



**— BROCK SOLID® —**

# **DRAG CONVEYORS**

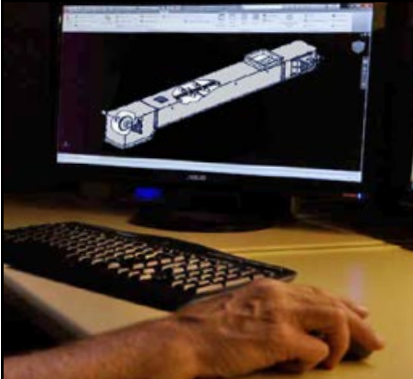


**Safeguarding Your Grain® Since 1957**



# 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 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.



# Drag Conveyors



**B**rock provides a full line of standard and incline drag conveyors in a range of sizes to provide ultimate flexibility when designing a grain or material handling system. From whole grains to feed to fertilizer, Brock helps you get your product where it needs to go.

Brock builds drag conveyors for performance and endurance under the most demanding of conditions. Our conveyors offer key features that extend life and increase productivity.

## Features and Options

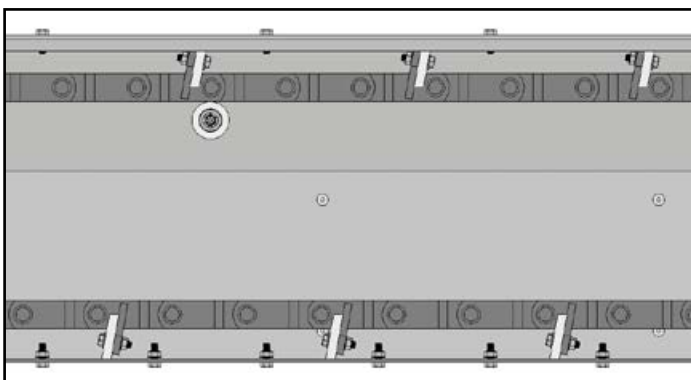


Solid welded flange connections and overlapping bottom eases installation of trough sections.



Chain return rails are capped with 1/4-inch (6.4-mm) AR steel for longer life.

- **Solid welded flange connections** provide extra durability. Brock equipment is not stitch-welded.
- **Overlapping bottom sections** ensure accurate alignment and speed installation.
- **Pillow block bearings** resist deflections and don't transfer heat like flange bearings. Meets NFPA code requirements.
- **All chain is appropriately sized** for bushel requirements to provide long life.
- **Chain return rails are capped with 1/4-inch (6.4-mm) Brinell AR400 abrasion-resistant steel** to ensure a longer lifespan.
- **10° angled flights** keep the chain from riding up on the grain. The flights act like a bulldozer blade to keep the bottom clean and prevent possible moisture build up.
- **1/2-inch (12.7-mm) white UHMW flights** provide longer operating life.
- **Special indicator flights at cotted chain section** allow quick visual identification of cotted chain. Every link in this section is cotted for easy maintenance.
- **All chain is shipped preassembled with flights attached.**
- **Screw take-up tensioning devices** help provide smoother running chain for more durable service.
- **Overload plate** prevents grain from flooding the tail section.



10° angled flights keep the chain from riding up on the grain.



# Horizontal Drag Conveyors

The BROCK® Easy-Flo Drag Conveyors provide reliable, long-lasting performance in most grain handling applications.

The BROCK Sur-Flo Conveyors are designed for applications that require 24/7 operation.

## Easy-Flo Conveyor standards.

- All drives consist of shaft-mounted Class II reducer, sheaves, bushings, drive belts (2.0 Safety Factor), belt guard, torque arm bracket and motor mount.
- Bottoms and side liners are made of Brinell AR200 abrasion-resistant steel.
- Galvanized finish standard. Stainless steel finish optional.
- Conveyor sizes 9- x 13-inch (229- x 337-mm) thru 22- x 20-inch (559- x 514-mm) use UHMW chain return rollers. Conveyor sizes 26- x 20-inch (660- x 514-mm) and larger use a chain return rail system.
- Flame cut steel, hardened rim C-hub sprocket. Split style is optional.
- Maximum incline using standard equipment is 5°. Conveyors can be inclined to a maximum of 10° using close-spaced flights.
- Standard 5° and 10° curve sections available for additional elevation of Easy-Flo and Sur-Flo conveyors.

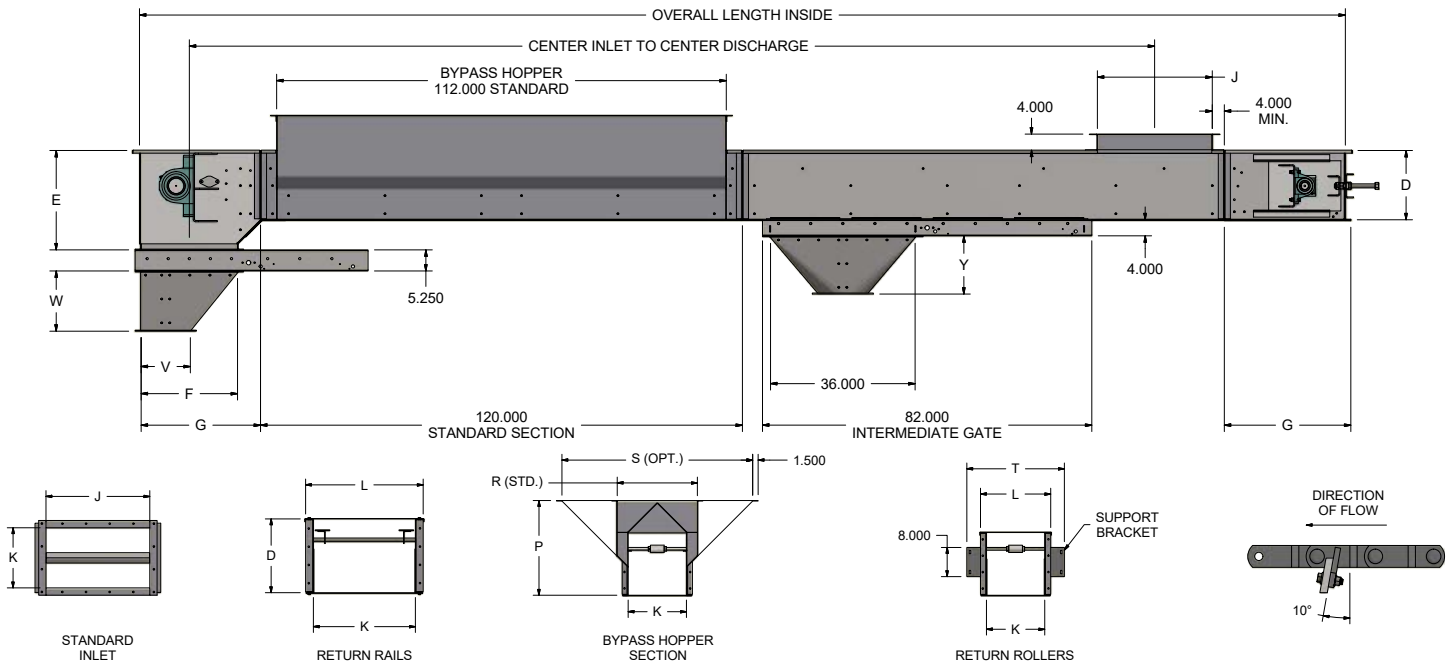
## Additional Sur-Flo Conveyor standards.

- Head and tail sections have lift out shafts and bearings for easy maintenance.
- Bottom and side liners are made of Brinell AR400 abrasion-resistant steel.
- Center pull take-up with hinged guide.
- Walking tooth split sprockets.

## Easy-Flo/Sur-Flo Conveyor Capacities

Size W x H (Metric)	CAPACITY*				CHAIN SPEED			Return Type
	BPH	CFH	TPH	MTPH	FPM	MPS	RPM	
9 x 13 (229 x 337)	2,000	2,500	60	54	86	0.44	39	Roller
	2,500	3,125	75	68	107	0.54	49	
	3,000	3,750	90	82	128	0.65	58	
	3,500	4,375	105	95	150	0.76	68	
	4,000	5,000	120	109	172	0.87	78	
12 x 13 (305 x 337)	4,000	5,000	120	109	128	0.65	58	Roller
	5,000	6,250	150	136	159	0.81	72	
	6,000	7,500	180	163	192	0.98	87	
16 x 13 (406 x 337)	5,000	6,250	150	136	119	0.60	54	Roller
	6,000	7,500	180	163	144	0.73	65	
	7,000	8,750	210	191	168	0.85	76	
	8,000	10,000	240	218	190	0.97	86	
9 x 17 (229 x 438)	4,000	5,000	120	109	117	0.59	38	Roller
	5,000	6,250	150	136	147	0.75	48	
	6,000	7,500	180	163	175	0.89	57	
12 x 17 (305 x 438)	6,000	7,500	180	163	132	0.67	43	Roller
	7,000	8,750	210	191	153	0.78	50	
	7,500	9,375	225	204	163	0.83	53	
	8,000	10,000	240	218	175	0.89	57	
16 x 17 (406 x 438)	9,000	11,250	270	245	196	1.00	64	Roller
	7,500	9,375	225	204	121	0.61	40	
	8,000	10,000	240	218	132	0.67	43	
	9,000	11,250	270	245	147	0.75	48	
16 x 20 (406 x 514)	10,000	12,500	300	272	163	0.83	53	Roller
	9,000	11,250	270	245	132	0.67	39	
	10,000	12,500	300	272	149	0.76	43	
20 x 20 (508 x 514)	12,500	15,625	375	340	180	0.91	53	Roller
	10,000	12,500	300	272	119	0.60	35	
	12,500	15,625	375	340	146	0.74	43	
22 x 20 (559 x 514)	15,000	18,750	450	408	176	0.89	52	Roller
	12,500	15,625	375	340	132	0.67	39	
	15,000	18,750	450	408	159	0.81	47	
26 x 20 (660 x 514)	17,000	21,250	510	463	180	0.91	53	Rail
	15,000	18,750	450	408	132	0.67	39	
	17,500	21,875	525	476	152	0.77	45	
28 x 20 (711 x 514)	20,000	25,000	600	544	173	0.88	51	Rail
	17,500	21,875	525	476	142	0.72	42	
	20,000	25,000	600	544	163	0.83	47	
26 x 26 (660 x 667)	22,500	28,125	675	613	180	0.91	53	Rail
	22,500	28,125	675	613	140	0.71	28	
	25,000	31,250	750	681	155	0.79	31	
28 x 26 (711 x 667)	27,500	34,375	825	749	171	0.87	34	Rail
	25,000	31,250	750	681	144	0.73	29	
	27,500	34,375	825	749	158	0.80	32	
32 x 26 (813 x 667)	30,000	37,500	900	817	173	0.88	35	Rail
	30,000	37,500	900	817	151	0.77	30	
	32,500	40,625	975	885	163	0.83	33	
32 x 32 (813 x 819)	35,000	43,750	1050	953	133	0.68	21	Rail
	40,000	50,000	1200	1,089	152	0.77	24	

\*Capacities based on 48 lb/ft<sup>3</sup> (768 kg/m<sup>3</sup>) material density.



## Easy-Flo/Sur-Flo Conveyor Dimensions

INCHES														
Size (W x H)	D	E	F	G	J	K	L	P	R	S	T	V (Sq.)	W	Y
9 x 13	13 1/4	20 3/4	18	24	15	9	13	19	15	37 1/4	19 3/4	8	15	17 1/2
12 x 13	13 1/4	20 3/4	18	24	18	12	16	20	18	42 1/4	22 3/4	10	13	16 1/2
16 x 13	13 1/4	20 3/4	18	24	16	16	20	22	22	50 1/4	26 3/4	12	15 1/4	16 1/2
9 x 17	17 1/4	24 3/4	24	30	15	9	13	23	15	38 1/8	19 3/4	10	19 1/2	16 1/2
12 x 17	17 1/4	24 3/4	24	30	18	12	16	24	18	44 1/8	22 3/4	12	17	15 1/2
16 x 17	17 1/4	24 3/4	24	30	16	16	20	26	22	52 1/8	26 3/4	14	15	14 1/2
16 x 20	20 1/4	28 1/4	24	30	16	16	21	29	22	54 1/8	27 1/4	14	15 1/2	14 1/2
20 x 20	20 1/4	28 1/4	24	30	20	20	25	31	26	62 1/8	31 1/4	16	13 1/2	14
22 x 20	20 1/4	28 1/4	24	30	20	22*	27	32	28	66 1/8	33 1/4	16	15	15
26 x 20	20 1/4	28 1/4	24	30	20	26	31	34	34	74 1/8	37 1/4	18	11	13
28 x 20	20 1/4	28 1/4	24	30	20	28*	33	35	36	78 1/8	39 1/4	18	12	15
26 x 26	26 1/4	34 1/4	30	36	20	26	31	40	34	75 7/8	37 1/4	20	16	12
28 x 26	26 1/4	34 1/4	30	36	20	28*	33	41	36	79 7/8	39 1/4	22	16	12
32 x 26	26 1/4	34 1/4	30	36	20	32	37	43	40	87 7/8	43 1/4	22	16	12
32 x 32	32 1/4	40 1/4	30	36	20	32	37	49	42	95 7/8	43 1/4	24	13 1/2	10
METRIC														
Size (W x H)	D	E	F	G	J	K	L	P	R	S	T	V (Sq.)	W	Y
229 x 337	337	527	457	610	381	229	330	483	381	946	502	203	381	445
305 x 337	337	527	457	610	457	305	406	508	457	1,073	578	254	330	419
406 x 337	337	527	457	610	406	406	508	559	559	1,276	679	305	387	419
229 x 438	438	629	610	762	381	229	330	584	381	968	502	254	495	419
305 x 438	438	629	610	762	457	305	406	610	457	1,121	578	305	432	394
406 x 438	438	629	610	762	406	406	508	660	559	1,324	679	356	381	368
406 x 514	514	718	610	762	406	406	533	737	559	1,375	692	356	394	368
508 x 514	514	718	610	762	508	508	635	787	660	1,578	794	406	343	356
559 x 514	514	718	610	762	508	559*	686	813	711	1,680	845	406	381	381
660 x 514	514	718	610	762	508	660	787	864	864	1,883	946	457	279	330
711 x 514	514	718	610	762	508	711*	838	889	914	1,984	997	457	305	381
660 x 667	667	870	762	914	508	660	787	1,016	864	1,927	946	508	406	305
711 x 667	667	870	762	914	508	711*	838	1,041	914	2,029	997	559	406	305
813 x 667	667	870	762	914	508	813	940	1,092	1,016	2,232	1,099	559	406	305
813 x 819	819	1,022	762	914	508	813	940	1,245	1,067	2,435	1,099	610	343	254

\*Standard Inlet width K is 2 inches (508 mm) narrower than the section width.

# Curved Incline Drag Conveyors

**B**ROCK® curved incline conveyors are used when applications require more than the normal 10° maximum incline of a BROCK Easy-Flo or Sur-Flo Conveyor.

## Incline conveyor standards.

- Standard inlet (may be choke fed in some cases).
- Manual, electric, hydraulic or pneumatic slide gates available.
- All steel chain is engineered and designed for extended life as well as maximum working loads. Chain is either welded steel or roller bushed.
- Bearing support mount constructed of 1/4-inch (6.4-mm) plate and welded in place for maximum strength.
- Flight attachments are constructed of heavy plate steel and welded to chain.
- All head, tail, and trough sections are shipped fully-assembled for fast field installation.
- Internal return pan is bolted and replaceable.
- Bottom splice plates for accurate alignment thru 17-inch (432-mm) tall models. Bolted bottom overlaps on 20-inch (508-mm) tall and larger models.
- Bolted bottom trough section for ease of maintenance and replacement.
- Flame cut steel, hardened rim C-hub sprocket. Split style is optional.
- Tension type screw take-up for more durable service.
- Turned, ground, and polished shafts constructed of #1045 steel.
- Abrasion-resistant bottoms, return pans and side liners are available in a variety of thicknesses.
- Curved and close tolerance tail sections are optional.

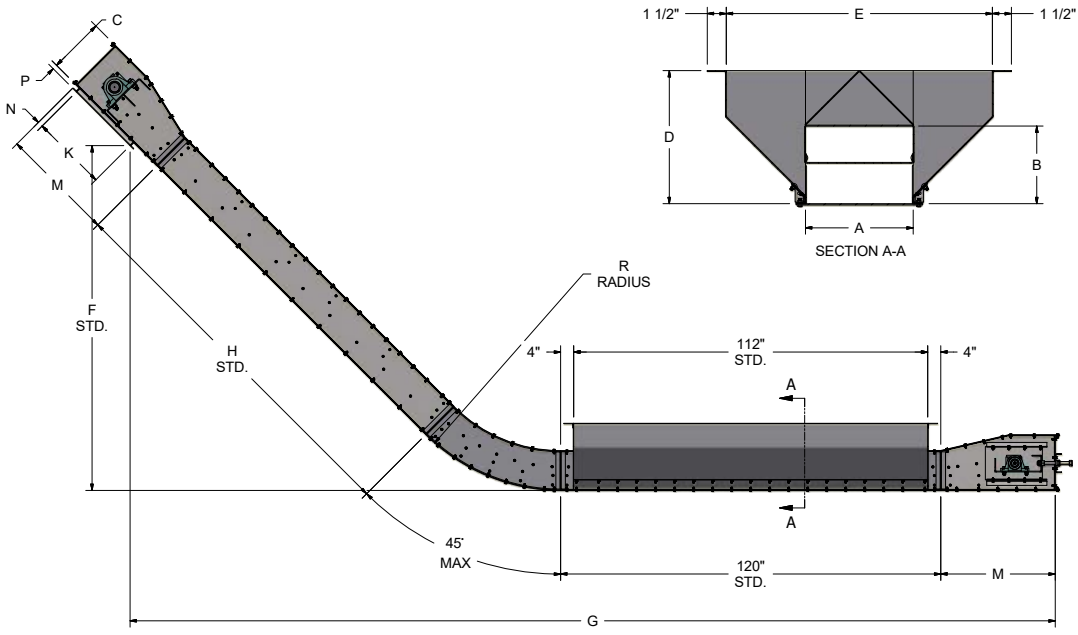
## Curved Incline Conveyor Capacities

Size W x H (Metric)	CAPACITY*				CHAIN SPEED		
	BPH	CFH	TPH	MTPH	FPM	MPS	RPM
<b>9 x 9</b> (229 x 235)	500	625	15	14	46	0.23	21
	1,000	1,250	30	27	93	0.47	42
	1,500	1,875	45	41	139	0.71	63
	2,000	2,500	60	54	186	0.94	84
<b>12 x 9</b> (305 x 235)	1,000	1,250	30	27	71	0.36	32
	1,500	1,875	45	41	104	0.53	47
	2,000	2,500	60	54	139	0.71	63
	2,500	3,125	75	68	175	0.89	79
<b>12 x 12</b> (305 x 311)	2,000	2,500	60	54	101	0.51	33
	2,500	3,125	75	68	126	0.64	41
	3,000	3,750	90	82	150	0.76	49
	3,500	4,375	105	95	175	0.89	57
<b>17 x 12</b> (423 x 311)	3,000	3,750	90	82	107	0.54	35
	3,500	4,375	105	95	122	0.62	40
	4,000	5,000	120	109	141	0.72	46
	4,500	5,625	135	122	159	0.81	52
<b>17 x 17</b> (432 x 438)	4,000	5,000	120	109	98	0.50	29
	5,000	6,250	150	136	122	0.62	36
	6,000	7,500	180	163	149	0.76	44
	7,000	8,750	210	191	173	0.88	51
<b>21 x 17</b> (533 x 438)	7,500	9,375	225	204	183	0.93	54
	7,000	8,750	210	191	139	0.71	41
	7,500	9,375	225	204	149	0.76	44
	8,000	10,000	240	218	159	0.81	47
<b>24 x 20</b> (610 x 514)	8,500	10,625	255	231	166	0.84	49
	9,000	11,250	270	245	176	0.89	52
	7,000	8,750	210	191	106	0.54	21
	8,000	10,000	240	218	121	0.61	24
<b>28 x 20</b> (711 x 514)	9,000	11,250	270	245	136	0.69	27
	10,000	12,500	300	272	151	0.77	30
	12,500	15,625	375	340	181	0.92	36
	10,000	12,500	300	272	126	0.64	25
<b>28 x 26</b> (711 x 667)	12,500	15,625	375	340	161	0.82	32
	14,500	18,125	435	395	181	0.92	36
	12,500	15,625	375	340	119	0.60	18
<b>32 x 26</b> (813 x 667)	15,000	18,750	450	408	143	0.73	22
	17,500	21,875	525	476	166	0.84	25
	15,000	18,750	450	408	125	0.63	19
<b>32 x 26</b> (813 x 667)	17,500	21,875	525	476	146	0.74	22
	20,000	25,000	600	544	166	0.84	25

\*Capacities based on 48 lb/ft<sup>3</sup> (768 kg/m<sup>3</sup>) material density

## Additional Features

- Paddles at chain splice are different color for easy identification during maintenance.
- Flights are a more robust 1/2-inch (12.7-mm) minimum flight thickness.
- All chain is shipped preassembled with flights attached.
- Bolted abrasion resistant steel side liner.



### Curved Incline Conveyor Dimensions

INCHES													
Size (W x H)	A	B	C	D	E	F	G	H	K	M	N	P	R
9 x 9	9	9 1/4	14	15	24	50	226	36	18	30	1 1/2	1 5/8	60
12 x 9	12	9 1/4	14	16	27	50	226	36	18	30	1 1/2	1 5/8	60
12 x 12	12	12 1/4	17 1/4	19	36	58	241	48	24	36	1 1/2	1 5/8	60
17 x 12	17	12 1/4	17 1/4	21	42	58	241	48	24	36	1 1/2	1 5/8	60
17 x 17	17	17 1/4	21 3/4	26	48	67	255	60	27	36	3	2 1/4	72
21 x 17	21	17 1/4	21 3/4	28	54	67	255	60	27	36	3	2 1/4	72
24 x 20	24	20 1/4	26 1/4	33	60	80	291	60	30	48	3	2 1/4	96
28 x 20	28	20 1/4	26 1/4	35	60	80	291	60	30	48	3	2 1/4	96
28 x 26	28	26 1/4	32 1/4	41	60	83	306	60	36	60	4	2 1/4	96
32 x 26	32	26 1/4	32 1/4	43	66	83	306	60	36	60	4	2 1/4	96

METRIC													
Size (W x H)	A	B	C	D	E	F	G	H	K	M	N	P	R
229 x 235	229	235	356	381	610	1,270	5,740	914	457	762	38	41	1,524
305 x 235	305	235	356	406	686	1,270	5,740	914	457	762	38	41	1,524
305 x 311	305	311	438	483	914	1,473	6,121	1,219	610	914	38	41	1,524
432 x 311	432	311	438	533	1,067	1,473	6,121	1,219	610	914	38	41	1,524
432 x 438	432	438	552	660	1,219	1,702	6,477	1,524	686	914	76	57	1,829
533 x 438	533	438	552	711	1,372	1,702	6,477	1,524	686	914	76	57	1,829
610 x 514	610	514	667	838	1,524	2,032	7,391	1,524	762	1,219	76	57	2,438
711 x 514	711	514	667	889	1,524	2,032	7,391	1,524	762	1,219	76	57	2,438
711 x 667	711	667	819	1,041	1,524	2,108	7,772	1,524	914	1,524	102	57	2,438
813 x 667	813	667	819	1,092	1,676	2,108	7,772	1,524	914	1,524	102	57	2,438



# A Full Line of Brock Solid® Solutions



## Storage

- EVEREST® & On-Farm Grain Bins
- EVEREST® & Wet Holding 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

**B**rock 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

## BROCK GRAIN SYSTEMS

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