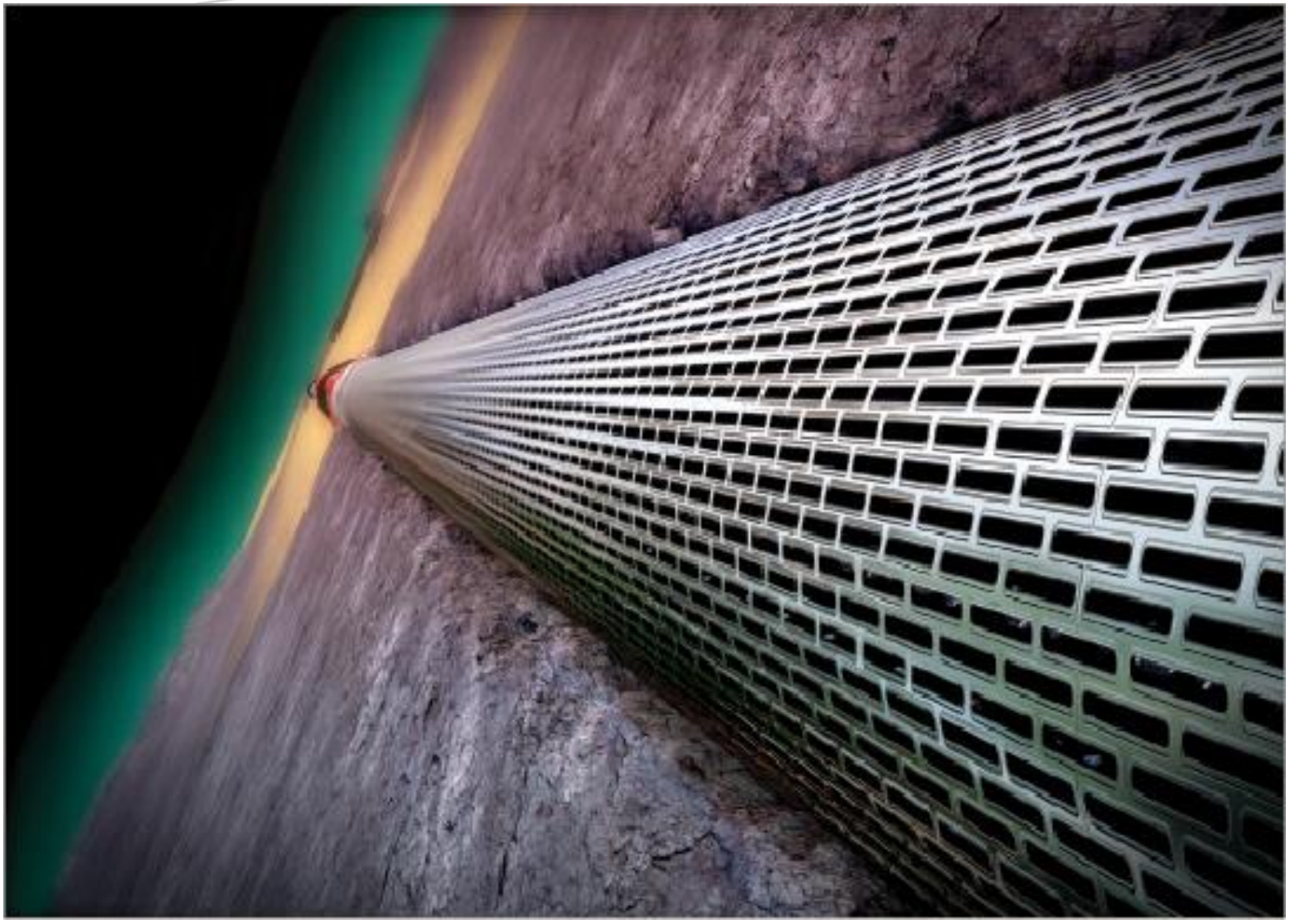

HAILONG ENERGY SERVICE LTD

Sand Control Screen Products

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Direct Wrap Screen

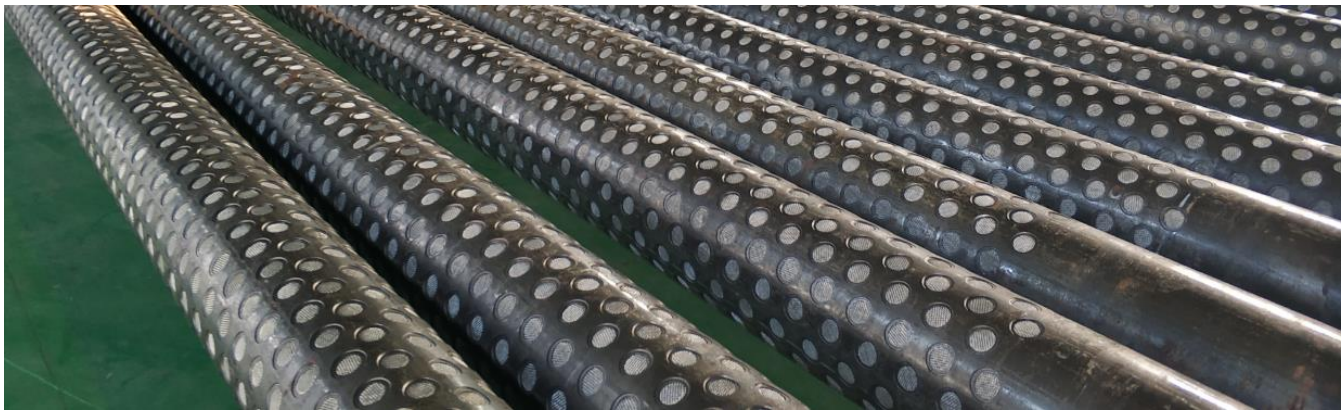
INTRODUCTION

Hailong Energy Service supplies direct-wire-wrapped screens are made with a wire jacket shrink-wrapped directly to the base pipe. Screen components are welded to each other, but there is no welding between the screen and the basepipe, enabling the screen and basepipe to act as a single unit and ensuring that the tension, compression, and torque ratings of the screen are nearly the same as those of the basepipe. Basepipe perforations are designed to optimize flow while retaining strength.

FEATURES:

- Robust design that minimizes risk of screen damage during when run in hole.
- Consistent, accurate slot size and a variety of wrap wire profile available.
- Suitable for run through high dog leg while keeps sand control property.
- Can be installed with conventional casing handling equipment.

Disk Screen



INTRODUCTION

The Disk Screen utilize single wall seamless pipe or tubing and casing as screen base pipe. There are evenly distributed perforated holes onto the base pipe into which filter cartridges are installed through a proprietary method which has been successfully tested and proved to work in most challenging down hole environment. The whole screen joint is flush.

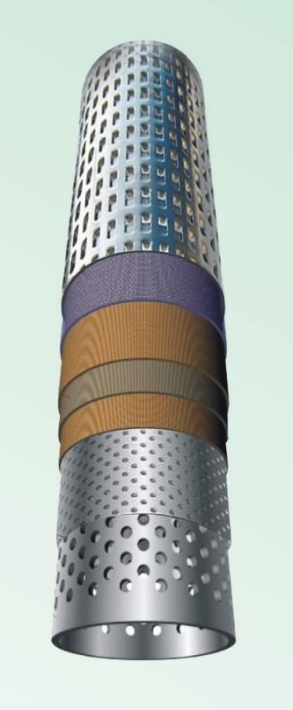
The disks are 0.75in diameter 316L stainless steel fusion-bonded mesh laminates which provide very good erosion and corrosion resistance.

FEATURES:

- Its structure is similar to casing or tubing, with no welding, light weight and high strength.
- The filter cartridges are evenly installed onto the base pipe, reliably protecting from damage during RIH.
- Due to its evenly distributed filter holes structure, there is no need to leave long blank space.
- Lighter weight, easy RIH, favorable sand-control effect can be achieved during its performance in vertical well and directional well, particularly in high-angled well, horizontal well, side-tracked well and multilateral well.
- Low flow friction, high permeability, low pressure loss and high anti-erosion.
- Uniformly or non-uniformly distributed filter cartridges onto the base pipe help to enhance the whole production at horizontal section.
- Reasonable price, ensured lead time and low development cost
- It has excellent tensile, compressive, torsional, collapse strength up to a large OFA.

PMC Premium Screen

INTRODUCTION



PMC® premium screen mainly consists of perforated base pipe and filter jacket. The jacket consists of inner shroud, inner drainage mesh, inner mesh media, middle drainage mesh, outer mesh media as well as external stainless steel shroud.

Internal drainage mesh wrapped on the inner shroud, which provides even distribution of flow, it also support filter media.

Inner/outer mesh media is designed to meet the requirements of sand control for different sand diameters.

Middle drainage mesh is designed to separate two layers of filter media, ensuring the accuracy of filtering.

Stainless steel shroud protects media layers and drainage mesh when the screen is to run into well.

FEATURES:

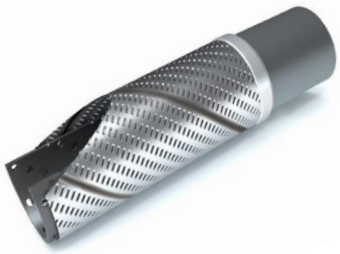
- Multi-layer 316L stainless steel filter media provides robust filtration membrane.
- High permeability, large overall flow area to handle high production rate.
- Small outer diameter, light weight, easy to push along the long horizontal section.
- The field-proven vector shroud design provides flow diversion during production which increases the screens longevity by minimizing erosional effects from formation material
- PMC screen resists plugging and erosion and ensures a long productive life.
- Simple construction lower the manufacture expense, which make it a very cost effective product.

SPECIFICATIONS:

API Base pipe		Screen ID in	Screen OD in	Screen Weight 1b/ft	Maximum Tensile Load （1bs）	Maximum Torsional Load （ft-1b）
Size(in)	Weight (lb/ft)					
4-1/2	12.6	3.958	5.354	16.7	288428	12000
5	15.0	4.409	5.866	20.0	349865	16200
5-1/2	17	4.894	6.378	23.3	396831	20500
6-5/8	24	5.921	7.480	30.0	554786	34900
7	26	6.275	7.874	33.3	603752	44880

Other size available, please contact for details.

PPS Screen Jacket



FEATURES:

Accurately controlled width： The width of the precise punched slot scree is accurately controlled within 0.20~1.00mm and the accuracy is ±0.05mm.

Excellent anti-corrosion ability： PPS screen jacket is made of high quality stainless steel which resist corrosion from acid alkali and salt, and can meet the special requirements of the wells containing H2S andCO2.

Excellent body strength and anti-deformation ability： The PPS screen has excellent body strength and anti-deformation ability because of its structure. The filtration jacket is supported by the base pipe, and the strength of the perforated pipe is only 2-3% reduced compared with the API casing or tubing.

High density slot, low flow resistance： The flow resistance is lower because the flow area of the PPS screen is 2~3 times higher than slotted liner, which make it the ideal screen for high rate production.

SPECIFICATIONS:

End ring OD: 194mm +/-1mm, End ring ID: 180.6mm +/-1mm. Length: 45mm +/-0.5mm

Shroud Outer Diameter: 190mm Tolerance: +/-1mm.

Slot Opening: (200, 300, 400 microns) Tolerance: 100% of slots +/-0.05mm

Slot Length: 16.5mm +/-0.5mm

Sheet Metal Thickness: 1.9mm +/-0.1mm.

Material; 304LSS, 316LSS

Shroud Overall Length: 9.0m, 4.5m Tolerance: +/- 10mm

Open flow area: 3.30% for 200 Microns, 4.95% for 300microns, 6.59% for 400microns.

Note: Above specification is for 7in, please contact for other size

Prepack Screen

INTRODUCTION

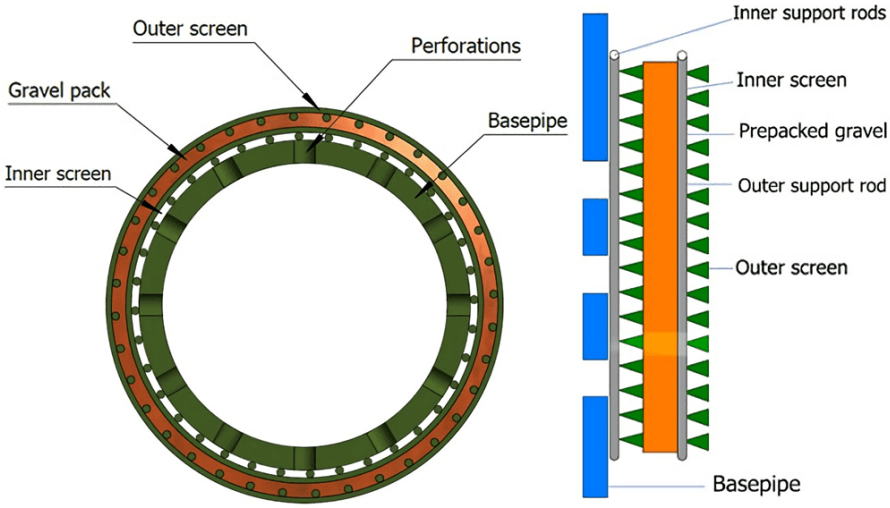
Prepack screen is considered as one of the premium screen family. Gravel, which may be resin coated, is placed in the annulus between the inner and outer screen jackets. The gravel is selected as per client sand sample analysis and is packed tightly using a vibration packing system that ensures proper compactness. It can be used as an alternative for gravel pack application where a gravel pack is economically undesirable or not feasible.

The prepacked screens help ensure sand control integrity by providing extra protection against erosional forces and voids during production.

The standard inner and outer jackets are normally wire wrapped screen, however other jackets like precision pouched jackets are available.

FEATURES:

- High sand retention efficiency
- Can be used as standalone screen.
- High porosity, Large open flow area.
- Good erosion protection
- Simple, rapid installation
- Customization available to meet any well application



Slotted liner

INTRODUCTION

Slotted liner is a robust and effective device for sand control in the horizontal completion wells of SAGD and other thermal heavy oil recovery. Its excellent properties in withstanding installation loads and operation loads make it the premier choice for SAGD.

Slotted liner have two categories: Laser cutting slotted liner, Blade cutting slotted line.

Slotted liner geometry consists of slot length, slot width, slot density and slot distribution. All these parameters can be customized to achieve the required open area. For example, multiple staggered pattern significantly increases the open area compared with single cut pattern.

FEATURES:

- Cost effective sand control solution
- Flush OD
- Customization of slot pattern.