

APPLICATION BULLETIN 419 - MEAT MEAL SCREENING

How ROTEX Screeners are used throughout the rendering industry to produce quality meat meal

ROTEX Screeners offer a number of unique features that contribute to quality separations, high production and ease of operation and maintenance.

Effectively separate hair and fluff

The horizontal *gyratory* screening motion of the ROTEX Screener rapidly distributes the meat meal over the entire screen surface and conveys it without vertical vibration or hop. This motion causes hair and fluff to ball up and ride on *top* of the meal for easy removal by aspiration or discharge with other rejects.

Positive mesh cleaning system

The ROTEX system of bouncing balls under the screen surface helps prevent screen plugging and grease build-up. This freedom from screen blinding permits the use of smaller openings on ROTEX screens and

thus a more accurately sized meat meal product passing through the screen mesh.

Greater cleanability

ROTEX Screeners are designed for easy disassembly, facilitating complete and thorough inspection and cleaning. QuickRelease cover clamps and the ROTEX unitized stack design allow removal of the top cover and screen frame in *less than five minutes*.

Three styles available

ROTEX Screeners are manufactured in three basic types for handling meat meal, as shown at right. Models range in screen size from 40 x 84" to 60 x 144", with capacities from 4 to 18 TPH.

See reverse side for general information on ROTEX Screeners. For further details, contact your local ROTEX Representative.

Users (Partial List)

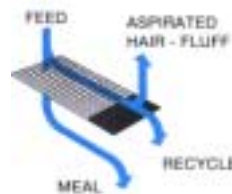
Alabama Feed Products	Griffin Industries Inc.	Ontario Rendering
Alberta Processing Co.	IBP Indiana Packers	Perdue
Anpro Co.	Inland Products Inc.	Plymouth Fertilizer Co.
Anamax Inc.	Kruger Commodities	River Valley By-Products
Baker Commodities	Kuhni & Sons	Salt Lake By-Products
Cargill Inc.	Mid-South Milling	Sioux By-Products
Carolina Food Processors	Milwaukee Tallow Co.	Smithfield Packing
Central Bi-Products	Modesto Tallow Works	Standard Rendering TAPCO
Darling & Company	Mountain View Rendering	Tyson Foods
Eastern Shore Rendering	Moyer Packing Co.	Valley Proteins
Excel	National By-Products, Inc.	Wampler Longacre Chicken Inc.
Foster Poultry Farms		

TYPE 1 Open-end design, with aspiration



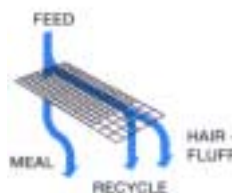
Usable meat meal passes through a control mesh into a single outlet bottom pan. Oversize material is conveyed onto external tailings chute at the discharge end. Aspiration hood removes hair and fluff from the oversize.

TYPE 2 Fully-enclosed design, with aspiration



Same design as Type 1, except all portions of the machine are fully enclosed to protect against contamination.

TYPE 3 Fully-enclosed design, without aspiration



In this type, the last 12 inches of the screen deck contains a coarser screen mesh section (usually 2-4 mesh), through which the oversize recycle material passes. Hair, fluff and very large oversize are discharged over the top.

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.

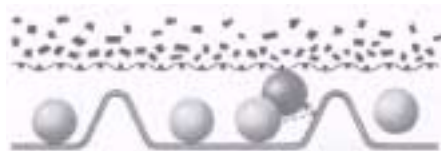
ROTEX FLOW OF MATERIALS ... FAST, EFFICIENT, ACCURATE

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

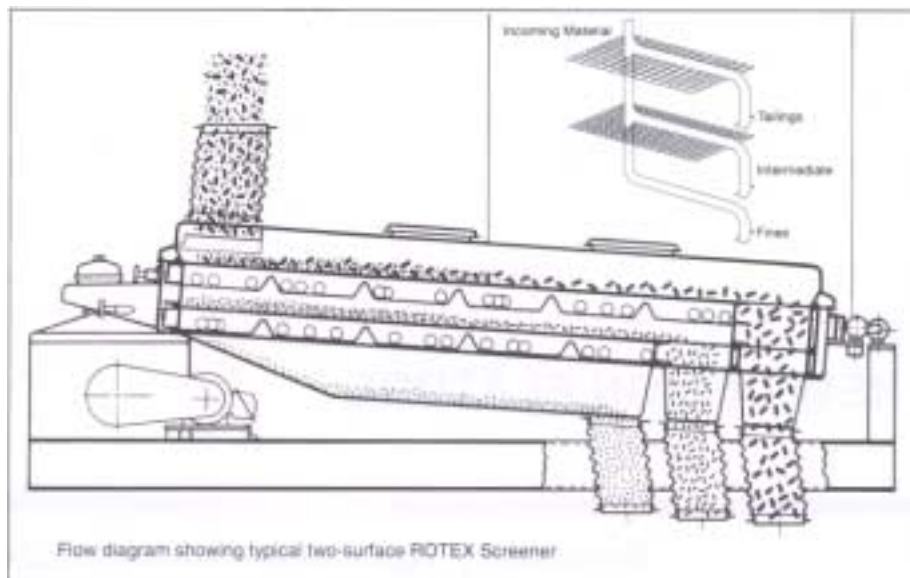
1. Gyratory Motion rapidly distributes ... stratifies ... separates.

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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