

Drawings are representative of ROTEX models to show principal dimensions only. Complete dimensional drawings of individual models, showing location of foundation bolts and other details, are available on request.

## SPECIFICATIONS — GENERAL-PURPOSE MODELS

No. of Screen Surfaces	Rotex Model Number	Nominal Screen Size Per Surface (Inches)	Nom. Area Per Screen Surface (Sq. Ft.)	Screen Motion		Motor		Principal Dimensions - Inches				Shipping Weight (Lbs.)
				Stroke (Inches)	RPM	HP	RPM	A	B	C	D**	
1	11	20 x 48	6.6	2	294	1/2	1200	67	31 1/4	29 3/4	—	530
	3201	30 x 60	12.5	2 1/2	243	2	1200	97 1/8	38 1/2	33 1/2	37 1/2	1325
	3221	40 x 56	15.5	2 1/2	243	2	1200	92 1/8	38	51	—	1400
	321	40 x 84	23.3	2 1/2	243	2	1200	120 1/8	38	51	—	1675
	341	40 x 120	33.3	2 1/2	243	2	1200	155	42	47	49 1/2	2070
	3421	60 x 84	35.0	2 1/2	243	2	1200	120 3/4	44	67 1/4	69 1/2	2070
	3432*	40 x 84	23.3	2 1/2	243	2	1200	131	52 1/4	47	55 1/2	2010
	81	60 x 120	50.0	3	216	3	1800	165 1/2	55 1/8	70	77 1/2	3800
	832*	40 x 120	33.3	3	216	3	1800	170	55 1/2	50	60 5/8	4050
	521	60 x 144	60.0	3 1/2	199	7 1/2	1200	201	52	77	85 3/8	6270
	581	80 x 144	80.0	3 1/2	199	7 1/2	1200	201	47 1/2	95	105 1/4	6500
	532*	60 x 120	50.0	3 1/2	199	7 1/2	1200	192	72 1/2	77	85 3/8	5700
	552*	60 x 144	60.0	3 1/2	199	7 1/2	1200	206	70	77	84	6750
	721	80 x 144	80.0	3 1/2	203	10	1200	209	62 1/2	102	108	11700
	732*	80 x 144	80.0	3 1/2	203	10	1200	214 1/4	73 3/8	102	108	13100
2	12	20 x 37	5.1	2	294	1/2	1200	64 1/8	32 1/2	29 3/4	—	530
	3202	30 x 60	12.5	2 1/2	243	2	1200	100 1/8	43 1/2	33 1/2	42 1/4	1450
	322	40 x 56	15.5	2 1/2	243	2	1200	96 1/8	43 1/2	51	52 1/4	1495
	342	40 x 84	23.3	2 1/2	243	2	1200	124 1/2	48	47	54 1/2	2060
	82	40 x 120	33.3	3	216	3	1800	170	55	50	60 5/8	3740
	842	60 x 84	35.0	3	216	3	1800	135	55 3/4	69 7/8	80 5/8	3775
	852	60 x 100	41.7	3	216	3	1800	151	55 1/2	70	80 5/8	3950
	52	60 x 120	50.0	3 1/2	199	7 1/2	1200	176 1/4	54	75	—	5660
	522	60 x 144	60.0	3 1/2	199	7 1/2	1200	210	55 5/8	77	85 1/2	6400
	722	80 x 144	80.0	3 1/2	203	10	1200	216	69 1/4	102	108	12500
3	323†	20 x 81	11.2	2 1/2	243	2	1200	129 5/8	44 1/2	28 1/2	—	1575
	3203	30 x 60	12.5	2 1/2	243	2	1200	110 1/8	46 1/4	32	42 1/4	1625
	343	40 x 84	23.3	2 1/2	243	2	1200	124 1/2	51 1/2	47	55 1/2	2300
	83	40 x 120	33.3	3	216	3	1800	170	56 1/2	50	60 5/8	4050
	53	40 x 120	33.3	3 1/2	199	7 1/2	1200	184	61	60	65	5420
	523	60 x 120	50.0	3 1/2	199	7 1/2	1200	177 1/4	59 3/4	77	85 3/8	6150
	73	80 x 144	80.0	3 1/2	203	10	1200	216 1/2	65 1/2	102	108	13100
4	324†	20 x 64	8.9	2 1/2	243	1 1/2	1200	109 5/8	45 1/4	33 1/2	—	1575
	344	40 x 72	20.0	2 1/2	243	2	1200	124 1/2	51	47	54	2340
	84	40 x 84	23.3	3	216	3	1800	139	61	49 1/2	60 1/8	4000
	54	40 x 120	33.3	3 1/2	199	7 1/2	1200	184	62	60	65	5570
5	55	40 x 120	33.3	3 1/2	199	7 1/2	1200	184	61 1/8	60	65	5720

SEE REVERSE SIDE FOR ROTEX AUTOMATIC-TENSIONING MODELS

\* Machine has two independently fed surfaces. Total screen deck area is twice that listed.

\*\* Dimension D is machine width at discharge end, and is listed only when it is larger than Dimension C.

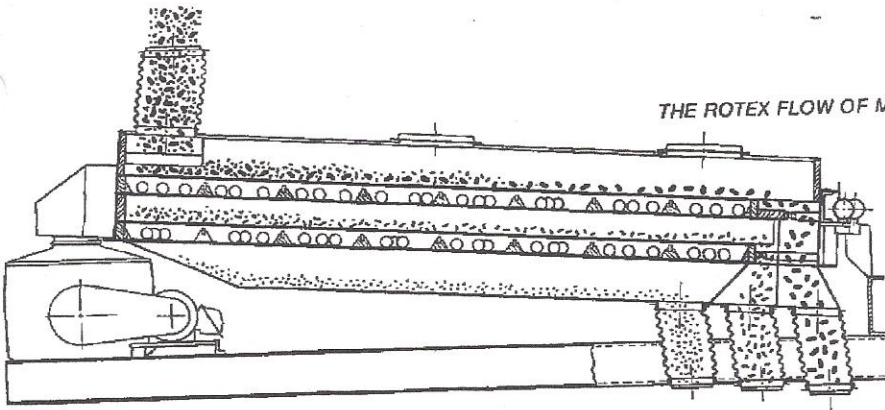
† Outlets are staggered off center line of the machine.

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**ROTEX INC. REPRESENTATION**  
Call TOLL-FREE 1-800-243-8160 for name of your nearest ROTEX INC. representative. They are located in the following principal cities...

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THE ROTEX FLOW OF MATERIALS IS FAST, EFFICIENT, ACCURATE

Feed material enters at top left, is distributed over entire width of screen surface and conveyed to discharge end. Larger particles remain above the screen surface, while smaller particles pass through, as determined by the screen meshes used for each particular application.

### THREE BASIC TYPES TO SERVE EVERY APPLICATION

**SINGLE-SURFACE ROTEX**—Used principally for removal of fines from pellets or range cubes.

#### SPECIFICATIONS

Model Number	Screen Size per Surface	Capacity in Tons per Hour	Motor		Approximate Net Weight in lbs.
			HP	RPM	
11	20" x 48"	6	.5	1200	530
3201	30" x 60"	13	2	1200	1325
3221	40" x 56"	16	2	1200	1400
321	40" x 84"	25	2	1200	1675
3421	60" x 84"	37	2	1200	2070
81	60" x 120"	50	3	1800	3800
521	60" x 144"	60	7.5	1200	6270
721	80" x 144"	85	10	1200	11700

**TWO-SURFACE ROTEX**—The screener most used for separating fines from either pellets or crumbles. Pellets pass over the top surface, through which fines are removed. Without a change in screen mesh, crumbles pass through the top surface and over the bottom screen, which is usually 14 to 20 mesh for fines removal.

Model Number	Screen Size per Surface	Capacity in Tons per Hour		Motor		Approximate Net Weight in lbs.
		Pellets	Crumbles	HP	RPM	
322	40" x 56"	16	11	2	1200	1495
342	40" x 84"	25	15	2	1200	2060
842	60" x 84"	37	25	3	1800	3775
852	60" x 100"	44	30	3	1800	3950
52	60" x 120"	50	34	7.5	1200	5660
722	80" x 144"	85	55	10	1200	12500

**THREE-SURFACE ROTEX**—For multi-purpose screening. Without changing screens, range cubes as well as pellets and crumbles can be screened. Range cubes pass over the top surface, through which fines are removed... the middle and bottom screen surfaces are employed for pellets and crumbles as in a two-surface machine.

Another method is to utilize the top surface for fines removal from pellets, with the middle and bottom screen surfaces producing two different grades of crumbles.

Model Number	Screen Size per Surface	Capacity in Tons per Hour		Motor		Approximate Net Weight in lbs.
		Pellets	Crumbles	HP	RPM	
3203	30" x 60"	13	8	2	1200	1625
343*	40" x 84"	20	15	2	1200	2300
83*	40" x 120"	30	23	3	1800	4050
523	60" x 120"	50	34	7.5	1200	6150
73	80" x 144"	85	55	10	1200	13100

\*For maximum capacity, install Model 343 or Model 83 with base at a 4° slope.

## INSTALLATION

### LIFTING ROTEX SCREENER

When lifting a ROTEX Screener into position, the hoist(s) must be attached to the base in such a manner that the cables will not damage the screen box. For most models this is best accomplished by using a separate hoist at each end of the base.

### METHODS OF INSTALLATION

**1. BASE MOUNTED** - ROTEX Screeners come completely assembled and can be installed on any level, reasonably sturdy floor. The base should be secured to the floor with bolts, using the mounting holes provided.

**2. SUPPORT STAND** - If the ROTEX is to be mounted on an elevated stand, provide stiff diagonal bracing on at least three sides of the stand with the lower ends of the braces attached close to the floor. This will prevent magnification of any slight periodic vibrations. Also, it is recommended that the stand width at least equal the stand height.

**3. CABLE SUSPENDED** - Because of their counterbalanced drive, ROTEX Screeners can be cable suspended. This is especially useful in areas of limited floor space, or where screeners are installed at elevated locations in structures not suitable for dynamic loads.

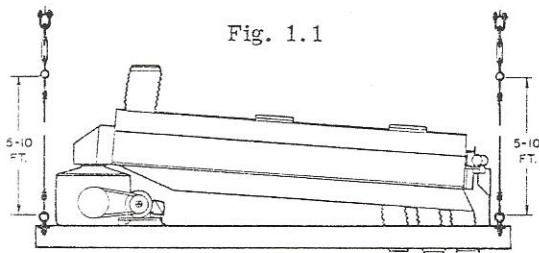


Fig. 1.1

To cable suspend the ROTEX, four wire rope assemblies are required, one attached to each corner. These cables should be of improved plow steel quality or equivalent. The recommended cable size for each model series is shown in the following table.

MACHINE SERIES	RECOMMENDED WIRE ROPE DIAMETER
10	1/4"
20	1/4"
40	3/8"
80	1/2"
50	5/8"
70	3/4"

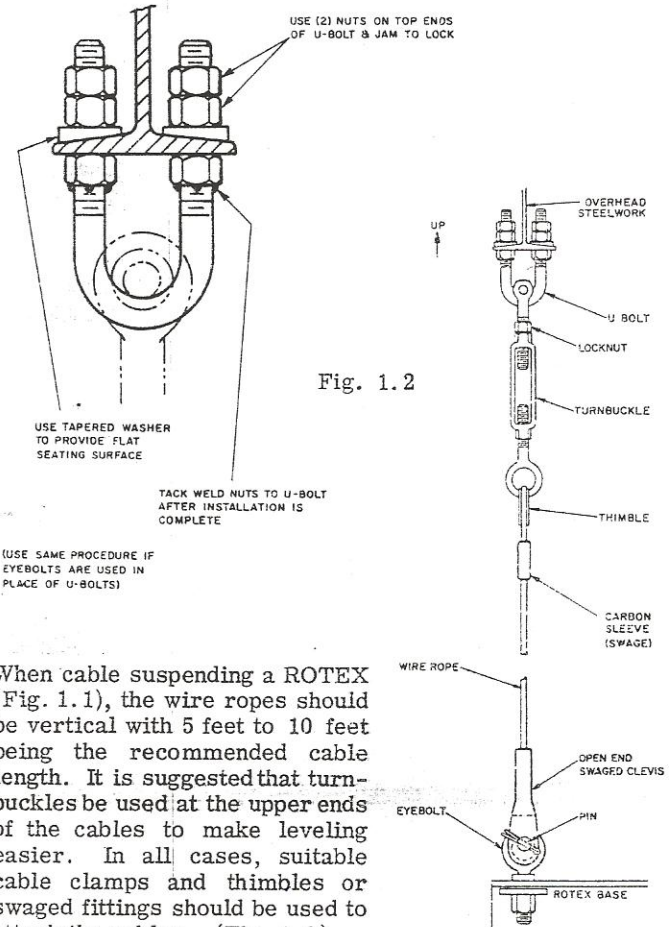


Fig. 1.2

When cable suspending a ROTEX (Fig. 1.1), the wire ropes should be vertical with 5 feet to 10 feet being the recommended cable length. It is suggested that turnbuckles be used at the upper ends of the cables to make leveling easier. In all cases, suitable cable clamps and thimbles or swaged fittings should be used to attach the cables. (Fig. 1.2)

The cables are connected to the screener with eyebolts or U-bolts located on the top flange of the base. If additional clearance is required, cross angles or "ears" welded to the base can be used. A minimum of three inches clearance should be provided around the base of the ROTEX to allow for machine swing during start-up or shut-down.

Note: Vibration dampeners are not suited for the low frequency, high amplitude operation of ROTEX Screeners. The above methods of installation in conjunction with the ROTEX counterbalanced drive, will provide satisfactory service.

### SLOPE

The ROTEX Screener is so constructed that the screening surface is inclined at a fixed four-degree angle relative to the base. The screener should be installed with the base leveled, except in those applications requiring an increase or decrease in the overall screening angle. Consult "Operation-Slope Adjustment" for these directions.