

AGI 

AGI 

BUCKET ELEVATORS

S-LINE



—
Engineered to Perform



If you need to move it or lift it, AGI can do it

Common Sense Engineering Outstanding Performance

AGI's acquired line of handling equipment has been serving the Industry in very many ways since 1878.

The key to our success involves systems design and construction in everyday production. At AGI, we deliver high capacity, durable components, competitive pricing, and unmatched service and support.

On-Site Grain Facilities

- Commercial systems for grain terminals, feed mills and port facilities
- Large farm systems for high capacity grain and livestock operations
- Small farm systems for moving low volumes of grain



Bucket Elevators

The Right Equipment for the Right Application

Rising costs and technological advances demand that your bucket elevator system is both functional and versatile. Our engineers and design professionals work with you to determine the best system for your application. We assist in the development of specifications and analysis of your system requirements, capacity and demand.

Our engineers will ensure that your entire handling system is integrated to work uniformly and efficiently. We'll also allow for expansion and even help you forecast future demand.

Your AGI dealer is an experienced professional who is supported by the expert staff at AGI a powerful team of talented engineers, skilled manufacturing technicians, dedicated territory managers and knowledgeable, service-oriented sales staff.

Your bucket elevator system will be configured correctly, priced competitively and accurately, and engineered to do exactly what you need it to do for a very long time.

Providing the Right Bucket Elevator Solution Begins With Asking the Right Questions

- What type of material will the equipment be handling?
- In what type of environment will the equipment be operating? Is it highly corrosive?
- What height and distance are required to move the product?
- What is the estimated daily usage for the equipment?
- What are the future expansion plans for the overall operation?
- What power supply is available?

Finish options include gray powder coated mild steel and galvanized steel. We can help you determine the best material for your application and budget.

Wide range of capacities from 1,000 BPH (25 MTPH) to 25000 BPH (635 MTPH) standard.

Low impact teardrop design heads improve product flow while minimizing wear.

Bolt-together head and boot design reduces maintenance and replacement costs, and just plain looks better!

Multiple head lining options to match your application and material handling requirements.

Full fixtured 12 GA (2.65 mm) welded leg casing standard, with 10 GA (3.41 mm) option available. Provides structural support strength, secure moisture seal and ensures a plumb fit in the field.

10' (3.05 m) inspection sections with multiple visual door locations and removable front and back panels improve visibility and access for maintenance, repair and monitoring operation.

Industrial motors and performance driven speed reducers standard on every system for the ultimate in long-life and reliability.

Computerized quoting programs ensure accuracy, completeness and quick turnaround of pricing with no surprises.

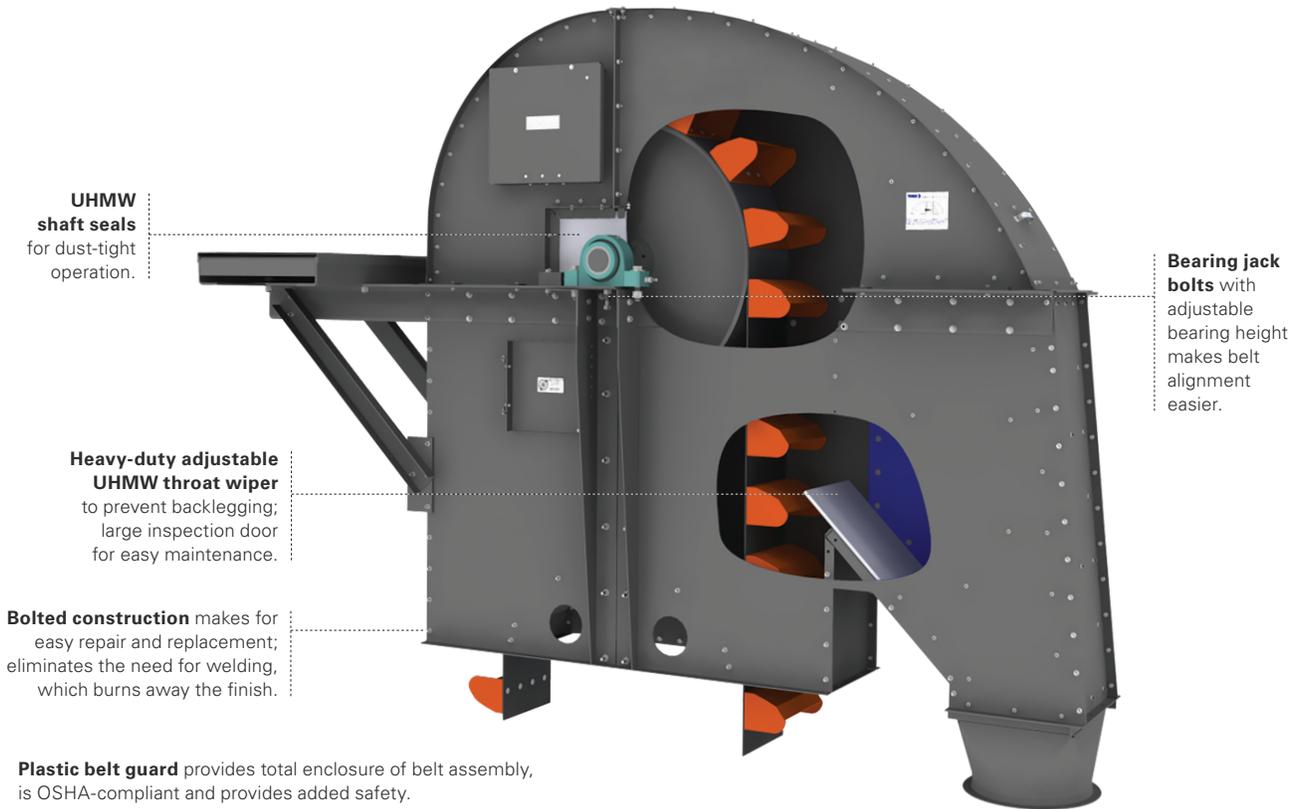


Galvanized Steel

Powder Coated Mild Steel

Bucket Elevators

AGI Heads are ruggedly constructed and smartly designed to provide outstanding performance, easy maintenance and unmatched reliability.



Head explosion vent available on all models; Standard on all M42 and M48 models.



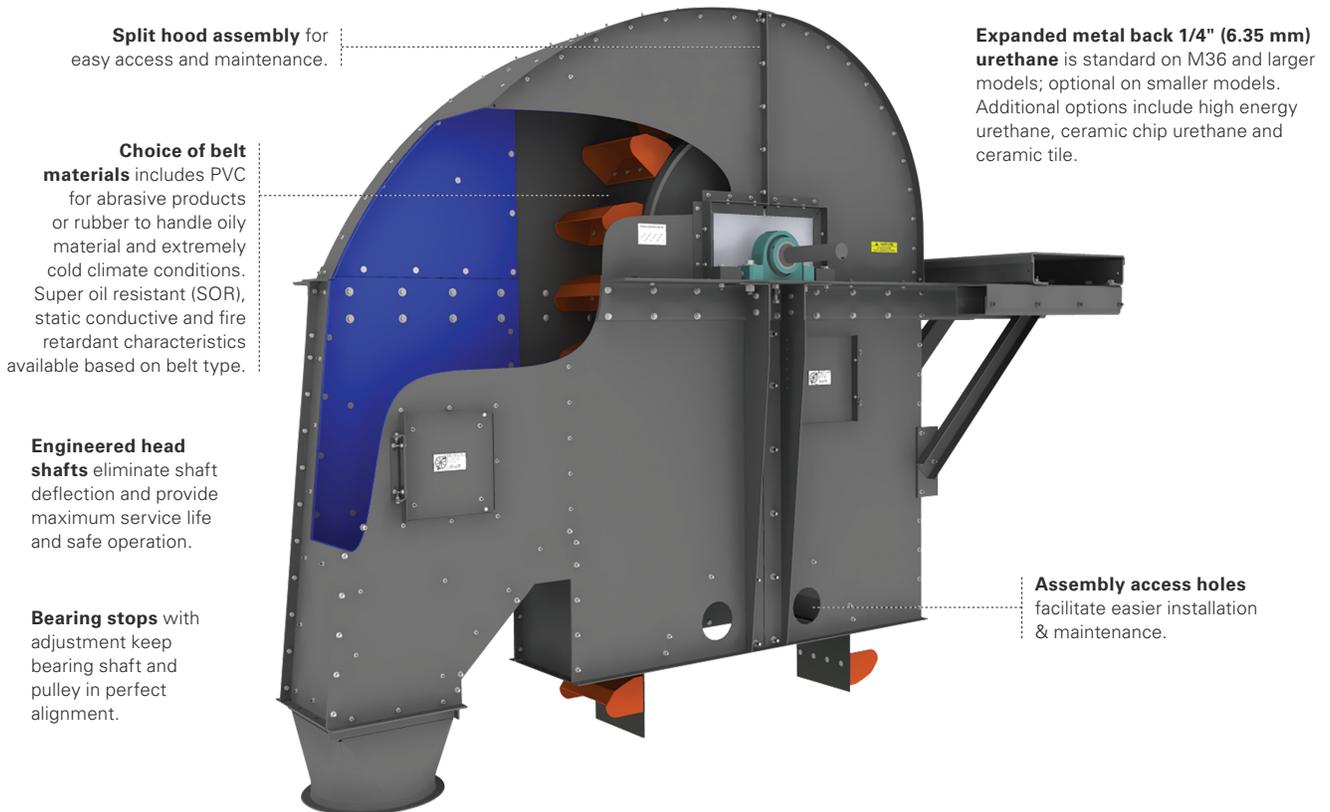
Commercial grade pillow block or double roller bearings assure long system life; Bearing stops with adjustments for bearing, shaft and pulley alignment.



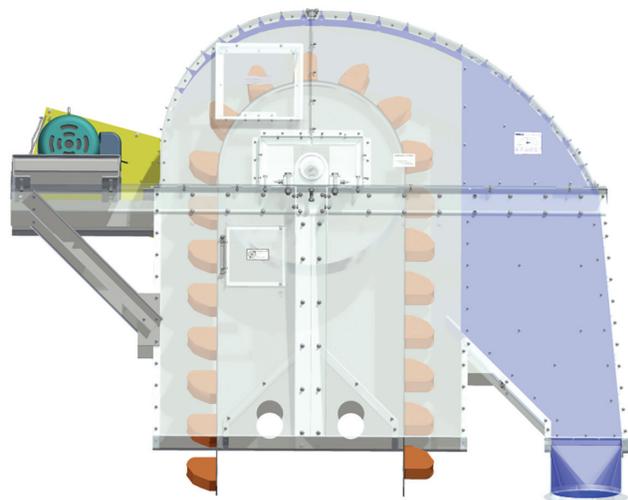
Lagging inspection door features hinges and quick latch for convenience.

Liners

Liners on AGI bucket elevator systems are available in several urethane and high energy urethane thicknesses up to 1/2" (12.7 mm) as well as ceramic chip urethane, ceramic tile and abrasion-resistant steel. AGI engineering and sales staff will work with you to ensure that your head liner construction matches your application, material handling requirements and your budget.



Precision built heavy-duty drum pulley with XT bushing and 501 slide lagging are standard design on all AGI elevators.



Boots

Rugged Construction Means Longer Life

A rugged, well-built AGI boot is the foundation of your entire material handling system. Made of heavy gauge steel, our boots offer a range of pulleys and clean-out designs to match your application.



Trunking & Inspection Sections

AGI trunking stands up to the rigors of rugged use and protects the integrity of materials during transport. AGI inspection sections are engineered with safety and convenience in mind, so you can always see what's happening inside your system and easily fix it when needed.

Trunking Section

Finish options include powder coat gray and galvanized.

Track-welded full seamed leg sections ensure a plumb fit and squareness in the field.

Leg casing explosion panels designed to National Fire Protection Association standards are available on request.

Inspection Section

10' (3.05 m) inspection section for easy belt installation and maintenance standard on all models.

Removable front and back panels provide easy access to buckets and belting.

Hinged inspection door with quick latch and bucket cover allows convenient and safe monitoring of belt and bucket operation.



Inspection Section

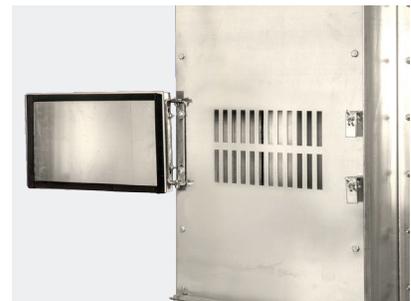
Trunking Section



Full weld angle flange connections provide added strength and perfect alignment.



12 GA (2.75 mm) fixture welded trunking is standard on all AGI powder-coated and galvanized bucket elevators, with 10 GA (3.41 mm) trunking available on request.



Six different door locations facilitate easy maintenance.

Buckets

If you need to move it, AGI can do it

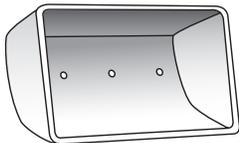
AGI offers a variety of bucket configurations. CC Style High Density Polyethylene Buckets are standard on AGI Bucket Elevators. Capacity on the CC Style Bucket is based on water level +10%. The CC Style Low Profile Bucket is also quoted on some AGI models with capacity based on water level plus 5%. The low profile buckets are designed to increase elevator capacity by allowing closer bucket spacing on the belt. They are a modified (cut down) version of the standard CC Buckets, varying only in depth and weight. Application, performance, discharge, and all other bucket characteristics are exactly the same.

Vented Cups are available upon request.

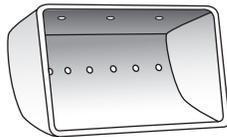
CC Style High Density Polyethylene Bucket



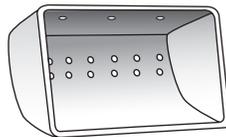
CC Style High Density Polyethylene Low Profile Bucket



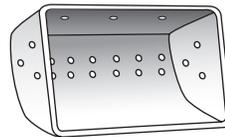
#1 Vent
Same holes in body as bolt mounting holes



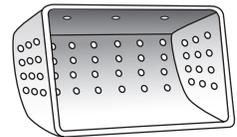
#2 Vent
One row of holes on 1 1/8" centers



#3 Vent
Two rows of holes on 1 1/8" centers



#4 Vent
Same as #3, plus three holes in each end cap



Custom Vent
Vented as required

Venting an elevator bucket aides in bucket fill and discharge with light, fluffy materials. Lightweight, fluffy materials and those that are extremely dense or flow poorly can be difficult to handle in bucket elevators at high speeds. Because these materials tend to trap air when being handled by an elevator bucket, it is necessary to provide air relief to assist in their filling and discharge. Materials in this category might be various flours, meals, feed mash or screenings. Standard hole diameter is equal to the size of the bolt mounting holes. Anything different is considered a custom vent.

AGI grain handling systems are on the job around the world in some of the most demanding applications imaginable. Your AGI system is designed to exceed your expectations for durability, reliability, longevity and overall performance.



Platforms, Ladders & Cages

A Powerful Combination of Strength and Safety

At AGI, safety is our top priority in every system we design. We manufacture platforms, ladders and cages of all-galvanized steel construction—so you are assured of high quality, safety and easy installation. All ladders, fall restraints and platform packages are designed to meet or exceed OSHA safety standards.

Options for fall restraint systems (cable systems) are also available upon request.

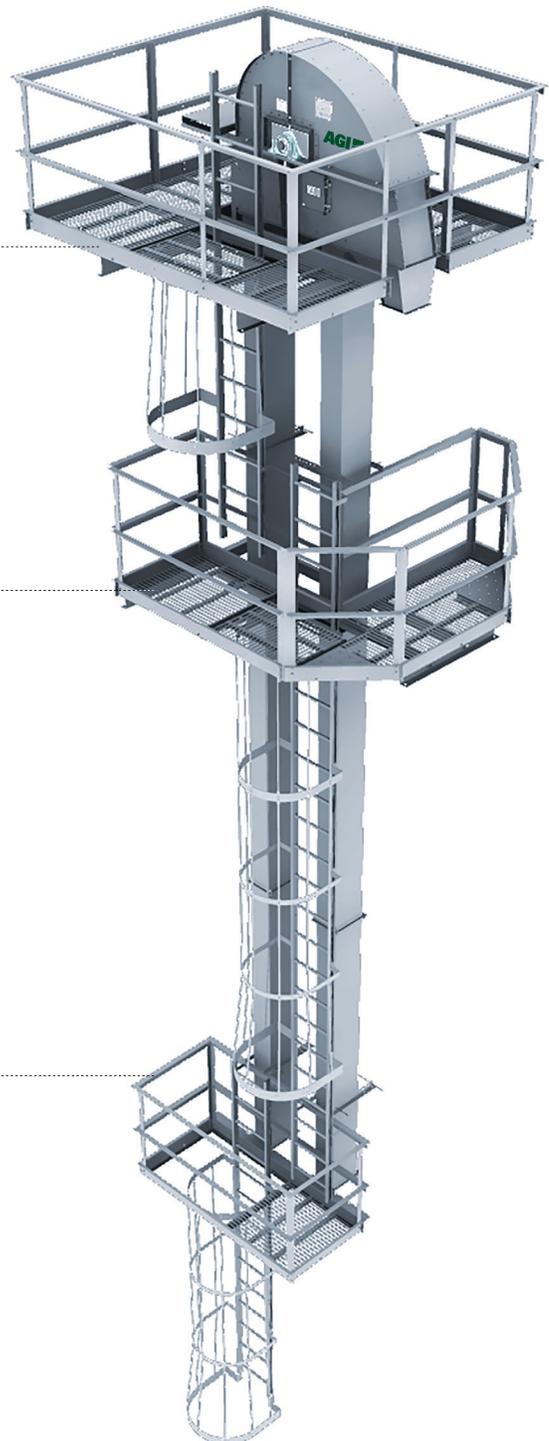


Platform walk surfaces are pre-assembled at the factory, reducing on-site construction time.

Oversized work platform allows ample room for servicing, while ensuring worker safety.

Unique "L" shaped distributor platform offers easy access to distributors and spouting connections. Provides extra room for improved worker safety.

Simple assembly **rest platforms** feature a quickly-reversible ladder opening for efficiency and flexibility in the field.



Tower Systems

Thanks to our AGI family affiliation with AGI Systems, all systems are staged to match AGI towers for horizontal flange-to-flange assembly. Optional guying kits are also available.

Standard Leg Tower and Support Tower Features

- Completely free-standing with no guy wires to clutter your facility
- Prefabricated bolt-together modular design for economical shipments. Four men with a crane can assemble an 80' tower (24.39 m) in about one day
- Towers are strength-staged for area wind loads to 90 MPH (145 KM/HR) or above; tower reactions available upon request
- Velvet gray polyester powder coat finish standard; optional galvanized
- Tubular steel construction
- 5' (1.52 m), 10' (3.05 m) and 20' (6.10 m) lengths
- Interior cross bracing for support towers
- Includes all hardware necessary to assemble sections



BUCKET ELEVATOR SPECIFICATIONS

BPH CAPACITY	MODEL	CUBIC FEET PER HOUR	OA HEIGHT ADDER (FEET)	PULLEY DIAMETER	PULLEY RPM	BUCKET		BELT WIDTH	BELT MIN PIW	TRUNKING SIZE	SPOUTING REQUIRED
						SIZE	SPACING				
1,000	16-10	1,250	4.28	16"	60	9" x 5"	9"	10"	220	13" x 9"	6"
1,500	16-15	1,875	4.28	16"	90	9" x 5"	9"	10"	220	13" x 9"	6"
2,000	16-20	2,500	4.28	16"	80	9" x 5"	6"	10"	220	13" x 9"	8"
	24-20	2,500	5.69	24"	53	9" x 6"	9"	10"	330	13" x 9"	8"
2,500	16-25	3,125	4.28	16"	100	9" x 5"	6"	10"	220	13" x 9"	8"
	24-25	3,125	5.69	24"	68	9" x 6"	9"	10"	330	13" x 9"	8"
3,000	16-30	3,750	4.28	16"	120	9" x 5"	6"	10"	220	13" x 9"	8"
	24-30	3,750	5.69	24"	62	9" x 6"	7"	10"	330	13" x 9"	8"
3,500	24-35	4,375	5.69	24"	72	9" x 6"	7"	10"	330	13" x 9"	8"
4,000	24-40	5,000	5.69	24"	74	9" x 6" LP	6"	10"	330	13" x 9"	10"
	30-40	5,000	6.2	30"	56	12" x 6"	8"	13"	330	16" x 12"	10"
	36-40	5,000	8.6	36"	50	12" x 6"	8"	13"	330	16" x 12"	10"
4,500	24-45	5,625	5.69	24"	70	9" x 6"	5"	10"	330	13" x 9"	10"
	30-45	5,625	6.2	30"	64	12" x 6"	8"	13"	330	16" x 12"	10"
	36-45	5,625	8.6	36"	54	12" x 6"	8"	13"	330	16" x 12"	10"
5,000	24-50	6,250	5.69	24"	78	9" x 6" LP	5"	10"	330	13" x 9"	10"
	30-50	6,250	6.2	30"	60	12" x 7"	9"	13"	330	16" x 12"	10"
	36-50	6,250	8.6	36"	58	12" x 6"	8"	13"	330	16" x 12"	10"
5,500	30-55	6,875	6.2	30"	68	12" x 7"	9"	13"	330	16" x 12"	10"
	36-55	6,875	8.6	36"	65	12" x 6"	9"	13"	330	16" x 12"	10"
6,000	30-60	7,500	6.5	30"	68	12" x 7"	8"	13"	330	16" x 12"	12"
	36-60	7,500	8.6	36"	62	12" x 7"	9"	13"	330	16" x 12"	12"
7,000	30-70	8,750	6.2	30"	68	12" x 7" LP	7"	13"	330	16" x 12"	12"
	36-70	8,750	8.6	36"	61	12" x 7"	8"	13"	330	16" x 12"	12"
7,500	30-75	9,375	6.2	30"	72	12" x 7" LP	7"	13"	330	16" x 12"	12"
	36-75	9,375	8.6	36"	65	12" x 7"	8"	13"	330	16" x 12"	12"
8,000	36-80	10,000	8.6	36"	65	12" x 7" LP	7"	13"	330	16" x 12"	14"
	42-80	10,000	9.25	42"	56	12" x 8"	10"	13"	440	16" x 14"	14"
10,000	42-100	12,500	9.25	42"	56	12" x 8" LP	8"	13"	440	16" x 14"	14"
	48-100	12,500	10.1	48"	61	12" x 8"	10"	13"	440	16" x 14"	14"
12,000	42-120	15,000	9.25	42"	59	12" x 8" LP	7"	13"	440	16" x 14"	16"
	48-120	15,000	10.1	48"	59	12" x 8" LP	8"	13"	440	16" x 14"	16"
15,000	42-150	18,750	9.25	42"	61	16" x 8" LP	8"	17"	440	20" x 14"	18"
	48-150	18,750	10.1	48"	60	16" x 8" LP	9"	17"	440	20" x 14"	18"
20,000	42-200	25,000	9.25	42"	58	20" x 8" LP	7"	21"	440	26" x 14"	20"
	48-200	25,000	10.1	48"	56	20" x 8" LP	8"	21"	440	26" x 14"	20"
25,000	48-250	31,000	10.1	48"	56	22" x 8" LP	7"	24"	440	30" x 14"	24"

Above capacities are based on #2 corn weighing 56 LBS/BU

Capacities for standard buckets are based on water level +10%. Capacities for low profile buckets are based on water level +5%. Spouting capacity calculations are based on round spouts at 70 BU. SQ. IN. This would require that grain be clean and the spout be at 40° or greater angle (applies to only corn, soybeans and wheat). Wet corn should be spouted at no less than 45° and capacities do not apply. Capacities may be reduced by lining material and other factors. These are guidelines only and capacities may vary.

MTPH CAPACITY	MODEL	CUBIC METERS PER HOUR	PULLEY DIAMETER	PULLEY RPM	METERS PER SEC.	BUCKET (MM)		TRUNKING SIZE (MM)	SPOUTING REQUIRED (MM)
						SIZE	SPACING		
25	16-10	35.4	40.6 cm	60	1.28	228 x 127	229	330 x 228	152
38	16-15	53.1	40.6 cm	90	1.92	228 x 127	229	330 x 228	152
50	16-20	70.8	40.6 cm	80	1.7	228 x 127	152	330 x 228	152
	24-20	70.8	61 cm	53	1.6	228 x 153	203	330 x 228	203
63	16-25	88.5	40.6 cm	100	2.13	228 x 127	152	330 x 228	203
	24-25	88.5	61 cm	68	1.92	228 x 153	203	330 x 228	203
76	16-30	106.2	40.6 cm	120	2.55	228 x 127	152	330 x 228	203
	24-30	106.2	61 cm	62	2.24	228 x 153	203	330 x 228	203
89	24-35	123.9	61 cm	72	2.07	228 x 153	152	330 x 228	254
101	24-40	141.6	61 cm	74	2.24	228 x 153	152	330 x 228	254
	30-40	141.6	76.2 cm	56	2.79	304 x 153	203	356 x 305	254
	36-40	141.6	91.4 cm	50	2.39	304 x 153	229	356 x 305	254
	24-45	159.3	61 cm	70	2.24	228 x 153	127	330 x 228	254
114	30-45	159.3	76.2 cm	64	2.31	304 x 178	229	356 x 305	254
	36-45	159.3	91.4 cm	54	2.59	304 x 178	203	356 x 305	254
127	24-50	177.0	61 cm	78	2.49	228 x 153	127	330 x 228	254
	30-50	177.0	76.2 cm	60	2.51	304 x 178	229	356 x 305	254
	36-50	177.0	91.4 cm	58	2.87	304 x 153	229	356 x 305	254
138	30-55	194.7	76.2 cm	68	2.47	304 x 178	203	356 x 305	254
	36-55	194.7	91.4 cm	65	3.11	304 x 153	229	356 x 305	254
152	30-60	212.4	76.2 cm	68	2.71	304 x 178	203	356 x 305	305
	36-60	212.4	91.4 cm	62	3.35	304 x 153	229	356 x 305	305
177	30-70	247.8	76.2 cm	68	2.71	304 x 178	178	356 x 305	305
	36-70	247.8	91.4 cm	61	3.35	304 x 178	229	356 x 305	305
191	30-75	265.5	76.2 cm	72	2.87	304 x 178	178	356 x 305	305
	36-75	265.5	91.4 cm	65	3.11	304 x 178	203	356 x 305	305
204	36-80	283.2	91.4 cm	65	3.11	304 x 178	178	356 x 305	305
	42-80	283.2	106.7 cm	56	2.91	304 x 203	254	406 x 356	356
255	42-100	354.0	106.7 cm	56	3.13	304 x 203	203	406 x 356	356
	48-100	354.0	121.9 cm	61	3.83	304 x 203	254	406 x 356	356
306	42-120	424.8	106.7 cm	59	3.24	304 x 203	178	406 x 356	406
	48-120	424.8	121.9 cm	59	3.32	304 x 203	178	406 x 356	406
382	42-150	530.9	106.7 cm	61	3.24	406 x 203	203	508 x 356	457
	48-150	530.9	121.9 cm	60	3.83	406 x 203	229	508 x 356	457
510	42-200	707.9	106.7 cm	58	3.24	508 x 203	178	660 x 356	508
	48-200	707.9	121.9 cm	56	3.58	508 x 203	203	660 x 356	508
637	48-250	884.9	121.9 cm	56	3.58	559 x 203	178	762 x 356	610

Above capacities are based on #2 corn weighing 721 kg/m3.

Capacities for standard buckets are based on water level +10%. Capacities for low profile buckets are based on water level +5%. Spouting capacity calculations are based on round spouts at .38 M3/CM2. This would require that grain be clean and the spout be at 40° or greater angle (applies to only corn, soybeans and wheat). Wet corn should be spouted at no less than 45° and capacities do not apply. Capacities may be reduced by lining material and other factors. These are guidelines only and capacities may vary.



AGI is a global leader in supplying farm and commercial customers with the manufacturing, planning, and engineering of full equipment solutions for grain, seed, fertilizer, feed, and food. AGI's expertise enables the storage, blending, mixing, conveying, conditioning, processing, and protection of agricultural products and inputs worldwide.

Your safety is our highest priority.

Please read and understand the operator's manual and safety decals before using. Use and maintain products properly, and do not modify. Keep guards in place when operating and follow all product manuals and safety decals. For all AGI products, if guards, safety decals, or manuals are damaged or missing, contact your AGI sales or dealer representative for replacements. Images and information contained in this brochure are presented for general information.

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