

# Square Tumbler Screen Mesh

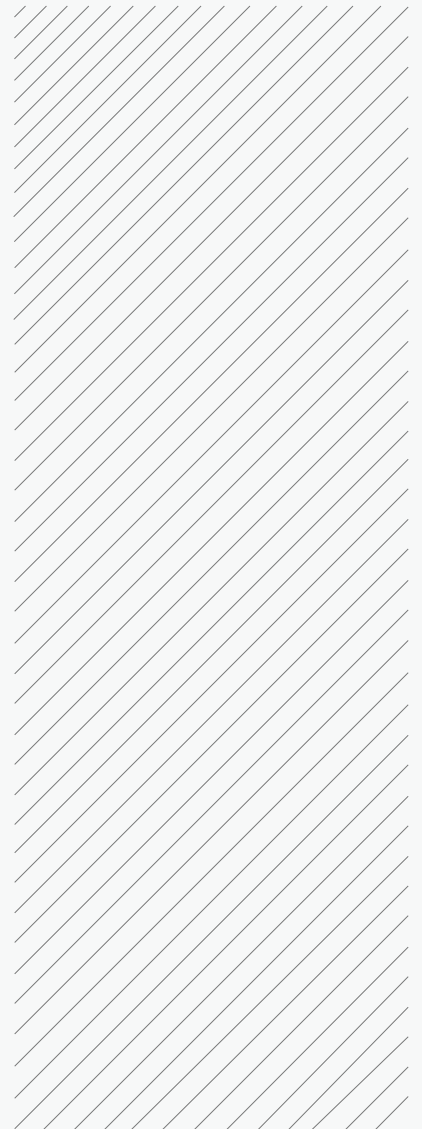
Weave Impossible to Possible



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# BOEDON Brochure

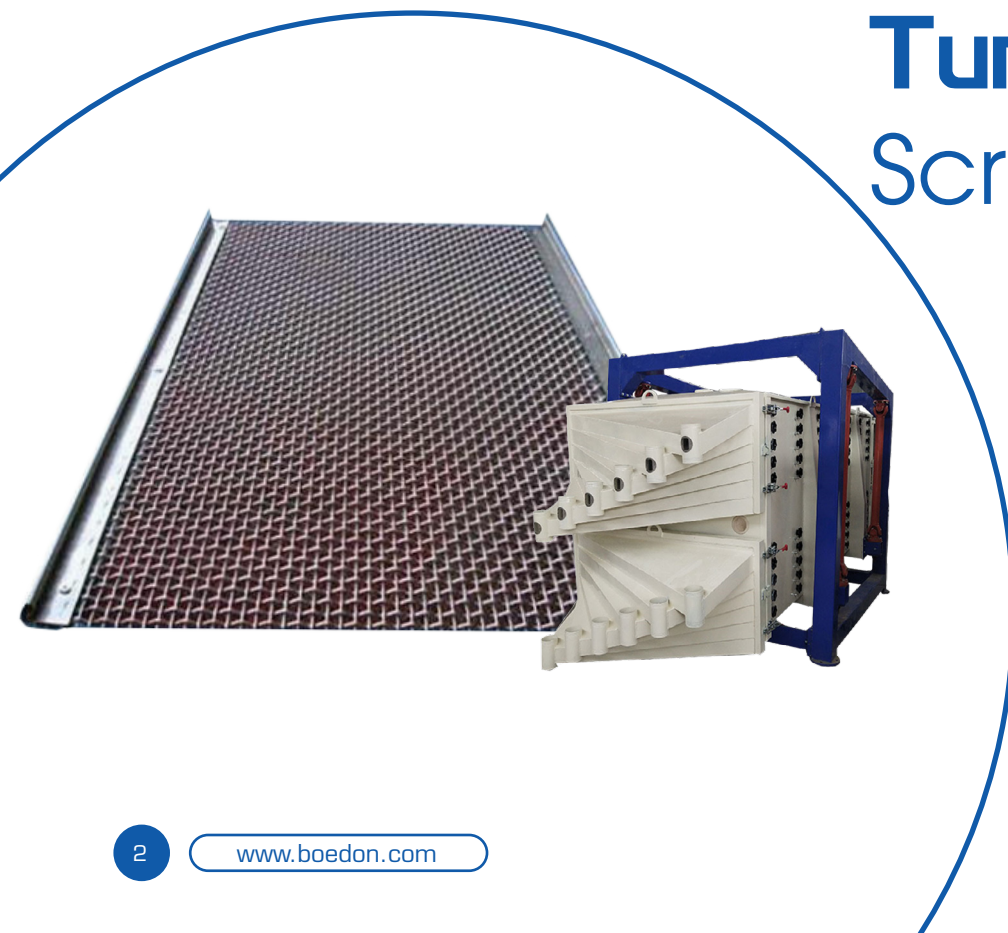


**We offer square tumbler screen mesh based on the the reciprocating inertia force to meet our customers demands on high output and high precision screening.**

Square tumbler screen mesh is a kind of high performance stainless steel mesh installed on square vibrating screen machine. It is widely used for grading, filtering and removing impurities in chemical, oil fracturing sand production lines, metallurgy, non-ferrous metals, non-ferrous metals, food, abrasives industries, etc.

It is also known as reciprocating vibrating screen mesh or precision vibrating screen mesh. The vibration force of swing vibration tumbler screen generated by the motor drive device is an inertial force that changes in a certain pattern. The screening motion is a reciprocating inertial force generated by the rotation of the eccentric wheel driven by the motor around a fixed axis. According to the structural characteristic and working principle, the screen surface is generally horizontal or slightly inclined ( $0^{\circ}$ – $5^{\circ}$ ) to achieve the effect of precision screening.

# Square Tumbler Screen Mesh

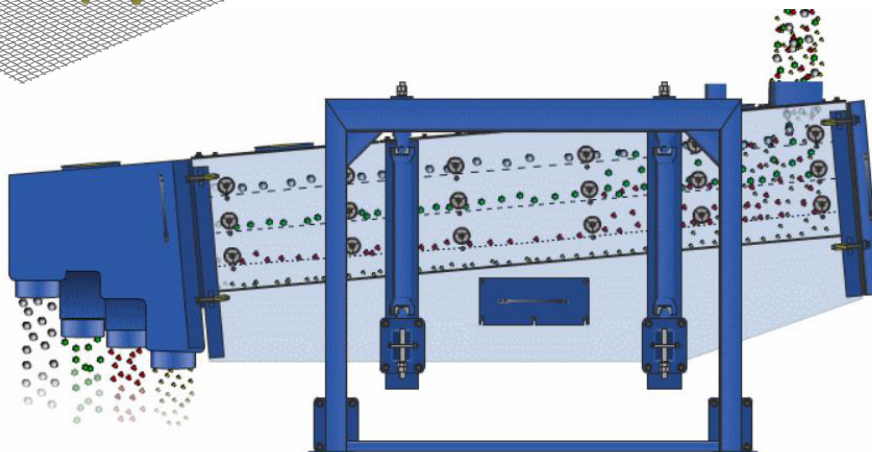
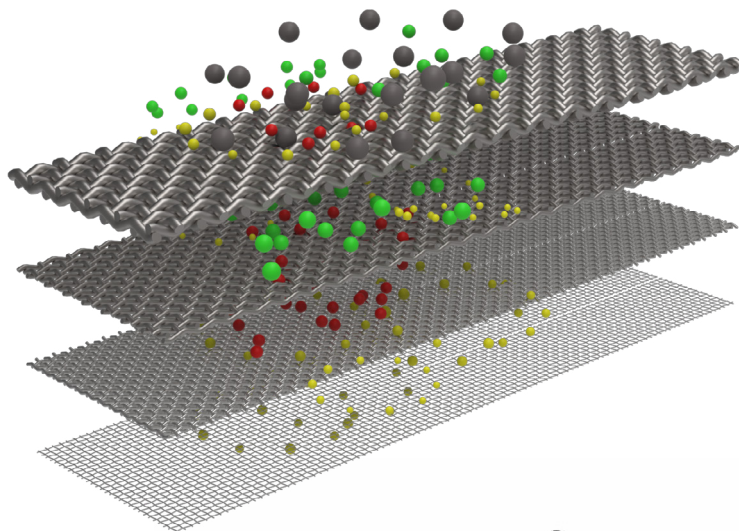


SQUARE TUMBLER SCREEN MESH

# Working Principle

Square tumbler screen mesh can be provided in 1–10 layers to effectively sieve materials.

When the square tumbler screen is activated, the shaking body of the screen machine, namely the screen box, will reciprocate back and forth under the action of inertial force. The screen box drives the screen surface to periodically shake, so that the material on the screen surface will do a directional jump with the screen box. During the movement, the materials smaller than the sieve surface aperture fall to the lower layer through the sieve holes and become under the sieve. The materials larger than the sieve surface aperture are discharged from the discharge after continuous tumbling and jumping motion to complete the screening work.



SQUARE TUMBLER SCREEN MESH

# Specification

**Sieve screen material:** stainless steel 304, 304L, 316, 316L

**Manufacturing process:** weaving

**Wire diameter:** 0.053–1.6 mm

**Mesh:** 3-200 mesh

**Aperture width:** 0.074–6.87 mm

**Open area:** 34% – 65.8%

Mesh Count	Wire Diameter (mm)	Aperture Width (mm)	Open Area (%)	Mass (kg/m <sup>2</sup> )	Aperture Quantities/cm <sup>2</sup>
200	0.053	0.074	34	0.281	6200
200	0.05	0.08	37.9	0.244	6200
188	0.055	0.08	35.1	0.285	5478
170	0.055	0.094	39.8	0.258	4480
150	0.071	0.1	34.6	0.366	3488
154	0.065	0.1	36.7	0.325	3676
200	0.03	0.1	61	0.078	6200
150	0.06	0.11	41.9	0.269	3488
130	0.08	0.112	34	0.423	2620
140	0.06	0.12	44.4	0.254	3038
120	0.09	0.12	32.7	0.49	2232
124	0.08	0.125	37.2	0.396	2383
110	0.09	0.14	37.1	0.447	1876
106	0.1	0.14	34	0.529	1742
100	0.11	0.14	31.4	0.615	1550
100	0.1	0.15	36	0.508	1550
100	0.1	0.16	37.9	0.488	1550
91	0.12	0.16	32.7	0.653	1284
80	0.14	0.18	31.6	0.784	992
84	0.1	0.2	44.4	0.42	1094
79	0.12	0.2	39.1	0.572	967
77	0.13	0.2	36.7	0.65	919
46	0.15	0.4	52.9	0.505	328
70	0.1	0.261	52	0.354	760
65	0.1	0.287	54.6	0.331	655
61	0.11	0.306	53.6	0.307	577

Mesh Count	Wire Diameter (mm)	Aperture Width (mm)	Open Area (%)	Mass (kg/m <sup>2</sup> )	Aperture Quantities/cm <sup>2</sup>
56	0.11	0.341	56.8	0.283	486
52	0.12	0.372	56.8	0.374	419
47	0.12	0.421	60.3	0.342	342
42	0.13	0.472	61.2	0.306	273
40	0.2	0.44	46.9	0.75	248
40	0.25	0.39	36.8	1.18	248
35	0.25	0.5	44.4	1.03	189.9
30	0.25	0.6	49.7	0.88	139.5
30	0.3	0.55	41.7	1.27	139.5
24	0.36	0.7	43.5	1.46	89.28
20	0.3	0.97	58.3	0.85	62
20	0.35	0.92	52.5	1.15	62
20	0.4	0.87	46.9	1.5	62
20	0.5	0.77	36.8	2.35	62
18	0.4	1.01	51.3	1.35	50.22
18	0.5	0.91	41.7	2.12	50.22
16	0.4	1.19	56	1.2	39.68
16	0.5	1.09	46.9	1.88	39.68
14	0.5	1.31	52.5	1.65	30.38
12	0.4	1.72	65.8	0.9	22.32
12	0.5	1.62	58.3	1.41	22.32
12	0.65	1.47	48	2.38	22.32
10	0.4	2.14	71	0.75	15.5
10	0.5	2.04	64.5	1.18	15.5
10	0.6	1.94	58.3	1.69	15.5
8	0.7	2.48	60.8	1.84	9.92
8	1	2.18	46.9	3.76	9.92
8	1.2	1.98	38.7	5.41	9.92
6	0.9	3.33	62	2.28	5.58
6	1.2	3.03	51.3	4.06	5.58
5	1.2	3.88	58.3	3.38	3.88
5	1.6	3.48	46.9	6.02	3.88
4	1.2	5.15	65.8	2.71	2.48
4	1.6	4.75	56	4.81	2.48
3.6	2	5.06	51.3	6.77	2.01
3	1.6	6.87	65.8	3.61	1.4



# Features & Application

## Features

- Large effective screening area
- The material moves on the screen for a long time to ensure the screening accuracy
- Adopt high-efficiency cleaning screen device to prevent clogging of screen holes
- With a unique structural design, it supports easy replacement of screens and reduces maintenance
- Airtight dust removal, safe operation and low noise
- 1–5 layer design (up to 10 layers), and can get finished products of various sizes in one time.

## Application



### Chemical

- Resin
- Coating
- Paint
- Industrial drugs, etc.



### Metallurgy

- Aluminium powder
- Lead powder
- Copper powder
- Alloy powders, etc.



### Food

- Powdered sugar
- Starch
- Salt
- Rice noodles, etc.



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