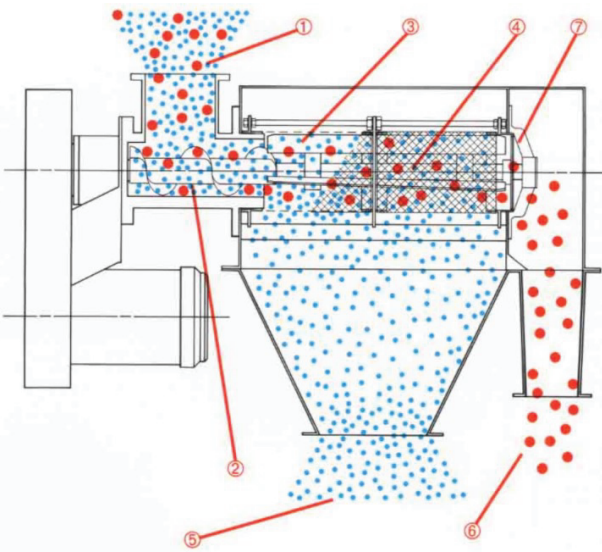


## KEY FEATURES

- Standard stainless steel body and hoppers with numerous internal construction options
- Greater capacity per square inch of screen cloth, providing more output using a smaller footprint than competitors
- Three bearings for improved rotor support and minimal wear to shaft seals
- Fully adjustable multi-paddle rotor for customized screening capability
- Rapid-removal of rotor specially designed for quick cleaning and maintenance
- Easily-inspected screens, either in place or when removed
- Adjustable screen frame designed for improved performance from a variety of screen fabrics
- Easy access to all internal working parts
- Low-noise, dust-tight, vibration-free operation without the need for external guarding
- Optional patented Rota-Trap® for pre-screening large-sized foreign materials
- Optional quick-clean designs with tool-free removal of internal parts
- Optional sanitary finishes and construction for specialty applications
- Options for compliance with USDA, FDA, BISSC, 3-A, and other U.S. and European regulators

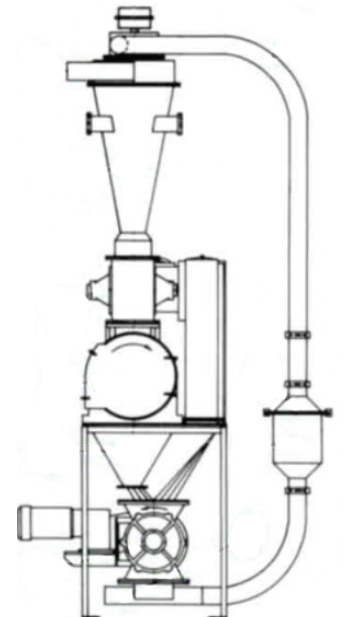


## Step-By-Step Operational Flow

- 1 - Material to be processed is fed into Rota-Sieve inlet
- 2 - The auger then feeds the material into the screen area
- 3 - The rotating blades of the rotor assembly
- 4 - Spread the material across the screen
- 5 - The product (minus the screen size) passes through the screen
- 6 - The overs (plus the screen size) of up to 15% are conveyed forward and discharged
- 7 - The retaining baffle ring limits discharging material to oversize particles only, improving screening efficiency

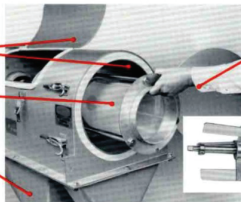
## Typical Application Products Handled

Alfalfa, Ground	Fire Extinguisher Powder
Alumina	Fish Meal
Ascorbic Acid	Flour, Various
Baby Foods	Fungicide
Baking Soda	Gypsum
Bone Meal	Herbicide
Bran	Hulls, Ground
Bentonite	Iron Oxide
Borax	Limestone
Cake Mix	Meal, Soybean
Calcium Carbonate	Metallic Powders
Carbon Black	Milk Powder
Casein	Phenolic Resin
Cheese Powder	Pigments, Various
Chalk	Protein
Coal, Powdered	Salt
Cocoa Powder	Silica
Coke, Powdered	Soap
Corn Meal	Sodium Bicarbonate
Dehydrated Vegetables	Spices
Detergent	Starch, Various
Dextrose	Sugar
Diatomaceous Earth	Talcum
Donut Mix	Titanium Dioxide
Eggs, Powdered	Tobacco, Ground
Epoxy Resin	Urea
Epoxy Powder Coatings	Vitamins
Fertilizer, Chemical	Whey, Powdered
Fibers	



## Rota-Sieve Centrifugal Sifter And Scalper Standard Features

Large, Quick Opening Access Doors Allow For Inspection And Fast Changing Of Screen Assemblies



Dissassembly can be accomplished without the use of any tools

Rotor Assembly Designed For Metered Feed



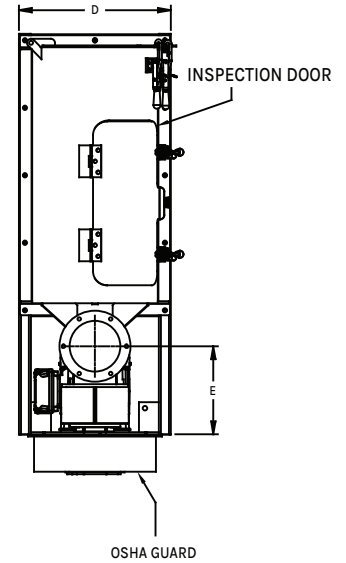
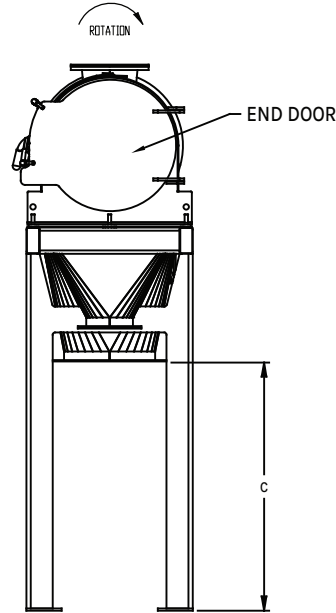
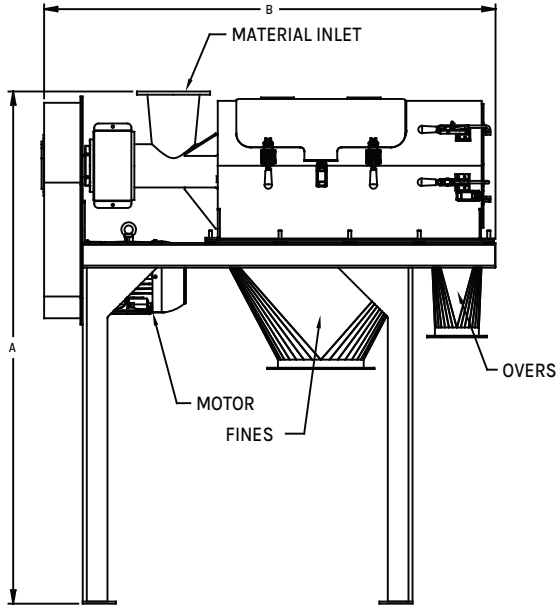
Nitex (All Sizes) Or Stainless Steel Screen (In 16 Mesh Sizes Or Larger) Cloths Available

Discharge Hopper Can Be Designed To Discharge Into A Number Of Process Machines

# GENERAL DIMENSIONS\*

Model Number	HP Mill	Effective Screen Area in <sup>2</sup>	A	B	C	D	E
			in mm	in mm	in mm	in mm	in mm
RS-91	3	410	62 1578	55 1397	28.5 724	19 483	11 279
RS-700	3	725	89 2261	61 1549	63 1600	45 1143	11 279
RS-151	5	942	69.5 1765	61.5 1556	29.5 743	25 629	14 360
RS-301	7.5	1872	80.5 2045	94 2388	33.5 851	28.5 724	20 502

\*GENERAL DIMENSIONS ONLY: Do not use for engineering purposes. Please request a certified drawing for all layout or construction uses.



## KEY BENEFITS

The simple design and lightweight parts of the Rota-Sieve make standard inspections an easy and straightforward process.

Our rota-sieves are also ideal for the sifting, scalping and classifying of a wide variety of particles and products, including:

- Bulk, free-flowing powders
- Granulated substances
- Agglomerated materials

Our units are easy to maintain and designed for many years of trouble free service. Self-cleaning screen fabrics ensure that the Rota-Sieve® can separate to 200-mesh size without the need for anti-blinding mechanisms.

## THEORY OF OPERATION

Prater Rotary Sifters harness the power of centrifugal force to fluidize and accelerate particles toward the screen surface. The sifter inlet is specially fitted with an auger that moves materials into the screening chamber, where rotor paddles accelerate the particles outward. Finer particles pass through the screen and are discharged into a large hopper. Rotor paddles are precisely pitched to force coarser material to the end of the chamber, where they are expelled into a separate discharge hopper. Over-size and near-size particles interact with the screening surface during operation, causing a natural vibration in the fabric that enhances free flow.



905-607-3240  
sales@ratetechnology.com  
www.ratetechnologiesystems.com

2 Sammons Court, Bolingbrook, IL 60440  
1-844-942-2466 • praterindustries.com