



APPLICATION - CLAY

MATERIAL CHARACTERISTICS

Two of the most common types of clay are Bentonite and Kaolin. Bentonite is used in metal casting, oil well drilling mud, filtering media, pet litter and as a filler element for ceramics, rubber, paper and refractories for the absorption of fluids. Kaolin has a high fusion point and is used as a filler and coating for paper, refractories, ceramics, cements, fertilizer and insecticide. The bulk density of clay is 40 to 82 PCF (650 to 1300 kg/m3).

APPLICATION DATA

In the grinding circuit clay is usually scalped on openings ranging from 3/8" to 20 mesh (10 to 0.85 mm) with capacities as high as 3,400 pph/sqft (17 tph/mz). Subsequent gradings are normally made between 4 mesh and 60 mesh (4,750 and 250 microns) and sometimes as fine as 100 mesh (150 micron) with a wide range of capacities.

ROTEX ADVANTAGES

ROTEX Screeners have a nearly flat gyratory reciprocating motion making sharp separations at higher feed rates. Some clay materials are degradable and the gentle ROTEX motion minimizes the generation of additional fines. Clay has a tendency to blind the screen openings. ROTEX ball mesh cleaning system effectively prevents blinding thus insuring that screening performance is maintained.

USER LIST (PARTIAL)

A&M Products Inc.
AIMCOR
American Colloid Co.
American Olean Tile
A.P. Green Refractory
Avon Lea Minerals
Bentonite Corp.
Black Hills Bentonite
Eagle - Picher
Farmland Industries
Georgia Tenn. Mining
Harbison Walker Refractories
Hulmes Limestone Co.
J.M. Huber Corp.
Imperial Inc.
Ladrillera Monterrey
Mid State Tile Co.
Midtec Paper
Norton Company
Oil Dri Corp. Of America
Plainsman Clay
Santo Kagako Kogyo
Uni Royal
United Desiccants
Western Industrial Clay

ROTEX FEATURES

- Horizontal Gyratory Motion
- Automatic Tensioning Screen Attachment
- Ball Mesh Cleaning
- Totally Enclosed - Positive Sealing
- Low Maintenance

ROTEX design features provide reliable, high efficiency performance

ROTEX[®] SCREENERS

ROTEX Screeners are self-contained production screening machines for separating dry materials according to particle size. Through their unique gyratory motion of the near-horizontal screen surface, combined with a positive screen mesh cleaning system, ROTEX provides unusually high efficiency and capacity - all the result of continuing development for hundreds of applications throughout scores of industries.

ROTEX Screeners are made in over 100 standard models, ranging from 1 to 5 screen surfaces, for separations with openings from 1/2" to 325 mesh. They are available in Automatic-Tensioning all-metal and sanitary models, and General-Purpose models for applications not requiring all-metal construction.

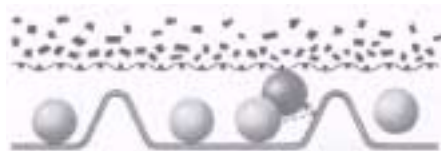
ROTEX FLOW OF MATERIALS ... FAST, EFFICIENT, ACCURATE

Material enters at top where it is distributed over the entire width of the screen surface and conveyed toward the discharge end. Larger particles remain above the screen surface, while smaller particles pass through. Model shown (above right) is a typical two-surface ROTEX, which separates material into three different grades. Other ROTEX models have one to five screen surfaces, producing two to six separate grades,

TWO SEPARATE SCREENING ACTIONS

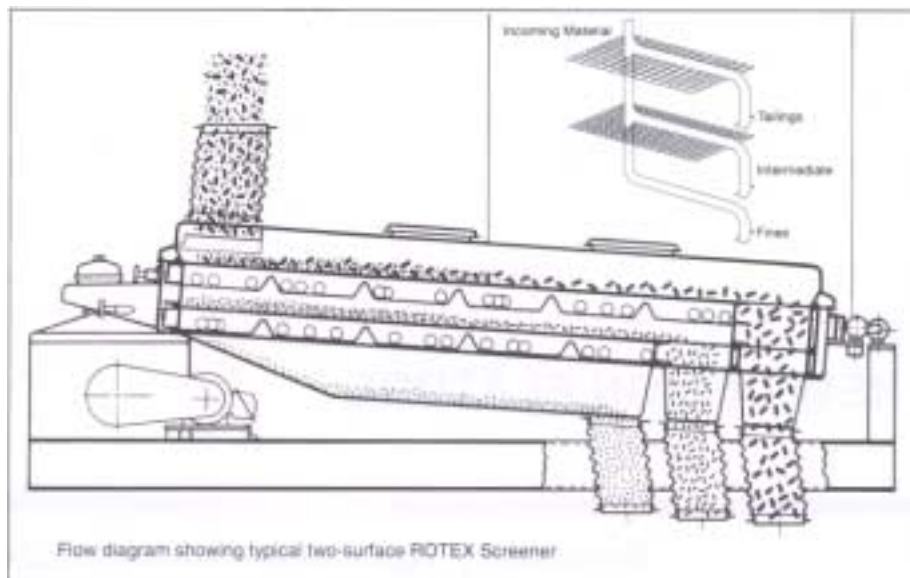
1. Gyratory Motion rapidly distributes ... stratifies ... separates.

The unique gyratory motion of the near-level screen box distributes material rapidly over the screen surfaces with practically no vertical vibration or hop. Finer particles are quickly stratified and readily pass through the screen as larger particles are gently conveyed to the discharge end.



2. Bouncing Balls control screen blinding

The bouncing action of balls confined in beveled pockets beneath each screen surface dislodges particles by direct contact. These resilient balls also keep the screen surface alive, providing agitation to aid particle stratification and to separate particles that may tend to stick together.



"QUICK-SNAP" PROVIDES AUTOMATIC SCREEN TENSIONING AND QUICK, EASY SCREEN REMOVAL

Quick-Snap is the patented design on all Automatic-Tensioning models for attaching screen clothing to the screen frame by spring tension clips. By maintaining a uniform tension across the entire screen surface, the system ensures superior screening accuracy, reduced screen blinding and increased screen life. The tension clip design also permits quick removal and replacement of screen clothing, which greatly reduces downtime.



SMOOTH COUNTERBALANCED DRIVE

The ROTEX counterbalanced drive produces a vibration-free screening motion that is never self-destructive - so smooth that ROTEX may be cable-suspended without loss of screening performance.

VARIETY OF DESIGN OPTIONS

- Sanitary designs
- Special inlets and outlets
- Manual or pneumatic top cover clamps for positive seal
- Two-deck independently fed surfaces
- High temperature modifications
- Abrasion-resistant linings
- Floor mounting or cable suspension
- And many other options to suit the application

MATERIAL TESTING SERVICE

Rotex takes the guesswork out of selecting the proper screening equipment by maintaining a fully-equipped materials testing laboratory. Here your materials are analyzed and tests conducted under simulated production conditions, to help determine the appropriate machine size, optimum screen openings and machine settings for a given application. To make use of this free testing service, first obtain a lab sample control number by contacting the ROTEX Test Lab Supervisor.

CALL ROTEX FOR ASSISTANCE ON YOUR APPLICATION

ROTEX has specialized in process screening equipment for more than 80 years, leading the way with innovations that have become the standard of the industry. For assistance with your specific application, call your ROTEX Representative or Application Engineers in our Cincinnati office.

ROTEX INC.

1230 Knowlton Street
Cincinnati, Ohio 45223-1845 U.S.A.
Telephone 513-541-1236
Fax 513-541-4888

ROTEX INC.