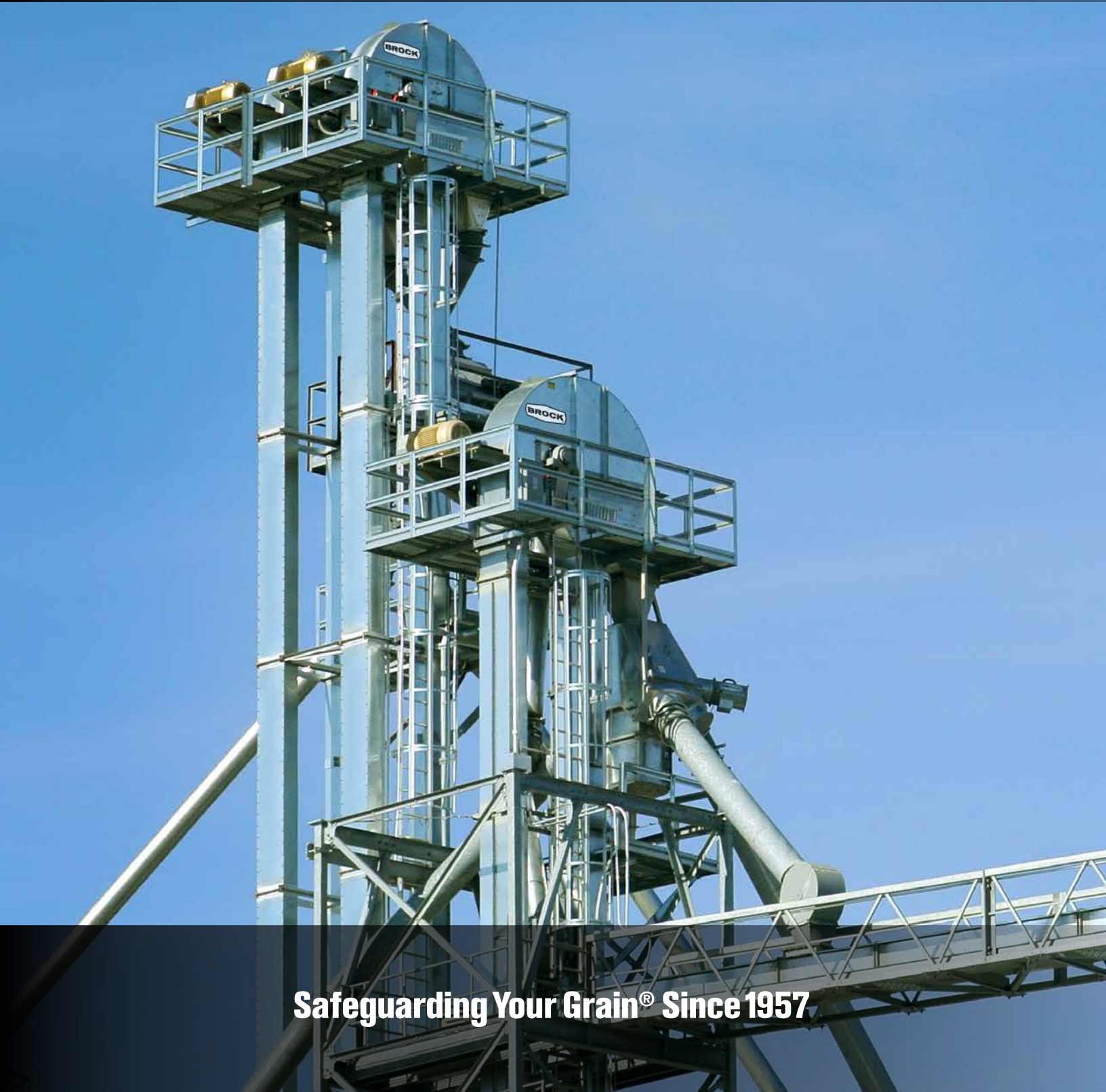




— BROCK SOLID® —

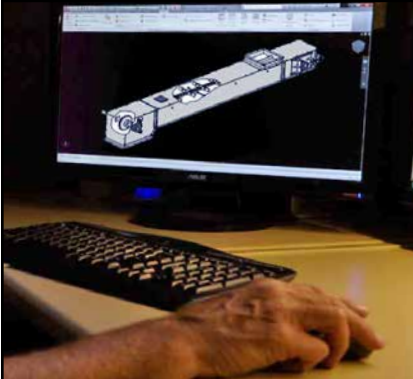
BUCKET ELEVATORS



Safeguarding Your Grain® Since 1957

Why Brock® Grain Handling Equipment:

Goes up easier



Designed to be faster to install and easier to maintain.

From our first engineering drawings, Brock® grain handling equipment has always been designed to make millwright work easier. It's about making bolt holes align the first time, using more preassembled components, and hundreds of other details that make our equipment faster to install and easier to maintain. This mindset also makes Brock grain handling equipment less expensive to build and improves the customer's experience.

Works harder



Manufactured with a culture of quality and on-time delivery.

The Brock Solid® experience continues in the manufacturing plant. Every piece of our equipment is built by people who care how well it performs once it leaves the factory. When you choose Brock handling equipment, you want to put it to work as soon as possible. That's why we strive to deliver most of our standard products within four weeks.

Lasts longer



Built for reliable operation and long-lasting durability.

There's a simple reason that customers can count on Brock equipment to last longer. We have more than 40 years of performance to prove it. Many people who installed some of our first handling equipment are still operating it today. That's why they still come back to Brock. They know we'll always be there with replacement parts and support. Whatever it takes, the customer is top priority.



Bucket Elevators



Brock® provides a variety of bucket elevators to help you deliver grain or other material to the farthest reaches of your handling and storage system. From whole grains to feed to fertilizer, Brock helps you get your product where it needs to go.

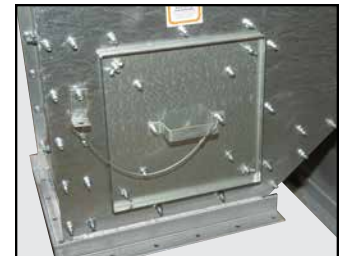
The Brock bucket elevator line is designed with the operator in mind for safety, easy maintenance, and trouble-free operation. Brock offers standard bucket elevators up to 60K BPH and custom sizes up to 80K BPH to meet your specific needs.

Features and Options

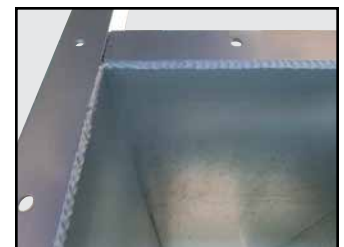
- **Solid-welded flange connections** provide extra durability. Brock equipment is not stitch-welded like some of the competitors.
- **Trunking components are fixture welded** to ensure square and parallel trunking for easy field assembly.
- **Boot hoppers** available with 1/4-inch (6.4 mm) abrasion resistant steel liner on BE36 to BE48 models. Optional on BE18 to BE30 models.
- **Pillow block bearings** on head and boot resist deflections and don't transfer heat like flange bearings. Meets NFPA code requirements.
- **Brock's gravity take-up boots** are offered with 18-, 24-, 30-, 36-, 42- and 48-inch (457-, 610-, 762-, 914-, 1067- and 1219-mm) pulleys.
- **Bonnet discharge throat and profile** helps elevated materials to discharge properly and minimize material that travels back down the return leg (back-legging).
- **Removable inspection doors** on both sides of the up casing aid quick installation and maintenance of belting and buckets.
- **UHMW shaft seals** keep moisture out and dust in.
- **Many other options available:** service platforms, ladders, safety cage, guy brackets and explosion relief vents.
- **Optional stainless steel elevator boot feet** are ideal for pit and other corrosive environment applications.



Ample Head Access: Brock's engineers took extra care to design head platforms that wrap around the back of the head, giving ample clearance for service and inspection.



Convenient Access: Quick access doors are located at the boot, discharge and pulley lagging areas.



Resist moisture and rust: Brock trunking flanges are solid-welded on the inside and outside. This closes the gaps so no moisture, dirt, or debris can get inside the trunking. Sure, this extra welding takes a little longer, but it is an important feature to ensure long life.



Bucket Elevators

Bucket Elevator Standards

- Elevator finish can be galvanized or stainless steel.
- Shaft made of #1045, turned, ground and polished steel. Boot shafts are drilled and tapped for optional motion monitor.
- Main head assembly has a 1/2-inch (12.7-mm) lip above the frame to provide a dust-tight and weatherproof seal. Split removable bonnet offers easy access.
- Adjustable throat baffle is designed for maximum discharge.
- Wear points in head and bonnet are lined. Available liners include urethane, abrasion-resistant (AR) steel and ceramic tile.
- Dust-tight and weatherproof shaft seals.
- Inspection and maintenance ports have gasket seals.
- Belting can be furnished in PVC or rubber.
- Screw take-up is standard in the boot section. External gravity take-up is optional.
- Safety cable is standard on all head access doors.



Bucket Elevator Accessories



Gravity Take-Up Boot

Dura-Splice - Durable Belt Fastener with "one size fits all" belts and pulleys. Each splice set joins a 2-inch (50.8-mm) wide belt area.

Elevator Head and Legging Explosion Relief Panels

- Relief panels release pressure from possible explosion. Safety cable prevents panel from falling.

Elevator Belt Speed Monitor

- The speed monitor mounts to the elevator boot shaft to detect slowdown in belt speed, indicating a plug situation. Available in single set point and dual set point, less control cable.

Bucket Attachment Hardware

- #1 Norway Elevator bucket bolts with nuts are sold (in quantities of 100) in 1-inch (25.4-mm) through 2-inch (50.8-mm) long, standard and fanged variety along with 1/4-inch (6.4-mm) and 5/16-inch (7.9-mm) lock washers, flat washers and hex nuts are available.



Explosion Relief Panel

Elevator Boot Hopper Magnet Option - High intensity magnet is mounted in elevator boot hopper to remove tramp metal. Quick release clamps allow for easy cleaning.



Urethane Head Liner

Elevator Belting - PVC (standard) or rubber (optional) belts are available.

Elevator Buckets - Polyethylene buckets standard. Metal, urethane or nylon buckets are optional. Bucket venting optional for fine or light weight products.



Pulley Lagging

Urethane Liners - High quality urethane liners with expanded metal backing are available in: 1/4-inch (6.4-mm) urethane, 1/4-inch (6.4-mm) ceramic chip urethane or 5/16-inch (7.9-mm) high energy urethane.



High Energy Urethane Head Liner

Motors - Motors up to 150 horsepower are available from stock. Motors are 1725-1800 RPM 60 Hz and 1450 RPM 50 Hz, three phase. Enclosures are TEFC or Explosion Proof, Class II, Group G.

Boot Shovel Hopper - A boot shovel hopper is available on all Brock bucket elevators. The shovel hopper has a hinged cover and a grate over the opening. The shovel hopper is located on the down leg side.



Boot Shovel Hopper

Boot Pulleys - Elevator pulleys are available in drum, winged and spiral winged styles.

Pulley Lagging - Heavy-duty slide lagging (SOF Style 5) slides into retainers which are welded onto the pulley.

Gravity Take-Up Boot - Gravity take-up for automatic belt tension is available on all Brock bucket elevators. Included is a weight box and alignment bolts for tracking the elevator belt.

Self-Cleaning Boot - Self-cleaning boot holds close clearance between boot bottom and cups at all times.

Bucket Elevator Machinery Arm - Mounts directly to head section. Available in 1,000-lb. (454-kg) and 1,500 lb. (681 kg) capacities.

Bucket Elevators

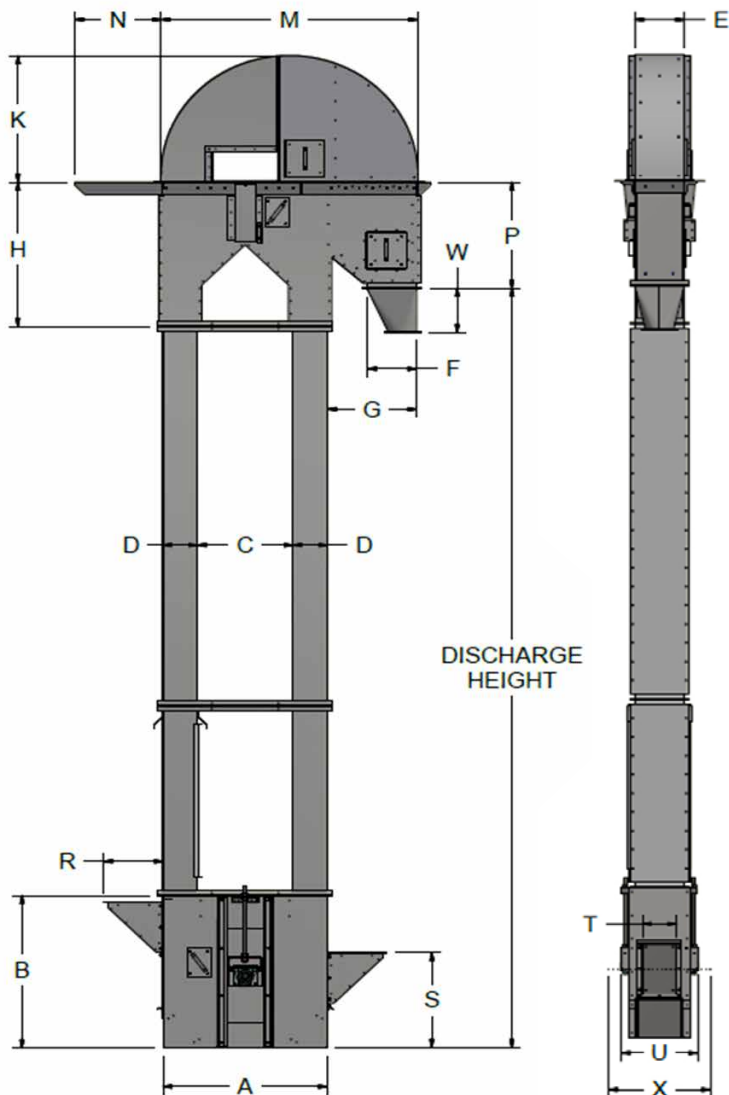
Bucket Elevator Specifications

MODEL	CAPACITY*				BUCKET SIZE		BUCKET SPACING		PULLEY		BELT SPEED	
	BPH	CFH	TPH	MTPH	INCHES	MM	INCHES	MM	DIAMETER	RPM	FPM	MPS
BE180912-013	1,350	1,688	41	37	9 x 5	229 x 127	12	305	18 Inch (458mm)	95	448	2.28
BE180912-017	1,750	2,188	53	48	9 x 5	229 x 127	9	229		95	448	2.28
BE180912-020	2,000	2,500	60	54	9 x 5	229 x 127	8	203		95	448	2.28
BE180912-026	2,650	3,313	80	72	9 x 5	229 x 127	6	152		95	448	2.28
BE241013-030	3,000	3,750	90	82	9 x 6	229 x 153	8	203	24 Inch (610mm)	77	482	2.45
BE241013-035	3,500	4,375	105	95	9 x 6	229 x 153	7	178		77	482	2.45
BE301014-033	3,300	4,125	99	90	9 x 6	229 x 153	8	203	30 Inch (762mm)	68	534	2.71
BE301014-036	3,600	4,500	108	98	10 x 6	254 x 153	8	203		68	534	2.71
BE301014-042	4,200	5,250	126	114	10 x 6	254 x 153	7	178		68	534	2.71
BE301017-045	4,500	5,625	135	123	12 x 6	305 x 153	8	203		68	534	2.71
BE301017-050	5,000	6,250	150	136	13 x 6	331 x 153	8	203	36 Inch (915mm)	68	534	2.71
BE301017-057	5,700	7,125	171	155	13 x 6	331 x 153	7	178		68	534	2.71
BE361117-061	6,100	7,625	183	166	12 x 7	305 x 178	9	229		64	603	3.06
BE361117-070	7,000	8,750	210	191	13 x 7	331 x 178	9	229	36 Inch (915mm)	64	603	3.06
BE361117-079	7,900	9,875	237	215	13 x 7	331 x 178	8	203		64	603	3.06
BE361120-081	8,160	10,200	245	222	15 x 7	381 x 178	9	229		64	603	3.06
BE361120-085	8,500	10,625	255	231	16 x 7	407 x 178	9	229		64	603	3.06
BE361120-100	10,000	12,500	300	272	16 x 7	407 x 178	8	203	42 Inch (1067mm)	67	631	3.21
BE421321-104	10,440	13,050	313	284	14 x 8	356 x 204	10	254		60	660	3.35
BE421321-123	12,350	15,438	371	336	16 x 8	407 x 204	10	254		60	660	3.35
BE421323-136	13,650	17,063	410	372	18 x 8	458 x 204	10	254		60	660	3.35
BE421323-152	15,200	19,000	456	414	18 x 8	458 x 204	9	229		60	660	3.35
BE421325-157	15,750	19,688	473	429	20 x 8	508 x 204	10	254	48 Inch (1220mm)	60	660	3.35
BE481425-151	15,100	18,875	453	411	18 x 8	458 x 204	9	229		52	650	3.30
BE481435-207	20,700	25,875	621	564	(2) 14 x 8	(2) 356 x 204	10	254		52	650	3.30
BE481439-250	25,000	31,250	750	681	(2) 16 x 8	(2) 407 x 204	10	254		52	650	3.30
BE481443-300	30,000	37,500	900	817	(2) 18 x 8	(2) 458 x 204	9	229		52	650	3.30
BE481447-350	35,000	43,750	1,050	953	(2) 20 x 8	(2) 508 x 204	9	229	52	650	3.30	

*Capacities based on water level plus 10% for dry, free flowing, grains with a 48 lb/ft³ (768 kg/m³) material density

Bucket Elevator Dimensions

MODEL	INCHES																	
	A	B	C	D	E	F	G	H	K	M	N	P	R	S	T	U	W	X
BE180912	34	39	16	9	12	12	20	45 1/2	30	54	23	24 1/2	15	24	9	20	12	26
BE241013	42	44	22	10	13	13	20	45 1/2	36	62	24	29	17	27	9	23	13	29
BE301014	48	48	28	10	14	14	26	45 1/2	40	74	26	33 1/2	18	30	10	24	14	30
BE301017	48	48	28	10	17	14	26	45 1/2	40	74	26	33 1/2	18	30	13	27	17	33
BE361117	56	56	34	11	17	17	31	47 1/2	44	87	28	39 1/2	20	36	13	27	18	33
BE361120	56	56	34	11	20	17	31	47 1/2	44	87	28	39 1/2	20	36	16	30	18	36
BE421321	66	60	40	13	21	21	38	59 1/2	52	104	26	46	24	37	16	31	21	37
BE421323	66	60	40	13	23	21	38	59 1/2	52	104	26	46	24	37	18	33	21	37
BE421325	66	60	40	13	25	21	38	59 1/2	52	104	26	46	24	37	20	35	21	37
BE481425	74	76 1/2	46	14	25	25	43	59 1/2	57	117	30	52	25	60	18	41 1/2	25	43 1/2
BE481435	74	76 1/2	46	14	35	25	43	59 1/2	57	117	30	52	25	60	28	51 1/2	25	53 1/2
BE481439	74	76 1/2	46	14	39	25	43	59 1/2	57	117	30	52	25	60	32	55 1/2	25	57 1/2
BE481443	74	76 1/2	46	14	43	25	43	59 1/2	57	117	30	52	25	60	36	59 1/2	25	61 1/2
BE481447	74	76 1/2	46	14	47	25	43	59 1/2	57	117	30	52	25	60	40	63 1/2	25	65 1/2



(GRAVITY TAKE-UP)

Bucket Elevator Dimensions

METRIC																		
MODEL	A	B	C	D	E	F	G	H	K	M	N	P	R	S	T	U	W	X
BE180912	864	991	406	229	305	305	508	1,156	762	1,372	584	622	381	610	229	508	305	660
BE241013	1,067	1,118	559	254	330	330	508	1,156	914	1,575	610	737	432	686	229	584	330	737
BE301014	1,219	1,219	711	254	356	356	660	1,156	1,016	1,880	660	851	457	762	254	610	356	762
BE301017	1,219	1,219	711	254	432	356	660	1,156	1,016	1,880	660	851	457	762	330	686	432	838
BE361117	1,422	1,422	864	279	432	432	787	1,207	1,118	2,210	711	1,003	508	914	330	686	457	838
BE361120	1,422	1,422	864	279	508	432	787	1,207	1,118	2,210	711	1,003	508	914	406	762	457	914
BE421321	1,676	1,524	1,016	330	533	533	965	1,511	1,321	2,642	660	1,168	610	940	406	787	533	940
BE421323	1,676	1,524	1,016	330	584	533	965	1,511	1,321	2,642	660	1,168	610	940	457	838	533	940
BE421325	1,676	1,524	1,016	330	635	533	965	1,511	1,321	2,642	660	1,168	610	940	508	889	533	940
BE481425	1,880	1,943	1,168	356	635	635	1,092	1,511	1,448	2,972	762	1,321	635	1,524	457	1,054	635	1,105
BE481435	1,880	1,943	1,168	356	889	635	1,092	1,511	1,448	2,972	762	1,321	635	1,524	711	1,308	635	1,359
BE481439	1,880	1,943	1,168	356	991	635	1,092	1,511	1,448	2,972	762	1,321	635	1,524	813	1,410	635	1,461
BE481443	1,880	1,943	1,168	356	1,092	635	1,092	1,511	1,448	2,972	762	1,321	635	1,524	914	1,511	635	1,562
BE481447	1,880	1,943	1,168	356	1,194	635	1,092	1,511	1,448	2,972	762	1,321	635	1,524	1,016	1,613	635	1,664

A Full Line of Brock Solid® Solutions



Storage

- Stiffened & Non-stiffened Grain Bins
- Stiffened & Non-stiffened Hopper Bins
- Temporary Storage
- Bin Access Doors
- Grain Aeration Floors

Handling

- Grain Sweeps
- Grain Conveyors
- Bin Unloading Systems
- Bucket Elevators
- Distributors & Accessories

Drying & Conditioning

- Low-Profile Grain Dryers
- Tower Grain Dryers
- Centrifugal & Axial Fans
- Heaters
- Controls

Structures

- Catwalks
- Bucket Elevator Towers & Stairways
- EVERLOC® Roof Mount System
- Support Towers
- Slot & Tab Construction

Brock Solid® is our guarantee of trusted reliability you can count on day in and day out. It is the guarantee of unmistakable quality, built to last year after year. It is the same guarantee we founded the company on back in 1957. That focus on providing dependability has resulted in the full line

of grain facility solutions that are available today. You will find the quality you have come to expect and the trusted integrity you deserve. Brock Solid delivers. Always has, always will.



— BROCK SOLID® —

Safeguarding Your Grain® Since 1957

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