



## Hopper Bottom Bins/Silos

# SCAFCO Hopper Bottom Bins/Silos



SCAFCO hopper bottom bins/silos are an efficient and space saving solution for your grain storage. They are designed to allow for complete clean-out and can be customized to meet your specific needs with a wide range of optional features.

Available in a variety of capacities, SCAFCO hopper bottom bins/silos help protect your commodity from the elements, insects, rodents and birds. This efficient use of space makes for simple filling and discharge, and easier maintenance and management.

## Features and Benefits:

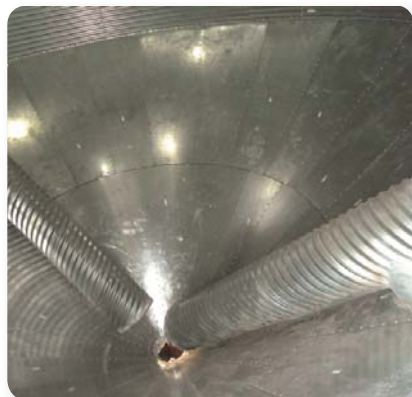
- Available in capacities from 130 bushels to over 55,000 bushels (3 metric tons to 1,500 metric tons) in a wide variety of sizes.
- Offers advantages of complete bin/silo cleanout and lower material handling costs.
- Structural supports can elevate bins/silos above rail cars or truck driveways.
- SCAFCO hopper bins/silos use slide gates, roller gates or rack and pinion gates for easier grain clean-out.
- Capable of storing any flowable commodity such as grain, feed, plastic pellets, certain mineral supplements, and seeds.
- Designed for seismic and high wind conditions.

## Material Composition:

- Standard 2  $\frac{2}{3}$ " (67 mm) pitch corrugated steel wall sheets.
- G-115 coating standard (350 grams/m<sup>2</sup> zinc) – Additional coatings available upon request.
- Compression rings are all-galvanized for added bin/silo longevity.
- 57 ksi (393 MPa) yield strength steel.
- SAE grade 8.2 (equivalent to DIN 10.9) heat-treated bolts with JS1000 corrosion resistant coating over zinc plating.
- U.S.A. domestic mill certified prime steel.



## Additional Hopper Bottom Bin/Silo Options



### Hopper Bottom Bin/Silo Aeration

SCAFCO uses rigid perforated, corrugated galvanized steel pipe for aeration in hopper bottom bins/silos. Fans mount below the hopper, directing air into internal ducts and up through the grain mass.



### Hopper Support Structures

Hopper support structures are available for hopper bottom bins/silos from 9'-15' (2.74 m – 4.57 m) diameter. These structures provide safe and effective support of bins/silos loading into trucks, rail cars or equipment.

Structures are made from hot dip galvanized structural steel for years of maintenance-free service. The structures are a bolt-together design for easy on-site construction preventing the need for welding. Single and double structures are available, and the standard clear height below the structure is 14' (4.27 m).



### Complete Ladder Systems

Ladders are available for all SCAFCO hopper bottom bins/silos. The ladders provide a safe way to the access doors in the bins/silos (when supplied) and access to the roof of the bin/silo.

Safety cages and rest platforms are supplied for bins/silos with eave heights greater than 20' (6.1 m) and 30' (6.09 m), respectively.



### Axial Fans

SCAFCO Axial Fans deliver high capacity airflow at maximum performance. Fans feature all galvanized steel bodies, heavy-duty cast aluminum blades and energy-efficient electric motors. Axial fans are available in a variety of diameters and horsepower ratings.

## Hopper Bottom Bin/Silo Models

### 40° Hopper Bottom Bins/Silos - Center Discharge

| Silo Model Number | Diameter |        | Overall Height |        | Volume Capacity |            | Bushels +5% Compaction | @770 KG/M3 Metric Tons |
|-------------------|----------|--------|----------------|--------|-----------------|------------|------------------------|------------------------|
|                   | Feet     | Meters | Feet           | Meters | Cu. Feet        | Cu. Meters |                        |                        |
| 3007SHBT**        | 30'      | 9.14   | 49' 2"         | 14.99  | 22,696          | 642.7      | 19,150                 | 518.9                  |
| 3008SHBT**        | 30'      | 9.14   | 52' 9"         | 16.07  | 25,183          | 713.1      | 21,248                 | 575.7                  |
| 3009SHBT**        | 30'      | 9.14   | 56' 4"         | 17.16  | 27,670          | 783.6      | 23,346                 | 632.6                  |
| 3010SHBT**        | 30'      | 9.14   | 59' 10"        | 18.24  | 30,157          | 854.0      | 25,445                 | 689.4                  |
| 3011SHBT**        | 30'      | 9.14   | 64' 4"         | 19.60  | 33,265          | 942.0      | 28,067                 | 760.5                  |
| 3012SHBT**        | 30'      | 9.14   | 67' 0"         | 20.41  | 35,130          | 994.8      | 29,641                 | 803.1                  |
| 3014SHBT**        | 30'      | 9.14   | 72' 1"         | 21.97  | 38,705          | 1,096.0    | 32,657                 | 884.8                  |
| 3307SHBT**        | 33'      | 10.06  | 51' 4"         | 15.63  | 28,040          | 794.0      | 23,658                 | 641.0                  |
| 3308SHBT**        | 33'      | 10.06  | 54' 10"        | 16.72  | 31,049          | 879.2      | 26,197                 | 709.8                  |
| 3309SHBT**        | 33'      | 10.06  | 58' 5"         | 17.80  | 34,058          | 964.4      | 28,736                 | 778.6                  |
| 3310SHBT**        | 33'      | 10.06  | 62' 0"         | 18.88  | 37,067          | 1,049.7    | 31,275                 | 847.4                  |
| 3311SHBT**        | 33'      | 10.06  | 66' 5"         | 20.24  | 40,828          | 1,156.2    | 34,449                 | 933.4                  |

#### Table Notes:

\* 5% Compaction Applies Only to 1507 SHBT & Above  
 \*\* One Access Door Provided in Bottom Ring

Tables continued on the next page.

| Silo Model Number | Diameter |        | Overall Height |        | Volume Capacity |            | Bushels +5% Compaction | @770 KG/M3 Metric Tons |
|-------------------|----------|--------|----------------|--------|-----------------|------------|------------------------|------------------------|
|                   | Feet     | Meters | Feet           | Meters | Cu. Feet        | Cu. Meters |                        |                        |
| 3312SHBT**        | 33'      | 10.06  | 69' 1"         | 21.05  | 43,085          | 1,220.1    | 36,353                 | 985.0                  |
| 3314SHBT**        | 33'      | 10.06  | 74' 2"         | 22.61  | 47,410          | 1,342.6    | 40,002                 | 1,083.9                |
| 3607SHBT**        | 36'      | 10.97  | 53' 5"         | 16.28  | 34,057          | 964.4      | 28,735                 | 778.6                  |
| 3608SHBT**        | 36'      | 10.97  | 57' 0"         | 17.36  | 37,638          | 1,065.8    | 31,757                 | 860.4                  |
| 3609SHBT**        | 36'      | 10.97  | 60' 6"         | 18.45  | 41,218          | 1,167.2    | 34,778                 | 942.3                  |
| 3610SHBT**        | 36'      | 10.97  | 64' 1"         | 19.53  | 44,799          | 1,268.6    | 37,799                 | 1,024.2                |
| 3611SHBT**        | 36'      | 10.97  | 68' 6"         | 20.88  | 49,276          | 1,395.4    | 41,576                 | 1,126.5                |
| 3612SHBT**        | 36'      | 10.97  | 71' 2"         | 21.70  | 51,961          | 1,471.4    | 43,842                 | 1,187.9                |
| 3614SHBT**        | 36'      | 10.97  | 76' 4"         | 23.25  | 57,109          | 1,617.2    | 48,186                 | 1,305.6                |
| 3615SHBT**        | 36'      | 10.97  | 81' 10"        | 24.95  | 62,704          | 1,775.7    | 52,907                 | 1,433.5                |
| 3616SHBT**        | 36'      | 10.97  | 85' 5"         | 26.03  | 66,285          | 1,877.1    | 55,928                 | 1,515.4                |

# SCAFCO Hopper Bottom Bins/Silos

## Hopper Bottom Bin/Silo Models Continued

### 45° Hopper Bottom Bins/Silos - Center Discharge

| Silo Model Number | Diameter |        | Overall Height |        | Volume Capacity |            | Bushels +5% Compaction | @770 KG/M3 Metric Tons |
|-------------------|----------|--------|----------------|--------|-----------------|------------|------------------------|------------------------|
|                   | Feet     | Meters | Feet           | Meters | Cu. Feet        | Cu. Meters |                        |                        |
| 1201HBT           | 12'      | 3.66   | 15' 10"        | 4.82   | 744             | 21.1       | 598                    | 16.2                   |
| 1202HBT           | 12'      | 3.66   | 19' 4"         | 5.90   | 1,142           | 32.3       | 918                    | 24.9                   |
| 1203HBT           | 12'      | 3.66   | 22' 11"        | 6.99   | 1,540           | 43.6       | 1,237                  | 33.5                   |
| 1204HBT           | 12'      | 3.66   | 26' 6"         | 8.07   | 1,938           | 54.9       | 1,557                  | 42.2                   |
| 1205HBT           | 12'      | 3.66   | 30' 0"         | 9.15   | 2,336           | 66.1       | 1,877                  | 50.9                   |
| 1501HBT           | 15'      | 4.57   | 18' 3"         | 5.56   | 1,294           | 36.6       | 1,040                  | 28.2                   |
| 1502HBT           | 15'      | 4.57   | 21' 10"        | 6.64   | 1,916           | 54.3       | 1,539                  | 41.7                   |
| 1503HBT           | 15'      | 4.57   | 25' 4"         | 7.73   | 2,537           | 71.9       | 2,039                  | 55.2                   |
| 1504HBT           | 15'      | 4.57   | 28' 11"        | 8.81   | 3,159           | 89.5       | 2,539                  | 68.8                   |
| 1505HBT           | 15'      | 4.57   | 32' 6"         | 9.89   | 3,781           | 107.1      | 3,038                  | 82.3                   |
| 1506HBT           | 15'      | 4.57   | 36' 0"         | 10.98  | 4,403           | 124.7      | 3,538                  | 95.9                   |
| 1507SHBT**        | 15'      | 4.57   | 39' 9"         | 12.11  | 5,024           | 142.3      | 4,239                  | 114.9                  |
| 1508SHBT**        | 15'      | 4.57   | 43' 4"         | 13.19  | 5,646           | 159.9      | 4,764                  | 129.1                  |
| 1509SHBT**        | 15'      | 4.57   | 46' 10"        | 14.28  | 6,268           | 177.5      | 5,288                  | 143.3                  |
| 1510SHBT**        | 15'      | 4.57   | 50' 5"         | 15.36  | 6,889           | 195.1      | 5,813                  | 157.5                  |
| 1511SHBT**        | 15'      | 4.57   | 54' 10"        | 16.72  | 7,667           | 217.1      | 6,469                  | 175.3                  |
| 1804HBT           | 18'      | 5.49   | 31' 5"         | 9.58   | 4,741           | 134.3      | 4,000                  | 108.4                  |
| 1805HBT           | 18'      | 5.49   | 35' 0"         | 10.66  | 5,636           | 159.6      | 4,756                  | 128.9                  |
| 1806SHBT          | 18'      | 5.49   | 38' 6"         | 11.75  | 6,532           | 185.0      | 5,511                  | 149.3                  |
| 1807SHBT**        | 18'      | 5.49   | 42' 1"         | 12.83  | 7,427           | 210.3      | 6,266                  | 169.8                  |
| 1808SHBT**        | 18'      | 5.49   | 46' 2"         | 14.06  | 8,446           | 239.2      | 7,127                  | 193.1                  |
| 1809SHBT**        | 18'      | 5.49   | 49' 8"         | 15.15  | 9,342           | 264.5      | 7,882                  | 213.6                  |
| 1810SHBT**        | 18'      | 5.49   | 53' 3"         | 16.23  | 10,237          | 289.9      | 8,637                  | 234.0                  |
| 1811SHBT**        | 18'      | 5.49   | 57' 8"         | 17.59  | 11,356          | 321.6      | 9,581                  | 259.6                  |
| 1812SHBT**        | 18'      | 5.49   | 60' 4"         | 18.40  | 12,027          | 340.6      | 10,148                 | 275.0                  |

| Silo Model Number | Diameter |        | Overall Height |        | Volume Capacity |            | Bushels +5% Compaction | @770 KG/M3 Metric Tons |
|-------------------|----------|--------|----------------|--------|-----------------|------------|------------------------|------------------------|
|                   | Feet     | Meters | Feet           | Meters | Cu. Feet        | Cu. Meters |                        |                        |
| 1814SHBT**        | 18'      | 5.49   | 65' 6"         | 19.96  | 13,314          | 377.0      | 11,234                 | 304.4                  |
| 2104HBT           | 21'      | 6.40   | 33' 9"         | 10.29  | 6,714           | 190.1      | 5,665                  | 153.5                  |
| 2105HBT           | 21'      | 6.40   | 37' 4"         | 11.38  | 7,933           | 224.6      | 6,693                  | 181.4                  |
| 2106SHBT**        | 21'      | 6.40   | 40' 11"        | 12.46  | 9,151           | 259.1      | 7,721                  | 209.2                  |
| 2107SHBT**        | 21'      | 6.40   | 44' 5"         | 13.55  | 10,370          | 293.6      | 8,749                  | 237.1                  |
| 2108SHBT**        | 21'      | 6.40   | 48' 6"         | 14.78  | 11,758          | 332.9      | 9,920                  | 268.8                  |
| 2109SHBT**        | 21'      | 6.40   | 52' 1"         | 15.87  | 12,976          | 367.5      | 10,949                 | 296.7                  |
| 2110SHBT**        | 21'      | 6.40   | 55' 7"         | 16.95  | 14,195          | 402.0      | 11,977                 | 324.5                  |
| 2111SHBT**        | 21'      | 6.40   | 60' 1"         | 18.30  | 15,718          | 445.1      | 13,262                 | 359.3                  |
| 2112SHBT**        | 21'      | 6.40   | 62' 9"         | 19.12  | 16,632          | 471.0      | 14,033                 | 380.2                  |
| 2114SHBT**        | 21'      | 6.40   | 67' 10"        | 20.67  | 18,383          | 520.6      | 15,511                 | 420.3                  |
| 2407SHBT**        | 24'      | 7.32   | 47' 5"         | 14.44  | 14,144          | 400.5      | 11,934                 | 323.3                  |
| 2408SHBT**        | 24'      | 7.32   | 50' 11"        | 15.52  | 15,735          | 445.6      | 13,276                 | 359.7                  |
| 2409SHBT**        | 24'      | 7.32   | 54' 6"         | 16.61  | 17,327          | 490.7      | 14,619                 | 396.1                  |
| 2410SHBT**        | 24'      | 7.32   | 58' 1"         | 17.69  | 18,918          | 535.7      | 15,962                 | 432.5                  |
| 2411SHBT**        | 24'      | 7.32   | 62' 6"         | 19.05  | 20,908          | 592.1      | 17,641                 | 478.0                  |
| 2412SHBT**        | 24'      | 7.32   | 65' 2"         | 19.86  | 22,101          | 625.9      | 18,648                 | 505.3                  |
| 2414SHBT**        | 24'      | 7.32   | 70' 3"         | 21.42  | 24,389          | 690.6      | 20,578                 | 557.6                  |
| 2707SHBT**        | 27'      | 8.23   | 49' 0"         | 14.93  | 18,332          | 519.1      | 15,468                 | 419.1                  |
| 2714SHBT**        | 27'      | 8.23   | 52' 7"         | 16.02  | 20,347          | 576.2      | 17,167                 | 465.1                  |
| 2709SHBT**        | 27'      | 8.23   | 56' 1"         | 17.10  | 22,361          | 633.2      | 18,867                 | 511.2                  |
| 2710SHBT**        | 27'      | 8.23   | 59' 8"         | 18.18  | 24,375          | 690.3      | 20,566                 | 557.2                  |
| 2711SHBT**        | 27'      | 8.23   | 64' 1"         | 19.54  | 26,893          | 761.6      | 22,691                 | 614.8                  |
| 2712SHBT**        | 27'      | 8.23   | 66' 9"         | 20.35  | 28,404          | 804.3      | 23,966                 | 649.3                  |
| 2714SHBT**        | 27'      | 8.23   | 71' 11"        | 21.91  | 31,299          | 886.3      | 26,409                 | 715.5                  |

### 60° Hopper Bottom Bins/Silos - Center Discharge

| Silo Model Number | Diameter |        | Overall Height |        | Volume Capacity |            | Bushels +5% Compaction | @770 KG/M3 Metric Tons |
|-------------------|----------|--------|----------------|--------|-----------------|------------|------------------------|------------------------|
|                   | Feet     | Meters | Feet           | Meters | Cu. Feet        | Cu. Meters |                        |                        |
| 6601HBT           | 6'       | 1.83   | 12' 1"         | 3.68   | 164             | 4.6        | 132                    | 3.6                    |
| 6602HBT           | 6'       | 1.83   | 15' 7"         | 4.76   | 263             | 7.5        | 212                    | 5.7                    |
| 6603HBT           | 6'       | 1.83   | 19' 2"         | 5.84   | 363             | 10.3       | 291                    | 7.9                    |
| 6604HBT           | 6'       | 1.83   | 22' 9"         | 6.93   | 462             | 13.1       | 371                    | 10.1                   |
| 9601HBT           | 9'       | 2.74   | 15' 7"         | 4.74   | 439             | 12.4       | 353                    | 9.6                    |
| 9602HBT           | 9'       | 2.74   | 19' 1"         | 5.82   | 663             | 18.8       | 533                    | 14.4                   |
| 9603HBT           | 9'       | 2.74   | 22' 8"         | 6.91   | 887             | 25.1       | 713                    | 19.3                   |
| 9604HBT           | 9'       | 2.74   | 26' 3"         | 7.99   | 1,111           | 31.5       | 893                    | 24.2                   |
| 9605HBT           | 9'       | 2.74   | 29' 9"         | 9.07   | 1,335           | 37.8       | 1,072                  | 29.1                   |
| 9606HBT           | 9'       | 2.74   | 33' 4"         | 10.16  | 1,558           | 44.1       | 1,252                  | 33.9                   |
| 1201HBT-60        | 12'      | 3.66   | 19' 1"         | 5.82   | 907             | 25.7       | 729                    | 19.8                   |
| 1202HBT-60        | 12'      | 3.66   | 22' 8"         | 6.90   | 1,305           | 37.0       | 1,049                  | 28.4                   |
| 1203HBT-60        | 12'      | 3.66   | 26' 2"         | 7.99   | 1,703           | 48.2       | 1,368                  | 37.1                   |
| 1204HBT-60        | 12'      | 3.66   | 29' 9"         | 9.07   | 2,101           | 59.5       | 1,688                  | 45.7                   |
| 1205HBT-60        | 12'      | 3.66   | 33' 4"         | 10.15  | 2,499           | 70.8       | 2,008                  | 54.4                   |
| 1501HBT-60        | 15'      | 4.57   | 22' 7"         | 6.89   | 1,612           | 45.7       | 1,296                  | 35.1                   |
| 1502HBT-60        | 15'      | 4.57   | 26' 2"         | 7.97   | 2,234           | 63.3       | 1,795                  | 48.6                   |
| 1503HBT-60        | 15'      | 4.57   | 29' 9"         | 9.06   | 2,856           | 80.9       | 2,295                  | 62.2                   |
| 1504HBT-60        | 15'      | 4.57   | 33' 3"         | 10.14  | 3,478           | 98.5       | 2,794                  | 75.7                   |
| 1505HBT-60        | 15'      | 4.57   | 36' 10"        | 11.23  | 4,099           | 116.1      | 3,294                  | 89.3                   |
| 1506HBT-60        | 15'      | 4.57   | 40' 5"         | 12.31  | 4,721           | 133.7      | 3,794                  | 102.8                  |
| 1507SHBT-60       | 15'      | 4.57   | 44' 1"         | 13.44  | 5,343           | 151.3      | 4,508                  | 122.1                  |
| 1508SHBT-60**     | 15'      | 4.57   | 47' 8"         | 14.53  | 5,964           | 168.9      | 5,032                  | 136.4                  |
| 1509SHBT-60**     | 15'      | 4.57   | 51' 3"         | 15.61  | 6,586           | 186.5      | 5,557                  | 150.6                  |

| Silo Model Number | Diameter |        | Overall Height |        | Volume Capacity |            | Bushels +5% Compaction | @770 KG/M3 Metric Tons |
|-------------------|----------|--------|----------------|--------|-----------------|------------|------------------------|------------------------|
|                   | Feet     | Meters | Feet           | Meters | Cu. Feet        | Cu. Meters |                        |                        |
| 1510SHBT-60**     | 15'      | 4.57   | 54' 9"         | 16.70  | 7,208           | 204.1      | 6,081                  | 164.8                  |
| 1511SHBT-60**     | 15'      | 4.57   | 59' 3"         | 18.05  | 7,985           | 226.1      | 6,737                  | 182.5                  |
| 1512SHBT-60**     | 15'      | 4.57   | 61' 11"        | 18.86  | 8,451           | 239.3      | 7,131                  | 193.2                  |
| 1514SHBT-60**     | 15'      | 4.57   | 67' 0"         | 20.42  | 9,345           | 264.6      | 7,885                  | 213.6                  |
| 1804SHBT-60**     | 18'      | 5.49   | 36' 11"        | 11.24  | 5,291           | 149.8      | 4,464                  | 121.0                  |
| 1805SHBT-60**     | 18'      | 5.49   | 40' 5"         | 12.33  | 6,186           | 175.2      | 5,220                  | 141.4                  |
| 1806SHBT-60**     | 18'      | 5.49   | 44' 0"         | 13.41  | 7,082           | 200.5      | 5,975                  | 161.9                  |
| 1807SHBT-60**     | 18'      | 5.49   | 47' 7"         | 14.50  | 7,977           | 225.9      | 6,730                  | 182.4                  |
| 1808SHBT-60**     | 18'      | 5.49   | 51' 7"         | 15.72  | 8,990           | 254.6      | 7,586                  | 205.5                  |
| 1809SHBT-60**     | 18'      | 5.49   | 55' 2"         | 16.81  | 9,886           | 279.9      | 8,341                  | 226.0                  |
| 1810SHBT-60**     | 18'      | 5.49   | 58' 8"         | 17.89  | 10,781          | 305.3      | 9,096                  | 246.5                  |
| 1811SHBT-60**     | 18'      | 5.49   | 63' 2"         | 19.25  | 11,900          | 337.0      | 10,041                 | 272.0                  |
| 1812SHBT-60**     | 18'      | 5.49   | 65' 10"        | 20.06  | 12,571          | 356.0      | 10,607                 | 287.4                  |
| 1814SHBT-60**     | 18'      | 5.49   | 70' 11"        | 21.62  | 13,858          | 392.4      | 11,693                 | 316.8                  |
| 2104SHBT-60**     | 21'      | 6.40   | 40' 4"         | 12.29  | 7,588           | 214.9      | 6,402                  | 173.5                  |
| 2105SHBT-60**     | 21'      | 6.40   | 43' 11"        | 13.38  | 8,806           | 249.4      | 7,430                  | 201.3                  |
| 2106SHBT-60**     | 21'      | 6.40   | 47' 5"         | 14.46  | 10,025          | 283.9      | 8,458                  | 229.2                  |
| 2107SHBT-60**     | 21'      | 6.40   | 51' 0"         | 15.55  | 11,243          | 318.4      | 9,486                  | 257.0                  |
| 2108SHBT-60**     | 21'      | 6.40   | 55' 0"         | 16.77  | 12,623          | 357.5      | 10,651                 | 288.6                  |
| 2109SHBT-60**     | 21'      | 6.40   | 58' 7"         | 17.86  | 13,842          | 392.0      | 11,679                 | 316.4                  |
| 2110SHBT-60**     | 21'      | 6.40   | 62' 2"         | 18.94  | 15,060          | 426.5      | 12,707                 | 344.3                  |
| 2111SHBT-60**     | 21'      | 6.40   | 66' 7"         | 20.30  | 16,583          | 469.6      | 13,992                 | 379.1                  |
| 2112SHBT-60**     | 21'      | 6.40   | 69' 3"         | 21.11  | 17,497          | 495.5      | 14,763                 | 400.0                  |
| 2114SHBT-60**     | 21'      | 6.40   | 74' 4"         | 22.67  | 19,249          | 545.1      | 16,241                 | 440.1                  |

#### Table Notes:

\* 5% Compaction Applies Only to 1507 SHBT & Above

\*\* One Access Door Provided in Bottom Ring



## Complete Systems for Grain Storage and Handling

In addition to Hopper Bottom Bins/Silos, SCAFCO offers a full line of Flat Bottom Bins/Silos, Material Handling Equipment, Fans and Aeration Systems, and Accessories. For more information contact SCAFCO or visit us online.

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