

 **SERKO SCREEN**  
Wedge Wire Filtration Technologies

 **SERKO MAKINA**



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# WHO WE ARE?

**Serko Screen A.Ş.** is a screen production company established in Kocaeli in 2011. The company is a key player in the industrial sector, providing high-quality screen solutions tailored to meet the diverse needs of various industries. **Serko Screen** offers an extensive range of sector-specific industrial screens designed to serve a wide array of applications.

With a strong reputation in industries such as sugar, salt, chemicals, soda, coal, paper, refining, petrochemicals, and other screening industries within its region, **Serko Screen** brings years of experience and expertise to the table.

**Serko Screen** has secured a solid position in the market due to its commitment to product quality, customer-oriented approach, and focus on quality-driven production. With a strong emphasis on innovation and continuous improvement, the company stays at the forefront of the latest technologies, constantly enhancing its product offerings to meet the evolving needs of its customers.



# OUR STRATEGY

Our company is located in Turkey, which is increasingly important geopolitically and serves as a bridge between Asia and Europe.

Especially in the post-pandemic period, the understanding of the Far East-centered production base has shifted towards the west, and our country, which has a very wide manufacturing infrastructure, has become more important than ever thanks to its know-how, technology, logistics and workforce advantages.

As **Serko Screen**, we aim to be one of the best in the world in our field with our experience, production infrastructure and short-term delivery advantages.



# OUR BASIC PRINCIPLES

- To ensure and increase the satisfaction of our customers with the quality of the products in our portfolio
- Continuously improving all processes that affect the success of our company
- Increasing the individual development and contributions of our employees through continuous trainings
- Creating an environment that will ensure the high motivation and continuous development of our employees
- To be a leading organization in the sector in terms of quality and service
- Creating approved suppliers with whom we can collaborate
- To protect the interests of the environment and society and to comply with the necessary legislation
- Using all resources that are valuable for our world and environment efficiently



## WHAT WE PRODUCE?

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**Wedge Wire Screens**

**2**

**Looped (Wire Wrapped) Screens**

**3**

**Wedge Wire Screen Tubes**

**4**

**Cylinder Screen Baskets**

**5**

**Sieve Bend Screens**

**6**

**Centrifugal Baskets**

**7**

**Pulper and Turbo Separator Screens**

**8**

**Perforated Plates**

# WEDGE WIRE SCREENS

**Wedge wire screen** panels are manufactured by welding profile wires to support rods at an angle of 90 degrees.

A precise slot is achieved by applying modern welding technology on profile wires and support rods. The result is a rigid screen construction capable of withstanding heavy loads with a great resistance.

## BENEFITS:

- Flat surface
- High strength
- Chemical stability
- High load capacity
- Temperature resistance
- Corrosion and rust resistance
- Excellent filtering performance
- Superior mechanical properties
- Accurate distance between supporting profiles
- Welded production process for solid and strong structure

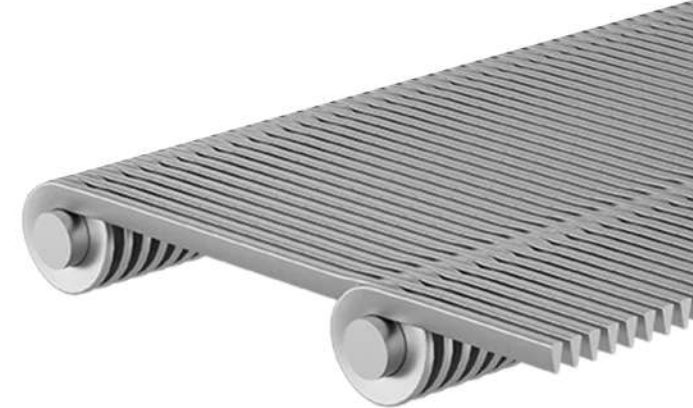


## LOOPED (WIRE WRAPPED) SCREENS

**Looped screens** are generally used for solid-liquid separation, filtration or separation of large and small parts in the same type of product. Each wire is passed through special machines and looped, the desired slot spacing and the angle between the wires are adjusted and brought together with fixing rods to obtain a rigid structure. Thus, the completed screen has a uniform appearance and a smooth surface with the regular arrangement of the profile wires and the steel rods inside the loops.

### BENEFITS:

- Self Cleaning feature
- High strength
- Flat surface
- High load capacity
- Long lifespan
- Corrosion and rust resistance
- Excellent filtering performance
- Superior mechanical properties
- Perfect surface quality and wide material options
- Modular, design possibility according to user requests



## WEDGE WIRE SCREEN TUBES

**Wedge wire screen tubes** are commonly used as screening components in a variety of industries to provide screening and filtration of solids or liquids.

**Wedge wire screen tubes** are constructed of V-shaped wires and support rods. These screen tubes are used in a variety of applications including water treatment, oil and gas industry, food and beverage production, mining, and environmental protection.

### FLOW DIRECTION:

- FOTI: From outside to inside
- FITO: From inside to outside
- Radial Slots: Slot orient along the screen diameter in a parallel fashion
- Axial Slots: Slot orient along the screen length in a parallel fashion



## CYLINDER SCREEN BASKETS

**Wedge wire screen cylinder baskets** are manufactured by simultaneously winding the profile wire in a spiral shape and welding it to the support wires arranged along the axis of the cylindrical structure. This technology makes it possible to use it for applications where high strength as well as high precision is required.

**Wedge wire screen baskets** have higher load capacity than wedge wire screen tube. They are widely used in heavy duty applications and provides a long service life.



# SIEVE BEND SCREENS

**Sieve bend** is a kind of fixed slit screen with certain curvature radius and wrap angle. It has no moving parts with simple structure yet large processing capability. Sieve bend plays the role of dewatering, sculping, desliming and recovery of graded slime in the process of coal preparation.

**Sieve bends** have continuous slots, which has efficient filtering performance. Forces exerted as materials flows against the curved surface, curved screen structure has better filtering and greater capacity than the wedge wire screen panel.

## BENEFITS:

- Non-clogging
- Easy to install / replace
- Long and durable service life
- Corrosion and rust resistance
- Superior mechanical properties
- High filtering, sizing, dewatering performance
- Low maintenance, easy to clean
- Great capacity than the traditional vibrating screens



# CENTRIFUGAL BASKETS

**Centrifugal basket** is a kind of metal-slotted centrifugal basket-like structural element for screening and filtering and is a key component of the centrifuge.

Screen baskets generally consist of an upper flange, a lower flange, reinforcement ribs, reinforcement rings and a stainless steel cone mesh cylinder. Sieve bars are made along the conical surface of the sieve basket and are produced in a wedge shape to prevent the sieve from clogging.

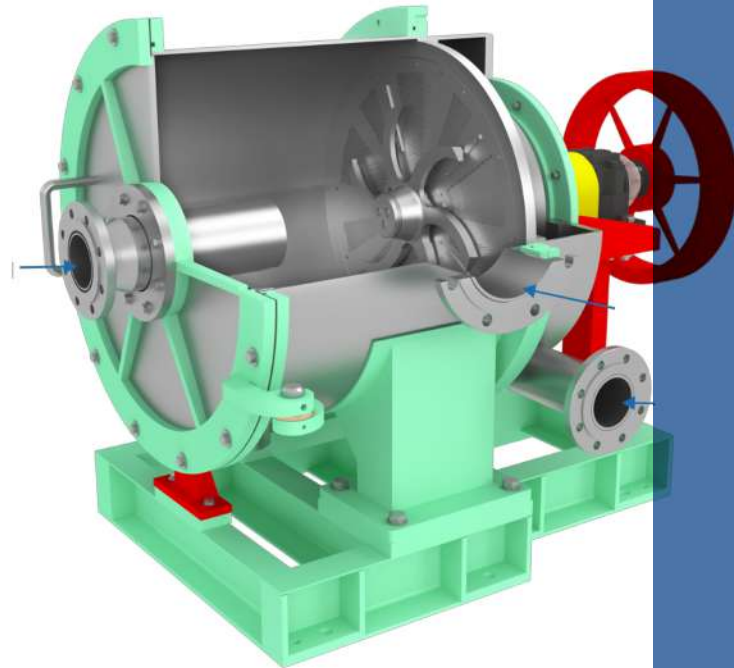
## **BENEFITS:**

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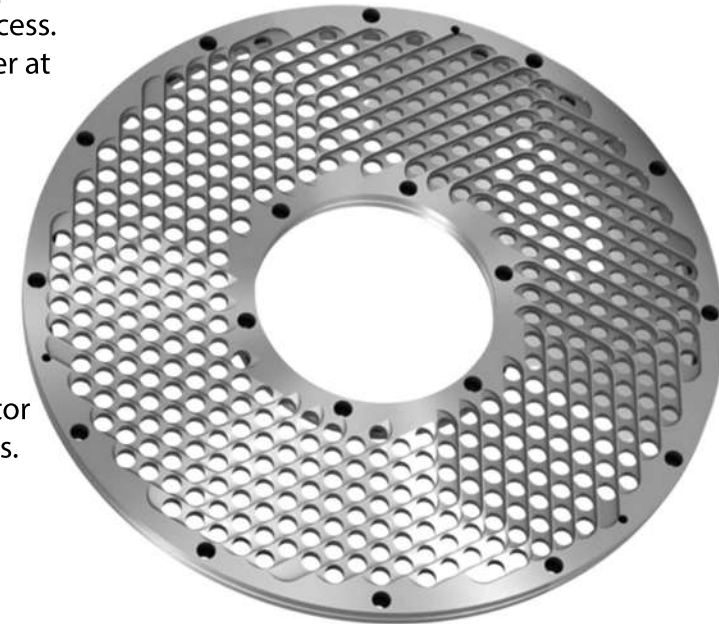
- High load capacity
- Perfect mechanical property
- High strength
- Economical
- Outstanding filtering performance
- Corrosion and rust resistance
- High and low temperature resistance
- Durable and long service life



## PULPER AND TURBO SEPARATOR SCREENS



Pulpers are a type of mixers with special blades made to turn scrap paper back into pulp. There are many types of pulpers available. In addition to obtaining pulp, pulpers also serve to remove most of the impurities in scrap paper from the system without putting it into the process. The pulper has a blade inside and a strainer at its base. In this form, the pulper works like a meat grinder, shredding the scrap paper and making it large enough to pass through the pulper sieve. Since the unshredded scrap paper cannot pass through the pulper screen, it remains in the pulper until it is shredded. We manufacture pulper and turbo separator screens in desired sizes and hole diameters.

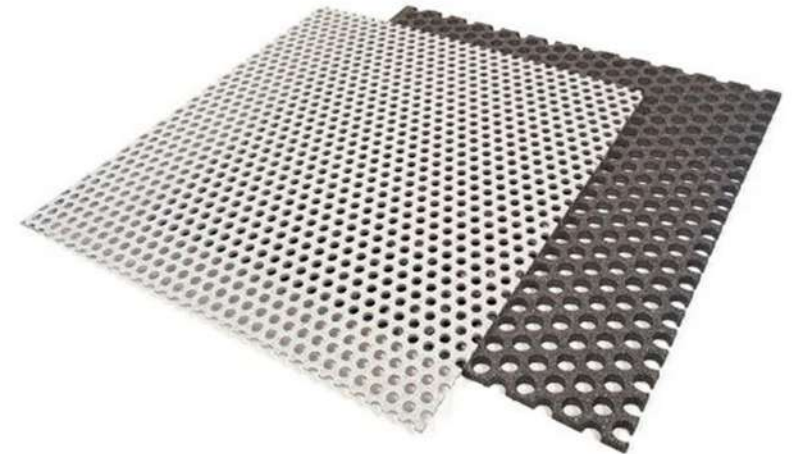


# PERFORATED PLATES

We manufacture **perforated** sheet metal with a perforated blasting machine for requests with a hole diameter/sheet wall thickness ratio ( $d/t$ ) of 1 and above.

Pulper screen, porg screen, turbo separator screen, pulp catcher drum strainer are some examples from our production range.

Sheet width is max 2000 mm and there is no limitation on length.



## OUR REFERENCES



**THANK YOU**

*We hope to establish a long-term cooperation by offering you our high-quality products and services.*