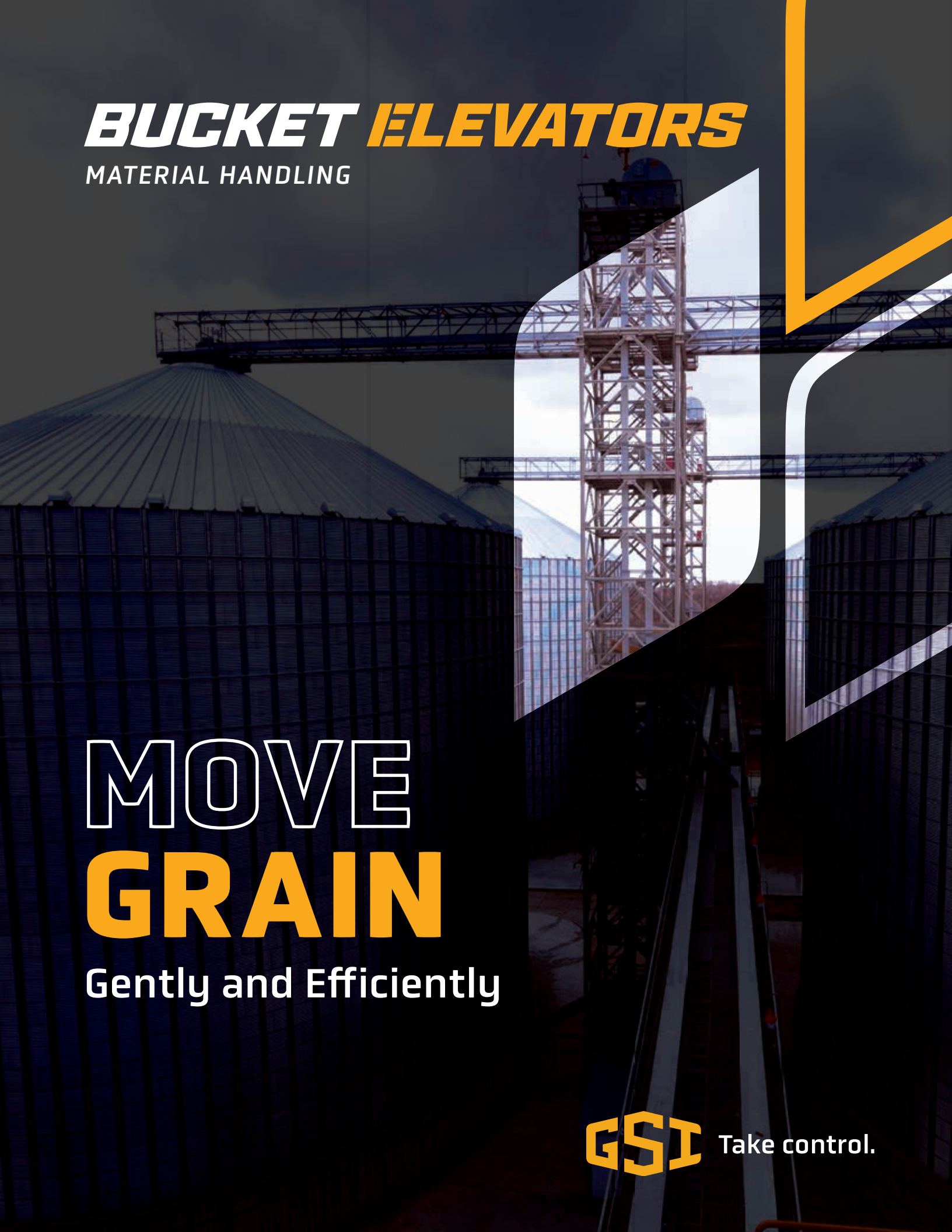
BUCKET ELEVATORS

MATERIAL HANDLING



MOVE GRAIN

Gently and Efficiently

GSI Take control.

BUILT FOR WHAT'S NEXT

From daily loadout to annual harvest, GSI material handling equipment is hard at work on farms, at grain elevators and in processing plants around the world.

GSI bucket elevators are engineered to perform and built for years of reliable service. The heavy-duty design, durable construction, and corrosion-resistant standard finish meet the specific needs of your operation.

	BUCKET ELEVATORS
BUSHEL CAPACITY	1,500 to 60,000 BPH
PULLEY SIZES	16", 24", 30", 36", 42", 48"
FINISH	Galvanized or Painted

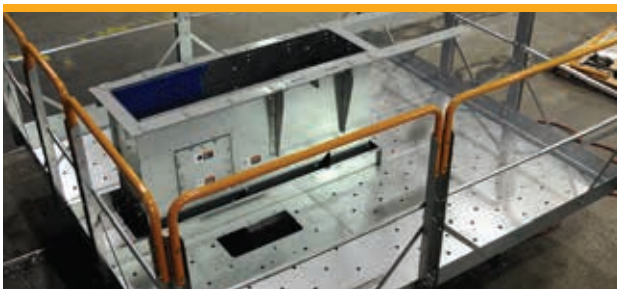
BUCKET ELEVATOR HEAD SECTION

GSI Bucket Elevators give you maximum throughput and less grain damage, ensuring efficient operation. With an array of sizes, finishes and options, each bucket elevator is designed to meet your specific needs.

ELEVATOR HEAD FEATURES INCLUDE:

- Two-piece hood for interior accessibility.
- Full-radius contoured hood to minimize wear and improve material discharge flow.
- Pressure relief panels on 30" models and larger.
- Machined, UHMW shaft seals.
- Heavy-duty, crowned face, double disc drum pulley with SOFR (static conductive, oil resistant and fire retardant) lagging.
- Fully adjustable throat plate.
- Optional lining packages include urethane and tile.
- Optional discharge transitions with urethane or tile liners.

LARGE HINGED SERVICE DOORS
Located on both sides of head section, they provide access on 42" models and larger. Doors are weather tight and flush with the inside.



X-SERIES PLATFORM
Provides more space around the drive and motor for easy servicing. Designed to meet OSHA specs. Available for 16"-36" bucket elevators.

JIB BOOM
Heavy-duty bolt-on design provides a cost effective maintenance solution. Available for single row bucket elevators in 1/2 ton, 1 ton or 2 ton models.

HEAD BEARINGS
Heavy-duty, double row, pillow block, roller bearings are mounted externally on 30" and larger, with optional fully split bearing available. Ball bearings are used on 16" and 24".

BUCKET ELEVATOR BOOT SECTION

A structural iron frame provides solid construction through the boot. All stiffeners and frames are painted for maximum corrosion resistance.

BOOT SECTION FEATURES INCLUDE:

- Externally mounted pillow block bearings.
- Machined, full-length UHMW shaft seal at take-up plate bearing surface.
- Heavy-duty, crown faced, double disc drum pulley.
- Easy access clean-out doors on each end.
- Removable panel at boot top, between trunks, can be adapted to dust collection equipment.
- Standard heavy gauge steel construction and bolted structural angle iron frame with vertical stiffeners.
- Precut openings in boot housing for belt touch switches or rub blocks.

OPTIONAL FEATURES:

- Standard bolt-on boot hoppers for either upleg or downleg (field installed).
- Flared bolt-on boot hopper (field installed).
- Bolt-on shovel pocket (field installed).
- Winged or spiral winged self-cleaning boot pulley.
- Rack and pinion cleanouts.
- Urethane or tile liners available for boot hoppers.

GRAVITY TAKE-UP
Optional gravity take-up available.

BELT TENSION TAKE-UP
Standard belt tension take-up assembly utilizes corrosion-resistant ACME threaded rods.

INSPECTION DOOR
Hinged inspection door on 42" (1066.8mm) and 48" (1219.2mm) only.

BUCKET ELEVATOR TRUNKING

TRUNKING FEATURES INCLUDE:

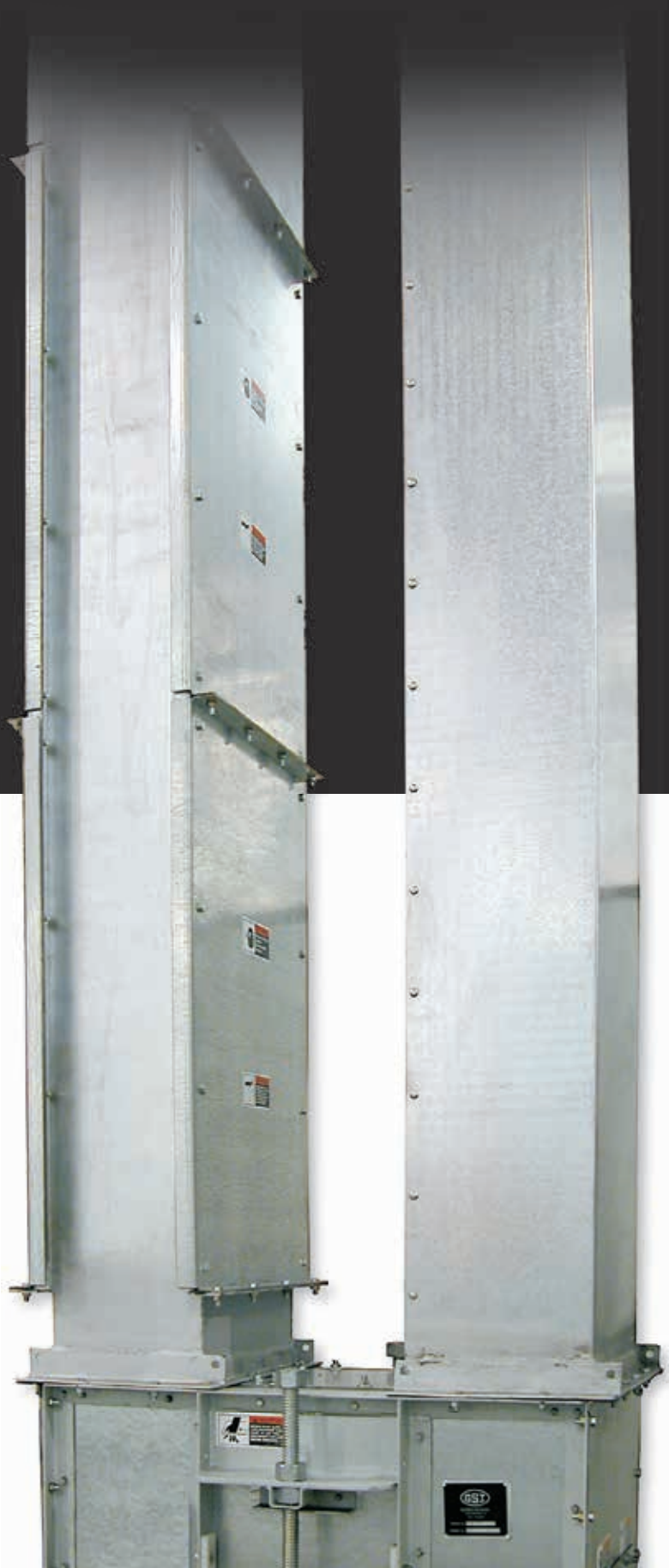
- Galvanized or painted construction.
- 14 ga., 12 ga., and 10 ga., available depending on size and height.
- Fixture-welded, structural angle iron flanges are continuously welded on the outside and stitch welded on the inside.
- 10' (3048mm) inspection section with 9' (2743.2mm) long opening at front and back. Front and back panels can be removed in 3' (914.4mm) increments. Inspection door can be located in six different locations for flexibility.
- Durable, SOFR (static conductive, oil resistant and fire retardant) rubber belting.

OPTIONAL FEATURES:

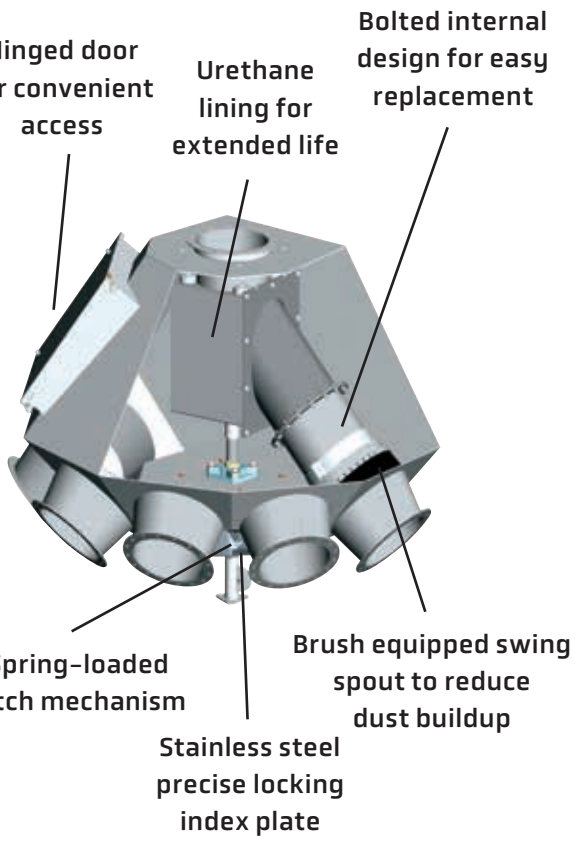
- Ladder and safety cage with rest platforms.
- Belt alignment and speed monitors.
- Trunking pressure relief vents.

STANDARD BUCKETS
Buckets are constructed of a durable non-sparking polyethylene. Optional steel, nylon or urethane buckets are also available.

BOLTED TIE ANGLE
Unique design for rigidity, squareness to trunking. Independent of flange bolts.



DISTRIBUTORS



Galvanized for long life and minimum maintenance and are available in many sizes and models.

- 3/16" and 12 gauge body parts. Outlets flanged.
- Positive locking stainless steel index plate which offers protection from dust and harsh weather conditions is located under the distributor.
- Large throat on internal swing spout. Bottom lined with 1/4" urethane for extended wear.
- Swing spout turns on a 1.5" ball bearing. Heavy-duty shaft connects to control (cable and pipe controls available.)

GSI ELECTRONIC DISTRIBUTOR

The most advanced and user-friendly distributor controller on the market makes locating and moving spout locations easy.

- Industry leading 6" HMI color touch screen controls.
- PLC control can be integrated into a larger grain network, with the ability to customize text and lock out specific spout numbers.
- Weather-proof controls (NEMA 4 rated).
- Operator can control spout position from another PLC while the GSI system is responsible for moving and reporting the spout position.
- Multiple protocol options for integrating an external controller, including ethernet and serial.
- Efficient and compact direct-drive configuration ensures high reliability, even in tough conditions.
- High torque; 400:1 reduction with ½ hp 3-phase motor.
- Can be retrofitted to any new or existing GSI distributor.
- UL and UL-C listed for use in US and Canada.

DISTRIBUTOR SPECIFICATIONS

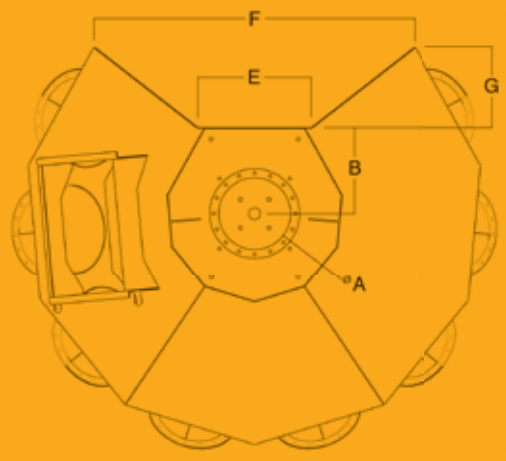
DIMENSIONS (US)

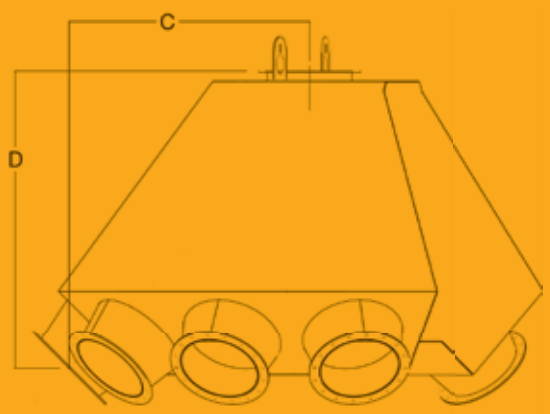
A	Outlets	B	C	D	E	F	G
6"	4 Hole	9-7/16"	21-13/16"	30-21/32"	-	-	-
	6 Hole	11-3/32"	21-13/16"	30-9/16"	42-9/16"	-	-
	8 Hole	10-3/32"	27-21/32"	35-1/32"	16"	50-19/32"	2-3/16"
8"	6 Hole	11-1/8"	21-13/16"	30-5/8"	42-9/16"	-	-
	8 Hole	12-1/8"	26-7/8"	35-11/16"	15-31/32"	46-3/8"	3-3/16"
	10 Hole	12-1/8"	34-5/8"	43-3/8"	15-15/16"	56-3/16"	10-7/16"
10"	6 Hole	12-1/8"	26-1/16"	33-1/8"	53-5/32"	-	-
	8 Hole	12-1/8"	29-13/16"	36-15/16"	15-15/16"	15-1/4"	11-7/16"
	10 Hole	12-1/8"	40-3/8"	47-1/2"	15-15/16"	66-13/16"	14-11/16"
12"	4 Hole	13-1/8"	28-1/8"	34-13/16"	24-3/4"	-	-
	6 Hole	13-1/8"	28-1/8"	34-13/16"	59-5/16"	-	-
	8 Hole	12-1/8"	35-1/16"	41-3/4"	15-15/16"	61-7/8"	11"
	10 Hole	13-3/32"	44-1/16"	51-17/32"	15-15/16"	73-15/16"	16-13/32"
14"	4 Hole	14-31/32"	32-29/32"	47-7/16"	29-3/16"	-	-
	6 Hole	15"	32-29/32"	46-27/32"	67-27/32"	-	-
	8 Hole	12-1/8"	40-5/16"	48-7/8"	15-15/16"	70-11/16"	14-1/4"

DIMENSIONS (METRIC)

A (mm)	Outlets	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)
152.4	4 Hole	239.7	554.0	778.7	-	-	-
	6 Hole	281.8	554.0	776.3	1081.1	-	-
	8 Hole	256.4	702.5	889.8	406.4	1285.1	55.6
203.2	6 Hole	282.6	554.0	777.9	1081.1	-	-
	8 Hole	308.0	682.6	906.5	405.6	923.9	81.0
	10 Hole	308.0	879.5	1101.7	404.8	1427.2	265.1
254.0	6 Hole	308.0	662.0	841.4	1350.2	-	-
	8 Hole	308.0	757.2	938.2	404.8	387.4	290.5
	10 Hole	308.0	1025.5	1206.5	404.8	1697.0	373.1
304.8	4 Hole	333.4	714.4	884.2	628.7	-	-
	6 Hole	333.4	714.4	884.2	1506.5	-	-
	8 Hole	308.0	890.6	1060.5	404.8	1571.6	279.4
	10 Hole	332.6	1119.2	1308.9	404.8	1878.0	416.7
355.6	4 Hole	380.2	835.8	1204.9	741.4	-	-
	6 Hole	381.0	835.8	1189.8	1723.2	-	-
	8 Hole	308.0	1023.9	1241.4	404.8	1795.5	362.0

All 4 and 6 hole distributors are flat back. All 8 and 10 hole distributors are wing back.





BUCKET ELEVATOR SPECIFICATIONS

CAPACITIES (US)

CAPACITIES (METRIC)

MODEL	PULLEY	BPH	CFH	RPM	FPM	BUCKET SIZE (INCHES)	BUCKET SPACING (INCHES)	TRUNKING SIZE (INCHES	MTH	M/S	BUCKET SIZE (MM)	BUCKET SPACING (MM)	TRUNKING SIZE (MM)
15P16/15G16	16	1,500	1,875	95	423	9 X 5	9	10 X 16	38	2.15	228 X 127	228	254 X 406
20P16/20G16		2,000	2,500	95	423	9 X 5	7	10 X 16	51	2.15	228 X 127	178	254 X 406
25P16/25G16		2,500	3,125	95	423	9 X 5	6	10 X 16	63	2.15	228 X 127	153	254 X 406
30P16/30G16		3,000	3,750	95	423	9 X 6	7	10 X 16	76	2.15	228 X 153	178	254 X 406
35P16/35G16		3,500	4,375	95	423	9 X 6	5.5	10 X 16	89	2.15	228 X 153	140	254 X 406
30P24/30G24	24	3,000	3,750	73	478	10 X 6	8.5	10 X 16	76	2.43	254 X 153	216	254 X 406
40P24/40G24		4,000	5,000	73	478	10 X 6	7	10 X 16	101	2.43	254 X 153	178	254 X 406
50P24/50G24		5,000	6,250	73	478	11 X 6 Lp	5.5	10 X 16	127	2.43	279 X 153	140	254 X 406
56P24/56G24		5,600	7,000	73	478	11 X 6 Lp	5	10 X 16	142	2.43	279 X 153	127	254 X 406
50P30/50G30	30	5,000	6,250	67	544	13 X 6	8	12 X 18	127	2.76	330 X 153	203	304 X 457
60P30/60G30		6,000	7,500	67	544	13 X 6	7	12 X 18	152	2.76	330 X 153	178	304 X 457
70P30/70G30		7,000	8,750	67	544	13 X 7	8	12 X 18	177	2.76	330 X 178	203	304 X 457
50P36/50G36	36	5,000	6,250	64	620	12 X 6	8.5	12 X 18	127	3.15	305 X 153	216	304 X 457
60P36/60G36		6,000	7,500	64	620	12 X 6	7.5	12 X 18	152	3.15	305 X 153	191	304 X 457
70P36/70G36		7,000	8,750	64	620	13 X 7	9	12 X 18	177	3.15	330 X 178	228	304 X 457
75P36/75G36		7,500	9,375	64	620	13 X 7	8.5	12 X 18	191	3.15	330 X 178	216	304 X 457
80P36/80G36		8,000	10,000	64	620	13 X 7	8	12 X 18	204	3.15	330 X 178	203	304 X 457
100P36/100G36		10,000	12,500	64	620	13 X 7 Lp	6	12 X 18	255	3.15	330 X 178	153	304 X 457
80P42/80G42	42	8,000	10,000	60	675	14 X 7	9	14 X 22	204	3.43	355 X 178	228	355 X 558
100P42/100G42		10,000	12,500	60	675	14 X 8	10.5	14 X 22	255	3.43	355 X 203	267	355 X 558
120P42/120G42		12,000	15,000	60	675	16 X 8	10.5	14 X 22	306	3.43	406 X 203	267	355 X 558
150P42/150G42		15,000	18,750	60	675	16 X 8 Lp	7.5	14 X 22	382	3.43	406 X 203	191	355 X 558
200P42/200G42		20,000	25,000	60	675	20 X 8 Lp	7	14 X 26	510	3.43	508 X 203	178	355 X 660
150P48/150G48	48	15,000	18,750	56	720	16 X 8	9	14 X 26	382	3.65	406 X 203	228	355 X 660
200P48/200G48		20,000	25,000	56	720	20 X 8 Lp	7.5	14 X 26	510	3.65	508 X 203	191	355 X 660
200P48/200G48		20,000	25,000	52	667	20 X 10	11	16 X 26	510	3.39	508 X 254	279	406 X 660
250P42	42	25,000	31,250	60	675	(2) 14 X 8 Lp	7.5	14 X 38	637	3.43	(2) 355 X 203	191	355 X 965
300P42		30,000	37,500	60	675	(2) 16 X 8 Lp	7.5	14 X 42	760	3.43	(2) 406 X 203	191	355 X 1066
400P42		40,000	50,000	60	675	(2) 20 X 8 Lp	7	14 X 50	1013	3.43	(2) 508 X 203	178	355 X 1270
250P48	48	25,000	31,250	56	720	(2) 14 X 8	9	14 X 38	637	3.65	(2) 355 X 203	228	355 X 965
300P48		30,000	37,500	56	720	(2) 16 X 8	9	14 X 42	760	3.65	(2) 406 X 203	228	355 X 1066
400P48		40,000	50,000	56	720	(2) 20 X 8 Lp	7.5	14 X 50	1013	3.65	(2) 508 X 203	191	355 X 1270
400P48		40,000	50,000	56	720	(3) 16 X 8	9.5	14 X 60	1013	3.65	(3) 406 X 203	241	355 X 1524
500P48		50,000	62,500	56	720	(3) 16 X 8 Lp	7	14 X 60	1267	3.65	(3) 406 X 203	178	355 X 1524
500P48		50,000	62,500	56	720	(3) 20 X 8	9.5	16 X 72	1267	3.65	(3) 508 X 203	241	406 X 1829
600P48		60,000	75,000	56	720	(3) 20 X 8 Lp	7.5	16 X 72	1520	3.65	(3) 508 X 203	191	406 X 1829

Capacities based on dry, free flowing, granular material with proper loading and unloading conditions at 45#/CF. (721kg/m3) using conservative cup capacities per manufacturer's recommendations.

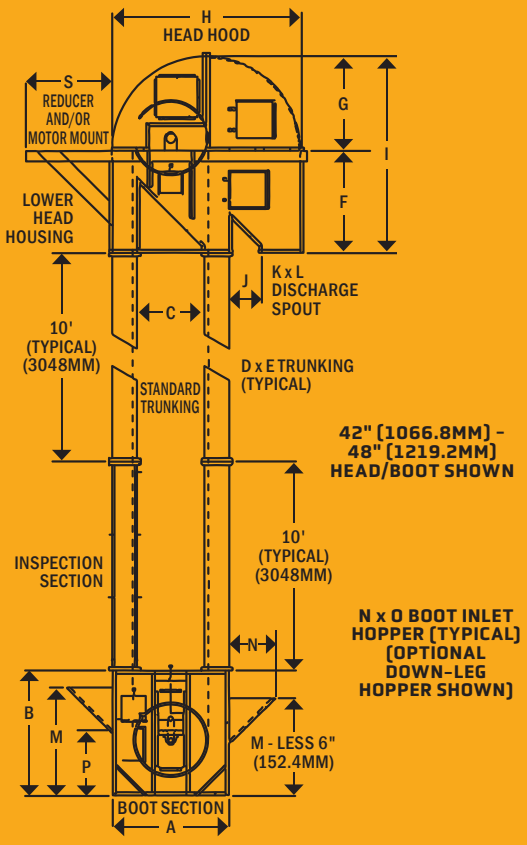
General specifications and dimensions are subject to change without notice.

General specifications and dimensions are intended to provide sales assistance and preliminary guide to system layout only.

BUCKET ELEVATOR DIMENSIONS (IN)

SINGLE ROW (IN.)

PULLEY SIZE	16	24	30	36	42	42	48
BPH	1500–3000	3000–5600	5000–7000	5000–10000	8000–15000	20000	14000–20000
CFH	1875–3750	3750–7000	6250–8750	6250–12500	10000–18750	25000	17500–25000
A	34"	42"	52"	58"	67"	67"	73"
B	60"	60"	60"	60"	72"	72"	72"
C	14"	22"	28"	34"	39"	39"	45"
D	10"	10"	12"	12"	14"	14"	14"
E	16"	16"	18"	18"	22"	26"	26"
F	36"	36"	46.5"	46.5"	58.5"	58.5"	58.5"
G	29"	33"	42"	48"	60"	60"	60"
H	58"	66"	84"	96"	108"	108"	120"
I	65"	69"	88.5"	94.5"	118.5"	118.5"	118.5"
J	12"	12"	14"	20"	19"	19"	23"
K	12"	12"	18"	18"	22"	22"	24"
L	16"	16"	18"	18"	22"	26"	26"
M	35"	42"	50"	53"	62"	66"	69"
N	14"	16"	20"	20"	24"	28"	28"
O	10"	13"	14"	14"	16"	18"	18"
P	21"	26"	30"	33"	38"	38"	41"
S	30"	30"	37"	34"	50"	50"	62"
T	49"	41"	61"	56"	76"	75"	86"
U	39"	39"	24"	23"	28"	44"	52"
V	52"	52"	52"	52"	53"	53"	58"
W	122"	122"	137"	137"	171"	188"	212"
X	47"	47"	58"	56"	41"	40"	43"
Y	47"	47"	44"	44"	53"	66"	67"
Z	112"	112"	124"	123"	120"	136"	140"

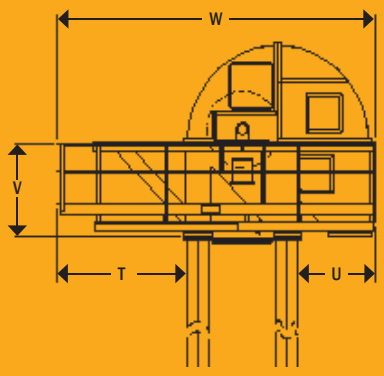


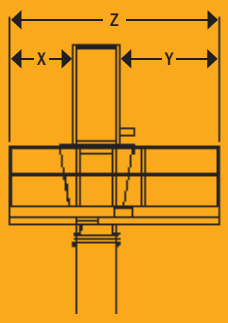
TWO ROW (IN.)

PULLEY SIZE	42-250	42-300	42-400	48-250	48-300	48-400
BPH	25000	30000	40000	25000	30000	40000
CFH	31250	37500	50000	31250	37500	50000
A	67"	67"	67"	73"	73"	73"
B	72"	72"	72"	72"	72"	72"
C	39"	39"	39"	45"	45"	45"
D	14"	14"	14"	14"	14"	14"
E	38"	42"	50"	38"	42"	50"
F	58.5"	58.5"	58.5"	58.5"	58.5"	58.5"
G	60"	60"	60"	60"	60"	60"
H	108"	108"	108"	120"	120"	120"
I	118.5"	118.5"	118.5"	118.5"	118.5"	118.5"
J	19"	19"	19"	23"	23"	23"
K	22"	22"	22"	24"	24"	24"
L	38"	42"	50"	38"	42"	50"
M	62"	62"	62"	69"	69"	69"
N	24"	24"	24"	28"	28"	28"
O	30"	36"	42"	30"	34"	42"
P	38"	38"	38"	41"	41"	41"
S	50"	50"	50"	62"	62"	62"

THREE ROW (IN.)

PULLEY SIZE	48-400	48-500	48-500	48-600
BPH	40000	50000	50000	60000
CFH	50000	62500	62500	75000
A	73"	73"	76"	76"
B	72"	72"	84"	84"
C	45"	45"	44"	44"
D	14"	14"	16"	16"
E	60"	60"	72"	72"
F	58.5"	58.5"	58.5"	58.5"
G	60"	60"	60"	60"
H	120"	120"	123"	123"
I	118.5"	118.5"	118.5"	118.5"
J	23"	23"	23"	23"
K	24"	24"	24"	24"
L	60"	60"	72"	72"
M	69"	69"	81"	81"
N	28"	28"	28"	28"
O	52"	52"	64"	64"
P	41"	41"	51"	51"
S	62"	62"	62"	62"

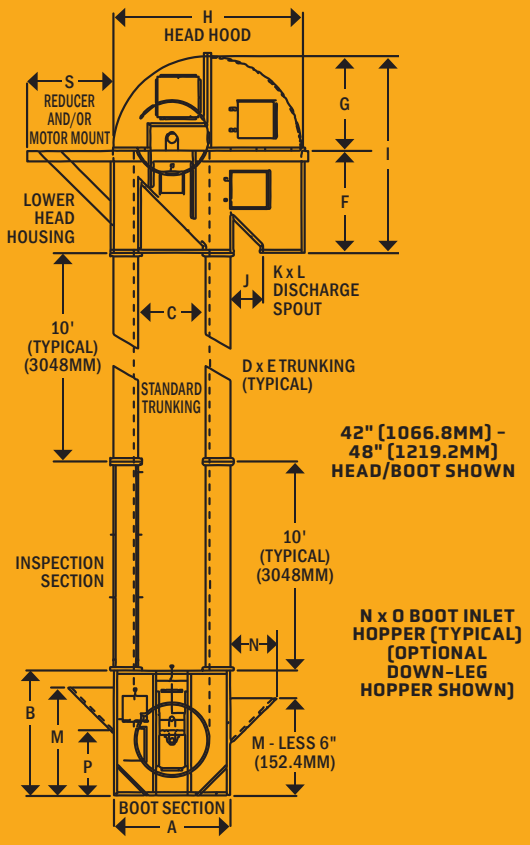




BUCKET ELEVATOR DIMENSIONS (MM)

SINGLE ROW (MM)

PULLEY SIZE	406	610	762	914	1066	1066	1219
MTH	38–76	102–142	127–177	127–254	204–381	510	356–510
CFH	1875–3750	3750–7000	6250–8750	6250–12500	10000–18750	25000	17500–25000
A	864	1067	1321	1473	1702	1702	1854
B	1524	1524	1524	1524	1829	1829	1829
C	356	559	711	864	991	991	1143
D	254	254	305	305	356	356	356
E	406	406	457	457	559	660	660
F	914	914	1181	1181	1486	1486	1486
G	737	838	1067	1219	1524	1524	1524
H	1473	1676	2134	2438	2743	2743	3048
I	1651	1753	2248	2400	3010	3010	3010
J	305	305	356	508	483	483	584
K	305	305	457	457	559	559	610
L	406	406	457	457	559	660	660
M	889	1067	1270	1346	1575	1676	1753
N	356	406	508	508	610	711	711
O	254	330	356	356	406	457	457
P	533	660	762	838	965	965	1041
S	762	762	940	864	1270	1270	1575
T	1244	1041	1549	1422	1930	1905	2184
U	990	990	609	584	711	1118	1321
V	1320	1320	1320	1320	1346	1346	1473
W	3098	3098	3479	3479	4343	4775	5385
X	1194	1194	1473	1422	1041	1016	1092
Y	1194	1194	1118	1118	1346	1676	1702
Z	2845	2845	3150	3124	3048	3454	3556

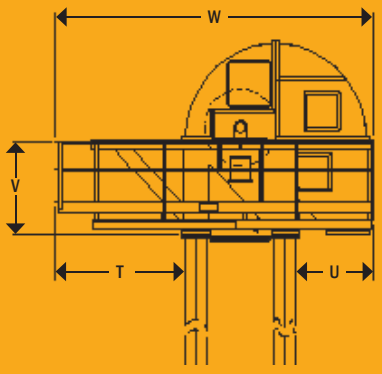


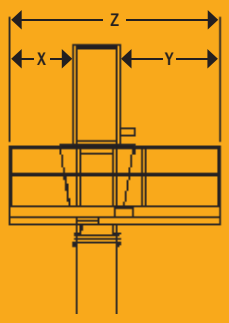
TWO ROW (MM)

PULLEY SIZE	1066	1066	1066	1219	1219	1219
MTH	637	765	1020	637	765	1020
CFH	31250	37500	50000	31250	37500	50000
A	1702	1702	1702	1854	1854	1854
B	1829	1829	1829	1829	1829	1829
C	991	991	991	1143	1143	1143
D	356	356	356	356	356	356
E	965	1067	1270	965	1067	1270
F	1486	1486	1486	1486	1486	1486
G	1524	1524	1524	1524	1524	1524
H	2743	2743	2743	3048	3048	3048
I	3010	3010	3010	3010	3010	3010
J	483	483	483	584	584	584
K	559	559	559	610	610	610
L	965	1067	1270	965	1067	1270
M	1575	1575	1575	1753	1753	1753
N	610	610	610	711	711	711
O	762	914	1067	762	864	1067
P	965	965	965	1041	1041	1041
S	1270	1270	1270	1575	1575	1575

THREE ROW (MM)

PULLEY SIZE	1219	1219	1219	1219
MTH	1020	1267	1267	1520
CFH	50000	62500	62500	75000
A	1854	1854	1930	1930
B	1829	1829	2134	2134
C	1143	1143	1118	1118
D	356	356	406	406
E	1524	1524	1829	1829
F	1486	1486	1486	1486
G	1524	1524	1524	1524
H	3048	3048	3124	3124
I	3010	3010	3010	3010
J	584	584	584	584
K	610	610	610	610
L	1524	1524	1829	1829
M	1753	1753	2057	2057
N	711	711	711	711
O	1321	1321	1626	1626
P	1041	1041	1295	1295
S	1575	1575	1575	1575





GSI

Visit grainsystems.com for product specs and info

Contact your GSI Dealer for more information.

© 2025 Grain and Protein Technologies. All rights reserved. GSI reserves the right to change designs and specifications without notice.

GS-019 / JUNE 2025