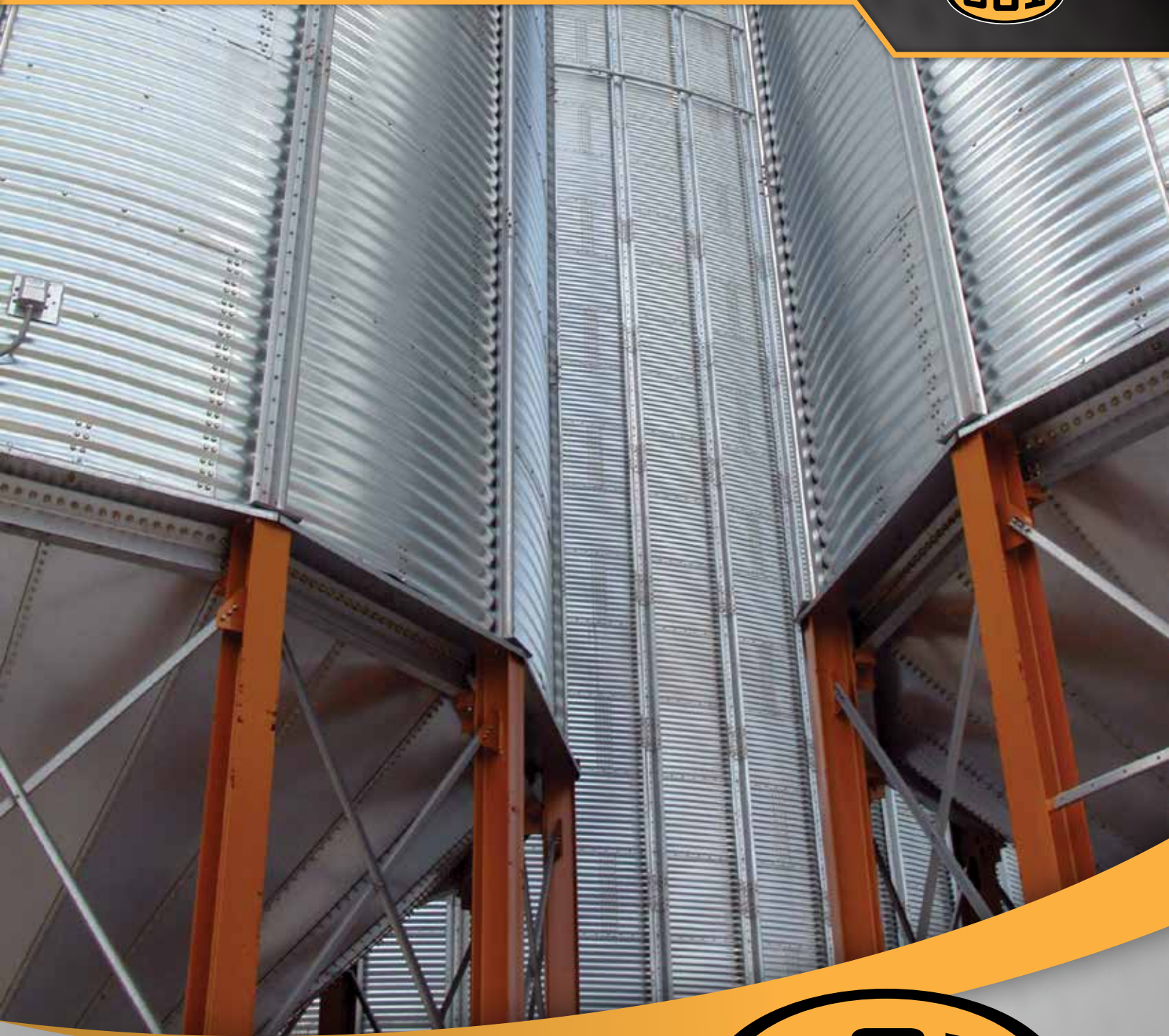


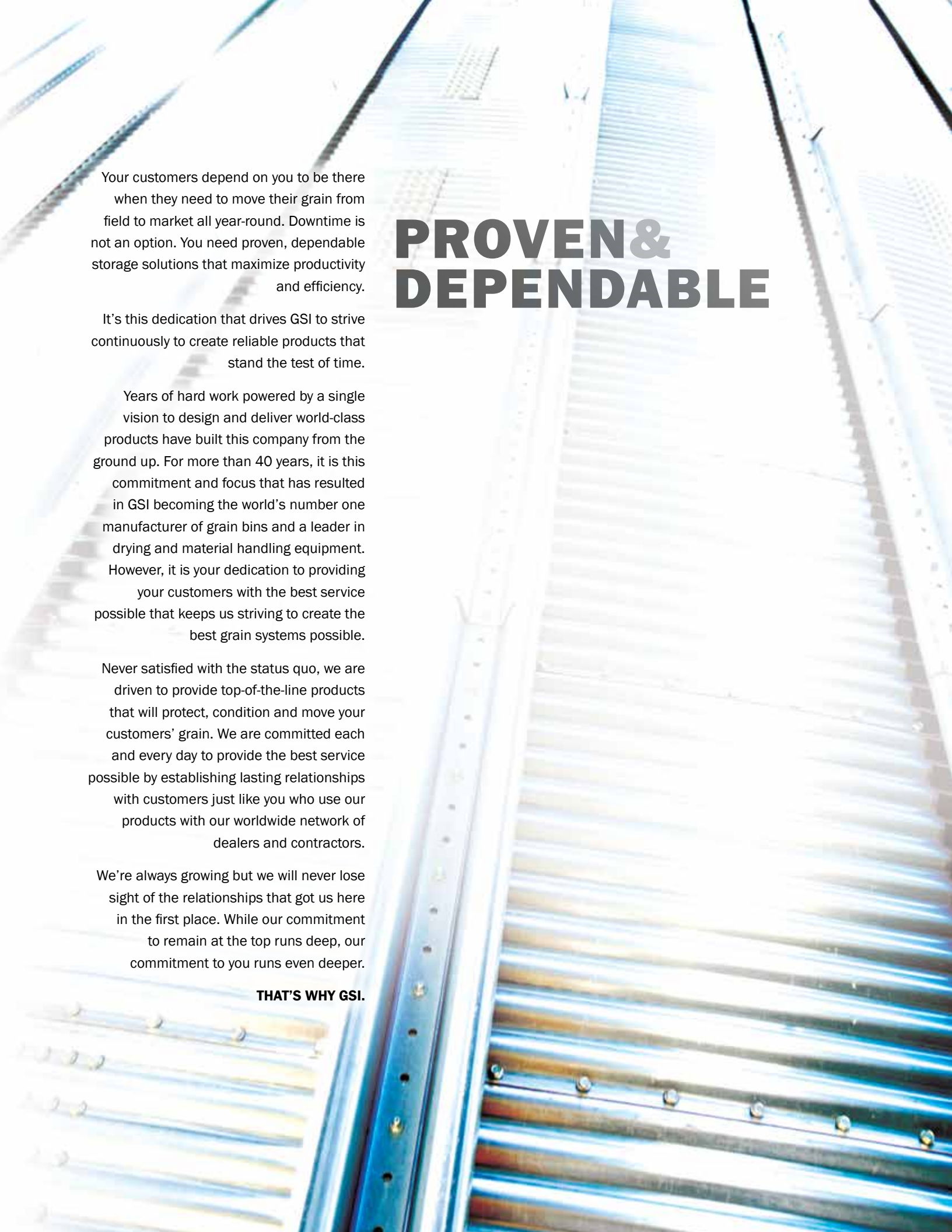
FCHT AND NCHT SERIES

COMMERCIAL HOPPER TANKS



PROVEN & DEPENDABLE™

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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° |

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 ³ | METRIC TONS 721 KG/M ³ | METRIC TONS 640 KG/M ³ | 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 ³ | METRIC TONS 721 KG/M ³ | METRIC TONS 640 KG/M ³ | 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^3 | METRIC TONS 721 KG/M^3 | METRIC TONS 640 KG/M^3 | 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 ³ | METRIC TONS 721 KG/M ³ | METRIC TONS 640 KG/M ³ | 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 |



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 ³ | METRIC TONS 721 KG/M ³ | METRIC TONS 640 KG/M ³ | 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/m³ (45 lb/ft³); Wheat approximately 800 kg/m³ (50 lb/ft³); Rice approximately 640 kg/m³ (40 lb/ft³)

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