



APPLICATION - PETROLEUM COKE

MATERIAL CHARACTERISTICS

Petroleum coke is the solid residue remaining after the distillation of petroleum materials. It is widely used for electrodes in the electrolytic reduction of alumina to aluminum and the reduction of iron ore in blast furnaces. Another use is as an additive to increase carbon in metals. The bulk density of petroleum coke is 40 to 82 PCF (650 to 1300 kg /M3).

APPLICATION DATA

Multiple deck ROTEX Screeners allow the sizing of various product fractions without the need to change screens. ROTEX Screeners provide accurate separations of on spec product with maximum yield. Typical loadings range from 2000 pph/ft² (10 tph/m²) for coarse scalp and 500 to 1500 pph/ft² (2.5 to 7.5 tph/m²) for fine to medium product sizes (35 to 6 US Sieve, 425 to 3350 microns).

ROTEX ADVANTAGES

ROTEX Screeners equipped with heavy duty features address the abrasiveness of the coke. Features include abrasion resistant linings in all impact areas, heavy gauge bottom pan, and abrasion resistant screen wire. ROTEX ball mesh cleaning system effectively prevents blinding thus insuring that screening performance is maintained.

USER LIST (PARTIAL)

Asbury Graphite Mills
Carbide Graphite Group
Columbia Aluminum
Cyanamid Canada
SGL Carbon
J.S. McCormick Co.
Kaiser Aluminum & Chemical
Madras Aluminum
Pacific Activated
Reynolds Metal Co.
Ucar Mexicana
Ucar do Brasil
Union Carbide
White Martins S.A.

ROTEX FEATURES

- Horizontal Gyratory Motion
- Ball Mesh Cleaning
- Totally Enclosed - Positive Sealing
- Low Maintenance
- Easy Access for Screen Changes
- Low Headroom Requirement

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.

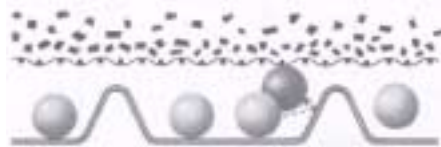
ROTEX FLOW OF MATERIALS ... FAST, EFFICIENT, ACCURATE

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

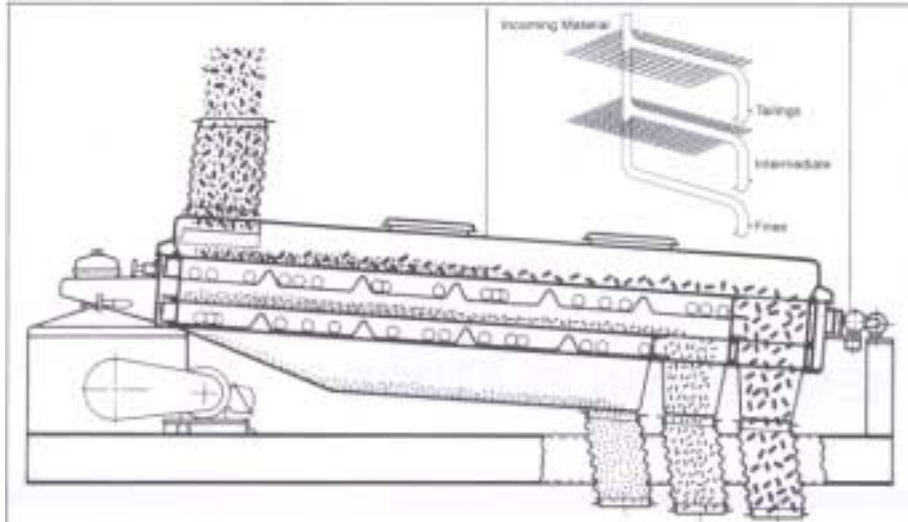
1. Gyratory Motion rapidly distributes ... stratifies ... separates.

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.



Flow diagram showing typical two-surface ROTEX Screener



"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.

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