

# Grain Hopper Tanks

*Bulk feed tanks and wet holding bins in a variety of diameters*



**"Your Complete  
Systems  
Manufacturer."**



## Strength & Durability

High tensile steel sidewall sheets, with a galvanized coating provide outstanding strength and durability along with the 2-2/3" (68mm) wide by 1/2" (13mm) deep corrugation and precision formed panel. GSI also provides solid, comfortable access via an optional fully die-formed side ladder with dimpled non-skid rungs.



## Legs & Anchors

GSI tanks are supported by our own unique, roll-formed, fully galvanized 6-bend legs (manufactured on GSI's exclusive, computer controlled machinery), providing significantly greater strength than simple angle iron legs and greater corrosion resistance and longer life than painted legs. Roll-formed cross ties and two-piece leg anchor sections, also galvanized, provide strength, stability, support and load transfer.

## Wet Holding Bin

Wet holding bins need to be able to support slightly heavier loads than typical ground feed bulk tanks. They are available in 7', 9', 12', 15', 18' and 21' diameters and can be used for temporary storage, adapted to several grain drying and conditioning systems, or can serve as long term storage for properly dried grain. GSI hopper tanks are designed to hold 45 lbs. per cubic foot, with total bin capacities exceeding 150 metric tons (or over 6000 bu.). A 45 degree hopper slope provides optimum material flow for unloading and rounded truss head bolts reduce "bridging" of contents on inner surfaces. Optional view window level indicators can also be added for convenient monitoring of grain loading and unloading.



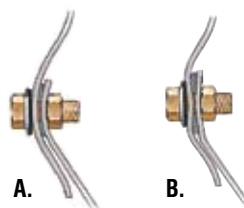
## Ribbed Roofing

GSI manufactures roofs from prime, high tensile, galvanized steel. The higher tensile steel adds up to 20% more strength, with no extra weight, which is critical in clear span roof structural design. Roof eave clearance can be adjusted at the time of installation. Each roll formed roof rib has four supportive bends in the vertical sides for maximum strength. Tall roof ribs are fully double overlapped for

moisture resistance and increased strength. The easy to open peak cap provides a large 30" diameter opening for fast filling.

## Hopper Bottoms

Tank hoppers are available in three slopes: 45°, for dry, free flowing grain and 60° or 67° for harder flowing materials. Hopper panels are die-formed with rounded corners and sealed edges down-turned for a weather-tight fit. In addition, assembly with rounded, truss-head bolts reduces "bridging" of



contents on inner surfaces. The "eave", the upper edge where the hopper is joined to the sidewall, is specially die-formed to conform to the shape of the sidewall corrugation (See A.). Most other manufacturers depend on crimping and bolt pressure to force the connection (See B.)...which produces corrosion-prone distortion and "dimpling" of the sidewall. GSI's industry exclusive die-formed eave provides a much tighter seal and smoother flow of material.

## Heavy Duty Boots



Multiple outlet requirements can be easily handled by our 22" (559mm) all metal boot. This boot, which can be fitted to any GSI grain hopper tank, will allow installation of up to four feed lines in several directions at once. GSI's 16" (406mm) parabolic boot (available in straight drop or 30° models) is made from the very latest in ultra high impact polypropylene for greater flexibility, dependability and durability.



Straight Drop Boot



30° Drop Boot



## Rigid Auger

For your high capacity material handling needs, GSI offers a complete line of Rigid Augers and accessories. Available in diameters 4", 6", and 8", and in lengths from 11' to 21', the GSI Rigid Auger system can be configured to meet your most demanding applications. With capacities up to 2100 bushels per hour, the GSI Rigid Augers can make quick work of any of your material handling jobs. GSI also offers a variety of auger accessories to further enhance the versatility of your material handling system.

## Rotary Unloader

Designed to fit below the 22" Maxi-Flo boot, GSI's rotary unloaders are available for 2.2" (55mm), 3" (75mm), 3.5" (90mm) and 5" (125mm) Flex-Flo™ or 4", 6", and 8" rigid auger systems.



## Special Tanks

GSI can provide bulk material storage and handling for a variety of applications on and off the farm. From customized discharge heights to high wind and seismic engineering for geographically sensitive locations, GSI can insure that you receive the best configuration to fit your needs. Equipment for microbreweries, pistachio and peanut producers, as well as the aquaculture industry are just a few examples of GSI's ongoing efforts to fill the increasing demand for more productive and cost efficient application-specific systems.

## Bulk Feed Tanks

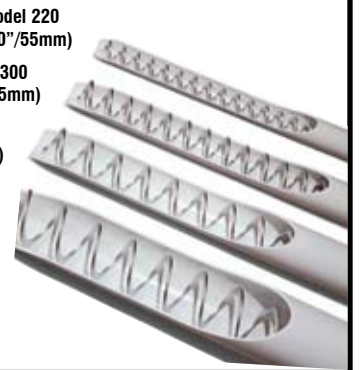
Also there are steeper (60° and 67°) hopper slopes and sealed roofs available for your ground feed handling needs.



## Flex-Flo™ Flexible Auger Systems

### Flex-Flo™ Models

Both tubing and augers are available in four sizes and five models with capacities ranging from 15 lbs. to 220 lbs./minute. Whether it's ground feed, crumble feed, mash, high moisture corn, shelled corn or pellets, GSI has the equipment to handle it. For corn with up to 27% moisture and other hard to flow



materials, GSI also offers a Flex-Flo™ High Roughage system which incorporates a special combination of a 3" (76mm) auger in a 3-1/2" (89mm) tube to reduce plugging.

# SPECIFICATIONS

Part Number				Maximum Capacity				Overall Height	
Model	Diameter	No. Rings	Angle of Hopper	Bushel	Cubic Feet	Metric Tons	U.S. Tons	Feet	Meters
GHT	7	1	45°	137	170.09	3.09	3.40	9'10"	3.02
GHT	7	2	45°	218	271.64	4.93	5.43	12'6"	3.83
GHT	7	3	45°	300	373.18	6.77	7.46	15'2"	4.65
GHT	7	4	45°	381	474.73	8.61	9.49	17'10"	5.46
GHT	7	5	45°	463	576.27	10.46	11.53	20'6"	6.27
GHT	7	6	45°	545	677.81	12.30	13.56	23'2"	7.09
GHT	9	2	45°	388	482.73	8.76	9.65	14'2"	4.32
GHT	9	3	45°	523	650.59	11.80	13.01	16'10"	5.13
GHT	9	4	45°	658	818.45	14.85	16.37	19'6"	5.94
GHT	9	5	45°	793	986.32	17.89	19.73	22'2"	6.75
GHT	9	6	45°	927	1154.18	20.94	23.08	24'10"	7.56
GHT	12	2	45°	786	946.87	19.34	21.30	16'9"	5.13
GHT	12	3	45°	1039	1245.30	25.44	28.02	19'5"	5.94
GHT	12	4	45°	1290	1543.72	31.53	34.73	22'1"	6.76
GHT	12	5	45°	1542	1842.15	37.64	41.45	24'8"	7.56
GHT	12	6	45°	1794	2140.57	43.73	48.16	27'5"	8.38
GHT	12	7	45°	2045	2439.00	49.83	54.88	30'1"	9.20
GHT	15	2	45°	1340	1617.32	33.04	36.39	19'1"	5.84
GHT	15	3	45°	1733	2083.61	42.57	46.88	21'9"	6.65
GHT	15	4	45°	2127	2549.90	52.09	57.37	24'5"	7.46
GHT	15	5	45°	2520	3016.18	61.52	67.86	27'1"	8.28
GHT	15	6	45°	2914	3482.47	71.15	78.36	29'9"	9.09
GHT	15	7	45°	3307	3948.76	80.68	88.85	32'5"	9.91
GHT	15	8	45°	3700	4415.05	90.20	99.34	35'1"	10.72
GHT	18	2	45°	2089	2526.99	51.58	56.86	21'6"	6.65
GHT	18	3	45°	2656	3198.44	65.29	71.97	24'2"	7.36
GHT	18	4	45°	3222	3869.90	78.99	87.07	26'10"	8.17
GHT	18	5	45°	3789	4541.35	92.70	102.18	29'6"	8.99
GHT	18	6	45°	4355	5212.81	106.38	117.29	32'2"	9.80
GHT	18	7	45°	4922	5884.26	120.09	132.40	34'10"	10.61
GHT	18	8	45°	5488	6555.72	133.79	147.50	37'6"	11.42
GHT	21	2	45°	3061	3709.18	75.70	83.44	23'9"	7.24
GHT	21	3	45°	3832	4623.55	94.36	104.01	26'5"	8.05
GHT	21	4	45°	4603	5536.32	113.00	124.57	29'1"	8.86
GHT	21	5	45°	5374	6450.84	131.60	145.13	31'9"	9.68
GHT	21	6	45°	6145	7364.65	150.30	165.69	34'5"	10.49
BFT	6	1	60°	111	137.99	2.50	2.76	10'7"	3.25
BFT	6	2	60°	171	212.60	3.86	4.25	13'3"	4.06
BFT	6	3	60°	231	287.20	5.21	5.74	15'10"	4.85
BFT	6	4	60°	291	361.80	6.56	7.24	18'7"	5.69
BFT	7	1	67°	185	230.09	4.17	4.60	13'6"	4.12
BFT	7	2	67°	266	331.63	6.02	6.63	16'2"	4.93
BFT	7	3	67°	348	433.17	7.86	8.66	18'9"	5.75
BFT	7	4	67°	430	534.72	9.70	10.69	21'6"	6.56
BFT	7	5	67°	511	636.26	11.54	12.73	24'2"	7.37
BFT	7	6	67°	593	737.81	13.39	14.76	26'10"	8.18
BFT	9	1	60°	308	383.88	6.96	7.69	14'1"	4.30
BFT	9	2	60°	443	551.75	10.01	11.04	16'9"	5.11
BFT	9	3	60°	578	719.62	13.06	14.39	19'5"	5.92
BFT	9	4	60°	713	887.48	16.10	17.75	22'1"	6.74
BFT	9	5	60°	848	1055.34	19.15	21.11	24'8"	7.55
BFT	9	6	60°	983	1223.21	22.19	24.46	27'5"	8.36
BFT	12	2	60°	923	1109.27	22.64	24.96	20'6"	6.25
BFT	12	3	60°	1175	1407.69	28.73	31.67	23'2"	7.06
BFT	12	4	60°	1427	1706.12	34.82	38.39	25'10"	7.87
BFT	12	5	60°	1679	2004.54	40.91	45.10	28'6"	8.69
BFT	12	6	60°	1931	2302.96	47.00	51.82	31'2"	9.50
BFT	12	7	60°	2184	2602.24	53.12	58.56	33'10"	10.31
BFT	15	2	60°	1608	1934.95	39.49	43.54	23'11"	7.29
BFT	15	3	60°	2001	2401.22	49.00	54.03	26'7"	8.10
BFT	15	4	60°	2395	2867.50	58.52	64.52	29'3"	8.92
BFT	15	5	60°	2788	3333.77	68.04	75.01	31'11"	9.73
BFT	15	6	60°	3182	3800.04	77.55	85.50	34'7"	10.54

**7' - 9' Grain Hopper Tanks (GHT - 45 degree Hopper)**

Designed for the storage of free flowing material having a maximum density of 45 pounds per cubic foot. Bushel capacities are calculated with no compaction and to full cubic foot capacities. Weight capacities are calculated at 40 pounds per cubic foot.

**12' - 21' Grain Hopper Tanks (GHT - 45 degree Hopper)**

Designed for the storage of free flowing material having a maximum density of 45 pounds per cubic foot. Bushel capacities are calculated with 5% compaction and at a 27-degree angle of repose. Weight capacities are calculated at 45 pounds per cubic foot.

**6' - 9' Bulk Feed Tanks (BFT - 60 & 67 degree Hoppers)**

Designed for the storage of free flowing material having a maximum density of 40 pounds per cubic foot. Bushel capacities are calculated with no compaction and to full cubic foot capacities. Weight capacities are calculated at 40 pounds per cubic foot.

**12' - 15' Bulk Feed Tanks (BFT - 60 & 67 degree Hoppers)**

Designed for the storage of free flowing material having a maximum density of 45 pounds per cubic foot. Bushel capacities are calculated with 5% compaction and at a 27-degree angle of repose. Weight capacities are calculated at 45 pounds per cubic foot.

**Warning!** Non-free flowing materials including (but not limited to) soybean meal and meat by-products should not be stored in these tanks due to their inherent nature to bridging. Check with your material supplier on the flowability of your product prior to purchasing a tank. If in doubt about a specific product, contact Grain Systems' engineering department for additional recommendations. Some features are optional and may be available only on certain models. Consult your local GSI dealer for details. All specifications subject to change without notice.