Excellence in Screening Solutions

Vision
Our vision is to sustain profitable growth through the supply of high quality profile wire screen products and services to all our customers as we continually expand our global presence.

Mission
We are dedicated to producing an array of high quality screen products which exceed our customers’ expectations through our committed, dynamic and flexible employees.

We aspire to become a major global screen manufacturer through the continuous development of our products, services and expansion of our customer base worldwide.

We are strongly committed to providing each and every one of our employees with a safe, clean and enjoyable environment in which to work.

Values
Safety and Environment:
As a company and individuals, we are committed to providing a safe and clean working environment for our employees and our visitors. We will ensure our processes and products provide minimum detrimental effect to the environment. We will continually review safety and environmental processes, practices and procedures to ensure compliance and continuous improvement.

Customer Experience:
As a company and individuals, we are committed to providing an excellent customer experience both externally and internally. We will ensure we have the best understanding of the customers’ expectations and ensure we meet and wherever possible exceed their expectations. We will communicate in a prompt manner and obtain our customers feedback and satisfaction on a regular basis to continually improve.

Quality:
As a company and individuals, we are committed to ensuring our products are of high quality and meet our customers’ expectations through the effective deployment, maintenance, improvement and disciplined ownership of our Quality Management System.

People:
As a company and individuals, we are committed to recognising that our people are our single most important asset in the realisation of our Company’s Vision and Mission. We will be committed to the hiring, training and development activities of our employees such that they can fulfil their own job requirements and ambitions. We will work closely with our employees such that we develop a culture that is aligned with our Company’s Vision, Mission and Core Values and provides the employee with motivation and job satisfaction.
Introduction

Since our incorporation back in 2010, CP SCREENS PTE. LTD. has been developing into a recognised Singaporean designer, manufacturer and supplier of Profile Wire Screens to many critical industries. Up until our incorporation, our Profile Wire Screen products were previously available under COMPLETION PRODUCTS PTE. LTD.. A strategic decision was made to establish a new company which enabled CP Screens to concentrate its efforts beyond the oil and gas industry. Both CPS and CP have had a history of providing efficient, long lasting, maintenance free products that operate in a variety of applications. To achieve this we stand to be transparent to our clients’ requirements and provide them with the best solution to not only match, but exceed their own customer’s expectations.

CP Screens specialises in the design and manufacture of high quality Profile Wire Screen products for the following industries on a global scale:

- Oil & Gas
- Petrochemical & Refining
- Food & Beverage
- General Industrial
- Water Process & Treatment

It is through the following Core Competencies that enables CP Screens to deliver quality products on time:

- Dynamic and Flexible Organisation
- High Operational Efficiency
- Strong Quality Management System

Additionally through our identified and proven company Core Values listed below, CP Screens is well positioned to move rapidly in the marketing and product development of our Profile Wire Screens.

- Safety and Environment
- Customer Experience
- Quality
- People

Lastly, our location in Singapore is well suited given that this country is well recognised as a leading and highly competitive manufacturing centre in the world. Singapore also bolsters its competitiveness by its logistical proximity in an ever growing Asia-Pacific region. Singapore’s first-rate infrastructure also ensures that we have the best tools and resources available at hand to deliver on our genuine promise.
From the inception of the company, CP Screens has been designing and manufacturing Downhole Sand Control Screens for the Oil and Gas industry. CP Screens has a broad product offering for Direct Sand Retention and Gravel Pack Screens for Cased Hole, Open Hole and Remedial Sand Control Applications including Wire Wrap Screens and Prepack Screens.

Our Wire Wrap Screens (CP-Wrap) range in size from 2” to 7” diameter and have excellent slot control confirmed via our optical measurement system with a standard deviation less than 15µm. These screens are used in direct retention for relatively uniform reservoir sands in open hole applications or in gravel pack completions in an open or cased hole.

Our Prepack Screens (CP-Pack) range in size from 2” to 7” diameter using a ceramic proppant which provides increased permeability resulting from its spherical uniformity compared to resin coated sands (also available). Our manufacturing process and Quality Control ensures the annulus is free from voids providing 100% sand control integrity. Traditionally used in long open hole horizontals and cased holes which are difficult to obtain complete packs, CP-Pack provides the additional insurance of sand control integrity beyond the gravel pack process.
CP Screens designs and manufactures a wide range of screen vessel internals to suit axial flow processes including Hydroprocessing, Hydrodesulphurisation, Gas Driers, Hydrocracking, Alkylation and Sand Filters to name a few.

Each of our Profile Wire Screens are carefully designed from the specified design conditions which includes the vessel design temperature, pressure drop through the catalyst/media bed, catalyst/media size, minimum open area and the manway size amongst other factors. Therefore it is very important to work closely with CP Screens during the design and engineering stage to ensure that all screen characteristics are accommodated.

The role of screen vessel internals in this industry is of vital importance. Profile Wire Screens are carefully designed to retain and thus safe-guard your costly catalyst/media from potential migration and economic loss. Furthermore, the screens will also be designed to ensure that process efficiency is maximised. CP Screens utilises the Profile Wire technology, which has successfully proven itself against the conventional mesh design.
CP Screens offers Profile Wire Screens in a number of different applications within this wide-ranging industry. We utilise the Profile Wire technology, which has successfully proven itself against the conventional mesh design. Some of the applications where profile wire screens can be found include, but not limited to the following:

- Corn Wet Milling
- Malting Processes
- Winery Processes
- Sugar Processes
- Brewing Processes

Principally in the corn starch market segment, CP Screens offers DSM Screens of very fine slot openings which are manufactured to the highest quality. Slot openings down to 50μm can be precisely manufactured and inspected using our unique in-house optical measurement system. Our expertise in fine slot screens also enables us to manufacture Candle Filter Screens for use in breweries. So for whatever application you have that requires Profile Wire Screens, feel free to contact us at CP Screens for a screening solution.
General Industrial

CP Screens offers Profile Wire Screens in a number of different applications within this wide-ranging industry family. We utilise the Profile Wire technology, which has successfully proven itself against the conventional mesh design. Some of the applications where profile wire screens can be found include, but not limited to the following:

- Pharmaceuticals; Wood;
- Pulp & Paper; Mining; Iron & Steel; Cement & Lime;
- Ceramics; and Environmental.

Our Profile Wire Screens serve a number of different purposes ranging from filtering and separation of impurities in presses in the paper production process to the separation of disparate solids using our vibrating screens in the steel industry. So for whatever application you have that requires Profile Wire Screens, feel free to contact us at CP Screens for a screening solution.
From the extraction of groundwater to the treatment of wastewater, CP Screens has a Profile Wire Screen that will fit the role. Our water well screens are made from robust designs that can cater for varying depths and gravel formation types. Given our flexible working culture and stock material, we can provide fast turnarounds of water well screens. Simply fill in the water well screen datasheet and we will get back to you promptly with our offer.

CP Screens also offers primary screening equipment in rivers, lakes, ponds and other water bodies. For instance, Profile Wire Screens have been commonly used to provide coarse-filtered water to food processing, desalination, petrochemical and refining plants. One of our primary screens includes the Passive Intake Screen, which employs a controlled slot opening velocity that will not be harmful to the surrounding flora and fauna. It also has the added value of being more economical than other mechanical-type screens that contain moving parts and significant civil works.

For the treatment of process water such as in ‘Ion Exchange’ and in the process of removing organic matter, CP Screens offers products including Header-Laterals Systems, Nozzles, Support Grids and Resin Traps. Again we size our Profile Wire Screens to recommended through-pipe and slot opening velocities to ensure higher efficiency and lower pressure drop. Sizing of the slot size is also critical to ensure that there is no media leakage. In any event, CP Screens recommends using a Resin Trap Screen positioned after the vessel/tank outlet nozzle to act as a ‘safeguard’ for your expensive media.

Each of our Profile Wire Screens is carefully designed from the specified design conditions including the volumetric flow rate, allowable pressure drop through the screen, media to be retained or filtered and minimum open area to list a few. Therefore it is very important to work closely with CP Screens during the design and engineering stage to ensure that all screen characteristics are accommodated.
Profile Wire Screen
Our Profile Wire Screens presents a cost-effective solution to our existing and new customers. We offer Profile Wire Screens in a number of different forms, sizes and material grades ranging from common grades of stainless steel (304, 316L and 321 SS) to more exotic nickel alloys (Hastelloy C-276, Incoloy 825 etc.).

Additionally all screens employ the advantages of a triangular-shaped profile wire that offers the following benefits over conventional wire mesh screens:

- Non-plugging characteristic
- Increased strength
- Continuous slot opening
- High open area
- Reduced catalyst abrasion

Profile Wires & Support Rods

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Quality

At CP Screens we take pride in intimately conforming and continuously improving our Quality Management System (QMS) which ultimately provides our customers with high quality products, service and sense of satisfaction. In order to achieve this goal, the effective implementations of our Quality Policy and Objectives are of the highest priority for all our employees.

Quality Policy

CP Screens Pte Ltd has developed with the objective to specialise in the design and manufacture of profile wire screen products used in an array of industries and is highly committed to supplying high quality products.

Satisfying our customer’s needs and to provide value that far exceeds expectations forms the foundation of the success of our organisation and of our customers. Customer satisfaction is accomplished by the following:

- The ownership and high performance of all our employees.
- Reaching a consensus on the requirements from our customers and suppliers.
- Conforming to our customer requirements by closely defining, executing and managing all our processes with the aim of manufacturing defect-free products.
- Continuous improvement of our Quality Management System to adjust to the forever changing needs of the market.
- Committed to the development and implementation of the latest technology to afford improved product quality and value to our customers
- Developing and training all our employees using the best practices and tools available while ensuring a safe, clean and enjoyable working environment.

Quality Objectives

To support the Quality Policy, the CPS Screens Management Team has identified the following Quality Objectives.

- To ensure that company activities comply with the Quality Manual and Quality Plan.
- To ensure customer’s expectations are satisfied.
- To run an effective operation that can continually improve its effectiveness.

These objectives will be measured with a set of supporting performance indicators relevant to the key functions.
Quality Control of Profile Wire

An accurate slot opening can only be achieved by using a very high quality profile wire. We take every step possible from start to finish to ensure our profile wires are produced to the highest quality achievable.

- Strand (continuous) annealing of wire versus batch annealing to ensure superior control on dimensions and hardness and to further enhance a consistent grain microstructure and the prevention of stress corrosion cracking (SCC);
- 100% measurement of the wire head width and depth via a laser micrometer;
- Testing and inspection to verify that the required hardness, metallurgy, tensile strength, yield strength, elongation and profile cross-section are all attained;
- Cleanliness of the wire to ensure consistent weld ability.

Inspection Method

The inspection of slot openings via gauges is a thing of the past. CP Screens further enhances the quality of our screens by including a more accurate, precise and careful inspection of all the slot openings on our screens via our specialised photo inspection device. Data is automatically relayed to a PC and the associated software will provide an ‘OK’ or ‘NOT OK’ result. The pre-determined slot opening criteria for a given application is set and our automatic inspection device will simply do the rest. This measurement tool has proven invaluable and has greatly assisted in the fine-tuning of our screen manufacturing process. And of course that is to produce the tightest standard deviation possible for all our screens.