



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/m² 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

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

Table Notes:

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

Tables continued on the next page.

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
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/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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