.270	0.001	0.645	13°
47	0.047	1.194	0.088	2.235	0.003	1.935	10°
63	0.060	1.524	0.100	2.540	0.004	2.581	13°
69	0.071	1.803	0.177	4.496	0.010	6.452	7°
93	0.089	2.261	0.138	3.505	0.009	5.806	13°
118	0.116	2.946	0.185	4.699	0.015	9.677	13°
130	0.130	3.302	0.250	6.350	0.023	14.839	8°
191	0.195	4.953	0.363	9.220	0.055	35.484	5°

Shaped Support Rods



Name	Width		Height		Section Area		Section
	In.	mm	In.	mm	in2	mm	
29	0.029	0.737	0.102	2.591	0.003	0.076	0.037
63	0.060	1.524	0.100	2.540	0.004	2.581	0.050
93	0.089	2.261	0.138	3.505	0.009	5.806	0.150
XJR	0.089	2.261	0.189	4.801	0.013	0.330	0.298
60SF	0.060	1.524	0.120	3.048	0.006	0.152	0.077
156	0.151	3.835	0.217	5.512	0.022	0.559	0.600