



# 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)
<b>48-120W-4M</b>	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**<sup>®</sup> focused on **Pioneering Technology**<sup>®</sup>.



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