

SCC Bucket Elevators for feed and grain

Designed for high efficiency plus high capacities to help cut handling costs.

Designed and engineered to provide efficient, high capacities for handling various grains, feeds, mill stocks and similar freeflowing granular materials. Double trunk legging incorporates Nu-Weld[®] continuous seam weld on casing sections. Heavy angle connecting flanges on each 10 ft. section. Welded steel, weather-tight construction – jig-welded angle flanges assure perfect alignment of legging sections.

Capacity range – from 685 to 7070 bushels per hour and more depending on applications. Efficient performance assured with SCC high speed, high capacity SCC Polymer or Nu-Hy^{\oplus} Elevator Buckets.

Specifications and performance data on all models contained in our Bucket Elevator Catalog.

NU-WELD® Casing Construction

Used on all SCC Bucket Elevators, Nu-Weld® construction means seam welded sections needing no vertical flange connections and continuously welded horizontal flanges. This means greater strength and stability, lower maintenance, longer service. Easily made commercially dust and weather proof by the addition of gaskets or sealing compound.

SCC Bucket Elevators for industrial service

Centrifugal and continuous models built for long life and rugged service in a wide variety of industrial applications.

Incorporates Nu-Weld[®] continuous seam weld on casing sections.

End flanges of casing continuously welded.

Head is factory assembled with split design for easy access to pulley or sprocket for maintenance. Boot is factory assembled with bolted panel for easy access to pulley or sprocket.

Ball bearings used throughout.

Ample inspection opening, in casing and head discharge spout.

Latest designs in ladders, safety cages, landing and service platforms are available as optional equipment.

Four types and twenty-seven models described in our Bucket Elevator Catalog with complete technical data and capacities.

SCC Bucket Elevators offer economical, efficient and reliable means of elevating a variety of materials. Screw Conveyor Corporation's wide range of experience acquired through many years of specializing exclusively in the conveying and elevating of bulk materials means low maintenance and long service.







Elevator Leg Replacement Parts

Note: Upgrading a leg and increasing capacity is a service provided by KC Supply Co. Ask for our spec sheet to upgrade your current leg or design a leg to meet your requirements

LEG TOWERS HEAVY DUTY SUPPORT TOWERS



STANDARD FEATURES:

- Computerized tower staging. (must be done at the factory)
- Staging rated for 100 mph wind load/seismic zone 4 per Uniform Building Code...unless otherwise requested.
- Strength stages 0 through 6 available.
- Velvet gray polyester powdercoat finish.
- Tubular steel construction.
- Prefabricated modular design: bolt-together lengths 10 feet tall.
- Interior Cross Braces for towers that do not have an elevator leg installed inside the tower.
- Hardware to assemble tower sections furnished.

STANDARD SIZES:

- 4-column 8' x 8'
- 4-column 10' x 10'
- 4-column 12' x 12'

AVAILABLE OPTIONS:

- 4-column tower sizes 2' x 4' up to 16' x 16'.
- 6 or 9-column tower configurations,
- Custom tower sections up to 10' tall.
- Access Braces allow easy access through the side of tower.
 Standard Dauble Z Dauble





- around the out-
- Spiral Stairways wind upward around the outside faces of the tower.
- Stairway Switch-Back Landings allow stairway system to be mounted on one face of the tower.
- Tower Side Walkways / Access Platforms: 24" or 48" wide walkway for outside face af tower. Toeboards on both sides of the walkway.
- Stairway Double-width Top Landings allow access into the tower from the stair system.
- Galvanized finish or custom color finish.
- "Coastal finish"- o two part powdercoat finish, based on pipeline standards, for installations in highly corrosive atmospheres.

#6 CATWALKS - GRADE C & D



STANDARD FEATURES:

- Computer engineered for freespans without the use of cable trussing. *Refer to chart on page 1*.
- Capable af conveyor loads up to 700 lbs/ft with 34" tall conveyor.
- #6 C & D catwalks are available with conveyor mounting areas of 30", 44" and 60".
- Assembly option allows for enlarged drop thru opening.
- Knock-down design: balt-together lengths in 3, 6 and 9 foot increments.
- 3" square tubular steel construction.
- 48 ³/₄" deep rigid double truss design.
- 3" square tubular steel handrails.
 42" high handrails are an both sides.
- Golvanized steel mesh wolkways.
- Galvanized toeboards on both sides of the walkway.
- Velvet gray palyester powdercoat finish.
- Simple three-step assembly. Only three bolt sizes for camplete assembly.

CONVEYOR MOUNTING OPTIONS	30"	44"	60"	
OVERALL WEIGHT GRADE C (Ibs/ff)	124	132	134	
OVERALL WEIGHT GRADE D (Ibs/ft)	146	154	156	
CLEARANCE WIDTH	73 ⁵ /s"	87 5/6"	103 5/6"	

OVERALL HEIGHT - 51 3/16" WALKWAY WIDTH - 24" CLEARANCE NEEDED BELOW WALKWAY - 9 1/4"

AVAILABLE OPTIONS:

- Handrail end enclosure.
- Full width steel mesh flooring.
- Stair steps an walkway side.
- Galvanized finish ar custom calor finish.
- "Coastal finish"- a two part pawdercoat finish, based an pipeline standards, for installotions in highly carrosive atmospheres.



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ROOF STAIRS



STANDARD FEATURES:

- Prefabricated modular design: individual bolttogether sections, each up to 20 feet in length.
- 1" tubular steel construction.
- New Designi 1 1/2" tubular steel, 36" high bolttogether handrails. Handrails on both sides of stairs.
- 24" wide x 7" deep steps.
- #10 expanded steel mesh on steps.
- Velvet gray polyester powdercoat finish.
- Hardware to connect handrails and stairway sections furnished.

(DOES NOT include hardware to attach stairway system to bin.)

AVAILABLE OPTIONS:

- Lower manhole access rail.
- Roof stair end enclosure.
- 6' Hex top cap handrails.
- 8' Hex top cap handrails.
- Galvanized finish or custom color finish.
- "Coastal finish" a two part powdercoat finish for highly corrosive atmospheres.

SPIRAL BIN STAIRS



STANDARD FEATURES:

- Prefabricated modular design: bolttogether sections, 45° incline with 5' rise.
- Bolt-on mounting brackets between each rise of stairs.
- 1" tubular steel construction.
- 25" x 31" top landing with toeboard.
- New Designi Welded 1 1/2" tubular steei, 36" high bolt-together outside handrail. (Old style handrail shown)
- 24" wide x 7" deep stairs.
- #10 expanded steel mesh on steps and landing.
- Velvet gray polyester powdercoat finish.
- Hardware to connect stairs, landing, toe boards and handrails furnished.
 (DOES NOT include hordware to attach stainway system to bin.

OPTION: Double top landing, full floor

Bin Ladder and Safety Cage

STANDARD FEATURES:

- Prefabricated Modular Design: Ladder sections slip together in 3 or 4 foot lengths
- "L" Style Mounting Brackets
- 4 Foot Starter Section
- 1" Tubular Steel Runners
- Perforated Channeled Ladder Rungs designed for better traction
- 16 1/4" Rung width with 12" spacing between rungs
- Velvet gray polyester powdercoat finish
- Hardware furnished for connecting safety cages to ladder. Does not include hardware for attaching ladder system to bin.

AVAILABLE OPTIONS:

- Heavy Duty Inside Bin Ladder
- Bolt-on walk throught head section
- Safety Cage

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- Plain landing for ladders without safety cage
- Double landing for ladders with safety cage
- Galvanized, Custom Color, or "Coastal Finish" for highly corrosive atmospheres



Steel Ladder and Safety Cage

FLAT STEP LADDER:

- Prefabricated Modular Design of 10, 14 or 20 ft
- Perforated Channeled Ladder Rungs design for better traction
- Velvet Gray Polyester Powdercoat finish ROUND RUNG LADDER:
- 1/4" x 2" Flat Side Rails
- 3/4" Round Rungs on 12" centers
- Standard Lengths of 10 and 20 ft
- Primed and painted standard gray ROUND STEEL CAGE
- Prefabricated in 3 or 4 foot bolt-to-ladder sections
- 4 foot flared cage
- Velvet Gray Polyester Powdercoat finish FLAT STEEL CAGE
- 28" inside diameter with 5 or 10 foot sections
- 3/16" x 2" hoops
- 1/8" x 1 1/2" stringers
- Primed and painted standard gray REST PLATFORMS
- Deck made of 3.14# expanded metal gate
- 1 1/2" square tubing handrail and 42" high posts with kick plate
- Field assembly right or left hand
- Required for every 30 ft of ladder per OSHA

All Ladders and Cages meet OSHA requirements

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ELEVATOR BUCKETS sizes and styles available

	POLYETHYLENE, NY	LON or URETHANE	NYLON	IRON or ALUMINUM	STI	EEL
SIZE (NOMINAL) INCHES	Style					
	CC-HD & U-HD	Low Profile	Style AA	Style AA	Style CC	Continuous
3 x 2	•	•			•	
4 x 2¾				•		
3¾x 3	•	•				
4 x 3	•	•			•	
5 x 31/2				•		
5 x 4	•.	•			•	
6 x 4	• •	•	•	•	•	•
7 x 4	•	•			•	٠
7 x 41/2	•	•		•		
6 x 5	•	•			•	•
7 x 5	•	•			•	•
8 x 5	•	•	•	•	•	•
9 x 5	•	•			•	•
10 x 5	•	•			•	•
11 x 5	•	•			•	•
12 x 5	•	•		•	•	
15 x 5				•		
19 x 5				•		
9 x 51/2	•	•				
11 x 51/2	•	•				
8 x 6	•	•			•	•
9 x 6	•	•		•	•	٠
10 x 6	•	•	•	•	•	•
11 x 6	•	•		•	•	•
12 x 6	•	•		•	•	•
13 x 6	•	•			•	•
14 x 6	•	•			•	•
10 x 7	•	•			•	•
11 x 7	• •	•			•	•
12 x 7	•	•	•	•	•	•
13 x 7	•	•			•	•
14 x 7	•	•	•	•	•	•
15 x 7	•	•		•	•	•
16 x 7	•	•		•	•	
10 x 8	•	•			•	•
11 x 8	•	•	4		•	•
12 x 8	•	•			•	•
13 x 8	•	•			•	•
14 x 8	•	•		•	•	•
15 x 8	•	•			•	-
16 x 8	•	•	•	•	•	•
18 x 8	•	•	•	•	•	•
20 x 8	•	•		•	•	•
24 x 8				•		
18 x 10			•	•		•

POLYETHYLENE, NYLON OR URETHANE STYLE CC-HD & U-HD:

An agricultural duty bucket for handling grains, feeds, fortilizers, seeds, sait, sand, chemicals, food products and a variety of other free flowing materials. Polyethylene is ideal for most applications while nylon or urethane is recommended for highly abrasive products or extremely high thru put elevators.

POLYETHYLENE, NYLON OR URETHANE LOW PROFILE:

The same CC-HD or U-HD style agricultural duty bucket as described above only modified to a "low profile" to allow closer spacing on the belt. Use to increase bucket elevator capacity over what can be achieved using conventional buckets and spacings.

NYLON STYLE AA:

An industrial duty bucket for handling foundry sand, sand and gravel, coal, fertilizers, clay, salt, and many other industrial materials.

IRON or ALUMINUM STYLE AA:

An industrial duty bucket for handling stone, foundry sand, sand and gravel, coal fertilizer, clay, salt and many other industrial materials. Iron is ideal for large, dense, sluggish products or sharp cutting products such as crushed glass. Aluminum is a light weight bucket for non-abrasive products in hot applications (250° to 400° F.) (121° to 204° C.) where nylon buckets could not be used because of the heat.

STEEL STYLE CC:

An agricultural duty bucket for handling grains, feeds, fertilizers, seeds, salt, sar chemicals, food products and a variety c other free flowing materials. Steel is ideal for sharp cutting products such as crushed glass and hot applications (over 225° F) (107° C) where polyethylene or urethane could not be used.

STEEL CONTINUOUS:

An agricultural and/or industrial duty buckets designed for use on "continuous type" bucket elevators. Runs at slow speeds for the gentle handling of a wide range of sluggish or fragile materials.

NO. 1 NORWAY FLAT COUNTERSUNK HEAD:

A large diameter thin flat countersunk head bolt with plenty of surface area to secure bucket and minimize chances of head "pull through" during hang ups. For use on pulleys larger than 6 inches in diameter.

NO. 3 ECLIPSE SLOTTED HEAD: A smaller diameter ribbed head bolt for use on pulleys 6 inches and smaller in diameter.

FANGED HEAD: (Blunt And Pointed End) Alarge diameter thin countersumk head bott similar to a No. 1 but with two fangs on the underside of head. Fangs penetrate the belt and prevent the bott from turning during installation and removal. For use on pulleys larger than 6 inches in diameter. Pointed end for ease of installation, not available in 3/8-16.

Indicates available sizes and styles

ELEVATOR BOLTS sizes and styles available

LENGTH (NCHES		No. 1 (Ľ		No. 3	J.	FANGED	POINTE FANGE	
	1/4-20	5/16-18	3/8-16	1/2-13	1/4-20	5/16-18	1/4-20	5/16-18	3/8-16
*4	0 0 0	0 0			0 0	0 0	0 🗆 🔷		
1	0 🗆 🔷	0 🗆 🔷	0 🗆 🛇		0 0	00	0 🗆 🛇	0 0 0	
11/4	0 3 0	0 🗆 🔷	0 🗆 🔷		0 0	0 0	0 🗆 🔷	0 🗆 🔷	0 0
11/5	0	0 🗆 🔷	000	0 0	0 0	0 0	0 🗆 🔷	0 🗆 🔷	0 0
13%	0	0 🗆 💸	0 🗆 🔷					0 🗆 🔷	0 0
2	0 0	0 0 0	0 0 0	0 0				0 0 0	
21/4	0 0	0 0	0 0						
21/2	0 0	0 🗆	0 🗆	0 0					
23/4	0 🗆	0 3	0'0						
3	0	0 0	0 🗆	00					
o Steel	Zinc	Plate	Stainles	s					

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ELEVATOR WASHERS, NUTS AND SPACERS

WASHERS AND SPACERS

FLAT	SIZE INCHES (ID)	PKG. QTY., PCS.	PKG. WEIGHT, LBS.
	1/4	100	.7
	5/16	100	1.1
	3/8	100	1.6

Available in zinc and stainless.

SPLIT RING LOCK	SIZE INCHES (ID)	PKG. QTY., PCS.	PKG. WEIGHT, LBS.
	1/4	100	.2
	5/16	100	.4
	3/8	100	.6

Available in zinc and stainless.

EXTERNAL TOOTH LOCK	SIZE INCHES (ID)	PKG. QTY., PCS.	PKG. WEIGHT, LBS,
e ()>	1/4	100	.7
	5/16	300	.7
erfra	3/8	100	.7

Available in zinc and stainless.

FENDER	SIZE INCHES (ID)	PKG. QTY., PCS.	PKG. WEIGHT, LBS.
101	1/4	100	1.3
	5/16	100	2.0
	3/8	100	3.0

Available in zinc and stainless.

	SIZE INCHES (ID)	PKG. QTY., PCS,	PKG. WEIGHT, LBS.
(0)	1/4	100	.3
	5/16	100	.3
	3/8	100	.3

Available in leather 1/8" thick.

POLY SPACERS	SIZE INCHES (ID)	PKG. QTY., PCS.	PKG. WEIGHT, LBS.
	1/4	100	2.0
	5/16	100	1.8
	3/8	100	2,0

Available in polyethylene 1/4" and 1/8" thick.

NEOPRENE	SIZE INCHES (ID)	PKG. QTY., PCS.	PKG. WEIGHT, LB\$.
	1/4	100	1.1
	5/16	100	1.1
	3/8	100	1.1

Available in neoprene 1/4" thick.

NUTS

STANDARD HEX	SIZE	PKG.	PKG.
	INCHES (ID)	QTY., PCS.	WEIGHT, LBS.
NOA	1/4-20	100	.7
	5/16-18	100	1.1
	3/8-16	100	1.6

Available in zinc and stainless.

STANDARD FLANGE SERRATED LOCK	SIZE	PKG. QTY.,	PKG, WEIGHT,
	(ID)	PCS.	LBS.
	1/4-20	100	.9
And A	5/16-18	100	1.2
	3/8-16	100	1.8

Available in zinc and stainless.

LARGE FLANGE SERRATED LOCK	SIZE INCHES	РК G. QTY.,	PKG. WEIGHT,
(CZC)	(ID)	PCS.	LBS.
AOR	1/4-20	100	1.2
(CCC)	5/16-18	100	2.3
	3/8-16	100	2.8

Available in zinc.

NYLON INSERT LOCK	SIZE INCHES (ID)	PKG. QTY., PCS.	PKG. WEIGHT, LBS,
	1/4-20	100	.8
	5/16-18	100	1.1
	3/8-16	100	2.8

Available in zinc and stainless.

SQUARE	SIZE INCHES (ID)	PKG. QTY., PCS.	PKG. WEIGHT, LBS.
$\langle \odot \rangle$	1/4-20	100	.9
	5/16-18	100	1.8
	3/8-16	100	2.6

Available in zinc and stainless.

Recommended bucket installation





BUCKET INDUSTRY HOLE PUNCHING* COMPARISON CHART

– PLASTIC –	3×2	4x3	5x4	6x4	7x4	6x5	7x5	8×5	9x5	10x5	11x5	8x6	9x6	10×6	11x6	12x6	13×6	10x7	11×7	12x7	13×7	14x7	1 <i>5</i> ×7	16×7	11×8	12×8	13×8	14x8	16×8	18×8	20x8	16×10
Maxi-Lift	13/4	21/4	33/16	43/8	25/8	43/8	25/8	31/16	31/2	4	31/8	31/16	31/2	4	3	33/8	35/8	4	3	33/8	35/8	3	31/4	31/2	31/8	33/8	35/8	3	31/2	31/8	31/2	27/8
Dura-Buket		21/4	33/16	43/8	211/16	43/8	25/8	31/16	31/4			31/16	31/2	4	3	33/8	35/8	4	3	33/8	35/8	3	31/4	31/2		33/8		3	31/2	31/8	31/2	27/8
Тарсо	13/4	21/2	33/16	43/8	211/16	43/8	211/16	31/16	35/8	41/8	3	31/16	35/8	41/8	3	33/8	35/8	41/8	3	33/8	35/8	3	31/4	27/8	3	33/8	35/8	3	27/8	31/8		
Grain Belt (KI Willis)				43/8		43/8	211/16	31/16	35/8				35/8	41/8	3	33/8	35/8		3	33/8	35/8	3		27/8		33/8		3	27/8	31/8		27/8
Screw Conveyor				43/8	211/16		211/16	31/16	35/8				35/8	41/8	3	33/8			3	33/8		3		27/8					27/8	31/8	31/2	
4 B Elevator Components		21/4 21/2	33/16	43/8	211/16	43/8	211/16	31/16	35/8				35/8	41/8	3	33/8			3	33/8		3		27/8		33/8		3	27/8	31/8	31/2	
- METAL -																																
Groin Belt		21/2	33/16	43/8	211/18	43/8	211/16	31/16	35/8	41/8	3	31/16	35/8	4 1/8	3	33/8	35/8	41/8	3	33/8	35/8	3	31/4	27/8	3	33/8	35/8	3	27/8	31/8		
K. I. Willis	13/4	21/2	31/2	41/2	25/8	41/2	25/8	31/8	31/2	4	31/8	31/8	31/2	4	31/8	33/8	35/8	4	31/8	33/8	35/8	4	31/4	25/8 31/4	31/8	33/8	35/8	4	25/8 31/4	4		
4B Elevator Components				43/8			211/18	31/16	31/2 3-5/8			_	31/2 3-5/8	4 4-1/8	3 3-1/8	3-3/8			3 3-1/8	3-3/8				27/8				4 3	27/8			
Nu-Hy		25/16	33/16	43/8	211/18	43/8	211/16	31/16	35/8	41/8	3	31/16	35/8	41/8	3	33/8		41/8	3	33/8		3	31/4	27/8								
Salem		25/16	33/16	43/8				31/16	35/8	41/8	-		35/8	41/8	3	33/8	33/4	41/8	3	33/8	33/4	3	31/4	27/8	33/8			3	27/8	31/8		-

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Standards only — cups can be punched on any spocing.
 *Chart is a representation of the standard punching af each company. Punching patterns should be verified at time of purchase.

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Standard Bolt Holes Drilled on the WL (Water Level) Line ± 1/4"

STYLE CC-HD (HEAVY DUTY) BUCKETS

SIZE	Tota	DIMENSION trance A.B.C	-Actual (in.) ± 1/8° • T ± 1/	64'		ORILLING-S Holes drilled	tandard (in.) 1/32" oversize			CAPAC	ITY ①		SPACING	WEIG	NUMBER	
(Nominal)	Length	Prol.	Depth	Thickness	Conter t	o Center	Number	Bolt	W		WL + 1	0%	ON BELT (Minimum)	5		PER
tn	A	8	C	T	E	F	Holes	Diameter	Cu. In.	Cu. Ft.	Cu. In.	Cu. Ft.	tn.	Each (Avarage)	Per Carton (Average)	Carton
3x2	3-1/4	2-1/2	2-1/16	11/64	1-3/4		2	1/4	6.0	.0035	6.6	.0038	3	.13	3.59	24
4x3	4-1/4	3-1/2	3-1/16	3/16	2-1/2		2	1/4	16.8	.0097	18.5	.0107	4	.26	7.08	24
5x4	5-1/4	4-1/2	4-1/16	13/64	3-3/16		2	1/4	35.8	.0207	39.4	.0228	5	.46	12.60	24
6x4	6-1/4	4-1/2	4-1/16	13/64	4-3/8		2	1/4	43.3	.0251	47.6	.0276	5	.53	14.28	24
7x4	7-1/4	4-1/2	4-1/16	13/64	2-11/16		3	1/4	49.7	.0288	54.7	.0316	5	.60	15.96	24
6x5	6-5/16	5-1/2	5-1/16	1/4	4-3/8		2	1/4	68.3	.0395	75.1	.0435	6	.80	20.88	24
7x5	7-5/16	5-1/2	5-1/16	1/4	2-11/16		3	1/4	75.8	.0439	83.4	.0483	6	.98	25.20	24
8x5	8-5/16	5-1/2	5-1/16	1/4	3-1/16		3	1/4	85.4	.0494	93.9	.0544	6	1.10	28.35	24
9x5	9-5/16	5-1/2	5-1/16	1/4	3-5/8		3	1/4	97.9	.0567	107.7	.0623	6	1.02	26.43	24
10x5	10-5/16	5-1/2	5-1/16	1/4	4-1/8		3	1/4	113.5	.0657	124.9	.0723	6	1.24	32.03	24
11x5	11-5/16	5-1/2	5-1/16	1/4	3		4	1/4	127.2	.0736	139.9	.0810	6	1.27	32.75	24
12x5	12-5/16	5-1/2	5-1/16	1/4	3-3/8		4	1/4	143.1	.0828	157.4	.0911	6	1.35	34.67	24
8x6	8-5/16	6-5/8	6-1/16	1/4	3-1/16		3	1/4	124.5	.0720	137.0	.0793	7	1.34	35.00	24
9x6	9-5/16	6-5/8	6-1/16	1/4	3-5/8		3	1/4	135.9	.0786	149.5	.0865	7	1.45	37.64	24
10x6	10-5/16	6-5/8	6-1/16	1/4	4-1/8		3	1/4	150.4	.0870	165.4	.0957	7	1.57	40.52	24
11x6	11-5/16	6-5/8	6-1/16	1/4	3		4	1/4	173.4	.1003	190.7	.1104	7	1.69	43.56	24
12x6	12-5/16	6-5/8	6-1/16	1/4	3-3/8		4	1/4	185.4	.1073	203.9	.1180	7	1.76	45.24	24
13x6	13-5/16	6-5/8	6-1/16	1/4	3-5/8		4	1/4	203.8	.1179	224.2	.1297	7	1.85	24.48	12
14x6	14	6-5/8	5-7/8	1/4	3		5	1/4	198.3	.1148	218.1	.1262	7	1.98	26.04	12
10x7	10-7/16	7-3/4	7-1/16	9/32	4-1/8		3	5/16	219.4	.1270	241.3	.1397	8	2.01	18.53	8
11x7	11-7/16	7-3/4	7-1/16	9/32	3		4	5/16	234.2	.1355	257.6	.1491	8	2.31	21.13	8
12x7	12-7/16	7-3/4	7-1/16	9/32	3-3/8		4	5/16	248.2	.1436	273.0	.1580	8	2.43	22.09	8
13x7	13-7/16	7-3/4	7-1/16	9/32	3-5/8		4	5/16	284.4	.1646	312.8	.1810	8	2.62	23.71	8
14x7	14-7/16	7-3/4	7-1/16	9/32	3		5	5/16	301.9	.1747	332.1	.1922	8	2.76	25.03	8
15x7	15-7/16	7-3/4	7-1/16	9/32	3-1/4		5	5/16	331.4	.1918	364.5	.2110	8	3.02	26.91	8
16x7	16-7/16	7-3/4	7-1/16	9/32	2-7/8		6	5/16	346.5	.2005	381.2	.2206	8	3.13	27.99	8

STYLE CC-HD "SUPER CAPACITY" BUCKETS

10x8	10-7/16	8-3/4	8-13/16	11/32	4-1/8	3	5/16	297.0	.1719	326.7	.1891	9	2.95	26.60	8
11x8	11-7/16	8-3/4	8-13/16	11/32	3	4	5/16	325.9	.1886	358.5	.2075	9	2.99	26.92	8
12x8	12-7/16	8-3/4	8-13/16	11/32	3-3/8	4	5/16	362.0	.2095	398.2	.2304	9	3.02	27.16	8
13x8	13-7/16	8-3/4	8-13/16	11/32	3-5/8	4	5/16	390.2	.2258	429.2	.2484	9	3.17	28.81	8
14x8	14-7/16	8-3/4	8-13/16	11/32	3	5	5/16	429.6	.2486	472.6	.2735	сл	3.31	29.93	8
15x8	15-7/16	8-3/4	8-13/16	11/32	3-1/4	5	5/16	458.9	.2656	504.8	.2921	9	3.72	33.21	8
16x8	16-7/16	8-3/4	8-13/16	11/32	2-7/8	6	5/16	511.1	.2958	562.2	.3254	9	3.84	34.27	8
18x8	18-7/16	8-3/4	8-13/16	11/32	3-1/8	6	5/16	564.4	.3266	620.8	.3593	9	4.37	38.51	8
20x8	20-7/16	8-7/8	8-15/16	11/32	3-1/2	6	5/16	644.2	.3728	708.6	.4101	9	5.77	51.50	8

STYLE U-HD BUCKETS fit UNIVERSAL INDUSTRIES elevators

42	1.800 ww) KC S w.kcs	SUPPI supply	LY (52 .com	7.877	5)	Pł	none (316.75 e	3.767 mail:	6 kcsup	Fa pply@	ax 816 kcsup	6.753.0 pply.c	0444 om	KC
11x7	11-7/16	7-3/4	7-1/16	9/32	3-1/8		4	5/16	234.2	.1355	257.6	.1491	8	2.31	21.13	8
11x5-1/2	11-5/16	6-5/8	6-1/16	1/4	1-3/4	2-3/4	5	1/4	173.4	.1003	190.7	.1104	6	1.69	43.56	24
9x5-1/2	9-5/16	5-1/2	5-1/16	1/4	1-3/4	3-1/2	4	1/4	97.9	.0567	107.7	.0623	6	1.02	26.43	24
7x4-1/2	7-1/4	4-3/8	4-1/16	13/64	2-1/2		3	1/4	44.2	.0256	48.6	.0281	5	.58	15.10	24
6x4	6-1/4	4-1/8	4-1/16	13/64	2-3/4		2	1/4	35.4	.0205	38.9	.0225	4-1/4	.51	13.42	24
3-3/4x3					1-7/8		2	1/4	11.3	.0065	12.4	.0072				





Tiger-Tuff is a maximum duty terminal elevator bucket, designed and engineered to move more product faster, with less down time and lawer maintenance casts. The heavy reinforced lip, corners and thickened back extends the life of the bucket. Projection + 2" = minimum vertical spocing an belt. The most camman applications include grains, fertilizer, pellets, carn, wheot, soy beans and other agricultural and light industrial applications.

FEATURES	BENEFITS
Thicker walls, heavy front lip for digging	Increases elevator capacity
More capacity	Lowers elevator maintenance
Cleaner discharge	Extended bucket life
High impact and abrasion resistant	Decreases elevator down-time
Non-corrosive, non-sparking	Corrosion resistant

MATERIALS	HD POLYETHYLENE	NYLON	URETHANE	SPECIAL RESINS
COLÓR	Orange/White	Tan	Green	As available
APPLICATION	Groin and food products	Hot, high impact, abrasive dense products	Heavy abrasion, sticky materials	Product conditions not suitable for "In Stock" bucket materials.
TEMPERATURE RANGE	-120°F to +180°F (210°F intermittent)	-60°F to +300°F (350°F intermittent)	-60°F to +180°F (210°F intermittent)	As required
FDA APPROVED MATERIAL	Yes	Avoilable upon request	Yes	As required
COMMENTS	Economical, high density polyethylene. FDA approved material far handling foad grade products.	Best for high heat applications, with tough impact and abrasian needs.	Most flexible and abrasion resistant. Resists product sticking and sharp cutting particles.	Engineered for specific requirements, such as extreme temperature, abrosion, color or product discharge.

Tiger-Tuff_® Elevator Bucket

	Bucket S	ize, Inches **		Y				Weight, Lbs.		Capacity	Cu. Inches	_
Bucket Size	L Length	P Proj.	D Depth	E Centers (Inches)	-+	Bolt Size (Inches)	(Poly) H.D.P.E.	Nylan	Urethane	Water Level X-X	Useable 5' Over X-X	Carton Qty.
20x10	21	н	10	3-1/2	6	5/16	10.63	12.73	14.37	1,032.50	1,135.98	6
18x10	19	11	10	3-1/8	6	5/16	9.80	11.74	13.25	910.00	1,001.21	6
16x10	17	11	10	2.7/8	6	5/16	8.76	10.25	11.84	795.70	875.37	6
20×8	21	9-1/16	8-1/8	3-1/2	6	5/16	6.31	7.39	8.52	646.81	714.73	10
18x8	19	9-1/16	8-1/8	3.1/8	6	5/16	5.98	7.00	8.08	567.49	627.08	10
16×8	17	9-1/16	8-1/8	2-7/8	6	5/16	5.50	6.49	7.43	512.57	566.39	10
14x8	14-5/8	8-3/4	8-1/4	3	5	5/16	5.05	5.92	6.83	436,80	481.35	6
13x8	13-5/8	8-3/4	8-1/4	3-5/8	4	5/16	4.78	5.60	6.46	404.85	446.15	6
12x8	12-5/8	8-3/4	8-1/4	3-3/8	4	5/16	4.51	5.28	6.10	373.00	411.05	6
16X7	16-1/2	7-3/4	7	2-7/8	6	5/16	3.91	4.58	5.29	.379.90	418.65	7
14x7	14-1/2	7-3/A	7	3	5	5/16	3.52	4.12	4.76	331.49	365.30	7_
12x7	12-1/2	7-3/4	7	3-3/8	4	5/16	3.13	3.67	4.23	283.18	312.06	7

**Actual dimensions may vary slightly an all elevator buckets, depending on specified raw material.



* Supplied with lip brace. Lip braces optional on other sizes at slightly higher cost

NOTE: When using standard CC-Style buckets, the manufacturer's recommend that the buckets are spaced not closer than projection plus 2". (Ex. 9 x 6 should be spaced at least 8" apart). This allows for better filling. However, when using low profile buckets, the spacing is usually projection less 1". Please consult our sales office for help with your application.

Also, when elevating material that has a tendency to set up and harden, steel digger buckets should be spaced approximately every 10 buckets when using plastic buckets. Digger buckets are wider and have more projection than standard plastic buckets. This will keep a clear path for the plastic bucket causing less wear from abrasion and increase the life of the buckets.

	1.800 KC SUPPLY (527.8775) www.kcsupply.com	Phone 816.753.7676	Fax 816.753.0444 pply@kcsupply.com	KC
44	www.kcsupply.com	email: kcsup	ply@kcsupply.com	हरगणने ह

Bucket Identification Chart



Custom Fabricated Buckets

KC Supply can fabricate elevator buckets for both agricultural and industrial use. We offer mild and stainless steel buckets in any gauge. Plus, KC Supply can provide AR steel plate, special alloys, wear lips, hardened surfaces as well as hard bead welds. We can customize buckets to meet your specifications. Call us for engineering and quotations.



CUSTOM DESIGN



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INFORMATION REQUIRED TO ORDER BUCKETS

1. MEASURE THE WIDTH, PROJECTION AND DEPTH OF THE BUCKET

Most manufacturers identify sizes by molding the nominal dimensions into the bottom of the bucket.

Width





Depth



2. CHOOSE THE BUCKET STYLE - (Standard CC-style, low profile, etc.)
3. CHOOSE THE BUCKET MATERIAL - (Steel, Poly, Urethan, Nylon, etc.)
4. CHOOSE VENT PATTERN - (if necessary, to improve discharge)

#1 Standard Vent Same holes in body as bolt mounting holes, plus a hole in each end cap. #2 Vent Twice as many holes in body as bolt mounting holes.





#3 Vent #4 Vent Same as #2, but two rows, or Same as #3, plus three holes four times as many holes as in each end cap. bolt mounting.

CHOOSE PUNCH PATTERN - See inside page of the back cover for manufacturer's standard patterns.
 CHOOSE DIGGER BUCKETS - if necessary.

7. CHOOSE BUCKET ACCESSORIES: BOLTS, WASHERS, NUTS, SPACERS

COMPUTE BUCKET ELEVATOR CAPACITY

CAPACITY of the bucket at water level (cubic inches)	NUMBER OF BUCKETS per foot (12" ÷ spacing in inches)	NUMBER OF ROWS of buckets on belt	SPEED of belt or chain FPM (Feet Per Minute)	CUBIC INCHES PER HOUR See below for conversion
	(10)			J <u></u> -

X (12" \div) X X X 60 minutes =

Multiply the CAPACITY of the bucket times the NUMBER OF BUCKETS per foor (12 divided by spacing) times the NUMBER OF ROWS of buckets. This will give you the capacity in cubic inches of each running foot of the belt or chain. Multiply the answer times the SPEED of the belt or chain in FPM for the capacity discharged per minute. Then multiply by 60 minutes to get cubic inches per hour. For engineering purposes, most manufacturer's recommend using water level capacity. Actual capacity can range from 10% to 20% above water level, therefore your results may be multiplied by 1.10 for more applicable results. Actual bucket fill will vary depending on the product and operational conditions.

CONVERSION FROM CUBIC INCHES PER HOUR TO:

Bushels = Divide by 2150Cubic Feet = Divide by 1728Tons = Multiply cubic feet capacity times weight of product per cubic foot and divide by 2,000Metric Tons = Multiply cubic feet capacity times weight of product per cubic foot and divide by 2,204.62

		MINUTE FORMULA						
3.141	6 X_ Pi	Head Pulley (Dia. in Inches)	_ X	RPM	÷	12 = In / Ft.	Feet Per Minute	
46	1.800 ww	KC SUPPLY (527.8775) w.kcsupply.com	Pho	ne 816.7	53.7676 email: kc	Fa supply@k	x 816.753.0444	

CALCULATE ELEVATOR BELT WOR	RKING TEN	SION		
B = Belt weight in pounds per lineal foot. Start with belt that is a		bucket proje	ction given,	
obtain belt weight in pounds P.I.W. and multiply times belt w	vidth			
C = Weight of each bucket in pounds				
D = Discharge height of elevator (use 1/2 of belt length if discharge height of elev	rge height is	not given).		
K = Capacity of each bucket in CUBIC FEET.				
S = Bucket spacing in inches				
W = Weight of material being elevated in pounds per cubic foot.				
1. Tension due to weight of belt $B \times D =$				
2. Tension due to weight of buckets $(12 \times C \times D) \div S =$				
3. Tension due to load in each bucket $(12 \times K \times D \times 2) \div S =$				
4. Tension due to scoop factor $\{(12 \times K \times W) \div 12\} \times 25 =$				
TOTAL TENSION = Add lines 1 thru 4 =				
Divide by belt width to obtain MINIMUM belt tension rating.	. Check ratin	g selected to	be sure	
maximum bucket projection is not exceeded.		C	1	
NOTE: For belts with more than one row of buckets, calculate				
appropriate percentage of belt width in step 1. Ex. A 30" wid	ie belt with 2	rows of buc	kets should	
figure the tension using 15" of belt width.				
Information Needed for Ordering Corr	rectly Sized	Belt		-
1. Pulleys Center-to-Center: Ft.	BUCKET			
2. Head Pulley Diameter: Inches	A. Manufa			
3. Tail Pulley Diameter: Inches	B. Constru	ction Materi	al	
4. Head Shaft RPM:	C. Size			
5. Belt Width: Inches	D. Style			
6. Material Handled	E. Numbe	r of Bolt Ho	les	
7. Material Weight Lb./cu ft	F. Bolt Siz	xe		
8. Rows of Bucket on Belt:	G. Bolt Ho	ole Centers		
9. Bucket Spacing Inches	H. Bucket	Capacity		
	TAB	BLE OF SPI	EED - CC	÷
		BUCKE		
GENERAL TECHNICAL INFO	Pulley	RPM	FPM - Belt	
For best results, the diameter of the head pulley should	Inch Dia	Range	Range	
be at least 5 times the projection of the bucket - with the	8	85-170	176-352	
diameter increasing for taller legs.	10	85-170	224-448	
The chute or discharge box should be located at least 2	16	55-100	230-418	
inches below the bottom of the head pulley. The throat to the	20	55-85	286-443	
down-leg should be closed as much as possible with a piece of	22	55-80	316-460	
rubber. Venting on the roof is optional but some form of air	24	42-80	264-502	
relief is recommended. The head pulley to tail pulley ratio also	30	42-80	330-628	
affects the performance of an elevator. A small tail pulley	36	42-80	395-753	
I de anagene de a la aduma adura en arte a successo de			439-769	
decreases the loading efficiency as well as increases the wear	42	40-70		
and tear on the buckets and belt. Feeding on the up leg above	48	40-65	503-817	
- ·	48 54	40-65 40-65	503-817 565-919	
and tear on the buckets and belt. Feeding on the up leg above	48 54 60	40-65 40-65 40-60	503-817 565-919 628-942	
and tear on the buckets and belt. Feeding on the up leg above	48 54	40-65 40-65	503-817 565-919	

All formulas and charts are for reference only and does not necessarily mean that the calculations will represent actual results.

C

PVC Belting

PVC provides an economical solution for elevator and conveyor service. This specification is ideal for light to medium applications including grain or fertilizer.

Some of PVC's characteristics include fire retardant, oil and moisture resistant, and static conductive properties, excellent fastener and bolt holding capabilities, durable and long-wearing with low stretch.

Some agricultural applications require a heavier duty belt. These high-performance, high-value elevator belts allows for 7 - 10" bucket projections.





Style	Description	Tension Rating lbs. / P.I.W (per in.width)	Nominal Thickness Inches	Nominal Weight Ibs. / PIW	Minimum Pulley Diameter Inches	Maximum Bucket Projection
PVC 150	Black, Cover Both Sides	150	0.185	.0100	2.5	5
PVC200	Black, Cover Both Sides	200	0.230	0.140	4	6
PVC250	Black, Cover Both Sides	250	0.250	0.150	6	7
PVC300	Black, Cover Both Sides	300	0.280	0.150	8	7
PVC350	Black, Cover Both Sides	350	0.300	0.160	8	8
PVC450	Black, Cover Both Sides	450	0.350	0.180	10	9
PVC650	Black, Cover Both Sides	650	0.380	0.200	14	9
PVC750	Black, Cover Both Sides	750	0.400	0.210		10