

HOPPER BOTTOM BINS



BUILT
for **LIFE™**

 **SCAFCO**
Grain Systems Co.®

Serving Agriculture and Industry Since 1954



SCAFCO hopper bottom bins 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 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 cleanout and lower material handling costs
- Structural supports can elevate bins above rail cars or truck driveways
- SCAFCO hopper bins use slide gates, roller gates or rack and pinion gates for easier clean-out
- Capable of storing any flowable commodity including grain, feed, seeds, plastic pellets, and certain mineral supplements
- Designed for seismic and high wind conditions

Material Composition:

- Standard 2 ²/₃" (67 mm) pitch corrugated steel wall sheets
- G-115 coating standard (350 grams/m² zinc) – Additional coatings available upon request
- Compression rings are all-galvanized for added bin longevity
- 57 ksi (393 MPa) yield strength steel
- SAE grade 8 (equivalent to DIN 10.9) heat-treated bolts that exceed 3,000 hours of salt spray testing
- U.S.A. domestic mill certified prime steel

Additional Hopper Bottom Bin 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 from 9'-15' (2.74 m – 4.57 m) diameter. These structures provide safe and effective support for bins 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. The ladders provide a safe way to the access doors in the bins (when equipped) and access to the roof of the bin.

Safety cages and rest platforms are supplied for bins with eave heights greater than 20' (6.1 m) and 25' (7.63 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 Models

40° Hopper Bottom Bins - Center Discharge

| Bin Model Number | Diameter | | Overall Height | | Volume Capacity | | Bushels | @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 |

| Bin Model Number | Diameter | | Overall Height | | Volume Capacity | | Bushels | @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 |

Table Notes:

* One Access Door Provided in Bottom Ring

Tables continued on the next page.

Hopper Bottom Bin Models Continued

45° Hopper Bottom Bins - Center Discharge

| Bin Model Number | Diameter | | Overall Height | | Volume Capacity | | Bushels | @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 |

| Bin Model Number | Diameter | | Overall Height | | Volume Capacity | | Bushels | @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 |
| 2708SHBT* | 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 - Center Discharge

| Bin Model Number | Diameter | | Overall Height | | Volume Capacity | | Bushels | @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 |

| Bin Model Number | Diameter | | Overall Height | | Volume Capacity | | Bushels | @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:

* One Access Door Provided in Bottom Ring

Complete Systems for Grain Storage and Handling

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



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