



HIGH SHEAR SCREENER

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Derrick Corporation wet screening machines include a specialized unit for processing light, flaky, hard to convey solids. The Derrick Model 48-120W-4M High Shear Screener is a custom designed, open single-deck machine that can be operated in both non-hazardous and hazardous environments. This machine is typically used in wet sizing applications as fine as 325 mesh (45 microns) using Derrick Polyweb® urethane screens for kaolin clay, mica and fly ash.



FEATURES & BENEFITS

1. Health, Safety & Environment (HSE)

- Low sound production
- Easy screen inspection, removal and installation
- Light-weight screen panels for easy installation

2. Machine Design

- 304 Stainless steel construction option
- 37.5 degree machine angle with screen panel sections set at multiple downhill angles promoting thin, uniform slurry layer for positive conveyance of light and plate-like particles
- Wash water spray bar system
- Abrasion resistant bonded rubber lining option for feeder and discharge hoppers
- Abrasion resistant urethane exterior coating option for vibrating screen frame and discharge hopper lining
- Open design allows visual inspection of screen panels

3. Traditional Convex Screen Bed

- Convex crown promotes consistent screen panel tension, increases screen panel life
- Perpendicular-to-flow screen panel tensioning allows for use of Derrick Polyweb urethane and traditional wire screen panels
- Rubber float mounts effectively isolate support frame from vibration of screen frame
- Rapid change draw bolt/draw bar assemblies provides fast and easy screen panel changes
- Derrick Polyweb urethane screens as fine as 325 mesh (45 microns) and traditional wire screens produce efficient fines removal from 40 mesh (425 microns) to 400 mesh (38 microns)

4. Derrick Integrated Vibratory Motor

- Zero maintenance
- E3 vibratory motor promotes positive conveyance of oversize particles
- Powerful, quiet and low energy consumption
- Greased-for-life bearings

WEIGHTS & DIMENSIONS

EQUIPMENT		DIMENSIONS		
Model	Width in (mm)	Length in (mm)	Height in (mm)	Weight lbs (kg)
48-120W-4M	64-3/4 (1645)	120-1/2 (3061)	89-1/16 (2262)	5350 (2426)

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Our pioneering spirit is best demonstrated by our long-term commitment to **Continuous Innovation** which drives manufacturing of our **Leading-Edge Solutions**. Clients partner with us to overcome their most difficult fine-separation challenges and we deliver with our team of **World-Class Technologists**, many of whom have been with us for well over two decades. Our vertically integrated approach ensures product dependability and reinforces our **Quality Commitment**.

We are a **Global Family**® focused on **Pioneering Technology**®.



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