



APPLICATION - PLASTIC PELLETS (PP, PE, HDPE, LDPE)

MATERIAL CHARACTERISTICS

Plastic Pellets are used in making automotive and appliance molded parts, plastic bottles and coatings for electric wire. PP Pellets are tablet shaped and PE Pellets are cylindrical. Particle size is approximately 3 mm in diameter. The bulk density is approximately 35 pcf.

APPLICATION DATA

In the manufacturing process, PP Pellets are screened after under water cutting/pelletizing and drying to remove -1 mm fines and +4 mm overs. Overs consist of clusters of single pellets that adhere to each other as they discharge from the cutter.

ROTEX ADVANTAGES

- ◇ Because the ROTEX uses a combination gyratory/reciprocating motion and has no vertical component, there is no significant product lost in the oversize fraction. The pellets remain fully in contact with the screening surface at all times. Vibrating screeners cause chains to upend and contaminate the good pellets.
- ◇ The ROTEX ball mesh cleaning system clears the pellets from the openings preventing blinding of the screen deck openings. This is very important on the top deck, as blinding will cause carryover of good pellets with the overs. Vibrating screeners lack the stroke to employ effective antiblinding devices.

- ◇ For demanding pellet quality specs, ROTEX Screeners are arranged with perforated plate top deck screen to provide maximum efficiency in removal of oversize. Often vibrating screens are arranged with wire mesh to achieve the required capacity but the oversize removal efficiency is not as good.
- ◇ Because of the low frequency motion of the ROTEX Screener the noise level of the machine is 85 dBA.
- ◇ Because of the high efficiency screening motion ROTEX generally requires less screening area for a given capacity than a vibrating screen.
- ◇ Motor HP requirement is less on a ROTEX. In addition ROTEX uses a standard frame motor.
- ◇ Screen clothing change is much easier because of the quick and easy disassembly as described in Catalog 209.

USER LIST (Partial)

Amoco	General Electric
Aristech	Huntsman
BASF	Phillips
Chevron	Shell
Exxon	Texas Eastman
Formosa Plastics	

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.

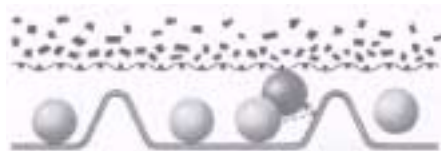
ROTEX FLOW OF MATERIALS ... FAST, EFFICIENT, ACCURATE

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

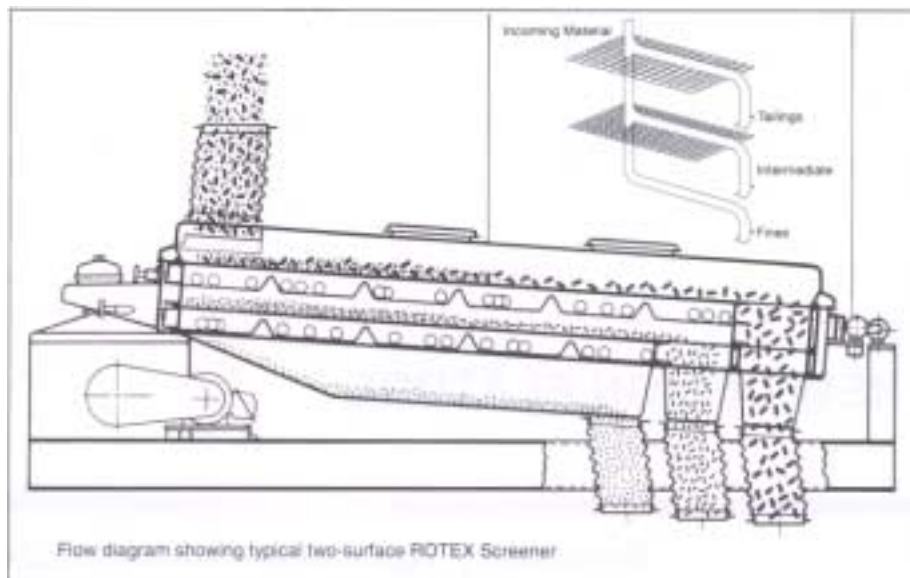
1. Gyratory Motion rapidly distributes ... stratifies ... separates.

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.

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