

## CC-HD “HEAVY DUTY” Elevator Bucket HIGH DENSITY POLYETHYLENE FOR USE IN FREE FLOWING PRODUCT APPLICATIONS

47  
SIZES  
STYLE CC-HD  
&  
STYLE U-HD



PRIME  
VIRGIN  
POLYETHYLENE

**AGRICULTURAL STYLE FOR HANDLING:  
GRAINS, FEEDS, FERTILIZERS, SEEDS, SALT, SAND,  
CHEMICALS, and FOOD PRODUCTS**

### FEATURES:

**LONG LASTING, TOUGH AND FLEXIBLE, THICK WALLS, LIGHT WEIGHT, CLEAN DISCHARGE,  
LESS PRODUCT DAMAGE, REDUCE BACKLEGGING, NON SPARKING, NONCORROSIVE**

### TECHNICAL INFORMATION

**STYLE:** CC-HD (Heavy Duty) and U-HD (Heavy Duty).

**DESIGN:** High speed centrifugal discharge.

**MATERIAL:** High density linear polyethylene.

**METHOD OF MANUFACTURE:** Injection molded.

**COLOR:** Blue. White, special order for flour, sugar, etc..

**TEMPERATURE RANGE:** -60°F to + 200°F/-51°C to + 93°C.

**FLAMMABILITY:** The high density polyethylene used in Tapco buckets is termed “slow burning”. It has been tested under ASTM Test No. D635. It also meets the criteria for approval under the Motor Vehicle Safety Standard No. 302 and Underwriters’ Laboratory Bulletin No. 94. Combustion in an excess of air results in harmless by-products (fumes) which are nontoxic.

**STANDARD DRILLING:** No Charge.

**SPECIAL DRILLING:** Any pattern and hole diameter can be provided at minimal cost.

**VENTING:** Available in five standard patterns. See page 78 for specifications.

**USABLE CAPACITY:** Net or usable capacity could range from 10% to 20% above water level. For engineering purposes Tapco recommends using WL (Water Level) + 10% for usable capacity.

**SPACING:** Minimum bucket spacing has historically been nominal projection plus 2". Many style CC buckets, however, are being used at projection plus 1", and some even closer. For engineering purposes Tapco recommends using nominal projection plus 2".

**INTERCHANGEABILITY:** Can be intermixed with existing steel or nonmetallic buckets. Some consideration should be given to balance. Bucket projection varies by manufacturer and material. Check elevator for proper clearances. Contact Tapco for recommendations.

**INSTALLATION:** Fanged elevator bolts and nylon insert lock nuts are recommended for pulleys 6" in diameter and over. No. 3 Eclipse slotted head elevator bolts are recommended for pulleys under 6" in diameter. **Flat steel washers must be placed inside the bucket under the nuts.** Check elevator for proper clearances.

**FDA STATUS:** Polyethylene used meets the requirements of the Food Additives Law and Regulation No. 177.1520. Blue pigment meets Regulations No. 175.300 and 177.2600.

**UV RESISTANCE:** No UV (ultraviolet) stabilizers are added to Tapco buckets because most elevator buckets are enclosed in casings. Tapco buckets should not be exposed to direct sunlight for extended periods.

**RECOMMENDATIONS:** Polyethylene buckets are ideal for use with grains, feeds, fertilizers, seeds, food products, chemicals, sand, salt and most free flowing agricultural products handled in bucket elevators.

**LIMITATIONS:** Polyethylene buckets should not be used with the following: (1) Materials over 200°F/93°C. (2) Sharp edged materials such as crushed glass or oyster shells. (3) Large dense materials such as gravel and ores over 3/8" diameter. (4) A few extremely abrasive and sluggish materials such as dried whey, some pellets and extruded feeds. (5) Some severe soybean and rice applications.

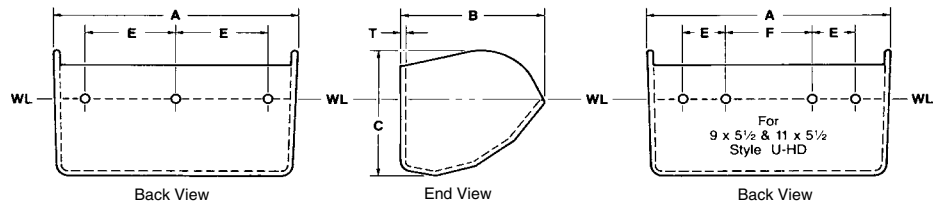
**CAUTION:** Welding and cutting on elevator legs without taking proper precautions is extremely dangerous and can cause a violent explosion. Polyethylene buckets can be ignited and will burn from improper welding and cutting. Combustion can produce intense heat, dense smoke and toxic gases.

**IMPORTANT:** When elevating certain materials that harden or set up with moisture, a Tapco steel digger bucket should replace every 10th polyethylene bucket. See page 24 for specifications

IN STOCK FOR IMMEDIATE SHIPPING

AVAILABLE THROUGH INDUSTRIAL DISTRIBUTORS, CONTRACTORS, AND ORIGINAL EQUIPMENT MANUFACTURERS

# HIGH DENSITY POLYETHYLENE ELEVATOR BUCKETS



## STYLE CC-HD BUCKETS

SIZE (Nominal)	SIZE (Nominal)	Dimension-Actual (Inches)				Drilling-Standard (Inches)			Capacity ①				Spacing on Belt (Min.) Inches	Weight (Pounds)		Number Per Carton
		Length A	Proj. B	Depth C	Thickness T	Center to Center E	Number of Holes F	Bolt Diameter	Tolerance ± 3%		Each (Average)	Per Carton (Average)				
Metric	Inches	Tolerance A, B, C ± 3/16" T ± 1/64"				Holes Drilled 1/32" Oversize			WL	WL + 10%						
80-60	3 X 2	3-1/4	2-1/2	2-1/16	11/64	1-3/4	2	1/4	6.0	.0035	6.6	.0038	3	0.13	3.6	24
120-80	4 X 3	4-1/4	3-1/2	3-1/16	3/16	2-1/2	2	1/4	16.8	.0097	18.5	.0107	4	0.26	7.1	24
140-120	5 X 4	5-1/4	4-1/2	4-1/16	13/64	3-3/16	2	1/4	35.8	.0207	39.4	.0228	5	0.46	12.6	24
160-120	6 X 4	6-1/4	4-1/2	4-1/16	13/64	4-3/8	2	1/4	43.3	.0251	47.6	.0276	5	0.53	13.8	24
180-120	7 X 4	7-1/4	4-1/2	4-1/16	13/64	2-11/16	3	1/4	49.7	.0288	54.7	.0316	5	0.60	15.9	24
160-140	6 X 5	6-5/16	5-1/2	5-1/16	1/4	4-3/8	2	1/4	68.3	.0395	75.1	.0435	6	0.80	20.8	24
180-140	7 X 5	7-5/16	5-1/2	5-1/16	1/4	2-11/16	3	1/4	75.8	.0439	83.4	.0483	6	0.98	25.2	24
200-140	8 X 5	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	28.3	24
230-140	9 X 5	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	26.4	24
260-140	10 X 5	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	32.1	24
280-140	11 X 5	11-5/16	5-1/2	5-1/16	1/4	3	4	1/4	127.2	.0736	139.9	.0766	6	1.27	32.7	24
300-140	12 X 5	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	34.8	24
200-160	8 X 6	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	35.0	24
230-160	9 X 6	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	37.6	24
260-160	10 X 6	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	40.5	24
280-160	11 X 6	11-5/16	6-5/8	6-1/16	1/4	3	4	1/4	173.4	.1003	190.7	.1104	7	1.69	43.5	24
300-160	12 X 6	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	45.2	24
330-160	13 X 6	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	24.6	12
350-160	14 X 6	14	6-5/8	5-7/8	1/4	3	5	1/4	198.3	.1148	218.1	.1262	7	1.98	26.2	12
260-180	10 X 7	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	18.5	8
280-180	11 X 7	11-7/16	7-3/4	7-1/16	9/32	3	4	5/16	234.2	.1355	257.6	.1491	8	2.31	21.1	8
300-180	12 X 7	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	22.0	8
330-180	13 X 7	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	23.7	8
350-180	14 X 7	14-7/16	7-3/4	7-1/16	9/32	3	5	5/16	301.9	.1747	332.1	.1922	8	2.76	25.0	8
370-180	15 X 7	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	26.9	8
400-180	16 X 7	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	27.9	8
450-180	18 X 7	18-7/16	7-3/4	7-1/16	11/32	3-1/8	6	5/16	396.7	.2296	436.4	.2525	8	4.00	35.9	8
500-180	20 X 7	20-7/16	7-3/4	7-1/16	13/32	3-1/2	6	5/16	433.3	.2508	476.6	.2758	8	4.50	41.9	8

## STYLE CC-HD "SUPER CAPACITY" BUCKETS

260-215	10 X 8	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	26.6	8
280-215	11 X 8	11-7/16	8-3/4	8-13/16	11/32	3	4	5/16	325.9	.1886	358.5	.2075	9	2.99	26.9	8
300-215	12 X 8	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	27.4	8
330-215	13 X 8	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	28.8	8
350-215	14 X 8	14-7/16	8-3/4	8-13/16	11/32	3	5	5/16	429.6	.2486	472.6	.2735	9	3.31	30.0	8
370-215	15 X 8	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	33.2	8
400-215	16 X 8	16-7/16	8-3/4	8-13/16	3/8	2-7/8	6	5/16	511.1	.2958	562.2	.3254	9	4.27	37.7	8
450-215	18 X 8	18-7/16	8-3/4	8-13/16	25/64	3-1/8	6	5/16	564.4	.3266	620.8	.3593	9	4.89	43.2	8
500-215	20 X 8	20-7/16	8-7/8	8-15/16	13/32	3-1/2	6	5/16	644.2	.3728	708.6	.4101	9	5.77	52.2	8
400-250	16 X 9	16-7/16	10	10-1/8	7/16	2-7/8	6	5/16	614.8	.3558	676.3	.3914	10	6.06	39.4	6
500-250	20 X 9	20-7/16	10	10-1/8	15/32	3-1/2	6	5/16	770.5	.4459	847.6	.4905	10	7.75	49.9	6

## STYLE U-HD BUCKETS fit Universal Industries Elevators

120-80	4 X 3	3-7/8	3	3-1/16	3/16	1-7/8	2	1/4	11.3	.0065	12.4	.0072	3-1/4	0.19	5.6	24
160-120	6 X 4	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	0.51	13.4	24
180-120	7 X 4-1/2	7-1/4	4-3/8	4-1/16	13/64	2-1/2	3	1/4	44.2	.0256	48.6	.0281	5	0.58	15.1	24
230-150	9 X 5-1/2	9-5/16	5-1/2	5-1/16	1/4	1-3/4	4	1/4	97.9	.0567	107.7	.0623	6	1.02	26.4	24
280-150	11 X 5-1/2	11-5/16	6-5/8	6-1/16	1/4	1-3/4	5	1/4	173.4	.1003	190.7	.1104	6	1.69	43.5	24
450-150	18 X 5-1/2	18-7/16	6	5-1/2	11/32	1-3/4	7	1/4	141.3	.0818	155.4	.0899	6	2.55	44.9	16
500-150	20 X 5-1/2	20-7/16	6	5-1/2	13/32	1-3/4	7	1/4	157.0	.0909	172.7	.0999	6	2.83	49.5	16
280-180	11 X 7	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	21.1	8

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

- ① Tapco recommends using WL (water level) fill + 10% for usable capacity. A gross capacity figure is no longer provided as it is inappropriate for rating an agricultural elevator bucket.
- ② 14 X 6 bucket was designed to fit Hunter Mfg. Grizzly elevators.
- ③ Universal refers to this bucket as 3-3/4 X 3 in fabricated steel, the buckets are completely interchangeable.