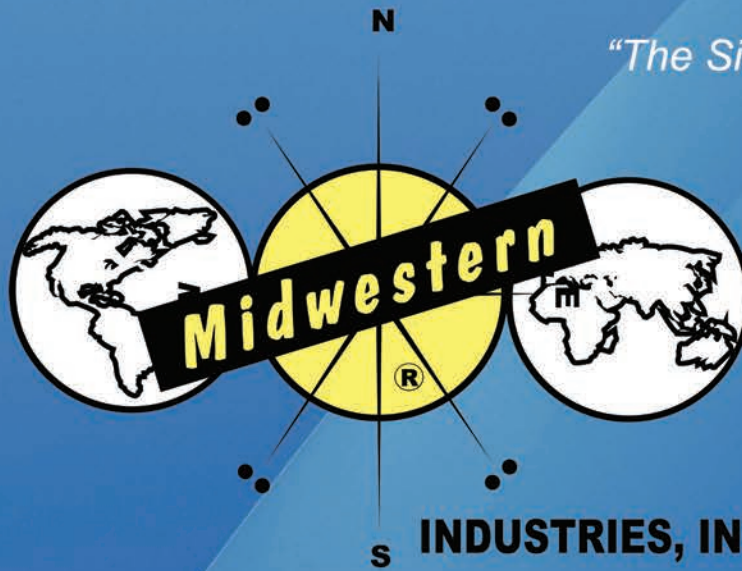




# Low Profile Separator



# Bag Dumping Station



# Low-Profile Separator

The Low-Profile Separator features a flow-thru design that's effective for high capacity screening of dry or wet materials. The compact design allows the unit to be easily incorporated into existing product lines or placed in "tight-fit" installations.



**A<sup>3</sup>**

The two vibratory motors are positioned 180-degrees apart on external, adjustable side motor mounts maximizing space and screening efficiency. The adjustable motor mounts enable strategic motor positioning, providing the best possible throughput and oversize discharge for a variety of screening applications.

Low-Profile Separators can easily accommodate high temperature scalping applications due to the external motor placement. It is also available in many finishes suitable for food, pharmaceutical, dairy, and many more scalping processes (3A approved).

- Compact size fits confined spaces.
- Features a high capacity flow-thru design.
- Capable of screening dry or wet materials.
- Available in 24-inch, 30-inch, and 48-inch units.

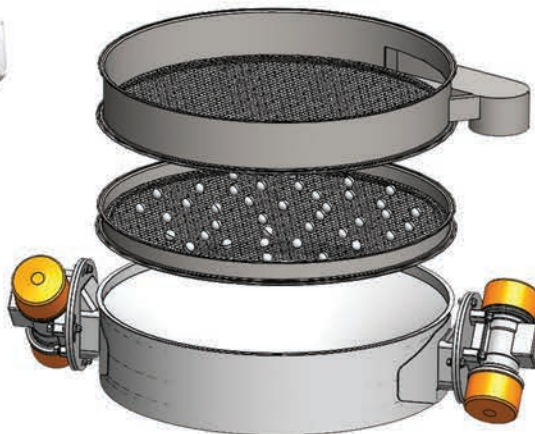


The Low-Profile Separator is available in T-304, T-316 stainless steel, and carbon steel construction.

## Low-Profile Accessories



**Separator Riser**



**Ball Tray Assembly**



**Dust Prevention Cover**

# Bag-Dumping Station

Crafted to meet your bulk processing needs, the Bag-Dumping Station is designed to easily scalp oversized contaminants from manually dumped bulk materials before entering the processing line. The unit can also be constructed to food, pharmaceutical, and other industry standards.

The Bag-Dumping Station quickly and efficiently screens bagged materials for lumps and foreign matter before they enter the manufacturing process. The self-contained screening station includes a Low-Profile Separator, hood with vent, heavy-duty support screen, and stand.

Upon pouring the contents of a bag onto the screening surface, the material flows directly through the bag-support scalping screen and into the Low-Profile Separator below. The separator then screens the material and removes lumps and foreign matter. The extended work area of the bag support deck allows bags to be easily opened and emptied.

The Bag-Dumping Station also helps to reduce costly spillage and cleaning along with reduced material handling and exposure to dust particles.

- Can be manufactured to meet various industry standards.
- Can reduce costly spillage and airborne particles.
- Screens and parts can easily be replaced.



The Bag-Dumping Station is available in T-304, T-316 stainless steel, and carbon steel construction. A hinged door can also be added to help contain dust.



## Making an Informed Decision

Midwestern Industries believes that our testing facility is the best tool for our customers to make informed decisions about their screening process. The simple act of sending in material can save you time and money by purchasing the right equipment the first time.

# MIDWESTERN'S WIRE MESH COMPARISON CHART

| Approx. Microns | MM   | US Sieve | OPG.  | Tyler Equiv. | Tensil Bolting Cloth |       |       |      | Mill Grade |       |       |      | Market Grade |       |       |      |  |
|-----------------|------|----------|-------|--------------|----------------------|-------|-------|------|------------|-------|-------|------|--------------|-------|-------|------|--|
|                 |      |          |       |              | Mesh                 | OPG.  | Wire  | % OA | Mesh       | OPG.  | Wire  | % OA | Mesh         | OPG.  | Wire  | % OA |  |
| 25000           | 25.0 | 1"       | 1.00  |              |                      |       |       |      |            |       |       |      |              |       |       |      |  |
| 19000           | 19.0 | 3/4"     | .750  |              |                      |       |       |      |            |       |       |      |              |       |       |      |  |
| 16000           | 16.0 | 5/8"     | .625  |              |                      |       |       |      |            |       |       |      |              |       |       |      |  |
| 14288           | 14.3 | 9/16"    | .562  |              |                      |       |       |      |            |       |       |      |              |       |       |      |  |
| 12500           | 12.5 | 1/2"     | .500  |              |                      |       |       |      |            |       |       |      |              |       |       |      |  |
| 11200           | 11.2 | 7/16"    | .438  |              |                      |       |       |      | 2          | .446  | .054  | 79.6 | 2            | .437  | .063  | 76.4 |  |
| 9500            | 9.5  | 3/8"     | .375  |              |                      |       |       |      |            |       |       |      |              |       |       |      |  |
| 8000            | 8.0  | 5/16"    | .312  |              |                      |       |       |      |            |       |       |      |              |       |       |      |  |
| 6300            | 6.3  | 1/4"     | .250  |              |                      |       |       |      | 3          | .292  | .041  | 76.7 | 3            | .279  | .054  | 70.1 |  |
| 5600            | 5.6  | 3/5      | .223  | 3.5          |                      |       |       |      | 4          | .215  | .035  | 74.0 | 4            | .2023 | .0475 | 65.9 |  |
| 4750            | 4.75 | 4        | .187  | 4            |                      |       |       |      |            |       |       |      | 4            | .187  | .063  | 56.0 |  |
| 4000            | 4.0  | 5        | .157  | 5            |                      |       |       |      | 5          | .168  | .032  | 70.6 | 5            | .159  | .041  | 63.2 |  |
| 3350            | 3.35 | 6        | .132  | 6            |                      |       |       |      | 6          | .139  | .028  | 69.6 | 6            | .132  | .0348 | 62.7 |  |
| 2800            | 2.80 | 7        | .110  | 7            |                      |       |       |      | 7          | .115  | .028  | 64.8 | 7            | .108  | .035  | 57.2 |  |
| 2360            | 2.36 | 8        | .0937 | 8            |                      |       |       |      | 8          | .100  | .025  | 64.0 | 8            | .0964 | .0286 | 60.2 |  |
| 2000            | 2.0  | 10       | .0787 | 9            |                      |       |       |      | 9          | .088  | .023  | 62.7 | 10           | .0742 | .0258 | 56.3 |  |
| 1854            | 1.85 |          |       |              |                      |       |       |      | 10         | .080  | .020  | 64.0 | 11           | .073  | .018  | 64.5 |  |
| 1700            | 1.7  | 12       | .0661 | 10           | 14                   | .062  | .009  | 76.4 | 12         | .065  | .018  | 60.8 | 12           | .0603 | .023  | 51.8 |  |
| 1400            | 1.4  | 14       | .0555 | 12           | 16                   | .0535 | .009  | 73.3 | 14         | .054  | .017  | 57.2 | 14           | .051  | .0204 | 51.0 |  |
| 1180            | 1.18 | 16       | .0469 | 14           | 18                   | .0466 | .009  | 70.2 | 16         | .0465 | .016  | 55.4 | 16           | .0445 | .0181 | 50.7 |  |
| 1041            | 1.04 |          |       |              | 20                   | .0410 | .009  | 67.2 |            |       |       |      |              |       |       |      |  |
| 1000            | 1.0  | 18       | .0394 | 16           | 22                   | .0380 | .0075 | 69.7 | 18         | .0406 | .015  | 53.4 | 18           | .0386 | .0173 | 48.3 |  |
| 850             | .85  | 20       | .0331 | 20           | 24                   | .0342 | .0075 | 69.2 | 20         | .0360 | .014  | 51.8 | 20           | .034  | .0162 | 46.2 |  |
| 787             | .787 |          |       |              | 26                   | .0310 | .0075 | 64.8 | 22         | .0320 | .0135 | 49.6 |              |       |       |      |  |
| 710             | .71  | 25       | .0278 | 24           | 28                   | .0282 | .0075 | 62.4 | 24         | .0287 | .013  | 47.4 | 24           | .0277 | .014  | 44.2 |  |
| 681             | .681 |          |       |              | 30                   | .0268 | .0065 | 64.8 | 26         | .0275 | .011  | 51.1 |              |       |       |      |  |
| 630             | .63  |          |       |              | 32                   | .0248 | .0065 | 62.7 | 28         | .0257 | .010  | 51.8 |              |       |       |      |  |
| 600             | .60  | 30       | .0234 | 28           | 34                   | .0229 | .0065 | 60.7 | 30         | .0238 | .0095 | 51.0 |              |       |       |      |  |
| 541             | .541 |          |       |              | 36                   | .0213 | .0065 | 58.7 | 32         | .0223 | .009  | 50.9 |              |       |       |      |  |
| 500             | .50  | 35       | .0197 | 32           | 38                   | .0198 | .0065 | 56.7 | 34         | .0204 | .009  | 48.1 | 30           | .0203 | .0128 | 37.1 |  |
| 470             | .47  |          |       |              | 40                   | .0185 | .0065 | 54.8 | 36         | .0188 | .009  | 45.8 |              |       |       |      |  |
| 465             | .465 |          |       |              | 42                   | .0183 | .0055 | 59.1 | 38         | .0178 | .0085 | 45.8 |              |       |       |      |  |
| 437             | .437 |          |       |              | 44                   | .0172 | .0055 | 57.4 |            |       |       |      | 35           | .0176 | .0118 | 37.9 |  |
| 425             | .425 | 40       | .0165 | 35           | 46                   | .0162 | .0055 | 55.8 | 40         | .0165 | .0085 | 43.6 |              |       |       |      |  |
| 389             | .389 |          |       |              | 48                   | .0153 | .0055 | 54.2 |            |       |       |      | 40           | .0150 | .0104 | 36.0 |  |
| 368             | .368 |          |       |              | 50                   | .0145 | .0055 | 52.6 |            |       |       |      |              |       |       |      |  |
| 355             | .355 | 45       | .0139 | 42           | 52                   | .0137 | .0055 | 51.0 | 45         | .0142 | .008  | 40.8 |              |       |       |      |  |
| 330             | .33  |          |       |              | 54                   | .0130 | .0055 | 49.4 |            |       |       |      |              |       |       |      |  |
| 323             | .323 |          |       |              | 58                   | .0127 | .0045 | 54.6 |            |       |       |      |              |       |       |      |  |
| 310             | .31  |          |       |              | 60                   | .0122 | .0045 | 53.3 | 50         | .0125 | .0075 | 39.1 |              |       |       |      |  |
| 300             | .30  | 50       | .0117 | 48           | 62                   | .0116 | .0045 | 51.7 | 55         | .0112 | .007  | 37.9 |              |       |       |      |  |
| 282             | .282 |          |       |              | 64                   | .0111 | .0045 | 50.7 |            |       |       |      | 50           | .0110 | .0090 | 30.3 |  |
| 270             | .27  |          |       |              | 70                   | .0106 | .0037 | 54.9 |            |       |       |      |              |       |       |      |  |
| 260             | .26  |          |       |              | 72                   | .0102 | .0037 | 53.8 |            |       |       |      |              |       |       |      |  |
| 250             | .25  | 60       | .0098 | 60           | 74                   | .0098 | .0037 | 52.7 | 60         | .0102 | .0065 | 37.5 |              |       |       |      |  |
| 241             | .241 |          |       |              | 76                   | .0095 | .0037 | 51.7 |            |       |       |      |              |       |       |      |  |
| 231             | .231 |          |       |              | 78                   | .0091 | .0037 | 50.6 |            |       |       |      | 60           | .0092 | .0075 | 30.5 |  |
| 224             | .224 |          |       |              | 80                   | .0088 | .0037 | 49.6 |            |       |       |      |              |       |       |      |  |
| 212             | .212 | 70       | .0083 | 65           | 84                   | .0084 | .0035 | 49.8 |            |       |       |      |              |       |       |      |  |
| 200             | .20  |          |       |              | 88                   | .0079 | .0035 | 47.9 |            |       |       |      |              |       |       |      |  |
| 193             | .193 |          |       |              | 90                   | .0076 | .0035 | 47.8 |            |       |       |      |              |       |       |      |  |
| 180             | .18  | 80       | .0070 | 80           | 94                   | .0071 | .0035 | 45.0 |            |       |       |      | 80           | .0070 | .0055 | 31.4 |  |
| 165             | .165 |          |       |              | 105                  | .0065 | .0030 | 46.9 |            |       |       |      |              |       |       |      |  |
| 150             | .15  | 100      | .0059 | 100          | 120                  | .0058 | .0025 | 47.3 |            |       |       |      | 100          | .0055 | .0045 | 30.3 |  |
| 125             | .125 | 120      | .0049 | 115          | 145                  | .0047 | .0022 | 46.4 |            |       |       |      | 120          | .0046 | .0037 | 30.5 |  |
| 106             | .106 | 140      | .0041 | 150          | 165                  | .0042 | .0019 | 47.1 |            |       |       |      | 150          | .0041 | .0026 | 37.9 |  |
| 90              | .090 | 170      | .0035 | 170          | 200                  | .0034 | .0016 | 46.2 |            |       |       |      | 180          | .0033 | .0023 | 34.7 |  |
| 75              | .075 | 200      | .0029 | 200          | 230                  | .0029 | .0014 | 46.0 |            |       |       |      | 200          | .0029 | .0021 | 33.6 |  |
| 63              | .063 | 230      | .0025 | 250          |                      |       |       |      |            |       |       |      | 250          | .0024 | .0016 | 36.0 |  |
| 53              | .053 | 270      | .0021 | 270          | 300                  | .0021 | .0012 | 40.5 |            |       |       |      | 270          | .0021 | .0016 | 32.2 |  |
| 45              | .045 | 325      | .0017 | 325          |                      |       |       |      |            |       |       |      | 325          | .0017 | .0014 | 30.5 |  |
| 38              | .038 | 400      | .0015 | 400          |                      |       |       |      |            |       |       |      | 400          | .0015 | .0010 | 36.0 |  |
| 25              | .025 | 500      | .0010 |              |                      |       |       |      |            |       |       |      | 500          | .0010 | .0010 | 25.0 |  |
| 20              | .020 | 635      | .0008 |              |                      |       |       |      |            |       |       |      | 635          | .0008 | .0008 | 25.0 |  |

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