**Mining & Industrial Screen**

PIPAMAS stationary and vibratory screens are manufactured in a variety of forms and measurements, as required by the copper, coal, cement, iron ore, chemical, petrochemical and food industries.

Our engineers can visit your mine or plant to consult with our staff ass to your particular requirements in order to anticipate and prevent problems once you have entered full scale production.

By detailed studies of the field conditions, our engineers can recommend a product designed to meet your exact requirements.

We make flat, stationary, vibratory, curved and round screens with a frame construction to serve the mining industry and suit all the related installation (see Fig.27-34). The majority of PIPAMAS screens are made of stainless AISI.304, however for specific applications, we can recommend and construct high quality alloy screens.

Almost all minerals mined have to undergo many wet process cycles, requiring the application of screens. To select the most efficient type of screen unit design, we must understand the abrasive quality of the ore to be handled and its tendency to splinter during crushing, if such a sample is available.

It is also necessary for us to be aware of the make, measurements and model of the machine in which the screen panels are to be installed, as well as the rate and size of feed and the expected tonnage throughout the process.

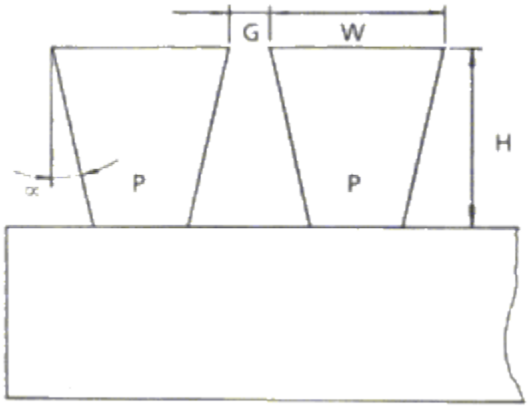
Our engineers can then manufacture screens to fit in your equipment and ensure that performance requirements are met.

Our screen panels are manufactured to a rigid construction to avoid the development of secondary vibrations (flexing) during operations, which cause premature failure at the screen weld surface due to wear and tear.

To obtain the desired tonnage throughput, without blinding or clogging, the screen panel must have sufficient open areas.

Our screen panel is fully bending resistant through the use of a fin style support rod for added strength. The size of the recommended support rod, center spacing and quality used will be dependent on the final application and panel width. The wedge best suited for your installation, will be determined by our technicians by balancing the open area needed to yield the required tonnage, dimension : 'H' (see Fig.35), and wear life, dimension : 'W'. The by considering the abrasive factor of the material being screened, and its tendency to clog we can custom-fabricate screen panel for your installation.

Figure 35 : *Wire and Support Fin as used for Mining Screens.*




DESCRIPTION :
G - Slot Opening
P - Profile wire
W - Profile wire Head Width
H - Profile wire Depth
α - Profile wire Relief Angle

In order to guarantee that our screen panels have a longer wear life, while also maintaining the specified slot dimensions as the panel progressively wear down its dimensions, most of the profile wires selected for special applications have a larger cross-section and a smaller relief angle.

Since your feed material carries large particles, Skid Bars must be arranged on the front line panels of the screen deck to absorb impact and prevent premature and uneven wear of the screens.

Stationary mining screens tend to be more flexible and of simpler construction. Open areas for de watering and wear life are the main design considerations.

PIPAMAS mining screens are :
- Accurately made.
- Suitable for rough handling.
- Longer lasting in terms of work lifetime.
- Highly cost effective based on price per ton produced.

We manufacture industrial screens of various types and sizes :
- Vibratory Centrifuge Baskets.
- Vibratory Flat Fin Panels.
- Static Sieve Bends.
- Fine & Wide Slit Screens.
- Fine Slit & Narrower Profiles.
- Pump Intake Strainers.
- And a wide range of associated products.

Panels and screen surfaces can be custom constructed to any required size and can be supplied in a form which meets your industry requirements. The screen surfaces can be made with a variety of end frames: one, two or four sided steel frames of flat angle bar for mounting.

Our engineers can visit your installation, plant or mine site and discuss with your engineering staff any problems you have with your current equipment and suggest solution, in the form of a proposal particularly for our operational requirements to :
- Acquire the screening capacity required.
- Ensure minimum cost per ton produced.

- Design a screen construction to reach a long wear life.

PT Pipa Mas Putih has the capacity to construct a wide variety of mining and industrial screen surfaces for the coal, copper, manganese, iron ore, tin, aluminum, sand & gravel quarries, cement, food processing, water intake municipalities and many other areas on request.

**Figure 27**

Type : Vibratory Centrifuge Basket SS Wedge Wire.
Range : 0.25" and above.
Profile : As per Specification.
Material : Stainless Steel as per AISI 304.
Application : Paper, coal and chemical industries for drying, size separation and filtering.

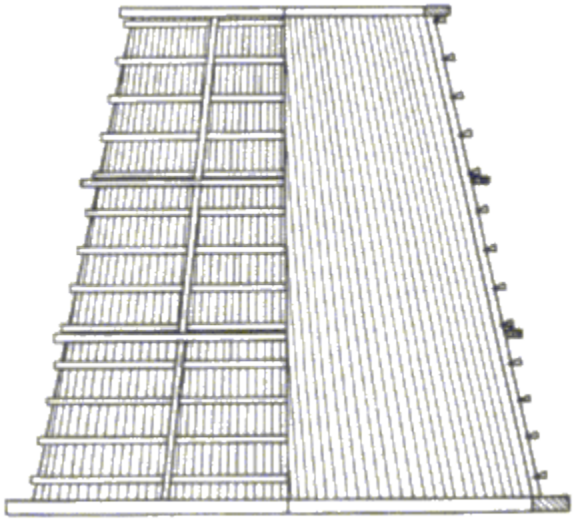


**Figure 28**

Type : Vibratory Flat Fin Panel SS 304 Wedge Wire.
Range : Panel length of 48" with varying width, 19 1/8 ", 23 1/8" and 27 1/8" std with gauge openings to suit the mining operation.
Application : For mining operation.

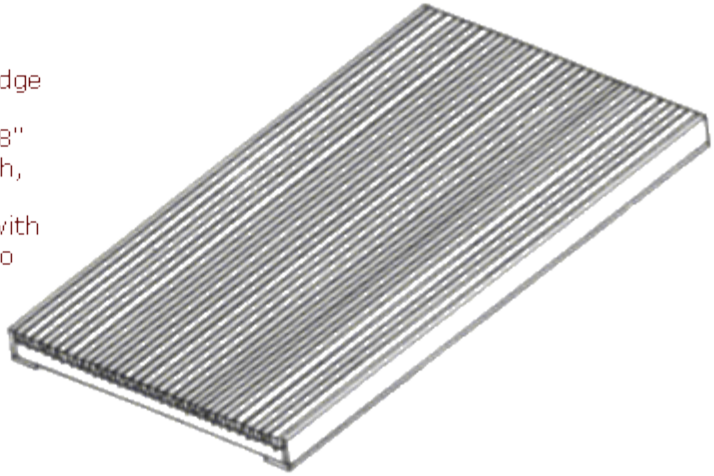


**Figure 29**

Type : Static Sieve bend SS 304 Wedge Wire.
Profile : As per Specifications.
Application : Coal dewatering, pulp, sugar, fruits, cannery, meat and fish kneading, chemical industries, etc.

**Figure 30**

Type : Fine & Wide Slit Screens.
Slit Width : 0.05 mm and above.
Profile : As per Specifications.
Material : Stainless Steel as per AISI 304
Application : Coal, mining & quarrying, sugar, iron ore beneficiation and pelletising, fertilizers & chemicals, ceramic & refractory industries, etc., for de watering, separating, filtering, drying and sizing.

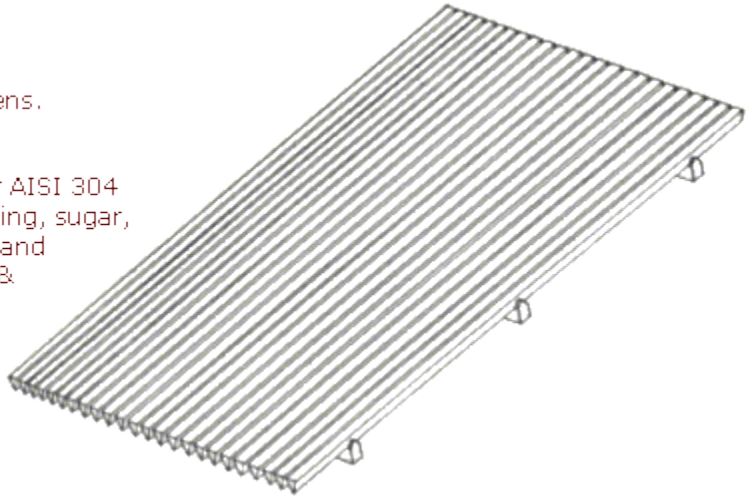


**Figure 31**

Type : Fine & Wide Slit Screens.
Slit Width : 0.014" and above.
Profile : As per Specifications.
Material : Stainless Steel as per AISI 304
Application : Coal, mining & quarrying, sugar, iron ore pelletising, fertilizers & chemicals, ceramic & refractory industries, etc., for de watering, separating, filtering, drying and sizing.

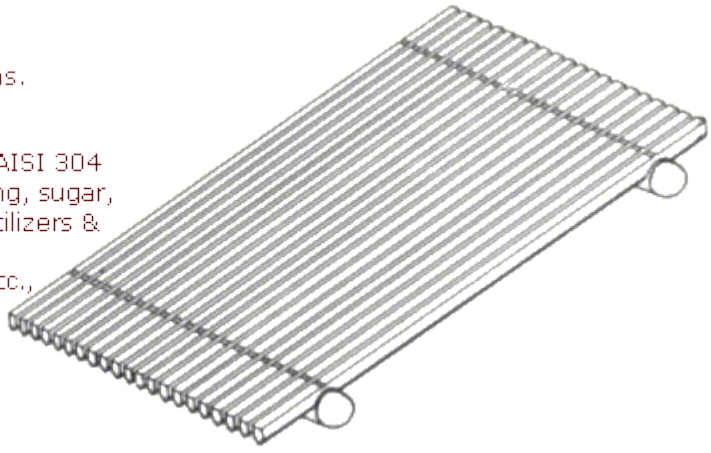


**Figure 32**

Type : Fine Slit & Narrower Profiles.
Slit Width : 50 microns and above.
Profile : As per Specifications.
Material : Stainless Steel as per AISI 304 Wedge Wire.
Application : Sugar, paper, fertilizers & chemical, Mineral benefication, strach, etc., for screening, filtering, grading, separative, etc.

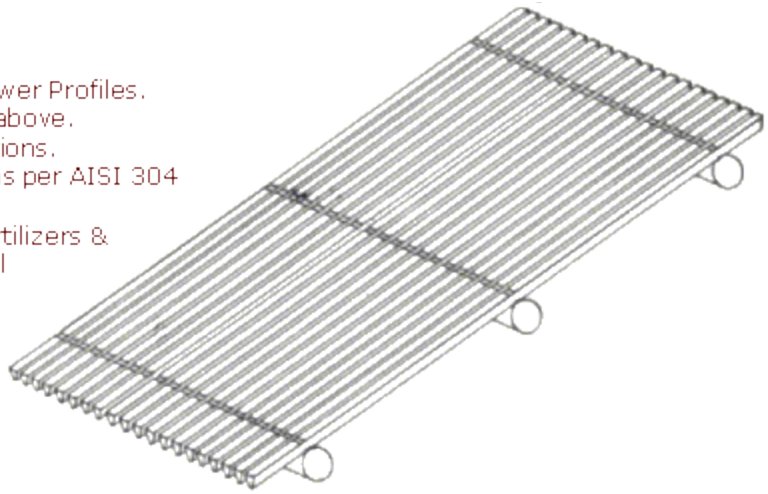


**Figure 33**

Type : Fine Slits & Narrower Profiles.
Slit Width : 50 microes and above.
Profile : As per Specifications.
Material : Stainless Steel as per AISI 304 Wedge Wire.
Application : Sugar, paper, fertilizers & chemical, mineral benefication, strach, etc., for screening, filtering, grading, separative, etc.

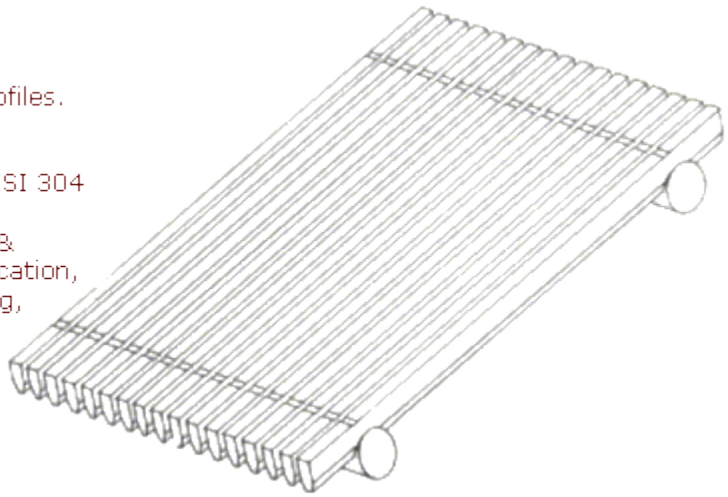


**Figure 34**

Type : Pump Intake Strainer
Material : Stainless Steel as per AISI 304 Wedge Wire.
Application : Water treatment, chemical plants, etc.