



BASE
ENGINEERING



Manufacturer and Exporter of :

**VIBRATORY
SEPARATORS**





INTRODUCTION

- Base Engineering is a leading manufacturer and exporter of Round Vibratory Separators, based in Vasai, near Mumbai. With a strong reputation for quality and engineering excellence, we specialize in solutions designed to meet the stringent needs of the pharmaceutical and food industries.
- Certifications and Compliance:
 - * ISO 9001:2015 and ISO 14001:2015 certified for Quality and Environmental Management Systems.
- Certified by TUV NORD to manufacture:
 - * CE marked separators for European compliance.
 - * ATEX certified separators for use in explosive environments.
- Certified to manufacture 3-A marked sanitary separators, complying with: 3-A Sanitary Standards, approved by ANSI (American National Standards Institute). Developed in collaboration with USFDA, USDA, USPHS, and EHEDG.
- Export Recognition:
 - * Recognized as a One Star Export House by the Directorate General of Foreign Trade (DGFT), Ministry of Commerce & Industry, Government of India.
 - * Recipient of EEPC India's Export Excellence Awards for five consecutive years, acknowledging our outstanding performance in global markets.



ENGINEERING EXCELLENCE



BASE SEPARATORS

Base Engineering manufactures various models of Round Vibratory Separators as 18", 24", 30", 36", 40", 48", 60" and 72". We also manufacture Flow Through Separators, Maximizing Separators, Scalper, Bag dumpers in all sizes as stated above. We can also manufacture special purpose separators as per Client design, concept.



GLASS BEAD FINISH



MIRROR BUFFED FINISH



MATT BUFFED FINISH

SOME OF THE GENERAL INDUSTRIAL APPLICATION OF ROUND SEPARATOR :



ABRASIVES



ANIMAL FEED



BREWERY & DISTILLERIES



CHEMICAL & PETRO
CHEMICALS



CHINA CLAY / KAOLINE



CONFECTIONARY



DAIRY



FOOD



FRUIT JUICES



FOOD GRAINS



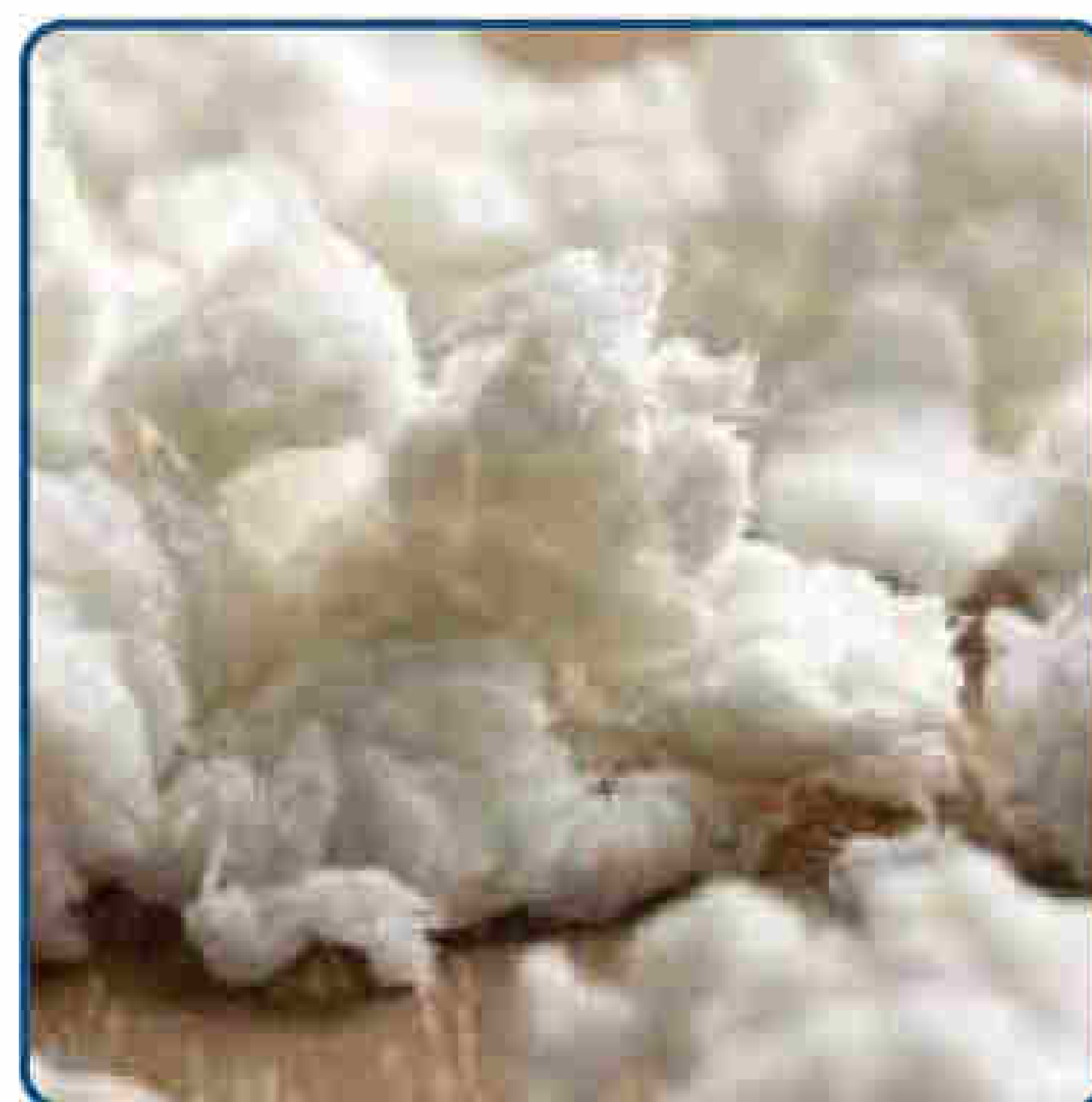
METAL & MINERAL



OIL INCLUDING PALMOIL



PAINT



PAPER & PULP



PHARMACEUTICAL



PLASTIC



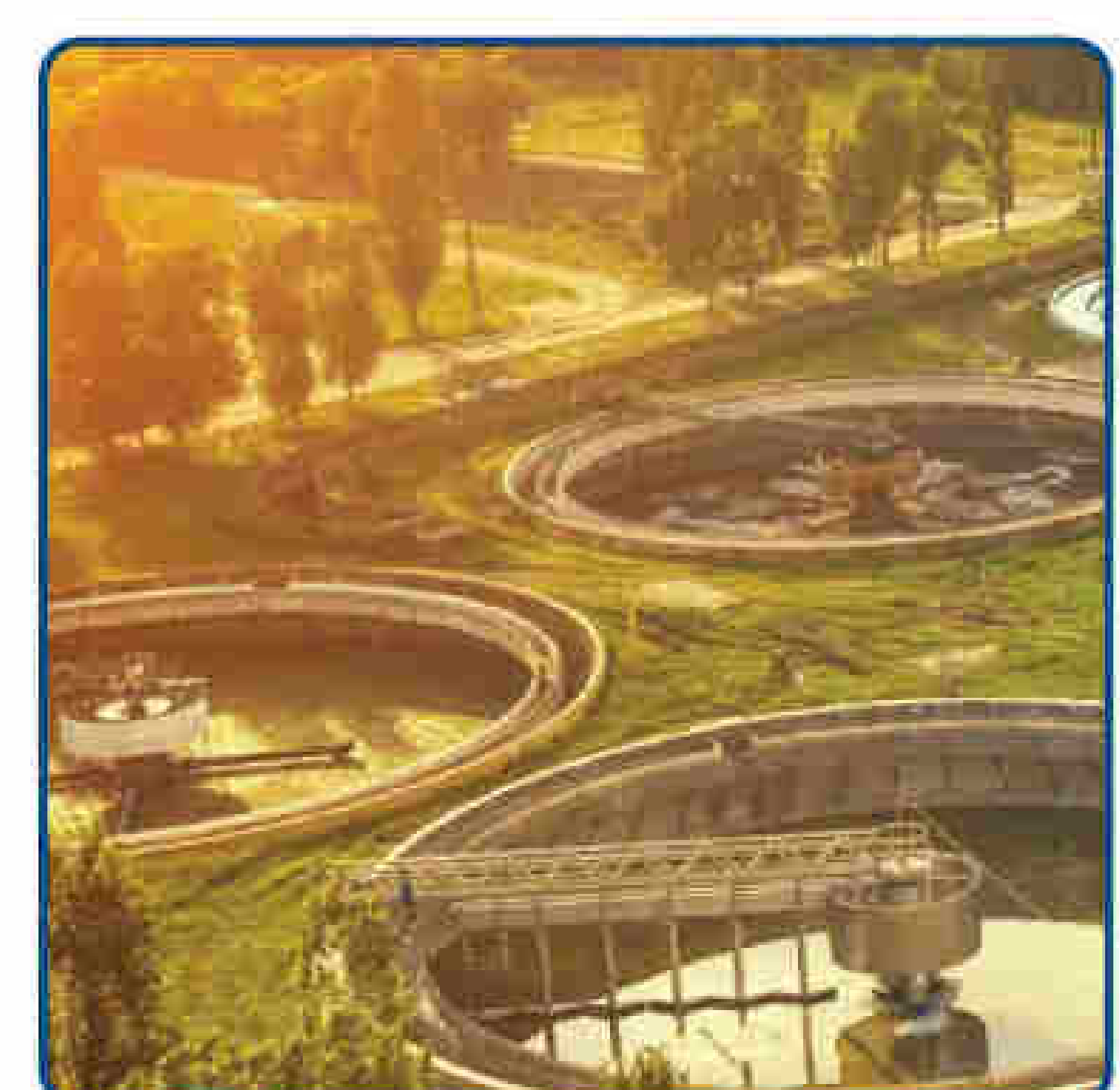
SALT



SAND



SUGAR



WASTE WATER

DISTINCTIVE FEATURES & ADVANTAGES OF BASE SEPARATORS:

- We are a unique company who can offer CE, or ATEX separators with 3-A Sanitary certification in India.
- Wide Range of material screened.
- Long Screen life
- Screens bonded with US FDA certified Glue.
- Single or Multiple Separation.
- High Capacity.
- High Efficiency.
- Less Blinding
- Separators may be mounted without foundation.
- Less vibration transmitted to Foundation implying Lighter support Structure.
- No Tool weight Adjustment.
- Quick Change Clamping mechanism.
- Separators manufactured in SS304, SS316, SS316L, SS321, duplex steel or other special material.
- Low Maintenance.
- Can be tailor made to suit your application or your layout.
- Ultrasonic system can be provided for Fine Powders.
- Long Life of machine.



TYPES OF BASE SEPARATORS

ROUND VIBRATORY SEPARATOR:

Segregates Dry Material into Various sizes. It can also be used for separating Solids from Liquids.

PHARMACEUTICAL AND FOOD INDUSTRY SEPARATORS:

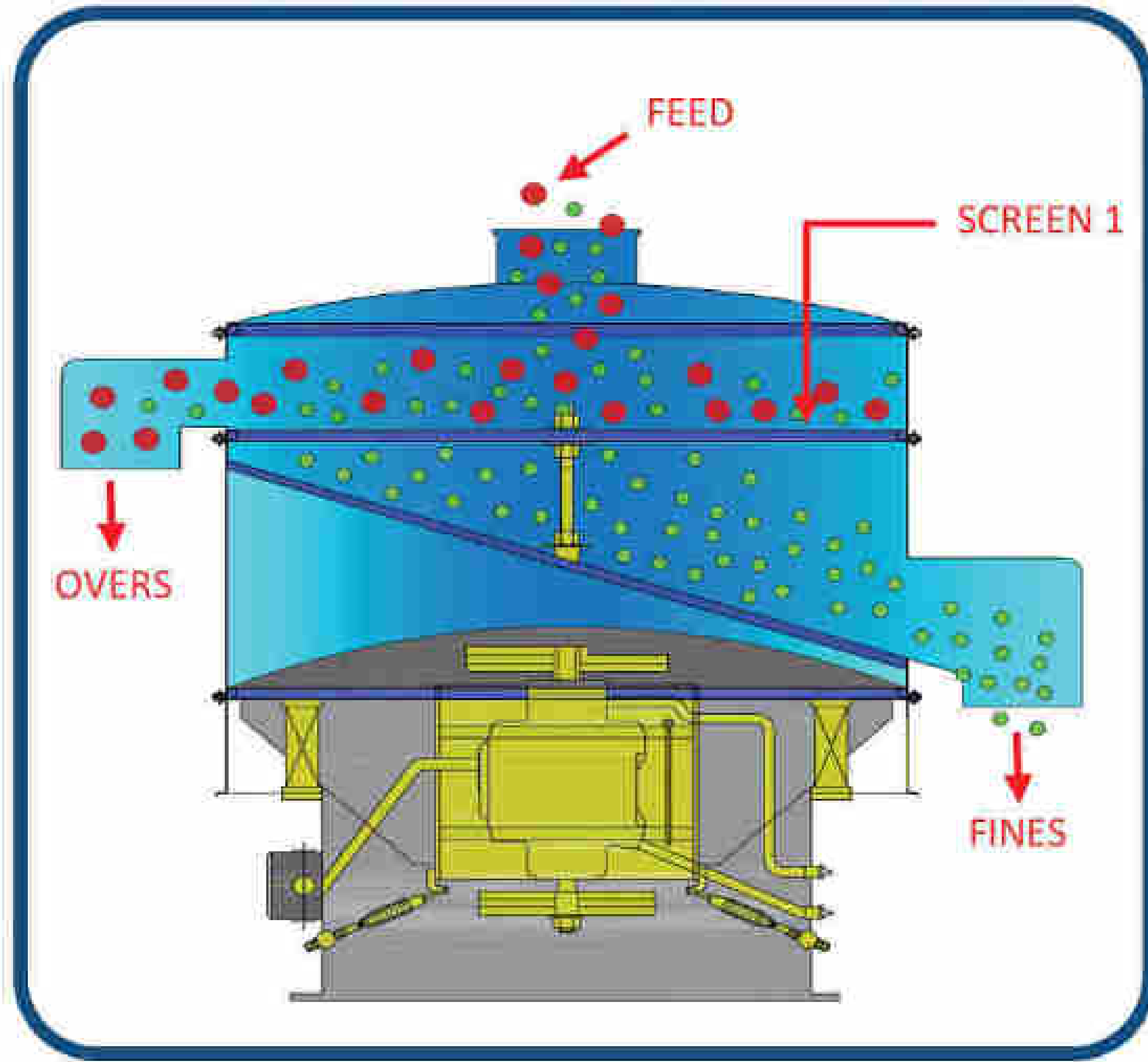
Separator are either in SS316 or SS304. The unit are Mirror polished to 220 Grit ($Ra\ 0.48\mu m$) or finer finish. This separator can also be mounted on trolley.

We can offer 3-A marked Sanitary separators for Food and Pharmaceutical application.

These separators can also be supplied with Magnetic separator installed on machine.

We can also supply this Separator with Silicone Flat Screen. Or Silicone moulded 'Z' Screen.



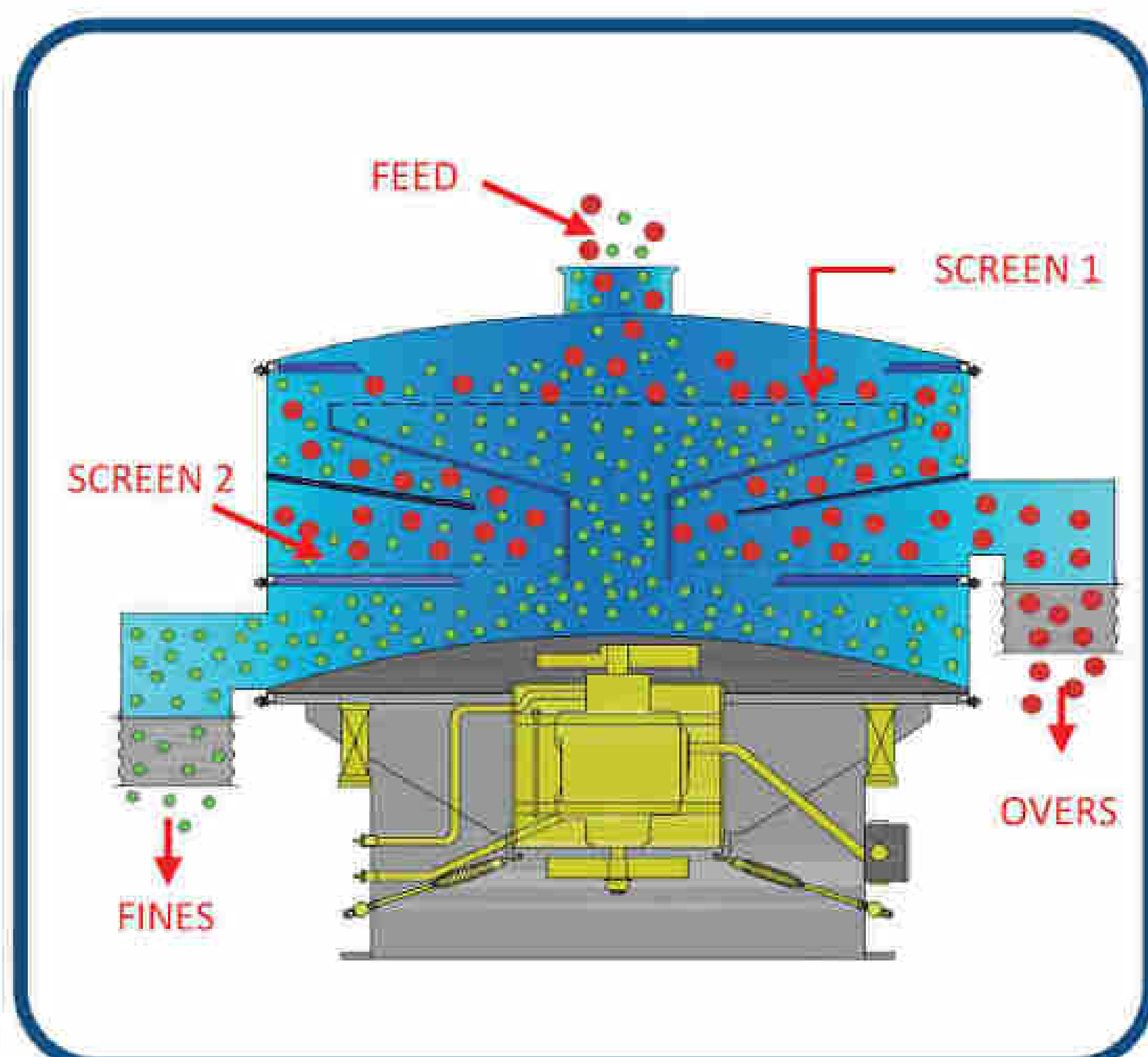
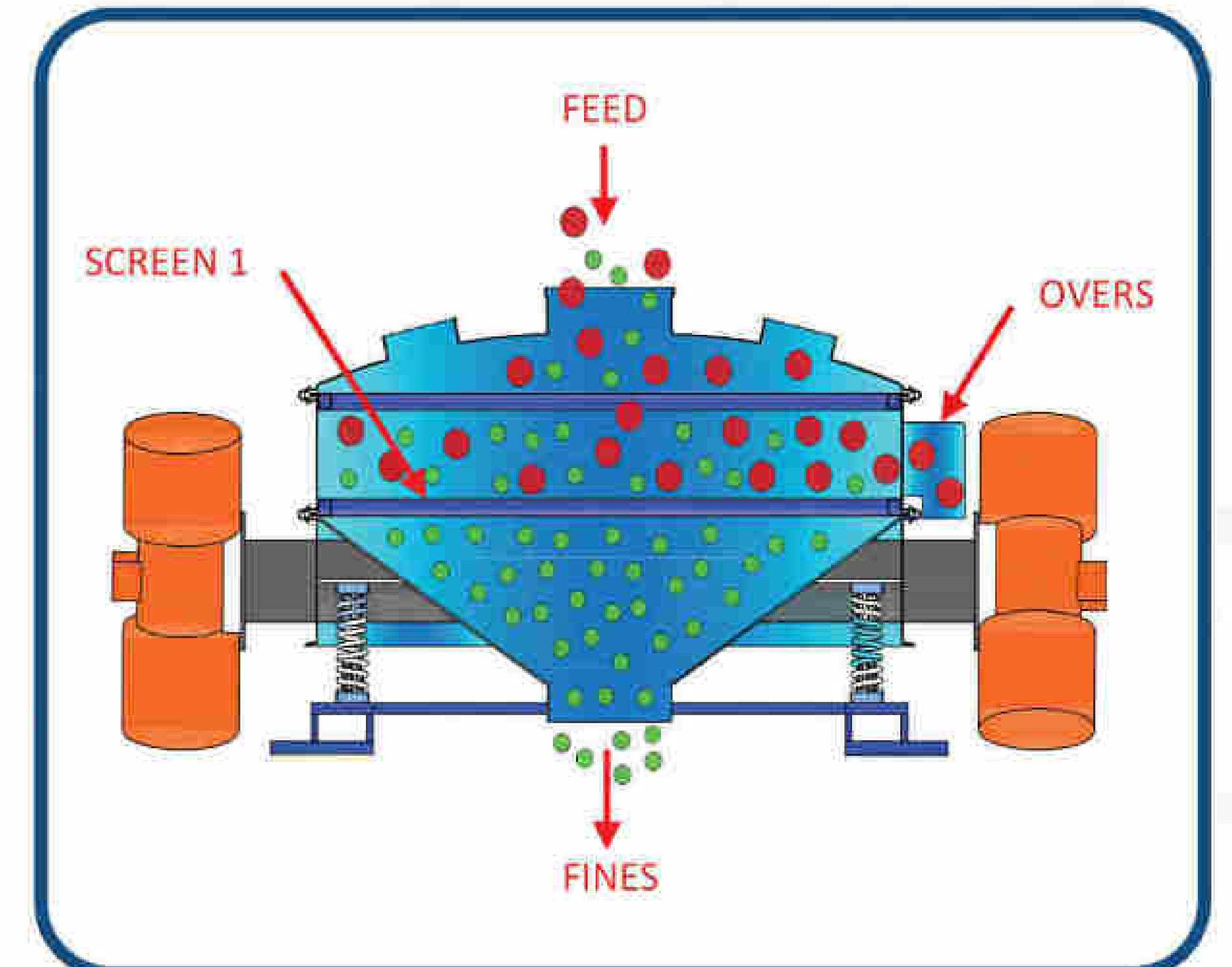


SCALPER:

Used for removing of small quantity of oversize for high throughput Application.

FLOW THROUGH SEPARATOR:

Used for high capacity scalping application for particle screening & where headroom is less. Normally oversize for screening on flow through separator should be less.



MAXIMIZING SEPARATOR:

It increases effective screen area by around 50%. The deck comprises of smaller screen on top with larger screen below.

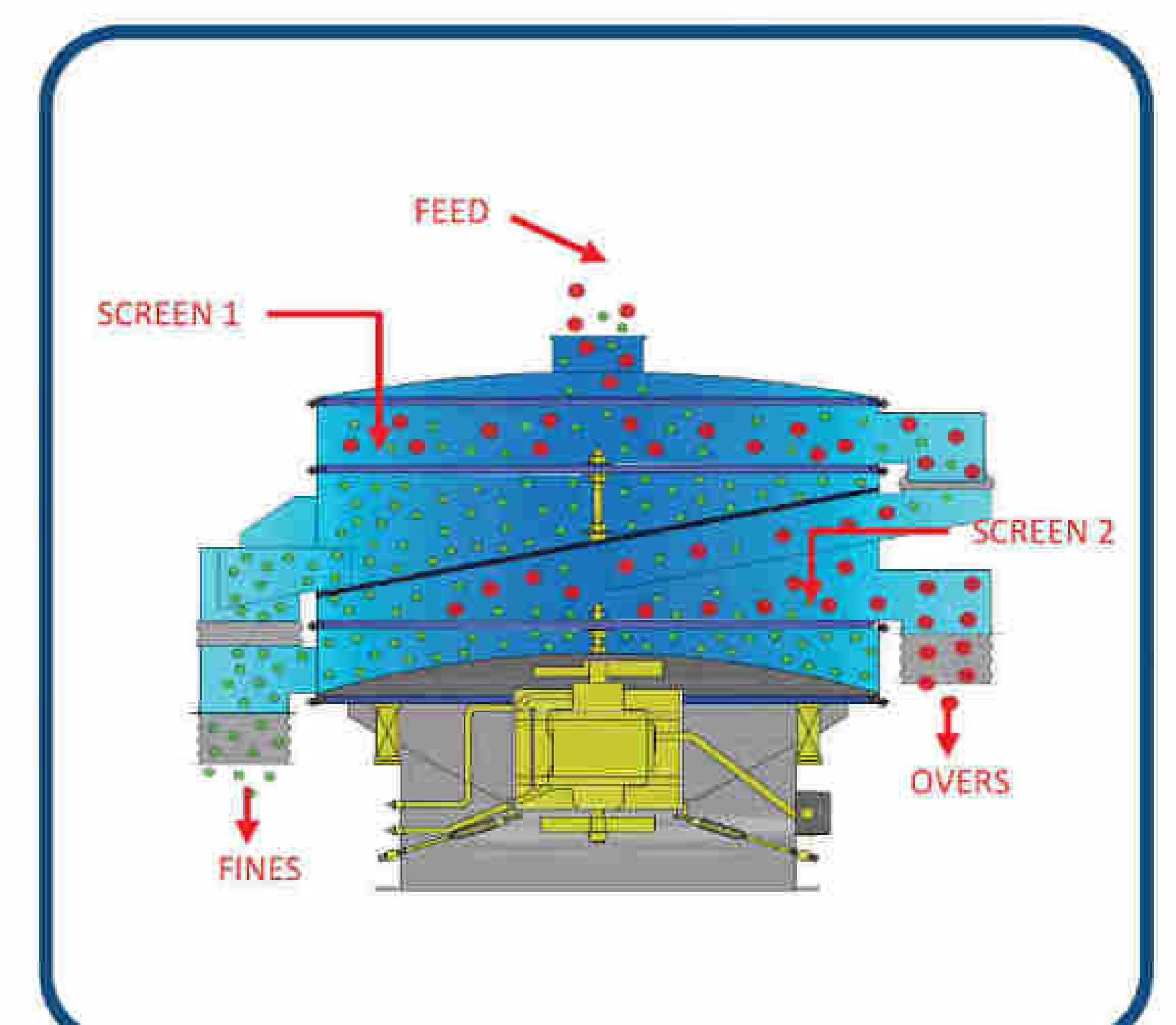
Undersize either passes through the smaller screen or falls on to lower screen from sides to be rescreened on lower screen.

- Higher Capacity – Up to 1.5 times more than corresponding regular separator with one screen.
- Better Efficiency due to double screening.
- Less space required for given capacity

SERIES FEED SEPARATOR:

Screening area is doubled due to two screen of same size.

- Higher Capacity.
- Better Efficiency due to double Screening.
- Less Space Occupied for given capacity.





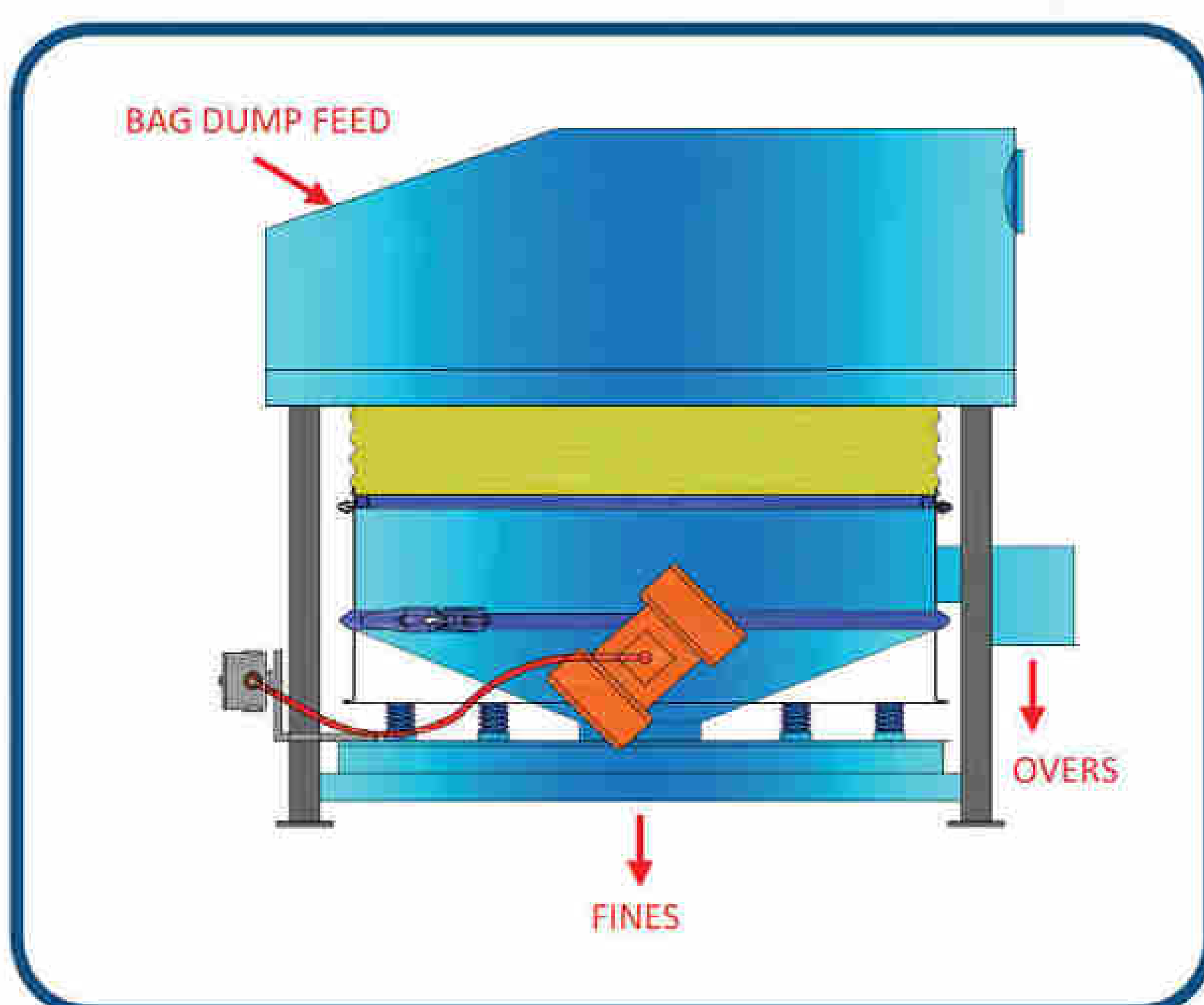
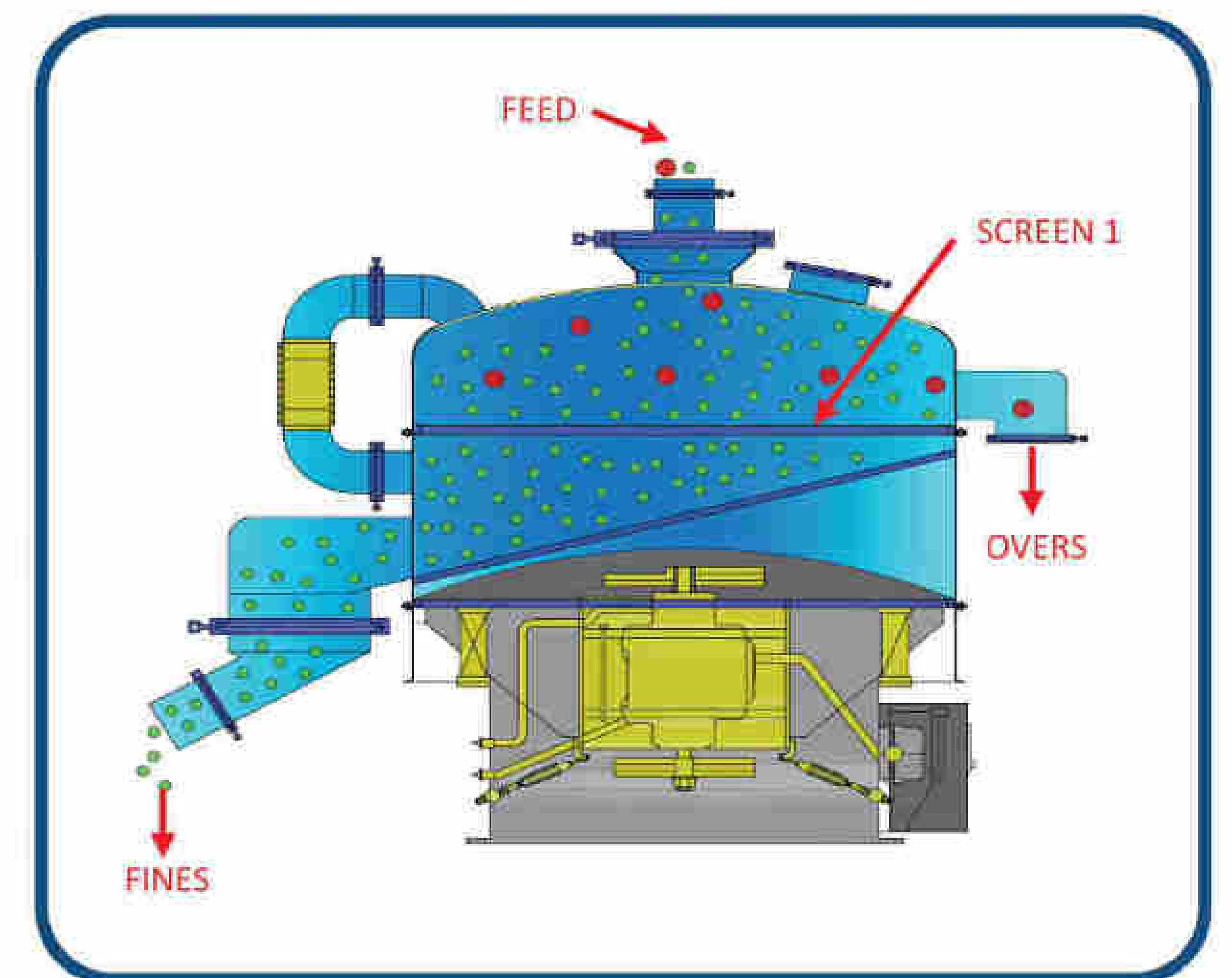
ULTRASONIC SEPARATOR:

Ultrasonic Screen is fitted with transducer for creating ultrasonic vibration of 36 kHz which prevents blinding on fine meshes.

INLINE SEPARATOR:

Used to screen material conveyed by vacuum powder transfer system or pneumatic conveying. Oversize for this application should be negligible.

Separator with powder transfer system results in high capacity.



BAG DUMPER:

For Feeding Product from 25 Kg to 50 Kg Bags directly on flow through Separator. We can also design bag dumper for higher bag capacity.



**72" DOUBLE DECK
MAXIMIZING SEPARATOR**



**30" SINGLE DECK SCALPER
WITH BFM FITTING**

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**72" SINGLE DECK
SCALPER SEPARATOR**



**72" SINGLE DECK SCALPER
WITH BALL DECK FRAME**



60" SERIES FEED SEPARATOR



**30" SINGLE DECK PHARMACEUTICAL
SEPARATOR MOUNTED ON TROLLEY**



**30 " PHARMACEUTICAL FLOW
THROUGH SEPARATOR**



**BAG DUMPING STATION WITH
FLOW THROUGH SEPARATOR**



FLEXIBLE CONNECTOR



**US FDA COMPATIBLE GLUED
SCREENS**

WIRE MESH CHART

Mesh	SWG	Diameter of Wire		Size of Opening			Approx Percentage Open Area	Mesh	SWG	Diameter of Wire		Size of Opening			Approx Percentage Open Area
		Inch	MM	Inch	MM	Micron				Inch	MM	Inch	MM	Micron	
4	12	0.104	2.640	0.146	3.710	3.710	34.14	18	25	0.020	0.500	0.036	0.911	911	41.69
4	13	0.092	2.340	0.158	4.010	4.010	39.98	18	26	0.018	0.450	0.038	0.961	961	46.39
4	14	0.080	2.030	0.170	4.320	4.320	46.28	18	27	0.016	0.400	0.040	1.011	1.011	51.34
4	15	0.072	1.830	0.178	4.520	4.520	50.67	18	28	0.015	0.370	0.041	1.041	1.041	54.43
4	16	0.064	1.630	0.186	4.720	4.720	55.25	20	24	0.022	0.550	0.028	0.720	720	32.14
4	17	0.056	1.430	0.194	4.920	4.920	60.03	20	25	0.020	0.500	0.030	0.770	770	36.76
4	18	0.048	1.220	0.202	5.130	5.130	65.27	20	26	0.018	0.450	0.032	0.820	820	41.69
5	14	0.080	2.030	0.120	3.050	3.050	36.05	20	27	0.016	0.400	0.034	0.870	870	46.93
5	15	0.072	1.830	0.128	3.250	3.250	40.93	20	28	0.015	0.370	0.035	0.900	900	50.22
5	16	0.064	1.630	0.136	3.450	3.450	46.12	20	29	0.013	0.340	0.037	0.930	930	53.62
5	17	0.056	1.430	0.144	3.650	3.650	51.62	20	30	0.012	0.310	0.038	0.960	960	57.14
5	18	0.048	1.220	0.152	3.860	3.860	57.74	24	27	0.016	0.400	0.026	0.658	658	38.69
5	19	0.040	1.020	0.160	4.060	4.060	63.87	24	28	0.015	0.370	0.027	0.688	688	42.30
5	20	0.036	0.910	0.164	4.170	4.170	67.38	24	29	0.013	0.340	0.028	0.718	718	46.07
6	16	0.064	1.630	0.102	2.603	2.603	37.82	24	30	0.012	0.310	0.029	0.748	748	50.00
6	17	0.056	1.430	0.110	2.803	2.803	43.85	24	32	0.011	0.270	0.031	0.788	788	55.48
6	19	0.040	1.020	0.127	3.213	3.213	57.62	30	28	0.015	0.370	0.019	0.477	477	31.70
6	20	0.036	0.910	0.131	3.323	3.323	61.63	30	29	0.013	0.340	0.020	0.507	507	35.81
6	21	0.032	0.810	0.135	3.423	3.423	65.39	30	30	0.012	0.310	0.021	0.537	537	40.18
8	16	0.064	1.630	0.061	1.545	1.545	23.68	30	31	0.011	0.290	0.022	0.557	557	43.23
8	17	0.056	1.430	0.069	1.745	1.745	30.21	30	32	0.011	0.270	0.023	0.577	577	46.39
8	18	0.048	1.220	0.077	1.955	1.955	37.91	40	32	0.011	0.270	0.014	0.365	365	33.04
8	19	0.040	1.020	0.085	2.155	2.155	46.07	40	33	0.010	0.250	0.015	0.385	385	36.76
8	20	0.036	0.910	0.089	2.265	2.265	50.89	40	34	0.009	0.234	0.016	0.401	401	39.88
8	21	0.032	0.810	0.093	2.365	2.365	55.48	40	35	0.008	0.210	0.017	0.425	425	44.80
8	22	0.028	0.710	0.097	2.465	2.465	60.28	40	36	0.008	0.193	0.017	0.442	442	48.45
8	23	0.024	0.610	0.101	2.565	2.565	65.27	50	34	0.009	0.234	0.011	0.274	274	29.09
8	24	0.022	0.550	0.103	2.625	2.625	68.36	50	35	0.008	0.210	0.012	0.298	298	34.41
8	25	0.020	0.500	0.105	2.675	2.675	70.98	50	36	0.008	0.193	0.012	0.315	315	38.45
10	20	0.036	0.910	0.064	1.630	1.630	41.18	50	37	0.007	0.172	0.013	0.336	336	43.75
10	21	0.032	0.810	0.068	1.730	1.730	46.39	50	38	0.006	0.152	0.014	0.356	356	49.11
10	22	0.028	0.710	0.072	1.830	1.830	51.91	60	36	0.008	0.193	0.009	0.230	230	29.60
10	23	0.024	0.610	0.076	1.930	1.930	57.74	60	37	0.007	0.172	0.010	0.251	251	35.25
10	24	0.022	0.550	0.078	1.990	1.990	61.38	60	38	0.006	0.152	0.011	0.271	271	41.08
10	25	0.020	0.500	0.080	2.040	2.040	64.50	80	38	0.006	0.152	0.007	0.166	166	27.17
12	22	0.028	0.028	0.055	1.407	1.407	44.16	80	39	0.005	0.130	0.007	0.188	188	34.88
12	23	0.024	0.024	0.059	1.507	1.507	50.67	80	40	0.005	0.122	0.008	0.196	196	37.91
12	24	0.022	0.022	0.062	1.567	1.567	54.78	80	41	0.004	0.112	0.008	0.206	206	41.89
12	25	0.020	0.020	0.064	1.617	1.617	58.34	80	42	0.004	0.102	0.008	0.216	216	46.07
12	26	0.018	0.018	0.066	1.667	1.667	62.00	100	42	0.004	0.102	0.006	0.152	152	35.81
14	24	0.022	0.022	0.050	1.264	1.264	48.56	100	43	0.004	0.091	0.006	0.163	163	41.18
14	25	0.020	0.020	0.052	1.314	1.314	52.48	100	44	0.003	0.081	0.007	0.173	173	46.39
14	26	0.018	0.018	0.054	1.364	1.364	56.55	120	44	0.003	0.081	0.005	0.131	131	38.11
14	27	0.016	0.016	0.056	1.414	1.414	60.77	150	45	0.071	0.071	0.004	0.098	98	33.72
14	28	0.015	0.015	0.057	1.444	1.444	63.37	150	45.5	0.063	0.063	0.004	0.106	106	39.43
16	24	0.022	0.022	0.041	1.038	1.038	42.71	200	47	0.050	0.050	0.003	0.077	77	36.76
16	25	0.020	0.020	0.043	1.088	1.088	46.93	250	48	0.040	0.040	0.002	0.062	62	36.76
16	26	0.018	0.018	0.045	1.138	1.138	51.34	300	48	0.040	0.040	0.002	0.045	45	27.83
16	27	0.016	0.016	0.047	1.188	1.188	55.96	325	48.5	0.035	0.035	0.002	0.043	43	30.49
16	29	0.013	0.013	0.049	1.248	1.248	61.75	400	49.5	0.028	0.028	0.001	0.036	36	31.25
16	30	0.012	0.012	0.050	1.278	1.278	64.76	500	50	0.025	0.025	0.001	0.026	26	25.79



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