ROTEX®
HIGH PERFORMANCE SCREENERS

Screener APEX™

High Efficiency Performance, Ergonomic Design

Apex screeners provide the same great Rotex efficiency at a lower operating cost.

▲ *Rotex Apex™ Screener*

The Apex™ Screener is built to meet your requirements:

- Unique Rotex Gyratory-Reciprocating motion provides maximum product recovery
- Designed for single-operator use to reduce handling expense
- Lightweight, pretensioned screen panels allow for easy inspection and changes in minutes

FREE MATERIAL ANALYSIS

Over 100 years of proven correlation between lab test results and actual field performance:

- Experienced Lab Technicians and Application Engineers recommend machine size, settings and screen openings to ensure accurate, efficient separations
- Comprehensive separation analysis
- Summary report provides data to support ROI decisions

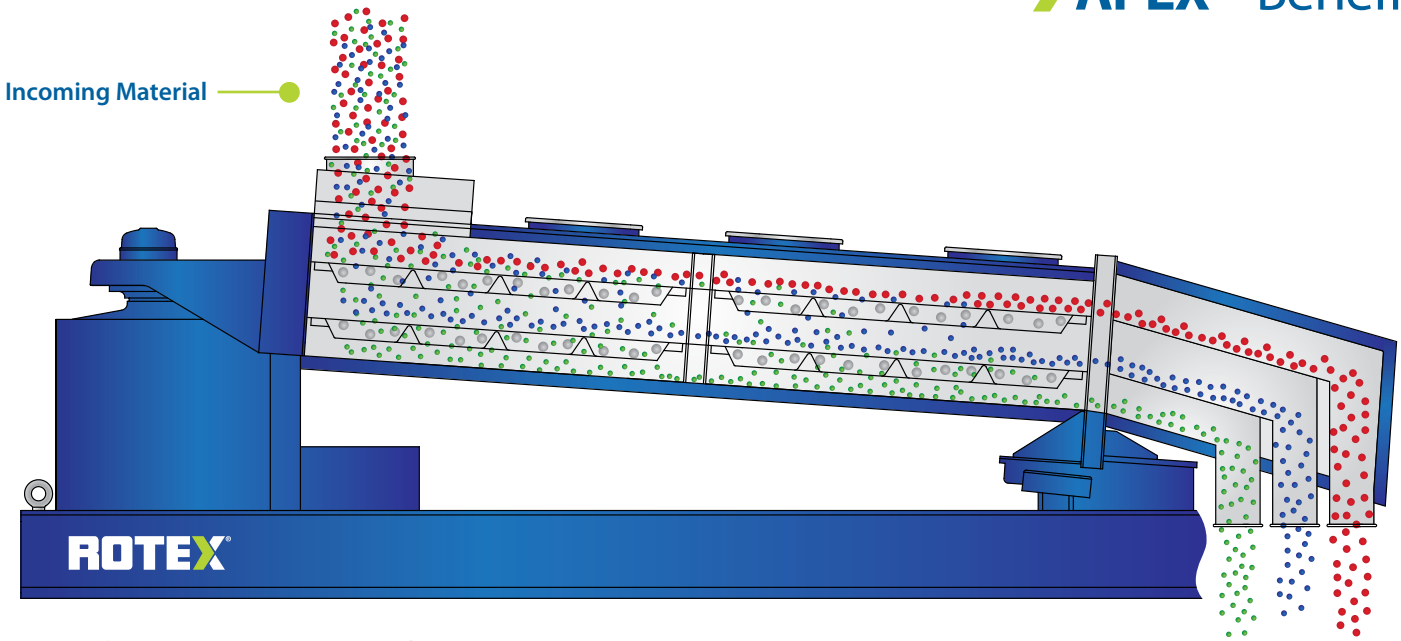
▲ Modified Apex™ with hinged discharge chute and easy to remove top panel

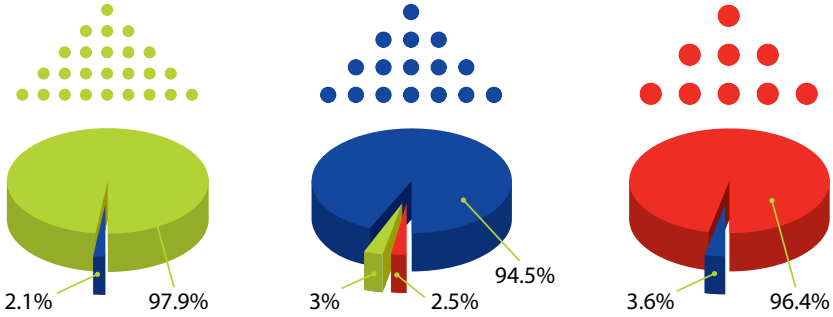
▲ Modified Apex™ with inspection panels and aspiration on discharge chute

Nearly 700 Apex™ Screeners are installed worldwide

PRODUCT BULLETIN | APEX™ SCREENER

APEX™ Benefits





Fines Product Overs

Apex Screeners produce the highest yields of consistent on-spec product

Gyratory Reciprocating Motion

The Gyratory Reciprocating Motion gradually diminishes along the length of the machine to an elliptical path and finally to a nearly straight line motion at the discharge end.

Circular motion at the feed end

- Spreads the material across the full width of the screen surface
- Stratifies the material
- Aggressively conveys material forward

Changing to elliptical motion at the middle of the deck

- Long stroke elliptical action
- Enhances product stratification
- Conveys material at high capacity

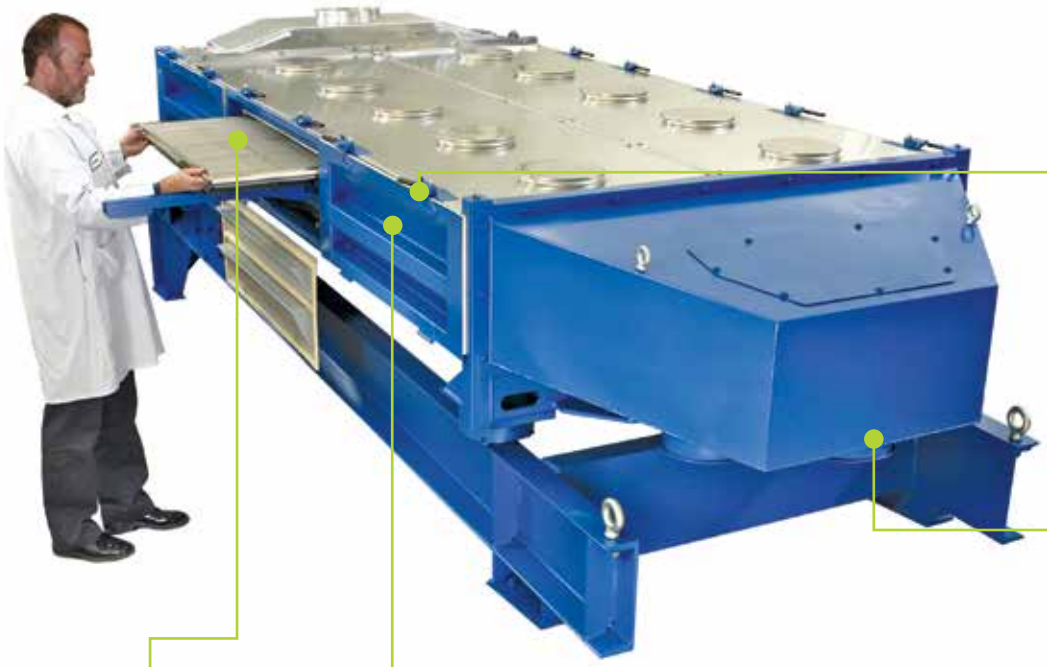
Reciprocating motion at the discharge end

- Removes near-size particles
- Improves screening efficiency
- No vertical component ensures material is in constant contact with the screen surface

Apex™ Benefits

- Ergonomic and lightweight design eliminates need for multi-person maintenance crews and overhead hoists
- Pretensioned screen panels and side mounted access doors reduce downtime
- Easy access connecting sleeves located at discharge end
- Unique Rotex Gyratory Reciprocating motion yields exceptional product recovery

APEX™ Features



Tool-less cams
No wrenches are required to open doors or remove screens for inspection or maintenance

Reduced Maintenance
Easy access to discharge sleeves reduces downtime

Positive Screen Cleaning
Bouncing balls keep screen openings clear, maintaining efficiency and capacity

Ergonomic Design
Large access doors allow one person to change a screen panel in less than 2 minutes

Installation Options

Floor Mounting

Because counterbalanced drives provide for low transmitted forces, the Apex can be mounted directly on the floor or on an elevated structural steel framework.

Cable Suspension

Apex Screeners can be cable-suspended from the four corners of the machine, thereby isolating out-of-balance screening forces from the surrounding structure. Accurate counterbalancing of the Apex Screener makes this type of installation option possible. The Apex Screener can be suspended from a floor-mounted cable support stand or existing overhead structure.

Contact your local Rotex representative who will recommend a stand for any specific application.

Add Aspiration for Additional Cleaning of Your Material

Most Apex Screeners can be equipped with aspiration hoods to remove dust and other light material. These hoods allow air to be pulled over the falling product stream and are adjustable for various products and rates.

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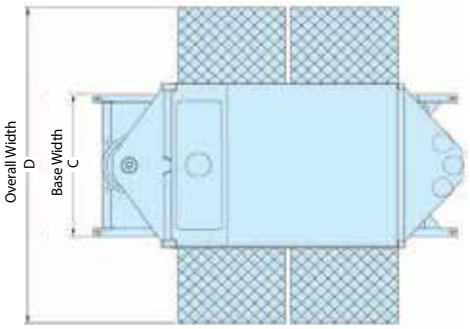
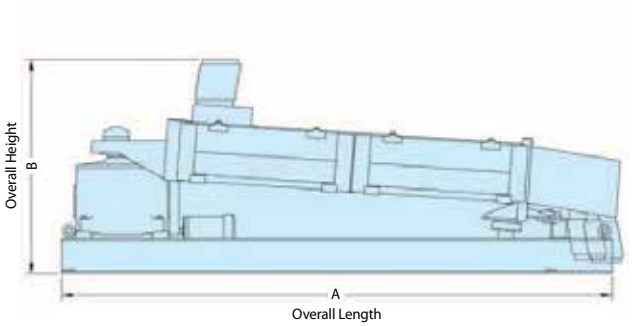
› APEX™ Specifications





The following specifications are for Apex Screeners of standard construction, ranging from single surface models (two grades – one separation) to three surface models (four grades – three separations). Drawings are representative, but overall dimensions may vary depending on the mounting method.

No. of Screen Surfaces	Apex™ Model No.	Drive Head Series	Total Nominal Area		Screen Motion			Motor		Principal Dimensions								Shipping Weight	
					Stroke		Speed			A		B		C		D			
			ft²	m²	in	mm	rpm	hp	kW	in	mm	in	mm	in	mm	in	mm	lb	kg
Machines using original screen panel size																			
1	9-1*	30	9	0.8	2.5	64	252	2	1.5	91	2311	44	1118	36	914	67	1702	1700	773
	18-1*	30	18	1.7	2.5	64	252	2	1.5	143	3632	47	1194	36	914	69	1753	2000	909
	35-1	80	35	3.3	3	76	216	3	2.2	150	3810	55	1397	60	1524	132	3353	3800	1727
	35C-1†*	80	35	3.3	3	76	216	3	2.2	150	3810	72	1829	36	914	68	1727	4100	1864
	55-1	80X	55	5.1	2.5	64	240	5	3.7	195	4953	58	1473	60	1524	132	3353	4500	2045
	70-1†	50	70	6.5	3.5	89	200	7.5	5.6	174	4420	79	2007	60	1524	132	3353	6900	3136
	110-1†	70	110	10.2	3.5	89	200	10	7.5	222	5639	81	2057	73	1854	132	3353	10500	4773
2	9-2*	30	9	0.8	2.5	64	252	2	1.5	109	2769	50	1270	36	914	67	1702	1800	818
	18-2*	80	18	1.7	3	76	216	3	2.2	156	3962	60	1524	36	914	69	1753	3500	1591
	35-2	80X	35	3.3	2.5	64	240	5	3.7	152	3861	62	1575	60	1524	132	3353	4500	2045
	55-2	50	55	5.1	3.5	89	200	7.5	5.6	214	5436	70	1778	60	1524	132	3353	7200	3273
	70-2†	70	70	6.5	3.5	89	200	10	7.5	185	4699	90	2286	73	1854	132	3353	11000	5000
	110-2†	70	110	10.2	3.5	89	200	10	7.5	231	5867	94	2388	73	1854	132	3353	13500	6136
3	9-3*	80	9	0.8	3	76	216	3	2.2	114	2896	66	1676	36	914	70	1778	2700	1227
	18-3*	80	18	1.7	3	76	216	3	2.2	159	4039	68	1727	36	914	69	1753	3800	1727
	35-3	50	35	3.3	3.5	89	200	7.5	5.6	177	4496	73	1854	60	1524	132	3353	7000	3182
	55-3	70	55	5.1	3.5	89	200	10	7.5	234	5944	75	1905	73	1854	132	3353	10500	4773
4	55-4	70	55	5.1	3.5	89	200	10	7.5	234	5944	86	2184	73	1854	132	3353	13500	6136
Machines using larger screen panel size																			
1	12L-1*	30	12	1.1	2.5	64	252	2	1.5	104	2642	45	1143	44	1118	83	2108	1700	773
	24L-1*	80	24	2.2	3	76	216	3	2.2	150	3810	53	1346	44	1118	85	2159	3500	1591
	24LC-1†*	80	24	2.2	3	76	216	3	2.2	106	2692	70	1778	44	1118	85	2159	3500	1591
	36L-1*	80	36	3.3	3	76	216	3	2.2	201	5105	64	1626	44	1118	85	2159	3800	1727
	48LC-1†*	80	48	4.5	3	76	216	3	2.2	154	3912	75	1905	44	1118	85	2159	4200	1909
	71LH-1	50	71	6.6	3.5	89	200	7.5	5.6	225	5715	74	1880	76	1930	163	4140	9300	4227
	95LH-1	70	95	8.8	3.5	89	200	10	7.5	287	7290	78	1981	89	2261	163	4140	12,000	5455
	142LH-1†	70	142	13.2	3.5	89	200	10	7.5	266	6756	83	2108	89	2261	163	4140	13,000	5909
	190L-1†	70	190	17.6	3.5	89	200	10	7.5	298	7569	80	2032	89	2261	163	4140	15,000	6818
2	12L-2*	30	12	1.1	2.5	64	252	2	1.5	112	2845	51	1295	44	1118	83	2108	2000	909
	24LH-2*	80	24	2.2	3	76	216	3	2.2	163	4140	70	1778	44	1118	85	2159	4100	1864
	36L-2*	80X	36	3.3	2.5	64	240	5	3.7	216	5486	64	1626	45	1143	85	2159	4400	2000
	48L-2	50	48	4.5	3.5	89	200	7.5	5.6	182	4623	61	1549	89	2261	163	4140	7500	3409
	71L-2	70	71	6.6	3.5	89	200	10	7.5	240	6096	90	2286	90	2286	165	4191	11,000	5000
	71LH-2	70	71	6.6	3.5	89	200	10	7.5	250	6350	86	2184	89	2261	163	4140	12,300	5591
	95LH-2	70	95	8.8	3.5	89	200	10	7.5	290	7366	90	2286	89	2261	164	4166	14,600	6636
3	12L-3*	80	12	1.1	3	76	216	3	2.2	115	2921	67	1702	44	1118	85	2159	3450	1568
	24L-3*	80	24	2.2	3	76	216	5	3.7	166	4216	70	1778	44	1118	85	2159	4166	1894
	36L-3*	50	36	3.3	3.5	89	200	7.5	5.6	236	5994	73	1854	45	1143	85	2159	7400	3364
	71L-3	70	71	6.6	3.5	89	200	10	7.5	244	6198	76	1930	89	2261	164	4166	13000	5909
4	24L-4*	50	24	2.2	3.5	89	200	7.5	5.6	188	4775	80	2032	45	1143	85	2159	7200	3273
	36L-4*	50	36	3.3	3.5	89	200	7.5	5.6	236	5994	80	2032	45	1143	85	2159	8000	3636

L Indicates use of 38"x45" (965 mm x 1143 mm) panels
† Indicates two deck independently fed ("stacked") design

* Indicates access from one side only
Note that models with 80X drive head has 2.5"/64mm diameter stroke

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