

Sheet Metal Fabricator Gets Longer Screen Life & More Durable Mounting

CUSTOMER CHALLENGE:

Obtain a series of screens for their 48 inch round deck screener that will create good screening performance as well as last more than 4-5 weeks in continuous operation. Existing screens were becoming blinded with the blasting media and preventing the fines from falling through the screen mesh resulting in the fines (out of specification) being included with the on spec blast media. In addition to the screen blinding, the mesh was failing around the outer ring and with the first course mesh screen the failure was occurring in the center of the screen.



ABOUT THIS PROJECT:

CUSTOMER: Sulzer / Surface Preparation

ADDRESS: Pasadena, TX

EQUIPMENT VENDOR: Sweco

INDUSTRY: Sheet Metal Fabricator

PRODUCT: Blast Media

VENDOR SOLUTION:

Upon review of the existing screening operation one of the first areas to be addressed was the screen life. Regarding the top 60 mesh screen and second 200 mesh screens, we created a underlayment of a courser mesh to support the screening mesh to increase the screen life. To prevent the screen blinding, we incorporated 250 nylon sliders with a support bottom mesh withing the screen to hit the bottom of the screen to release any of the blast media being lodged in the screen openings. To provide a longer screen life with the top 60 mesh screen we increases the diameter of the center support so that the blast media is fed onto the stainless steel solid ring rather that directly onto the screen mesh. A second modification done was to include a layer of silicone around the outer diameter of the screen mesh so that the blast media was not wearing out the outer area where the screen is mounted to the ring. All of these modifications were made into one 60 mesh sandwich and one 200 mesh sandwich screen.

Customer Comments:

The set of screens were in operation for 7 months verses 4-5 weeks without failure. The customer is very happy to order these screens twice a year rather than monthly. In addition there run times are greatly increased with the new screens and Maintenance/Operations can focus their time at other locations in the plant.