

POLYURETHANE SCREEN MEDIA



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Polyurethane Screen Media

Polyurethane product is part of Polymer Membrane product group, and it has very competitive mechanical property compared rubber and/or plastics. Its hardness ranges from A10-D80 (industry standard). On average, our urethane screen lasts over 30% longer than conventional woven wire panels.

In the business of manufacturing, Resources Unity's focus has been and is always on material and product design improvement; apart from the capacity to produce fine mesh, high open area urethane screen media to fine material separation. The business philosophy is to keep finding better value solution for customers.

Screen opening areas can reach as fine as 50 microns and ranges from 35 to 45 percent, application can accommodate most wet/dry processing environment.

Resources Unity is able to supply a wide range of screen media with the capacity of re-design and/or custom make product pattern to optimise throughput as well as product life.

Heavy Duty Screen



FEATURES:

- High wear-resistant material
- Long product life 3-10 times higher than traditional metal mesh
- High opening rate and efficiency
- Reduce noise and vibration

Polyurethane Screen Media

Polyurethane Dewatering Screen

Dewatering Screens are designed to produce a consistent drip-free product, which is typically 10 percent drier than a Fine Material Screw Washer. Materials such as sand, gravel, crushed aggregates, frac sand, industrial sands, mineral sands, hard rock, precious metals, coal, iron ore, salt and other granular materials can be processed through a Dewatering Screen.

To dewater material effectively, slurry is fed onto a steep, downward inclined screen surface at the feed end of the Dewatering Screen to achieve rapid drainage. A pool of water begins to form in the valley as material builds up on the slightly upward inclined surface. Counter rotating motors create a linear motion, driving solids uphill, while liquid drains through the screen media. The uphill slope of the screen, along with a discharge weir, creates a deep bed that acts as a filter medium, allowing retention of material much finer than the screen openings. Where cleaner materials are required, cross dams and sprays can be included to assist with the washing process, liberating fines that pass through the media.

OUR ADVANCEMENT:

Resources Unity enhanced the original concept with a redesigned structural frame under the deck to include cross beams that make the machine easier to maintain. This design is suspended on rubber buffers rather than springs for improved wet performance. Resources Unity also custom engineers screen media, which is produced in-house, for heavy-duty applications.



Polyurethane Screen Media

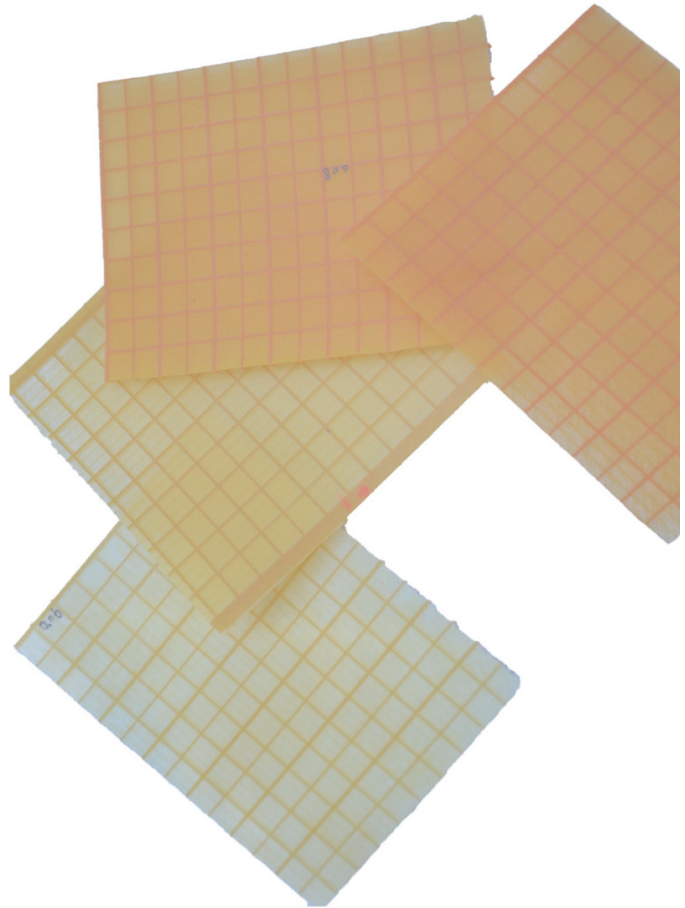
High Frequency - Ultra Fine

BENEFITS:

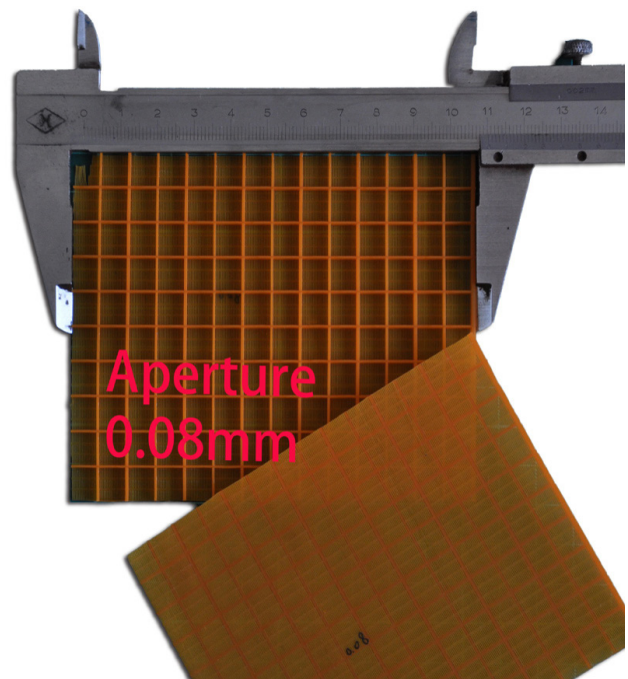
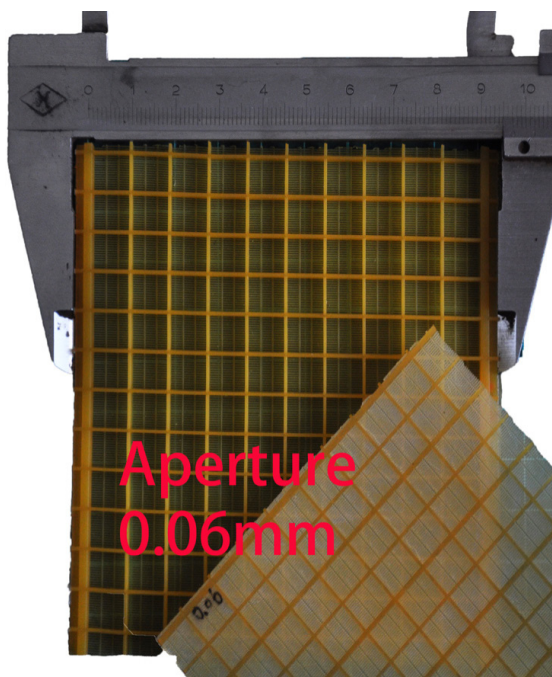
Product is computer generated and designed, and production process is controlled by computerised system to ensure all spares free of issue from installation.

Effective design function for productivity and/or product life in according to customer's needs to improve overall value.

Custom make products are available upon request.



High frequency fine screens have long product life providing customers with confidence and maximum operational efficiency.



Conveyor Belt Scraper/Cleaner

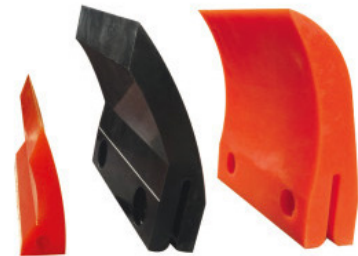
Typically, conveyor belt cleaning system is one or more scrapers mounted at or near the discharge (head) pulley to remove residual fines.

Engineered belt scraper system consists of a structural support (mainframe), cleaning element (blade), and tensioner. Simple and fast blade replacement will reduce maintenance and labour requirements.

The conveyor belt cleaning system can also come with: Ceramic or Tungsten Blades with Boron Carbide insert for longer life.

Multi-blade construction allows individual blade to deflect or minor obstructions and adapt to belt profile.

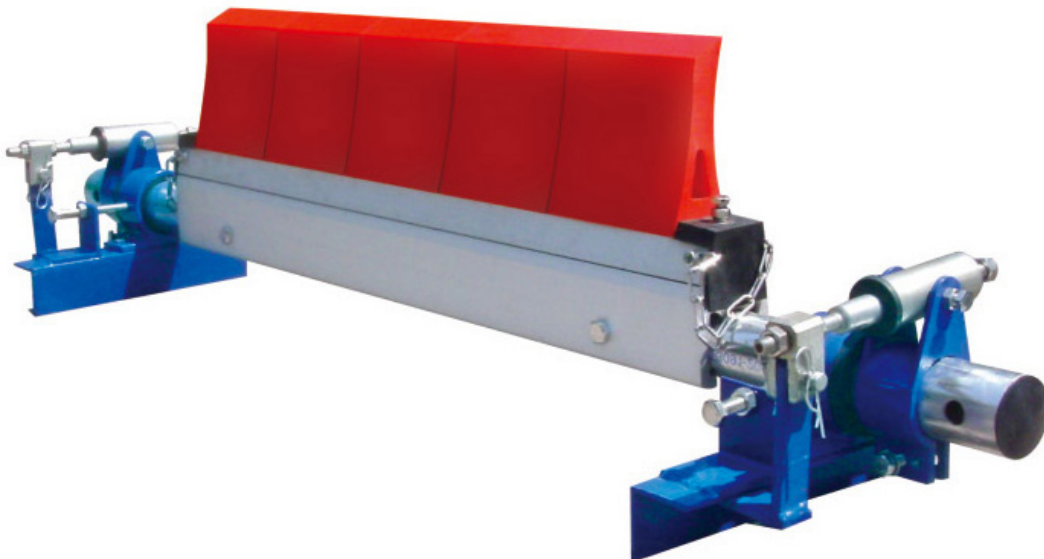
Chute side mountings are designed for easy adjustment.



Belt Cleaner Blade (H-Duty)



Scraper Blade
(Stainless Steel Seat)



Belt Cleaner Blade (Heavy Duty)



Belt Cleaner Blade (Standard)



Belt Cleaner Blade (Thin)

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Stainless Steel Wire-woven Mesh

Resources Unity production custom-make by drawings and/or specifications by request. Minimum apertures reach down to 0.043mm with existing making technology in place.



Polyurethane Panel

Our polyurethane panel is made of high end raw materials with the most advanced formula. The casted panel features anti-blocking, wear resistance and easy installation. Our polyurethane panels are available in several classifications and dimensions. Custom made enquiries are welcome.

