



PHOSPHATE ORE

Derrick's two-stage dry screening system design is giving the one of the world's major phosphate producers a 97.7% overall screening efficiency.

With the initial installation of conventional screening machines, this plant was not able to have a continuous operation without blinding, even at a 2.00 mm separation. After installing Derrick's unique "Compound Angle" single deck screening machines operating at the primary stage, a 35 mesh US (500 μ m)/12 mesh US (1700 μ m) size separation was achieved.

The design of the Derrick Compound Angle machine permits two (2) size separations on a single screening surface. Fines are removed initially at the feed end, and the coarse separation is made on the discharge end. The first three screen sections are equipped with a fine cloth and effectively perform the 35 mesh sizing portion of the application. The fourth screen section is equipped with a 1700 mm cloth. The product is collected through these screen panels and sent to Derrick's multiple angle screening machines at the secondary stage to screen at 35 mesh.

Using Derrick's "high speed, low amplitude" screening technology along with patented "floating backing wire" panels, screen bridging/blinding has been eliminated.



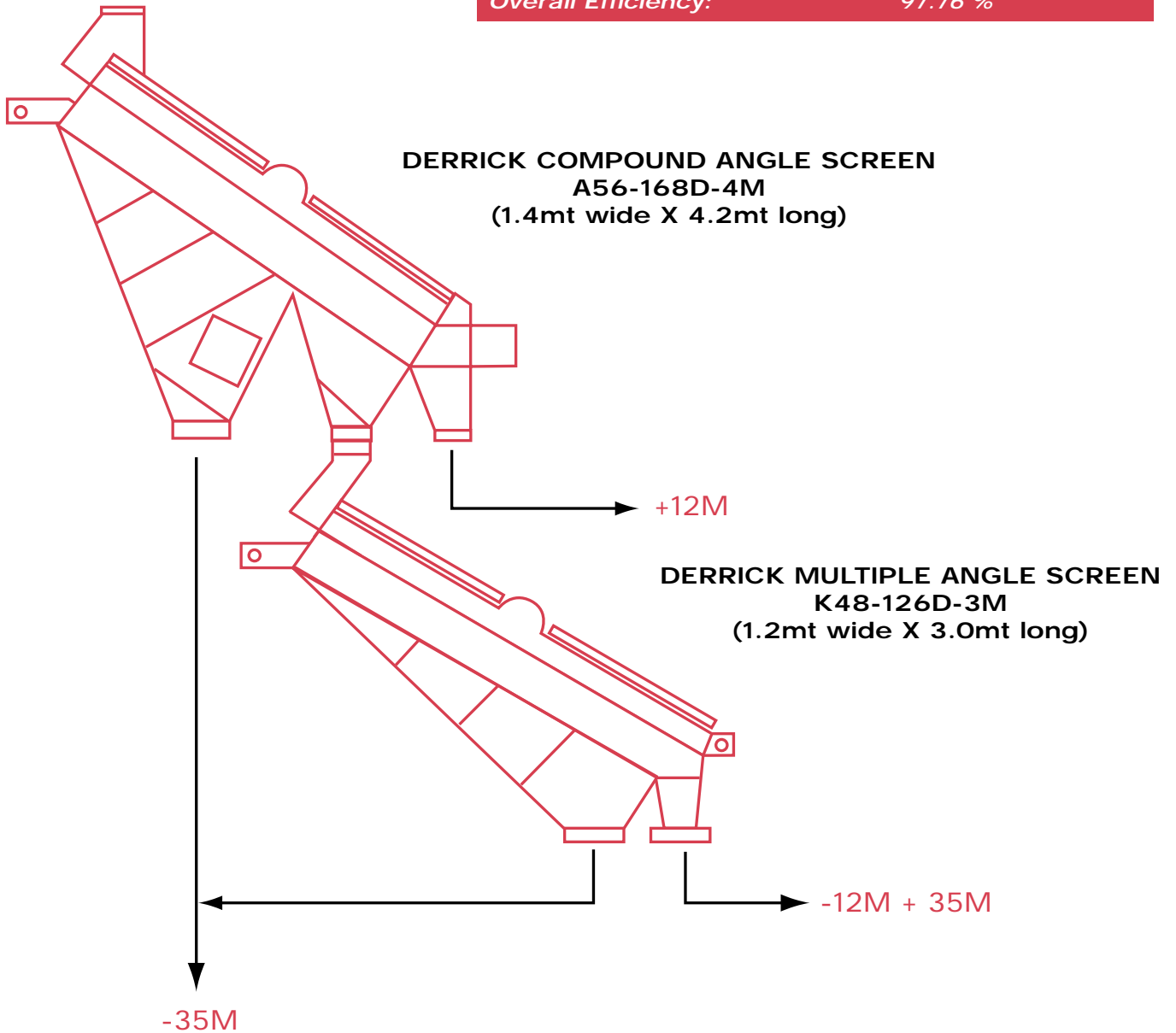
Derrick A56-168D-4M producing -35 mesh phosphate product.



Derrick Floating Backing Wire

SPECIFICATIONS

<i>Application:</i>	<i>Phosphate Ore (dry)</i>
<i>Feed Rate:</i>	<i>180 metric ton/hour</i>
<i>Number of Production Lines:</i>	<i>3</i>
<i>Undersize Efficiency:</i>	<i>99.61 %</i>
<i>Oversize Efficiency:</i>	<i>83.23 %</i>
<i>Overall Efficiency:</i>	<i>97.76 %</i>



Serving all our customers worldwide: www.derrickcorp.com
590 Duke Road • Buffalo, New York 14225
Phone: (716) 683-9010 • Fax: (716) 683-4991