e parators veyoraccessories bberscreens

FB Classifier



engineered pro

cyclo materials han hose



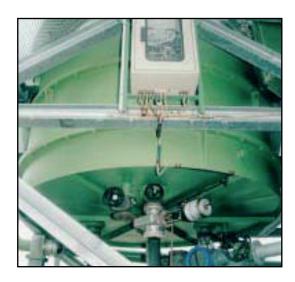




es rubb







The Linatex FB Classifier is revolutionary new approach to hydraulic classification of particles according to size or density. Using modifications of the world renowned Linatex T-Classifier™ control system, the FB Classifier reliable extracts light particles from a slurry at high efficiency, while misplacing a minimum of heavy particles to the overflow.

Benefits

• Removal of deleterious Material from Sand:

• Lignite • Coal

Wood
 Plastic / Paper

Clay / SiltMica

- Coal / Ash separations.
 - Removal of silica from denser minerals (iron ore, heavy beachsand minerals, etc.).
 - Extremely efficient rinsing of soluble or colloidal species from granular particles by virtue of counter-current plug flow.
 - Direct bed measurement means more accurate separation.
 - Multiple discharge vales yield even draw down of bed without valve blockages.
 - Diffuser plate water distribution system results in even flow at minimal flow rates.
 - No moving parts are exposed to slurry so there is little maintenance and long service life.
 - Low Headroom design results in low installation costs.

Principles of Operation



Slurry enters the FB through a central feed well (1) which uniformly distributes solids to a settling chamber (2).

A controlled-rated flow of clean water is injected to a plenum location under the settling chamber (3).

The clean water permeates a membrane (4) and flows upward through the settling chamber, discharging over the overflow weir (5).

The interaction of the rising current and the settling solids creates a fluidized bed which inhibits the settling of fine-size or low density material while allowing the heavier particles to pass easily to the bottom of the chamber.

This process is described as hindered settling. A sensor (6) located near the top of the zone of fluidized solids monitors the specific gravity of the slurry and causes multiple discharge valves

(7) to open when a set point is reached.

Solids are quickly discharged from the Classifier in frequent, discrete pulses. The on / off nature of the discharge avoids situations which cause valve blockages or bed channeling behaviour (rat-holing) in other Classifiers.

Furthermore, the changing dynamics of the fluidized bed enhance stratification of materials of differing specific gravities.

The fine or low specific gravity solids which overflow the weir are typically directed to a densifying hydrocyclone, sieve bend or dewatering screen.

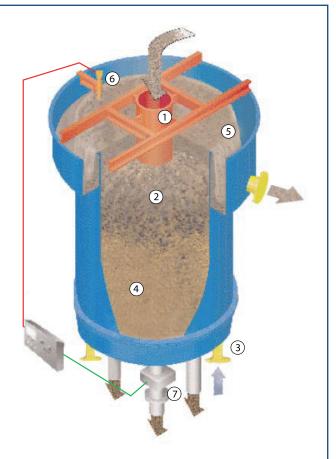
The high density or coarse solids which discharge from the underflow may be stockpiled, further dewatered, conveyed or gravity fed to the next process stage.

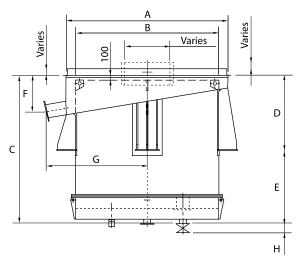
Dimensions (mm)

Diameter (m)									
	Α	В	C	D	Е	F	G	Н	
1.2	1806	1200	2623	900	1723	387	1058	305	
1.8	2160	1835	2846	1075	1391	578	1225	305	
2.4	3425	2400	3072	1500	1572	835	2000	305	
3.0	3874	3050	3091	1590	1670	1012	2200	305	
4.0	4524	4000	3658	2366	1292	666	2490	305	

Total Masses (kg) Based on Live Load at 1800kg/m³, Sanded at 2000kg/m³

Diameter (m)	Empty	Live Load	Fully Sanded	
1.2	1,000	6,300	7,800	
1.8	2,400	14,000	16,500	
2.4	3,500	27,000	34,500	
3.0	5,200	45,000	54,000	
4.0	10,000	90,000	105,000	





Loading Capacities - based on SG 2.7 Material

Diameter	Lignite / Charcoal Removal from -250µm Sand	Size Classification at ~500µm		
r (m)	Typical Feed Rate (t/h)*	Typical Feed Rate (t/h)*		
1.2	8 -10	14 - 22		
1.8	20 - 24	30 - 50		
2.4	35 - 42	70 - 90		
3.0	56 - 68	110 - 150		
4.0	95 - 115	190 - 260		

^{*}Depending on the application and the required sharpness of separation, other loading rates may apply.

Linatex Asia

MALAYSIA

Commercial Division – ASIA 6 Mile Jalan Ipoh, 68100 Batu Caves, Selayang, Selangor, Darul Ehsan, Malaysia

Ph: +60 3 6251 2195 Fax: +60 3 6255 2173 CHINA

Room 3101 New Town Centre No 83 Loushanguan Road Shanghai 200336 People's Republic of China

Ph: +1 480 733 2391 Fax: +1 480 733 2918

Linatex North America

TENNESSEE - HEAD OFFICE 1550 Airport Road, Gallatin, Tennessee 370666 USA

Phone: +1 615 230 2100 Fax: +1 615 230 2109 **CANADA** 372 Noel

Spet Iles, Quebec G4R1L7 Phone: +418 968 2822 Fax: +418 962 9221

Linatex South America

Linatex Africa

Linatex Europe

CHILE

Santa Catalina de Chena 850 Parque Industrial Estrella Del Sur San Bernardo, Santiago, Chile Phone: +56 2 447 9400

Fax: +56 2 447 9368

SOUTH AFRICA

5 Fuchs Street, Alrode 1451, Gauteng, South Africa Phone: +27 11 617 4800

Fax: +27 11 908 1644 Head Office Fax: +27 11 908 2130 Process Equip.

Fax: +27 11 908 5518 Rubber/Pumps

UNITED KINGDOM

Wilkinson House, Blackbushe Park, Galway Road, Yateley

Hampshire GU46 6GE, England Phone: +44 1252 743000 Fax: +44 1252 743046

Linatex Australia

MELBOURNE - HEAD OFFICE Suite 7, 61-63 Camberwell Road Hawthorn East, VIC 3123

Phone: +61 3 9834 7400 Fax: +61 3 9834 7405 **DANDENONG**

23 Quality Drive Dandenong, VIC 3175

Phone: +61 3 9706 6568 Fax: +61 3 9706 6575 **TOWNSVILLE**

Lot 3,694 Ingham Road Mt. St. John, QLD 4814

Phone: +61 7 4758 6100 Fax: +61 7 4758 6111 **MT ISA**

26 Richardson Road Mt Isa, QLD 4825

Phone: +61 7 4743 2805 Fax: +61 7 4743 7209

DARWIN

2/15 Graffin Crescent Winnellie, NT 0820

Phone: +61 8 8984 4931 Fax: +61 8 8984 3032 **PERTH**

Fax:

30-36 Wittenberg Drive Canning Vale, WA 6155 Phone: +61 8 9256 8300

+61 8 9265 8305

KALGOORLIE 216 Dugan Street

Kalgoorlie, WA 6430 Phone: +61 8 9021 0266 Fax: +61 8 9021 0277



All product design, dimensional and general information contained in this catalogue is subject to change without notice. Linatex strongly recommend consultation with Linatex staff before purchase to ensure the correct equipment is chosen. All process equipment should be used for its intended designed purpose only. Failure to follow procedures for selection, installation, care, maintenance, storage and handling may result in premature failure and may result in damage to property and/or serious injury. Linatex standard terms and conditions of sale will apply.