



Model RS-2 Reclaim Sifter

Serial Number _____

Provided By:



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RS-2 Portable Sifter Manual

Introduction

We are pleased to welcome you as a user of the American Fabric Filter Company's Model RS-2 Portable Reclaim Sifter. In conjunction with our partner company Sifter Parts & Service, Inc. we have developed an all stainless steel, portable batch sifter designed for small batch sifting. We truly believe this is the best machine possible for the job intended. High quality materials and engineering technology have combined to make this a simple machine to operate, maintain, assemble and dismantle. The sifter is virtually maintenance free and easy to sanitize. With reasonable care and attention, your vibratory sifter will provide you with many years of trouble free service.

This instruction manual will acquaint you with the easiest and most practical way to install, operate, and maintain your sifter. We suggest you read the entire manual before installing or operating the machine. Keep it handy for future reference and as a guide for ordering parts.

Application

The Model RS-2 portable sifter was developed for economical sizing and cleaning of granular products and materials. This small batch vibratory sifter is capable of screening up to 1,800 **pounds per hour** of flour on a 30 mesh screen and can be used to reclaim product lost to tailings or metal detection.

Components

The RS-2 sifter consists of the following:

- Rolling Platform
- Sifter Body
- Vibratory Motor
- Vibration Dampeners
- Insert Frame With Screen Mesh
- Gaskets
- Dust Chute
- Wall Mount (Optional)

See Diagram on Page 2

Check for Damage in Shipment

Since it is possible for machinery to be damaged in shipment, we recommend you check each item carefully with the shipping manifest. If any damage or shortage is found, call it to the attention of the carrier **immediately**. The carrier should make proper notation on the Bill of Lading. This will eliminate any discrepancy of responsibility when a claim is made and will facilitate prompt and satisfactory correction.

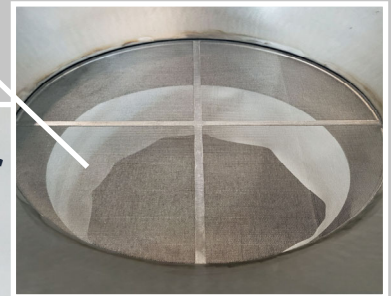
Great care was taken in the manufacture of this vibratory sifter. It was thoroughly inspected and tested at the correct operating speed and was in proper alignment when turned over to the carrier. The sifter was shipped assembled as a complete operating unit with a sifter mount and rolling stand.

RS-2 Sifter Components



Variable Speed Motor Controller

Stretch & Glued Screen Frames



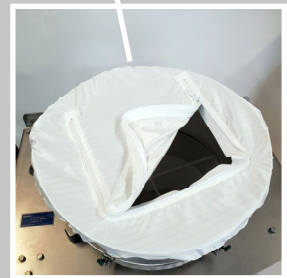
Batch Sift Up To 1800 lbs/hr



Waterproof 110V Vibrating Motor



Optional Dust Cover



Rolling Base

Optional Wall Mount



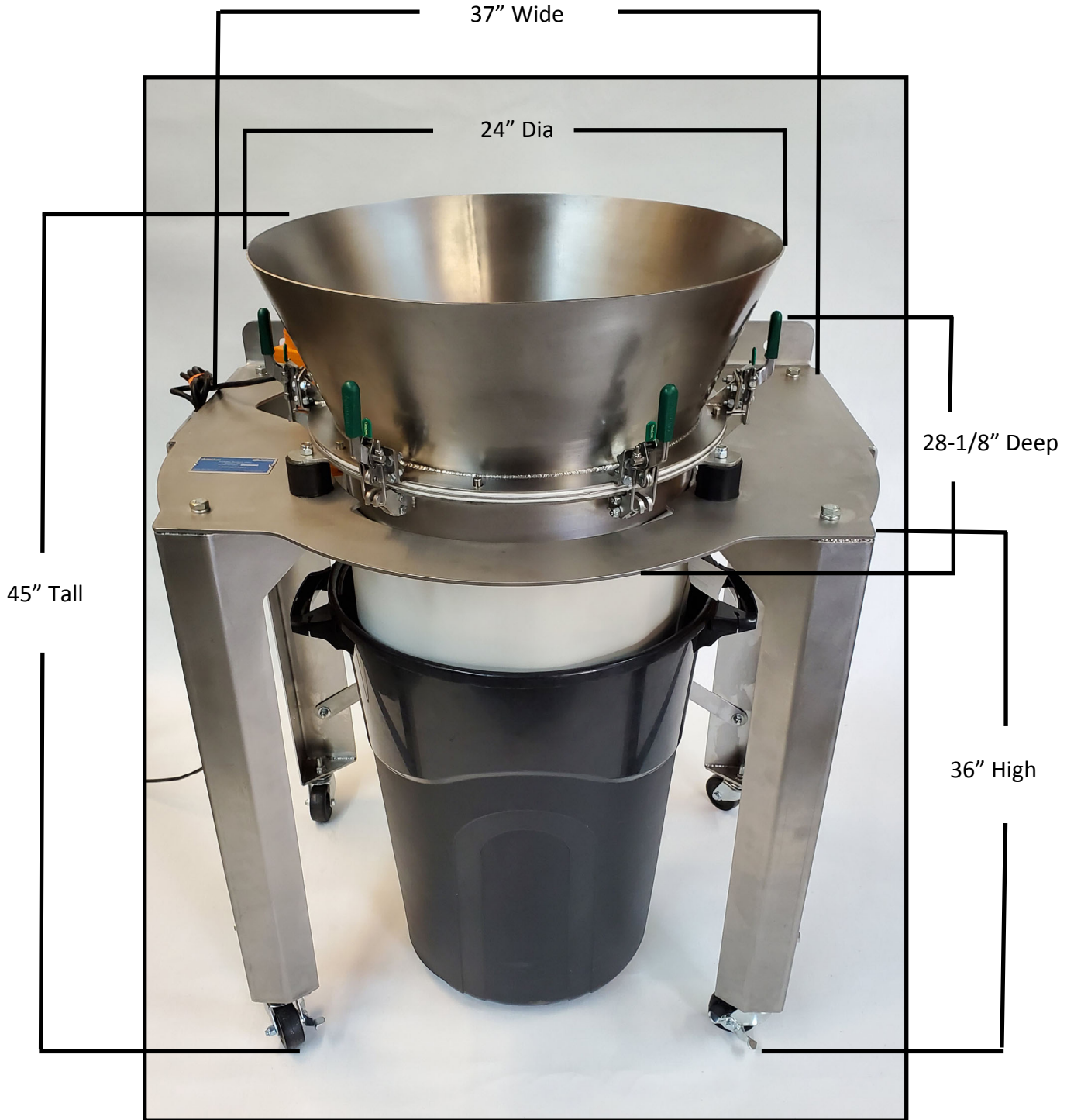
Quick Release Locking Hold down Clamps



RCN Dust Chute

RS-2 Reclaim Sifter

Dimension



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Handling

We suggest the sifter remain on its shipping skid until it is ready to be positioned. After the skid is removed, the sifter should be raised at each of the four legs simultaneously. Unlock the wheels to roll the sifter into position. Lock the wheels before placing in operation. If using optional wall mount. Anchor angle supports to wall then mount the sifter body.

Positioning the Sifter

Care should be taken to insure that both base & machine are completely level. This is important as the sifter will lose efficiency and capacity if it is not operated in a level position.

Starting

Before any attempt is made to run the RS-2 Portable Sifter, be sure to check the following points:

- All mounting and motor base bolts should be tight
- The floor stand must be level (if wall mounted make sure sifter bowl is level)
- Motor is connected to 110 electrical current source
- Sifter is grounded
- Check clearance between screen and all stationary members, such as spouts, hoppers, etc
- Sifter should be in operation before feed is allowed to enter the machine

Stopping

- Shut off feed to the sifter
- Turn off power to the motor
- Remove any oversized product
- Clean the sifter bowl, screen, frame and stand

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Maintenance & Sanitation Instruction

How to Install Screen Frame

- Unclamp top portion of sifter body and remove
- Position the screen frame so the holes around the edging are aligned with lower bowl assembly
- Inspect lower gasket to ensure it is clean and seated properly
- Install insert with screen mesh
- Inspect top gasket to ensure it is clean and seated properly
- Re-install top portion of sifter body using alignment pins and clamp (lock clamp in closed position to make re-install easier)

Screen Cloth

Screens are normally ordered by description rather than Part Number. The description should include:

- Mesh openings per linear inch.
- Type of material: wire, nylon, polyester, etc.

For standard specifications for screen cloth see Page 9

To insure that your sifter operates efficiently, it is necessary that the material to be screened is distributed evenly over the entire width of the screen. The velocity of the material as it enters the sifter should be reduced to a minimum in order to obtain the best screening results and prevent excessive wear of the screen's surface.

Screen Cleaners

There are a variety of screen cleaners available to clean the screen cloth under varying operating conditions. Call for details.

Sanitation Procedure

1. Unplug the motor from its outlet
2. Separate the top portion of sifter body and clean as needed
3. Remove the screen from the sifter and clean as needed
4. Remove the RCN dust chute. Clean sleeve as needed
5. Brush any remaining product from the sifter and stand

Optional Hose Down Procedure

Steps 1-5 same as above.

6. Disassemble the sifter bowl from the rolling platform by removing the lock nuts from the rubber vibration dampeners located under the (4) sifter mounts
7. Using hot water or steam, clean the entire unit
8. Allow sifter to dry thoroughly before placing back into operation

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Replacement Parts

It is recommended that the following replacement parts be kept on hand to minimize down time and consequent loss of production.

- Set of screen cloth and insert frame PN03004
- Set of Vibration Dampeners (4) Part#03009
- Gasket (1) Part#03006
- Clamp (1) Part#03010

Use of Catalog Numbers

To facilitate ordering replacement parts for the RS-2, itemize the parts, giving the quantity required, the description, and catalog number of each part. Special care in providing this information will avoid a delay in shipment. A listing of parts by description and part number is found at the back of this manual.

Instructions for Ordering Parts

When ordering parts, please provide the following information.

- Part Number
- Description of part
- Quantity required
- Shipping instructions.

Trouble Shooting & Tips

Constant operation will cause failures faster than a sifter that is run on an occasional basis.

Clean separations can best be obtained with a moderate and constant feed velocity. The feed rate to each newly installed machine should be carefully checked to give the maximum capacity with the cleanest separations.

If we can be of assistance in any **crushing, grinding, flaking, or screening problems**, please call, write or e-mail your American Fabric Filter Co. sales representative. They will be pleased to assist you in solving any of these problems.

Please visit www.AmericanFabricFilter.com for more information on this sifter, dustbags, transfer sleeves, etc.

Visit www.sifterparts.com for information on this sifter or the CS-1 Gyrotory Sifter for larger capacity screening applications.

Reclaim Sifter

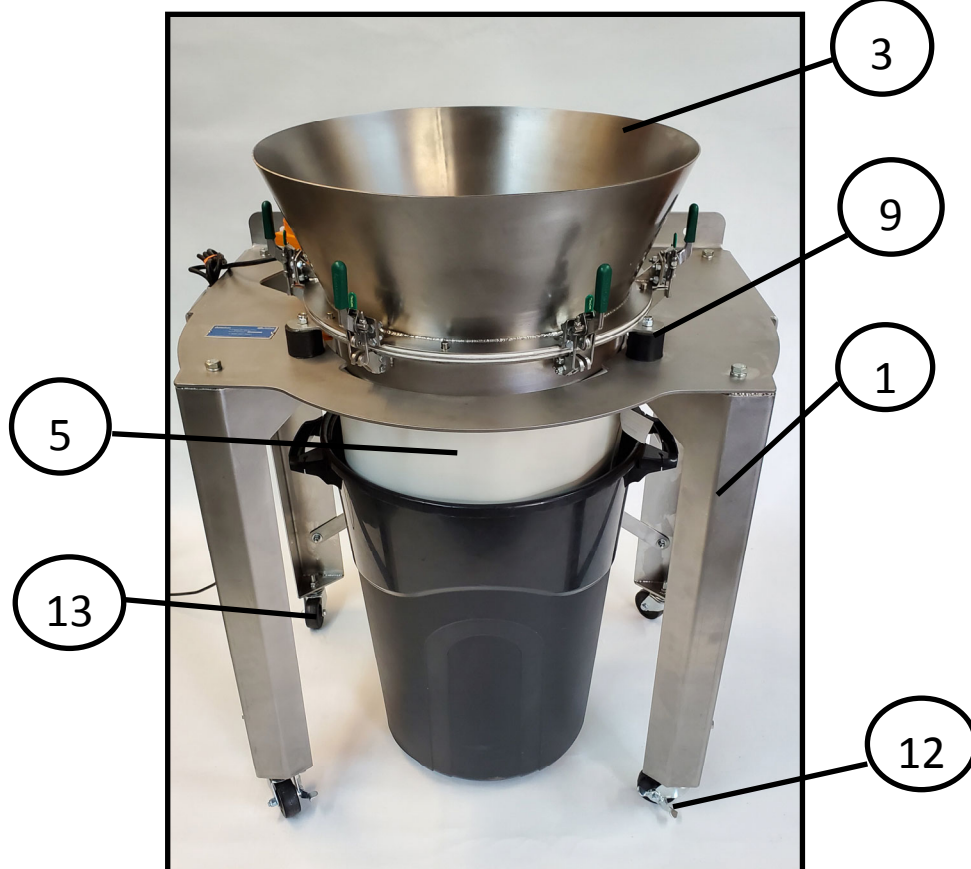
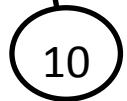
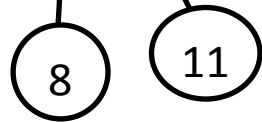
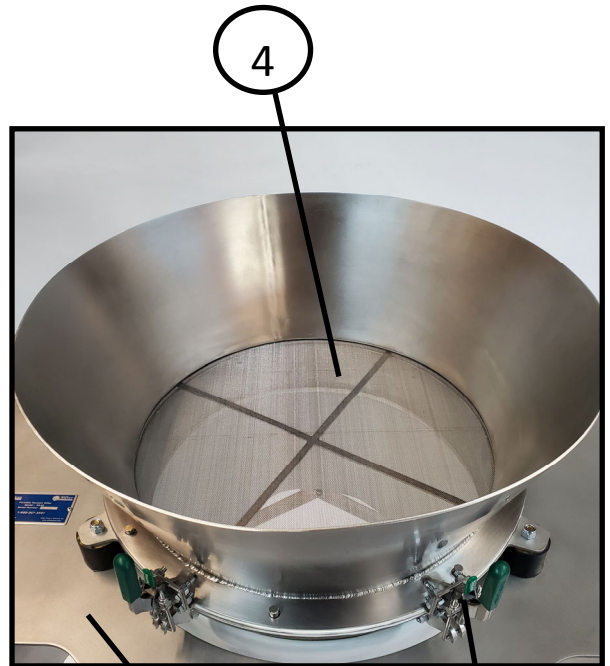
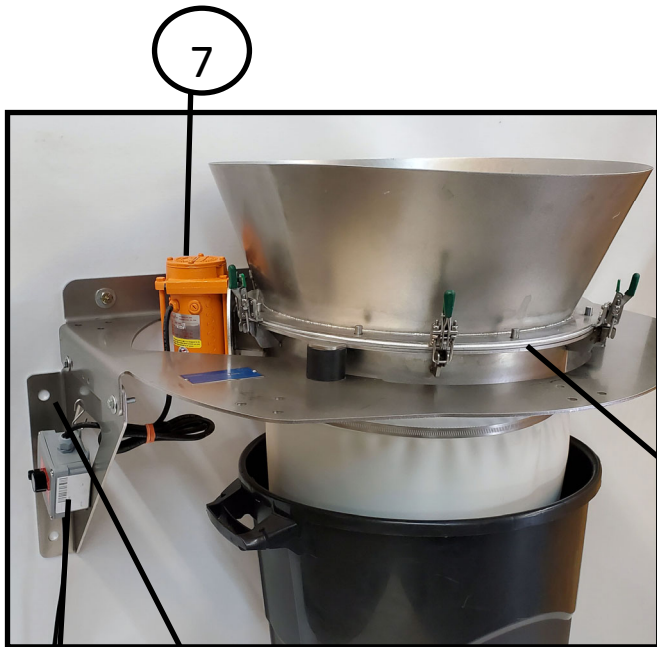
*Parts
List*

RS-2 Sifter Parts List

<u>Item #</u>	<u>Part#</u>	<u>Description</u>
1	03001	Leg Frame Assembly
2	03002	Sifter Main Plate
3	03003	Sifter Body
4	03004	Insert Frame/Screen
5	03005	RCN Transfer Sleeve
3	03006	White Nitrile Gasket
7	03007	Motor
8	03008	Remote Power Switch
9	03009	Neoprene Shock Mount
10	03010	Locking Hold Down Clamps
11	03011	Optional Wall Mount Plates
12	03012	Locking Wheels
13	03013	Non Locking Wheels
	03014	Optional Dust Cover
	03015	Motor Bolts 3/8-16 x 4-1/2" (4)
	03016	Motor Locking Nuts 3/8-16 (4)
	03017	3/8 Flat Washer (19)
	03018	Leg Bolts 3/8-16 x 1-1/4" (12)
	03019	Lock Washer 3/8 (19)
	03020	Shock Mount Bolt 3/8 x 5/8" (3)

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Parts List



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Bolting Cloth

Bolting cloth is woven of extremely smooth, durable stainless steel with a plain square mesh pattern. It features high capacity and strength. Widely used for accurate dry or wet sifting and separating, the primary fields of application of bolting cloth are flour and grain milling, food processing and general industry. Most sizes are stocked in 40", 48" and 60" widths.

Mesh Count	Wire Dia.	Dia. M.M.	Mesh Opg.	Opg.	% Open Area
14	0.0090	0.230	0.0620	1.580	76.4
16	0.0090	0.230	0.0535	1.361	73.3
18	0.0090	0.230	0.0466	1.184	70.2
20	0.0090	0.230	0.0410	1.041	67.2
22	0.0075	0.190	0.0380	0.965	69.7
24	0.0075	0.190	0.0342	0.869	67.2
26	0.0075	0.190	0.0310	0.787	64.8
28	0.0075	0.190	0.0282	0.716	62.4
30	0.0065	0.170	0.0268	0.681	64.8
32	0.0065	0.170	0.0248	0.630	62.7
34	0.0065	0.170	0.0229	0.582	60.7
36	0.0065	0.170	0.0213	0.541	58.7
38	0.0065	0.170	0.0198	0.503	56.7
40	0.0065	0.170	0.0185	0.470	54.8
42	0.0055	0.139	0.0183	0.465	59.1
43	0.0050	0.127	0.0183	0.465	61.6
44	0.0055	0.139	0.0172	0.437	57.4
46	0.0045	0.114	0.0172	0.437	62.9
46	0.0055	0.139	0.0162	0.412	55.8
48	0.0045	0.114	0.0163	0.414	61.5
48	0.0055	0.139	0.0153	0.389	54.2
50	0.0045	0.114	0.0155	0.394	60.1
50	0.0055	0.139	0.0145	0.369	52.6
52	0.0055	0.139	0.0137	0.349	51.0
54	0.0040	0.101	0.0145	0.368	61.5
54	0.0055	0.139	0.0130	0.330	49.4
56	0.0040	0.101	0.0138	0.351	60.2
58	0.0040	0.101	0.0132	0.335	59.0
60	0.0040	0.101	0.0127	0.323	57.8
62	0.0040	0.101	0.0121	0.307	56.5
64	0.0045	0.114	0.0111	0.282	50.7
66	0.0040	0.101	0.0112	0.285	54.2
70	0.0037	0.094	0.0106	0.269	54.9
72	0.0037	0.094	0.0102	0.259	53.8
74	0.0037	0.094	0.0098	0.249	52.7
76	0.0037	0.094	0.0095	0.241	51.7
78	0.0037	0.094	0.0091	0.231	50.6
80	0.0037	0.094	0.0088	0.224	49.6
84	0.0035	0.089	0.0084	0.213	49.8
88	0.0035	0.089	0.0079	0.201	47.9
90	0.0035	0.089	0.0076	0.193	47.8
94	0.0035	0.089	0.0071	0.180	45.0
105	0.0030	0.076	0.0065	0.165	46.9
120	0.0026	0.066	0.0058	0.147	47.3
135	0.0023	0.058	0.0051	0.129	47.4
145	0.0022	0.055	0.0047	0.119	46.4
165	0.0019	0.048	0.0042	0.106	47.1
200	0.0016	0.040	0.0034	0.086	46.2
230	0.0014	0.035	0.0029	0.073	46.0

Market Grades

High strength square mesh screens for industrial uses. Stainless steel, monel, brass, copper, aluminum, carbon steel.

Mesh Count	Wire Dia.	Dia. MM	Mesh Opg.	Opg.	% Open Area
2	0.0630	1.600	0.4370	11.100	76.4
3	0.0540	1.370	0.2790	7.090	70.1
3	0.0630	1.600	0.2700	6.860	65.6
4	0.0470	1.190	0.2030	5.160	65.9
4	0.0630	1.600	0.1870	4.750	56.0
5	0.0410	1.040	0.1590	4.040	63.2
5	0.0470	1.190	0.1530	3.890	58.5
6	0.0350	0.890	0.1320	3.350	62.7
6	0.0470	1.190	0.1200	3.050	51.5
7	0.0350	0.890	0.1080	2.740	57.2
8	0.0280	0.710	0.0970	2.460	60.2
8	0.0350	0.890	0.0900	2.290	51.8
8	0.0470	1.190	0.0780	1.980	38.9
10	0.0250	0.640	0.0750	1.910	56.3
10	0.0350	0.890	0.0650	1.650	42.3
10	0.0470	1.190	0.0530	1.350	28.1
11	0.0180	0.460	0.0730	1.850	64.5
12	0.0230	0.580	0.0600	1.520	51.8
12	0.0280	0.710	0.0550	1.400	43.6
14	0.0200	0.500	0.0510	1.300	51.0
16	0.0180	0.460	0.0445	1.130	50.7
16	0.0230	0.580	0.0395	1.000	39.9
18	0.0170	0.430	0.0386	0.980	48.3
20	0.0160	0.410	0.0340	0.860	46.2
20	0.0230	0.580	0.0270	0.690	29.2
24	0.0140	0.360	0.0277	0.700	44.2
30	0.0120	0.310	0.0213	0.540	40.8
35	0.0110	0.280	0.0166	0.450	33.8
40	0.0100	0.250	0.0150	0.380	36.0
50	0.0090	0.230	0.0110	0.280	30.3
60	0.0075	0.191	0.0092	0.230	30.5
80	0.0055	0.194	0.0070	0.180	31.4
100	0.0045	0.114	0.0055	0.140	30.3
120	0.0037	0.094	0.0046	0.117	30.5
150	0.0026	0.066	0.0041	0.104	37.9
180	0.0023	0.058	0.0033	0.084	34.7
200	0.0021	0.053	0.0029	0.074	33.6
250	0.0016	0.041	0.0024	0.061	36.0
270	0.0016	0.041	0.0021	0.053	32.2
325	0.0014	0.036	0.0017	0.043	30.5
400	0.0010	0.025	0.0015	0.038	36.0
500	0.0010	0.025	0.0010	0.025	25.0

Mill Grade Screens

Mill grade screens, of tinned **annealed steel** or **stainless steel**, are especially suited for food processing applications such as flour milling and sifting; seed and feed sifting, etc.

The smooth, polished surfaces of these screens minimize chances of clogging during operation.

Mesh Count	Wire Dia.	Dia. M.M.	Mesh Opg.	Opg. M.M.	% Open Area
2	0.0540	1.370	0.4460	11.330	79.6
3	0.0410	1.040	0.2923	7.420	76.7
4	0.0350	0.890	0.2150	5.460	74.0
5	0.0320	0.810	0.1680	4.270	70.6
6	0.0280	0.710	0.1387	3.530	69.6
7	0.0280	0.710	0.1149	2.920	64.8
8	0.0250	0.640	0.1000	2.540	64.0
9	0.0230	0.580	0.0881	2.240	62.7
10	0.0200	0.510	0.0880	2.030	64.0
11	0.0200	0.510	0.0709	1.800	61.0
12	0.0180	0.460	0.0653	1.650	60.8
14	0.0170	0.430	0.0544	1.370	57.2
16	0.0160	0.410	0.0465	1.180	55.4
18	0.0150	0.380	0.0406	1.030	53.4
20	0.0140	0.360	0.0360	0.910	51.8
22	0.0135	0.340	0.0320	0.810	49.6
26	0.0110	0.280	0.0275	0.700	51.1
28	0.0100	0.250	0.0257	0.650	51.8
30	0.0095	0.240	0.0238	0.610	51.0
32	0.0090	0.230	0.0223	0.570	50.9
34	0.0090	0.230	0.0204	0.520	48.1
36	0.0090	0.230	0.0188	0.480	45.8
38	0.0085	0.220	0.0178	0.450	45.8
40	0.0085	0.220	0.0165	0.420	43.6
45	0.0090	0.230	0.0132	0.340	35.3
50	0.0075	0.190	0.0125	0.320	39.1
60	0.0065	0.170	0.0102	0.260	37.5
70	0.0065	0.170	0.0078	0.190	29.8