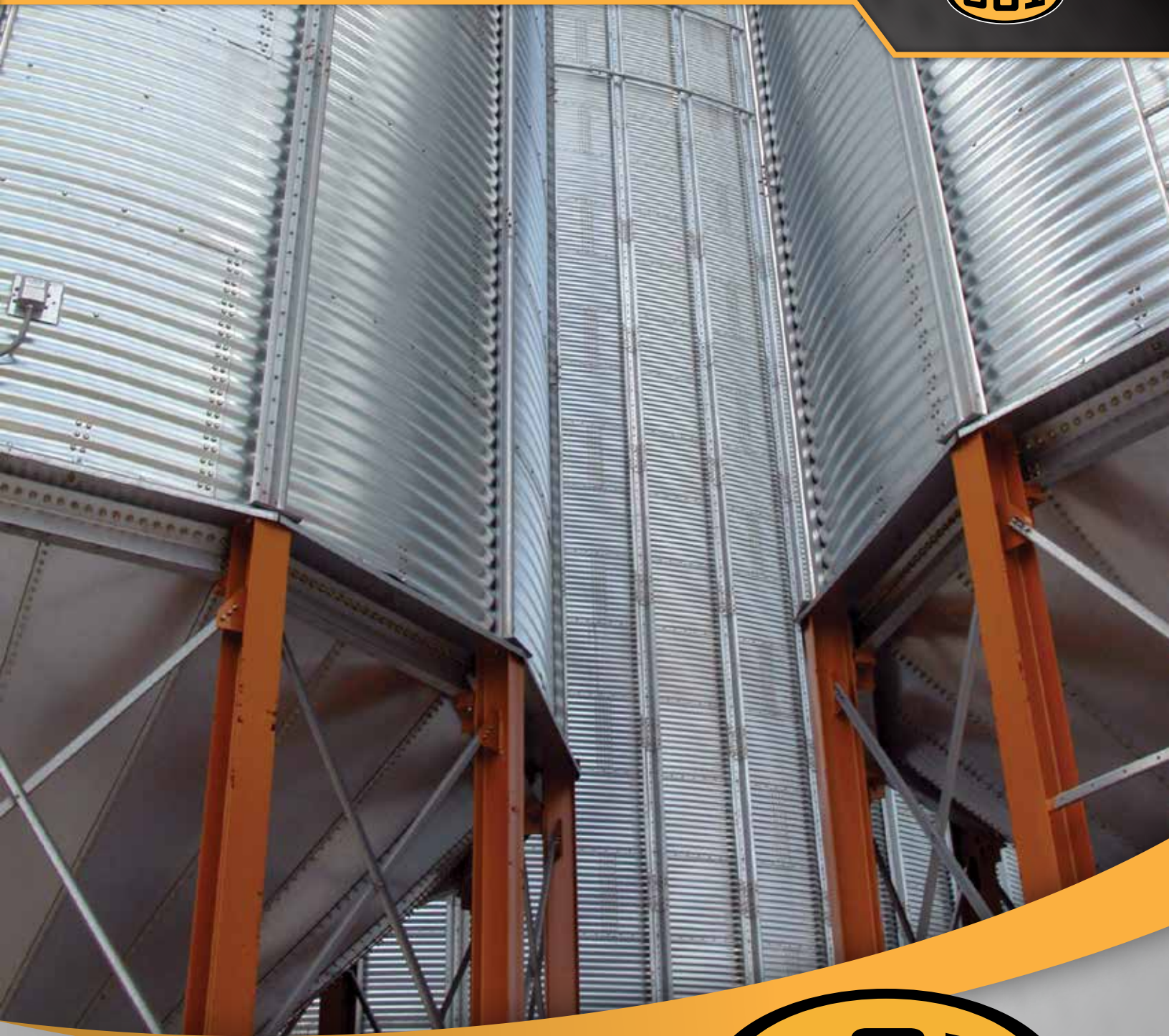


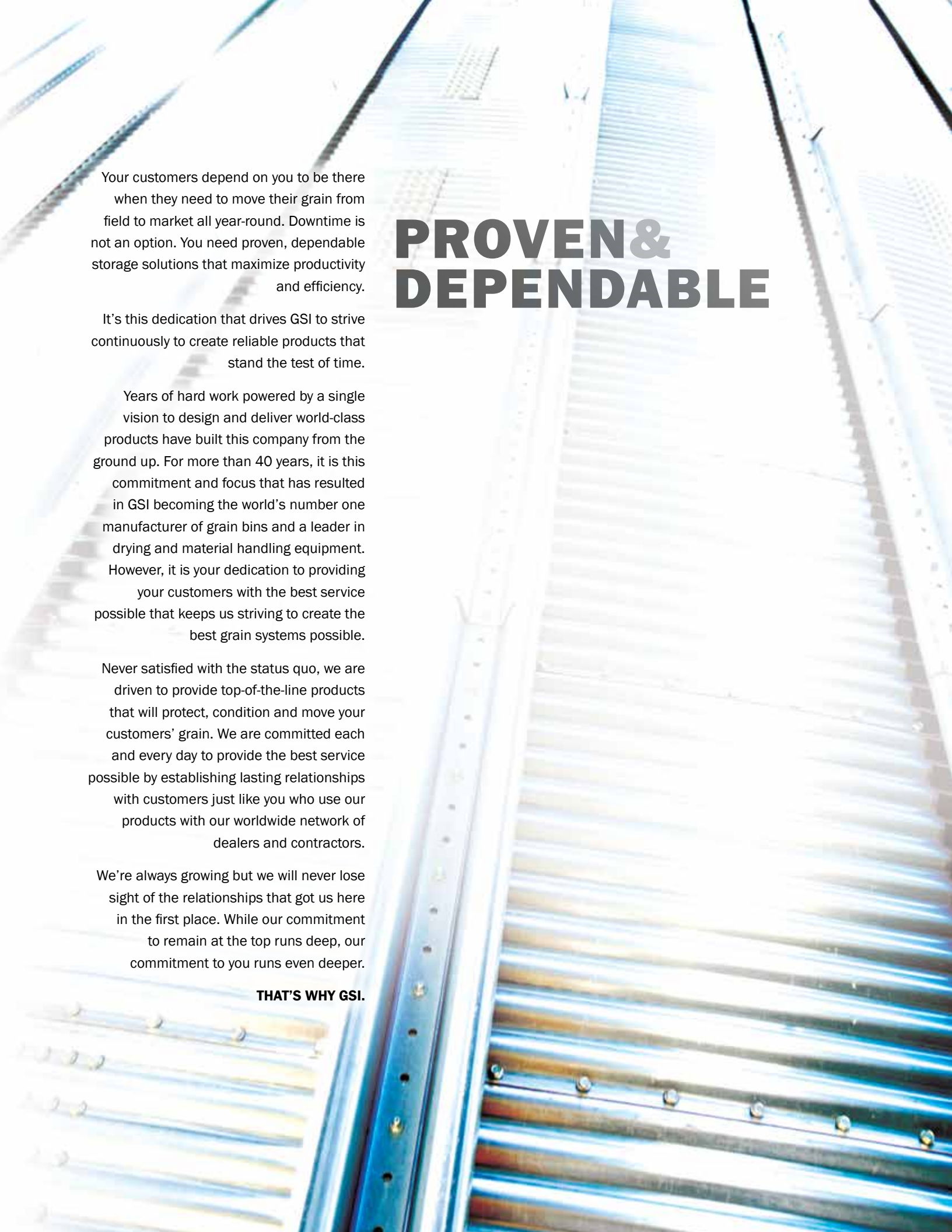
**FCHT AND NCHT SERIES**

# **COMMERCIAL HOPPER TANKS**



**PROVEN & DEPENDABLE™**

[WWW.GRAINSYSTEMS.COM](http://WWW.GRAINSYSTEMS.COM)



Your customers depend on you to be there when they need to move their grain from field to market all year-round. Downtime is not an option. You need proven, dependable storage solutions that maximize productivity and efficiency.

# PROVEN & DEPENDABLE

It's this dedication that drives GSI to strive continuously to create reliable products that stand the test of time.

Years of hard work powered by a single vision to design and deliver world-class products have built this company from the ground up. For more than 40 years, it is this commitment and focus that has resulted in GSI becoming the world's number one manufacturer of grain bins and a leader in drying and material handling equipment. However, it is your dedication to providing your customers with the best service possible that keeps us striving to create the best grain systems possible.

Never satisfied with the status quo, we are driven to provide top-of-the-line products that will protect, condition and move your customers' grain. We are committed each and every day to provide the best service possible by establishing lasting relationships with customers just like you who use our products with our worldwide network of dealers and contractors.

We're always growing but we will never lose sight of the relationships that got us here in the first place. While our commitment to remain at the top runs deep, our commitment to you runs even deeper.

**THAT'S WHY GSI.**

# COMMERCIAL HOPPER TANKS

## PRODUCT LINE-UP

Designed for today's modern grain producers and distributors, GSI's commercial hopper tanks provide years of reliable service with convenient features and benefits you won't find with other grain storage systems. Whether you're looking for wet or dry grain holding, overhead unloading systems, blending bins or long term grain storage, GSI can supply just the right tank to handle the job.

### FCHT

The FCHT series, with 4.00" corrugation, is available with a 45 degree hopper slope and is designed to cover a more specific "intermediate" range of capacities, providing the strength and reliability of a stiffened commercial tank and the cost advantage of a series designed for a specific limited size and capacity range.



### NCHT

The NCHT series, with 2.66" corrugation, is designed for those applications where routine clean-out is required. The NCHT is a heavy-duty hopper tank for either wet grain, dry grain or for some specialty applications. NCHT hopper tanks are available in 40 degree, 45 degree, and 60 degree hoppers to meet many different requirements.



	HOPPER TANK COMPARISONS	
	FCHT	NCHT
Diameter Range	18' - 24'	12' - 36'
Capacity Range	3,366 - 14,959 bu.	1,776 - 49,654 bu.
Corrugation	4"	2.66"
Stiffeners	2 per sidewall sheet	2 per sidewall sheet
Legs	Structural Welded	Structural Welded
Material Capabilities	52 lbs./cu. ft.	52 lbs./cu. ft.
Roof Style	Grain Bin	Grain Bin
Roof Peak Loads	6,000 lbs.	6,000 lbs.
Opening	16"	16" to 22"
Hopper Angles	45°	40°, 45°, 60°

# FEATURES

## COMMERCIAL HOPPER TANKS

### OVERLAPPING ROOF PANELS

GSI offers one of the strongest structural roof support systems in the industry featuring galvanized rafter systems spanning from eave to peak. Roof ribs are taller, fully double-lapped and have four extra reinforcing ledges providing increased strength and unbeatable weather protection.



### 2.66" OR 4.00" CORRUGATED SIDEWALL

The 2.66" corrugated sidewall design is used on GSI's NCHT tanks. The smaller corrugation, together with the 65,000 PSI (450 MPa) tensile steel, provides an all-around stronger bin. FCHT sidewall is also manufactured using high strength steel but in a wider 4.00" corrugation. Using the wider corrugation provides optimum support for tank sizes available in the FCHT range. Panels are assembled using graded, zinc-plated, dichromate coated bolts with sealing washers for a tight, weather resistant seal.

### HEAVY WIND RINGS

For additional support with taller tanks or higher wind areas, GSI manufactures galvanized steel rings that attach directly to the tank stiffeners. The rings strengthen the tank shell providing reinforcement against damaging wind.

### STRONG SIDEWALL STIFFENERS

Stiffeners are manufactured from high tensile strength steel, up to 70,000 PSI (483 MPa), and completely galvanized for durability. GSI stiffeners feature strong splice joints with large cross sectional areas, both critical elements of vertical stiffeners, and are installed two-post (two per sidewall panel) externally to bear directly on the base columns.

### HOPPER STRENGTH

Hopper strength is extremely critical to the life of the tank. Each hopper panel is precision fabricated from high-strength commercial galvanized steel and designed for maximum support. Hoppers are available in a variety of slopes to match the correct tank size and required application. Both 45 and 40 degree hoppers are generally used with most dry whole grain products. The 45 degree hoppers are also often used for "wet holding." A 60 degree hopper is used for "wet holding" or other applications where it is better suited.

### SOLID SUPPORT FROM THE GROUND UP

GSI commercial hopper tanks start at the concrete foundation with heavy structural wide-flanged columns, factory welded to thick steel base plates. Bolted to the top of each column are heavy compression angle segments, key components that join the columns, the hopper assembly and the tank body together as one complete unit.



## COMMERCIAL HOPPER TANKS



### **OPTIMUM VENTILATION**

The hinged grill vent features a vertically-mounted, large mesh, wire-formed screen to keep out pests and swings open freely to allow easy release of trash buildup. GSI also provides roof panels with an exclusive factory pre-punched, extruded lip for each vent.



### **HIGH PERFORMANCE AERATION SYSTEMS**

For commercial hopper tank conditioning, sturdy 14 gauge corrugated and perforated aeration tubes may be added for longer term storage. The system is designed to provide solid attachment to the hopper and allow flow of grain around the tube. Combined with a GSI inline centrifugal or vane-axial fan, GSI's aeration systems offer unbeatable grain conditioning efficiency and performance.



### **SPECIALLY DESIGNED ROLLER VALVE**

An optional roller valve assembly is designed to attach directly to the hopper discharge collar. Roller valve gates are equipped with machined rack and pinion gear sets controlled by either a hand or chain wheel. The roller valve is completely galvanized, simple to operate and provides years of trouble free service.



### **EASY ACCESS DOOR**

A standard 24" diameter round access door is located in the second ring of all GSI commercial hopper tanks. A heavy steel ring is fully welded to the sidewall and cold galvanize treated, making it one of the most durable and strongest doors available. The tight-sealing, inner door panel swings easily out of the way when open and latches securely with dual wedge-lock handles when closed.

### **LADDERS, PLATFORMS & LADDER CAGES**

Sturdy sidewall ladders, ladder cages and platforms provide easy access when entering, exiting or inspecting the tank. Ladder sections are die-formed from galvanized steel and come in 22" or 44" lengths. All ladder cages are completely galvanized, bolt directly to the prepunched sidewall ladder and feature a bell opening at the bottom of the cage allowing ample space when entering and exiting the ladder. Both ladders and platforms incorporate special slip-resistant features for a better grip. GSI also manufactures optional, full circle roof rings for additional convenience when working on or inspecting the tank roof.

### **Also available are GSI's X-Series Ladders, Platforms and Ladder Cages**

X-Series ladders feature step-through platforms and are mounted 90 degrees to the sidewall to eliminate toe hazards such as stiffeners, windrings, and other bracketry. X-Series ladder and stair packages are designed to meet OSHA specifications.



## COMMERCIAL HOPPER TANKS

### FCHT - 45° HOPPER

DIAMETER (FEET)	RINGS	MAX. CAPACITY (BU.)	EAVE HEIGHT (FEET)	PEAK HEIGHT (FEET)	CAPACITY (CUBIC FT.)	HOPPER CLEARANCE	METRIC TONS 800 KG/M <sup>3</sup>	METRIC TONS 721 KG/M <sup>3</sup>	METRIC TONS 640 KG/M <sup>3</sup>	EAVE HEIGHT (METERS)	PEAK HEIGHT (METERS)	MAXIMUM CAP. (CUBIC METERS)
18	3	3,366	22'4"	27'5"	4,189	34"	95	86	76	6.78	8.34	119
	4	4,152	26'0"	31'1"	5,167	34"	118	107	95	7.90	9.45	147
	5	4,939	29'8"	34'9"	6,146	34"	140	127	112	9.02	10.57	175
	6	5,725	33'4"	38'5"	7,125	34"	162	146	130	10.13	11.69	202
	7	6,512	37'0"	42'1"	8,103	34"	185	166	148	11.25	12.81	230
	8	7,298	40'8"	45'9"	9,082	34"	207	186	165	12.37	13.92	258
	9	8,084	44'4"	49'5"	10,060	34"	229	206	183	13.49	15.04	285
21	3	4,806	23'8"	29'7"	5,981	32"	136	123	109	7.19	9.01	170
	4	5,876	27'4"	33'3"	7,313	32"	167	150	133	8.31	10.13	208
	5	6,947	31'0"	36'11"	8,645	32"	196	177	157	9.42	11.25	245
	6	8,017	34'8"	40'7"	9,977	32"	227	205	182	10.54	12.36	283
	7	9,088	38'4"	44'3"	11,309	32"	257	232	206	11.66	13.48	321
	8	10,158	42'0"	47'11"	12,641	32"	287	259	230	12.78	14.60	358
	9	11,228	45'8"	51'7"	13,973	32"	318	286	254	13.89	15.72	396
24	3	6,571	24'7"	31'5"	8,177	31"	186	168	149	7.47	9.56	232
	4	7,969	28'3"	35'1"	9,917	31"	225	203	180	8.59	10.68	281
	5	9,367	31'11"	38'9"	11,656	31"	265	239	212	9.70	11.79	331
	6	10,765	35'7"	42'5"	13,396	31"	304	274	243	10.82	12.91	380
	7	12,163	39'3"	46'1"	15,136	31"	344	310	275	11.94	14.03	429
	8	13,561	42'11"	49'9"	16,876	31"	383	345	306	13.06	15.15	478
	9	14,959	46'7"	53'5"	18,615	31"	423	381	338	14.17	16.26	528

# SPECIFICATIONS

## COMMERCIAL HOPPER TANKS

### NCHT - 45° HOPPER

DIAMETER (FEET)	RINGS	MAX. CAPACITY (BU.)	EAVE HEIGHT (FEET)	PEAK HEIGHT (FEET)	CAPACITY (CUBIC FT.)	HOPPER CLEARANCE	METRIC TONS 800 KG/M <sup>3</sup>	METRIC TONS 721 KG/M <sup>3</sup>	METRIC TONS 640 KG/M <sup>3</sup>	EAVE HEIGHT (METERS)	PEAK HEIGHT (METERS)	MAXIMUM CAP. (CUBIC METERS)
12	6	1,825	24'2"	27'7"	2,271	32"	52	47	42	7.36	8.40	65
	7	2,079	26'10"	30'3"	2,587	32"	60	54	48	8.17	9.21	74
	8	2,334	29'6"	32'11"	2,904	32"	67	60	53	8.98	10.02	83
	9	2,587	32'2"	35'7"	3,220	32"	74	67	60	9.79	10.84	92
	10	2,842	34'10"	38'3"	3,537	32"	81	73	65	10.61	11.65	101
	11	3,096	37'6"	40'11"	3,853	32"	88	79	70	11.42	12.46	110
	12	3,350	40'2"	43'7"	4,168	32"	95	86	76	12.23	13.27	119
	13	3,604	42'10"	46'3"	4,485	32"	102	92	82	13.05	14.09	128
	14	3,858	45'6"	48'11"	4,801	32"	110	99	88	13.86	14.90	136
	15	4,113	48'2"	51'7"	5,118	32"	117	105	93	14.67	15.71	145
16	4,367	50'10"	54'3"	5,434	32"	124	112	100	15.48	16.53	154	
15	3	1,776	17'6"	21'10"	2,210	32"	51	46	41	5.36	6.65	63
	4	2,173	20'2"	24'6"	2,705	32"	62	56	50	6.18	7.46	77
	5	2,571	22'10"	27'2"	3,199	32"	73	66	59	6.99	8.27	91
	6	2,968	25'6"	29'10"	3,693	32"	84	76	68	7.80	9.09	105
	7	3,365	28'2"	32'6"	4,187	32"	95	86	76	8.61	9.90	119
	8	3,762	30'10"	35'2"	4,682	32"	107	97	86	9.43	10.71	133
	9	4,159	33'6"	37'10"	5,176	32"	118	107	95	10.24	11.52	147
	10	4,556	36'2"	40'6"	5,670	32"	129	117	104	11.05	12.34	161
	11	4,954	38'10"	43'2"	6,164	32"	140	127	112	11.86	13.15	175
	12	5,351	41'6"	45'10"	6,659	32"	151	137	121	12.68	13.96	189
	13	5,748	44'2"	48'6"	7,153	32"	163	147	131	13.49	14.78	203
	14	6,145	46'10"	51'2"	7,647	32"	174	157	140	14.30	15.59	217
	15	6,542	49'6"	53'10"	8,141	32"	185	167	148	15.12	16.40	231
	16	6,939	52'2"	56'6"	8,636	32"	196	177	157	15.93	17.21	245
17	7,337	54'10"	59'2"	9,130	32"	207	187	166	16.74	18.03	259	
18	7,734	57'6"	61'10"	9,624	32"	219	198	176	17.55	18.84	273	
18	5	3,866	24'6"	29'10"	4,811	32"	110	99	88	7.46	9.02	137
	6	4,438	27'2"	32'6"	5,523	32"	126	114	101	8.28	9.83	157
	7	5,010	29'10"	35'2"	6,235	32"	142	128	114	9.09	10.64	177
	8	5,582	32'6"	37'10"	6,947	32"	158	143	127	9.90	11.46	197
	9	6,154	35'2"	40'6"	7,658	32"	174	157	140	10.72	12.27	217
	10	6,726	37'10"	43'2"	8,370	32"	190	172	152	11.53	13.08	238
	11	7,298	40'6"	45'10"	9,082	32"	207	186	165	12.34	13.89	258
	12	7,870	43'2"	48'6"	9,793	32"	223	201	178	13.15	14.71	278
	13	8,442	45'10"	52'2"	10,505	32"	239	215	191	13.97	15.52	298
	14	9,013	48'6"	53'10"	11,217	32"	255	230	204	14.78	16.33	318
	15	9,586	51'2"	56'6"	11,929	32"	271	244	217	15.59	17.15	338
	16	10,157	53'10"	59'2"	12,640	32"	287	259	230	16.41	17.96	358
	17	10,730	56'6"	61'10"	13,353	32"	303	273	243	17.22	18.77	379
	18	11,301	59'2"	64'6"	14,064	32"	319	288	256	18.03	19.58	399
19	11,873	61'10"	67'2"	14,775	32"	335	302	268	18.84	20.40	419	
21	6	6,266	28'7"	34'7"	7,797	32"	178	160	142	8.71	10.53	221
	7	7,044	31'3"	37'3"	8,766	32"	200	180	160	9.52	11.34	249
	8	7,823	33'11"	39'11"	9,735	32"	222	200	178	10.33	12.15	276
	9	8,601	36'7"	42'7"	10,703	32"	243	219	195	11.14	12.96	304
	10	9,379	39'3"	45'3"	11,672	32"	265	239	212	11.96	13.78	331
	11	10,158	41'11"	47'11"	12,641	32"	287	259	230	12.77	14.59	358
	12	10,937	44'7"	50'7"	13,610	32"	309	279	247	13.58	15.40	386
	13	11,715	47'3"	53'3"	14,579	32"	331	299	265	14.40	16.22	413
	14	12,493	49'11"	55'11"	15,547	32"	353	318	283	15.21	17.03	441
	15	13,271	52'7"	58'7"	16,515	32"	375	338	300	16.02	17.84	468
	16	14,050	55'3"	61'3"	17,484	32"	397	358	318	16.83	18.65	496
	17	14,828	57'11"	63'11"	18,453	32"	419	377	335	17.65	19.47	523
	18	15,607	60'7"	66'7"	19,422	32"	441	397	353	18.46	20.28	550
	19	16,386	63'3"	69'3"	20,391	32"	463	417	370	19.27	21.09	578
20	17,164	65'11"	71'11"	21,360	32"	485	437	388	20.09	21.91	605	





# SPECIFICATIONS

## COMMERCIAL HOPPER TANKS

### NCHT - 45° HOPPER - CONTINUED

DIAMETER (FEET)	RINGS	MAX. CAPACITY (BU.)	EAVE HEIGHT (FEET)	PEAK HEIGHT (FEET)	CAPACITY (CUBIC FT.)	HOPPER CLEARANCE	METRIC TONS 800 KG/M <sup>3</sup>	METRIC TONS 721 KG/M <sup>3</sup>	METRIC TONS 640 KG/M <sup>3</sup>	EAVE HEIGHT (METERS)	PEAK HEIGHT (METERS)	MAXIMUM CAP. (CUBIC METERS)
24	5	7,460	27'5"	34'3"	9,284	32"	211	190	169	8.35	10.44	263
	6	8,477	30'1"	36'11"	10,549	32"	240	216	192	9.16	11.25	299
	7	9,497	32'9"	39'7"	11,815	32"	268	242	215	9.97	12.06	335
	8	10,514	35'5"	42'3"	13,080	32"	297	268	238	10.79	12.87	371
	9	11,531	38'1"	44'11"	14,345	32"	326	294	261	11.60	13.69	407
	10	12,548	40'9"	47'7"	15,610	32"	355	320	284	12.41	14.50	443
	11	13,565	43'5"	50'3"	16,876	32"	383	345	306	13.22	15.31	478
	12	14,583	46'1"	52'11"	18,141	32"	412	371	330	14.04	16.13	514
	13	15,600	48'9"	55'7"	19,406	32"	441	397	353	14.85	16.94	550
	14	16,617	51'5"	58'3"	20,672	32"	469	423	376	15.66	17.75	586
	15	17,634	54'1"	60'11"	21,937	32"	498	449	399	16.48	18.56	622
	16	18,651	56'9"	63'7"	23,202	32"	526	474	421	17.29	19.38	658
	17	19,668	59'5"	66'3"	24,467	32"	555	500	444	18.10	20.19	693
	18	20,685	62'1"	68'11"	25,732	32"	584	526	467	18.91	21.00	729
19	21,702	64'9"	71'7"	26,998	32"	613	552	490	19.73	21.81	765	
20	22,719	67'5"	74'3"	28,263	32"	641	578	513	20.54	22.63	801	
21	23,737	70'1"	76'11"	29,528	32"	670	604	536	21.35	23.44	837	
22	24,754	72'9"	79'7"	30,794	32"	698	629	559	22.16	24.25	872	
27	6	11,100	31'7"	39'3"	13,814	32"	317	283	252	9.60	11.96	392
	7	12,387	34'3"	41'11"	15,415	32"	353	315	280	10.42	12.77	437
	8	13,674	36'11"	44'7"	17,016	32"	389	348	309	11.23	13.59	482
	9	14,961	39'7"	47'3"	18,618	32"	425	381	338	12.04	14.40	528
	10	16,248	42'3"	49'11"	20,219	32"	462	414	368	12.86	15.21	573
	11	17,534	44'11"	52'7"	21,820	32"	498	446	396	13.67	16.02	618
	12	18,821	47'7"	55'3"	23,422	32"	534	479	425	14.48	16.84	664
	13	20,108	50'3"	57'11"	25,023	32"	571	512	454	15.29	17.65	709
	14	21,395	52'11"	60'7"	26,625	32"	607	545	484	16.11	18.46	754
	15	22,681	55'7"	63'3"	28,226	32"	643	578	513	16.92	19.28	800
	16	23,968	58'3"	65'11"	29,827	32"	679	610	541	17.73	20.09	845
	17	25,255	60'11"	68'7"	31,429	32"	716	642	570	18.55	20.90	890
	18	26,542	63'7"	71'3"	33,030	32"	752	675	600	19.36	21.71	936
	19	27,829	66'3"	73'11"	34,631	32"	788	708	629	20.17	22.53	981
20	29,116	68'11"	76'7"	36,233	32"	824	740	657	20.98	23.34	1,027	
30	6	14,163	33'0"	41'8"	17,624	32"	400	360	360	10.06	12.68	500
	7	15,751	35'8"	44'4"	19,601	32"	445	401	401	10.87	13.50	556
	8	17,340	38'4"	47'0"	21,578	32"	490	441	441	11.68	14.31	612
	9	18,929	41'0"	49'8"	23,555	32"	535	482	482	12.50	15.12	668
	10	20,517	43'8"	52'4"	25,532	32"	580	522	522	13.31	15.93	723
	11	22,106	46'4"	55'0"	27,509	32"	624	562	562	14.12	16.75	779
	12	23,695	49'0"	57'8"	29,487	32"	669	603	603	14.94	17.56	835
	13	25,283	51'8"	60'4"	31,464	32"	714	643	643	15.75	18.37	891
	14	26,872	54'4"	63'0"	33,440	32"	759	684	684	16.56	19.19	947
	15	28,461	57'0"	65'8"	35,417	32"	804	724	724	17.37	20.00	1,003
	16	30,049	59'8"	68'4"	37,394	32"	848	764	764	18.19	20.81	1,059
	17	31,638	62'4"	71'0"	39,371	32"	893	805	805	19.00	21.62	1,115
	18	33,226	65'0"	73'8"	41,348	32"	938	845	845	19.81	22.44	1,171
	19	34,815	67'8"	76'4"	43,325	32"	982	886	886	20.62	23.25	1,227
20	36,403	70'4"	79'0"	45,302	32"	1027	926	926	21.44	24.06	1,283	
36	6	18,887	36'4"	46'8"	23,503	36"	533	480	427	11.06	14.22	666
	7	20,809	39'0"	49'4"	25,895	36"	587	529	470	11.87	15.03	734
	8	22,731	41'8"	52'0"	28,288	36"	642	578	513	12.68	15.84	802
	9	24,653	44'4"	54'8"	30,680	36"	696	627	557	13.49	16.65	869
	10	26,576	47'0"	57'4"	33,072	36"	750	676	600	14.31	17.47	937
	11	28,498	49'8"	60'0"	35,464	36"	804	725	644	15.12	18.28	1,005
	12	30,421	52'4"	62'8"	37,857	36"	859	774	687	15.93	19.09	1,072
	13	32,343	55'0"	65'4"	40,249	36"	913	823	730	16.74	19.90	1,140
	14	34,265	57'8"	68'0"	42,641	36"	967	872	774	17.56	20.72	1,208
	15	36,188	60'4"	70'8"	45,034	36"	1,021	921	817	18.37	21.53	1,276
	16	38,110	63'0"	73'4"	47,426	36"	1,075	969	860	19.18	22.34	1,343
	17	40,033	65'8"	76'0"	49,819	36"	1,129	1,018	903	20.00	23.16	1,411
	18	41,955	68'4"	78'8"	52,211	36"	1,183	1,067	947	20.81	23.97	1,479
	19	43,878	71'0"	81'4"	54,603	36"	1,238	1,116	990	21.62	24.78	1,547
20	45,800	73'8"	84'0"	56,996	36"	1,292	1,164	1,034	22.43	25.59	1,614	
21	47,723	76'4"	86'8"	59,388	36"	1,346	1,213	1,077	23.25	26.41	1,682	
22	49,645	79'0"	89'4"	61,781	36"	1,401	1,262	1,121	24.06	27.22	1,750	

# SPECIFICATIONS

## COMMERCIAL HOPPER TANKS

### NCHT - 40° HOPPER

DIAMETER (FEET)	RINGS	MAX. CAPACITY (BU.)	EAVE HEIGHT (FEET)	PEAK HEIGHT (FEET)	CAPACITY (CUBIC FT.)	HOPPER CLEARANCE	METRIC TONS 800 KG/M <sup>3</sup>	METRIC TONS 721 KG/M <sup>3</sup>	METRIC TONS 640 KG/M <sup>3</sup>	EAVE HEIGHT (METERS)	PEAK HEIGHT (METERS)	MAXIMUM CAP. (CUBIC METERS)
27	6	10,747	28'5"	36'2"	13,374	28"	304	274	243	8.65	11.01	379
	7	12,034	31'1"	38'10"	14,976	28"	341	307	273	9.46	11.82	425
	8	13,321	33'9"	41'6"	16,577	28"	376	339	301	10.28	12.63	470
	9	14,608	36'5"	44'2"	18,178	28"	413	372	330	11.09	13.45	515
	10	15,894	39'1"	46'10"	19,780	28"	449	405	359	11.90	14.26	561
	11	17,181	41'9"	49'6"	21,381	28"	486	438	389	12.72	15.07	606
	12	18,468	44'5"	52'2"	22,982	28"	521	470	417	13.53	15.89	651
	13	19,755	47'1"	54'10"	24,584	28"	558	503	446	14.34	16.70	697
	14	21,042	49'9"	57'6"	26,185	28"	594	535	475	15.15	17.51	742
	15	22,328	52'5"	60'2"	27,786	28"	631	568	505	15.97	18.32	787
	16	23,615	55'1"	62'10"	29,388	28"	667	601	534	16.78	19.14	833
	17	24,902	57'9"	65'6"	30,989	28"	703	633	562	17.59	19.95	878
	18	26,189	60'5"	68'2"	32,591	28"	739	666	591	18.41	20.76	923
19	27,476	63'1"	70'10"	34,192	28"	776	699	621	19.22	21.57	969	
20	28,763	65'9"	73'6"	35,793	28"	812	732	650	20.03	22.39	1,014	
30	6	13,678	29'7"	38'2"	17,022	28"	386	348	309	9.01	11.63	483
	7	15,267	32'3"	40'10"	18,999	28"	431	389	345	9.82	12.44	538
	8	16,856	34'11"	43'6"	20,976	28"	476	429	381	10.63	13.26	594
	9	18,444	37'7"	46'2"	22,953	28"	521	470	417	11.45	14.07	650
	10	20,033	40'3"	48'10"	24,930	28"	565	509	452	12.26	14.88	706
	11	21,621	42'11"	51'6"	26,907	28"	610	550	488	13.07	15.70	762
	12	23,210	45'7"	54'2"	28,884	28"	655	591	524	13.88	16.51	818
	13	24,799	48'3"	56'10"	30,861	28"	700	631	560	14.70	17.32	874
	14	26,388	50'11"	59'6"	32,838	28"	745	672	596	15.51	18.13	930
	15	27,976	53'7"	62'2"	34,815	28"	790	712	632	16.32	18.95	986
	16	29,565	56'3"	64'10"	36,792	28"	834	752	667	17.14	19.76	1,042
	17	31,153	58'11"	67'6"	38,768	28"	879	792	703	17.95	20.57	1,098
	18	32,742	61'7"	70'2"	40,745	28"	924	833	739	18.76	21.39	1,154
19	34,330	64'3"	72'10"	42,722	28"	969	873	775	19.57	22.20	1,210	
20	35,919	66'11"	75'6"	44,699	28"	1,014	914	811	20.39	23.01	1,266	
36	6	18,050	32'2"	42'6"	22,462	32"	510	460	408	9.79	12.95	637
	7	19,972	34'10"	45'2"	24,854	32"	564	508	451	10.60	13.76	704
	8	21,894	37'6"	47'10"	27,246	32"	618	557	494	11.41	14.57	772
	9	23,816	40'2"	50'6"	29,638	32"	672	606	538	12.22	15.38	840
	10	25,739	42'10"	53'2"	32,030	32"	726	655	581	13.04	16.20	907
	11	27,661	45'6"	55'10"	34,423	32"	781	704	625	13.85	17.01	975
	12	29,584	48'2"	58'6"	36,815	32"	835	753	668	14.66	17.82	1,043
	13	31,506	50'10"	61'2"	39,207	32"	889	801	711	15.47	18.63	1,111
	14	33,428	53'6"	63'10"	41,600	32"	943	850	755	16.29	19.45	1,178
	15	35,351	56'2"	66'6"	43,992	32"	998	899	798	17.10	20.26	1,246
	16	37,273	58'10"	69'2"	46,385	32"	1,052	948	842	17.91	21.07	1,314
	17	39,196	61'6"	71'10"	48,777	32"	1,106	997	885	18.73	21.89	1,382
	18	41,118	64'2"	74'6"	51,169	32"	1,160	1,045	928	19.54	22.70	1,449



# SPECIFICATIONS

## COMMERCIAL HOPPER TANKS

### NCHT - 60° HOPPER

DIAMETER (FEET)	RINGS	MAX. CAPACITY (BU.)	EAVE HEIGHT (FEET)	PEAK HEIGHT (FEET)	CAPACITY (CUBIC FT.)	HOPPER CLEARANCE	METRIC TONS 800 KG/M <sup>3</sup>	METRIC TONS 721 KG/M <sup>3</sup>	METRIC TONS 640 KG/M <sup>3</sup>	EAVE HEIGHT (METERS)	PEAK HEIGHT (METERS)	MAXIMUM CAP. (CUBIC METERS)	
15	3	2,052	22'7"	26'9"	2,553	32"	59	53	47	6.87	8.15	73	
	4	2,449	25'3"	29'5"	3,047	32"	70	63	56	7.68	8.97	87	
	5	2,846	27'11"	32'1"	3,541	32"	81	73	65	8.49	9.78	101	
	6	3,243	30'7"	34'9"	4,036	32"	92	83	74	9.31	10.59	115	
	7	3,640	33'3"	37'5"	4,530	32"	104	94	83	10.12	11.40	129	
	8	4,037	35'11"	40'1"	5,024	32"	115	104	92	10.93	12.22	143	
	9	4,435	38'7"	42'9"	5,518	32"	126	114	101	11.74	13.03	157	
	10	4,832	41'3"	45'5"	6,013	32"	137	124	110	12.56	13.84	171	
	11	5,229	43'11"	48'1"	6,507	32"	148	133	119	13.37	14.65	185	
	12	5,626	46'7"	50'9"	7,001	32"	160	144	128	14.18	15.47	199	
	13	6,023	49'3"	53'5"	7,495	32"	171	154	137	15.00	16.28	213	
	14	6,420	51'11"	56'1"	7,990	32"	182	164	146	15.81	17.09	227	
	15	6,818	54'7"	58'9"	8,484	32"	193	174	154	16.62	17.91	241	
	16	7,215	57'3"	61'5"	8,978	32"	204	184	163	17.43	18.72	255	
	17	7,612	59'11"	64'1"	9,472	32"	216	195	173	18.25	19.53	269	
	18	8,009	62'7"	66'9"	9,967	32"	227	205	182	19.06	20.34	283	
	18	5	4,342	30'6"	35'7"	5,404	32"	123	111	99	9.28	10.83	154
		6	4,914	33'2"	38'3"	6,115	32"	140	126	112	10.09	11.65	174
7		5,486	35'10"	40'11"	6,827	32"	156	140	125	10.91	12.46	194	
8		6,058	38'6"	43'7"	7,539	32"	172	155	138	11.72	13.27	214	
9		6,630	41'2"	46'3"	8,251	32"	188	169	150	12.53	14.08	234	
10		7,202	43'10"	48'11"	8,962	32"	204	184	163	13.34	14.90	254	
11		7,774	46'6"	51'7"	9,674	32"	220	198	176	14.16	15.71	274	
12		8,345	49'2"	54'3"	10,385	32"	236	213	189	14.97	16.52	295	
13		8,918	51'10"	56'11"	11,098	32"	252	227	202	15.78	17.34	315	
14		9,489	54'6"	59'7"	11,809	32"	268	242	215	16.60	18.15	335	
15		10,062	57'2"	62'3"	12,521	32"	285	257	228	17.41	18.96	355	
16		10,633	59'10"	64'11"	13,233	32"	301	271	241	18.22	19.77	375	
17		11,206	62'6"	67'7"	13,945	32"	317	286	254	19.03	20.59	395	
18		11,777	65'2"	70'3"	14,656	32"	333	300	266	19.85	21.40	416	
19		12,349	67'10"	72'11"	15,367	32"	349	315	279	20.66	22.21	436	
21		6	7,022	35'9"	41'9"	8,738	32"	199	179	159	10.88	12.70	248
		7	7,800	38'5"	44'5"	9,707	32"	221	199	177	11.70	13.52	275
		8	8,578	41'1"	47'1"	10,675	32"	243	219	195	12.51	14.33	303
	9	9,357	43'9"	49'9"	11,644	32"	265	239	212	13.32	15.14	330	
	10	10,135	46'5"	52'5"	12,613	32"	286	258	229	14.14	15.96	358	
	11	10,914	49'1"	55'1"	13,581	32"	308	278	247	14.95	16.77	385	
	12	11,693	51'9"	57'9"	14,551	32"	330	298	264	15.76	17.58	413	
	13	12,471	54'5"	60'5"	15,519	32"	352	318	282	16.57	18.39	440	
	14	13,249	57'1"	63'1"	16,487	32"	374	338	300	17.39	19.21	467	
	15	14,027	59'9"	65'9"	17,456	32"	397	357	317	18.20	20.02	495	
	16	14,806	62'5"	68'5"	18,425	32"	419	377	335	19.01	20.83	522	
	17	15,584	65'1"	71'1"	19,394	32"	441	397	353	19.82	21.65	550	
	18	16,363	67'9"	73'9"	20,363	32"	462	416	370	20.64	22.46	577	
	19	17,141	70'5"	76'5"	21,331	32"	484	436	387	21.45	23.27	605	
20	17,920	73'1"	79'1"	22,300	32"	506	456	405	22.26	24.08	632		

Cubic Meters based on 28 degree angle of repose. All commercial bins are designed for the storage of grain and other free-flowing materials weighing up to 52 lbs. per cubic foot. Maximum bushel capacity based on 6% compaction. Maximum storage capacities reflect grain peaked on center, using an angle of repose of 28 degrees. Other ring heights available in some diameters. Peak heights shown for 30 degree slope roofs.

Typical Grain Densities:

Corn approximately 721 kg/m<sup>3</sup> (45 lb/ft<sup>3</sup>); Wheat approximately 800 kg/m<sup>3</sup> (50 lb/ft<sup>3</sup>); Rice approximately 640 kg/m<sup>3</sup> (40 lb/ft<sup>3</sup>)

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