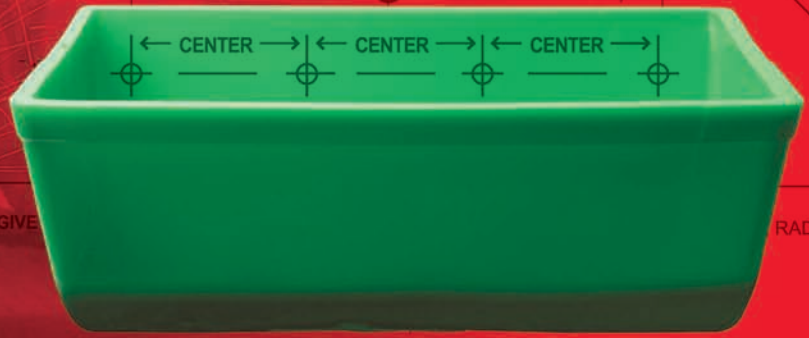
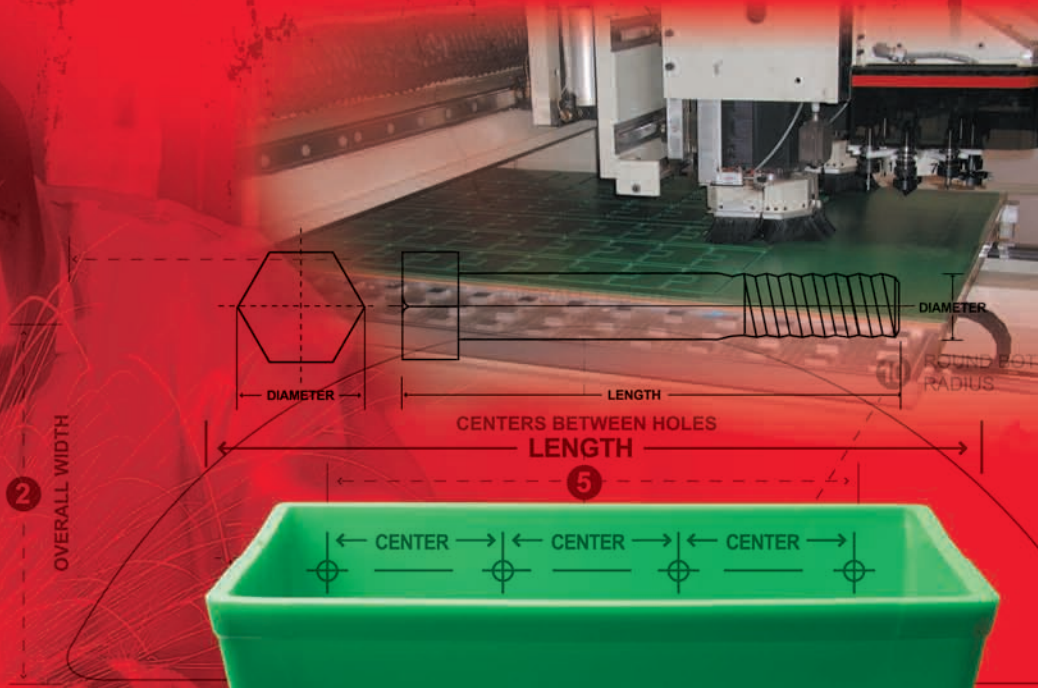


ENGINEERING

BUCKET ENGINEERING



Maxi-Lift Inc.



How to Measure an Elevator Bucket

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

LENGTH=12 5/8"



The bucket length is measured at the back mounting surface. Lay the bucket on its back for actual measurement dimensions.

PROJECTION=8 3/4"



Projection is measured vertically to the lip, as it would project from the belt or chain.

DEPTH=8 1/4"



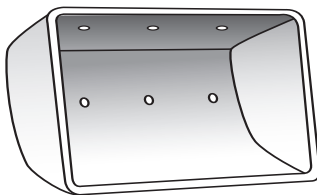
Depth is measured for the overall side profile dimension.

Venting Options for Agricultural and Industrial Elevator Buckets

Lightweight, fluffy materials, 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. As these materials enter the bucket, air is released through a series of vent holes in the bottom of the bucket allowing for a more complete fill. These vent holes also allow air to re-enter the bucket, which facilitates full release of product into the discharge.

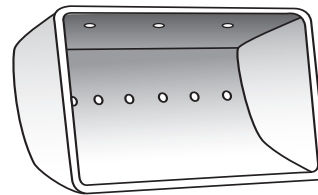
Generally hole diameter is equal to bolt holes drilled for attachment. In certain cases, larger diameter holes may be necessary.

When elevating powdery materials such as cement in the Tiger-Tuff, a minimum of two rows of 3/8" diameter vent holes are recommended to help insure that the material will discharge cleanly.



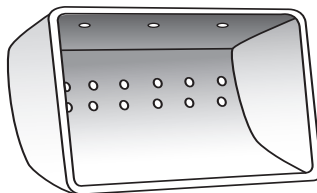
#1 Vent

Same holes in body as bolt mounting holes.



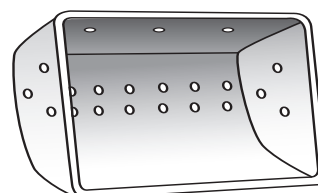
#2 Vent

Twice as many holes in body as bolt mounting holes.



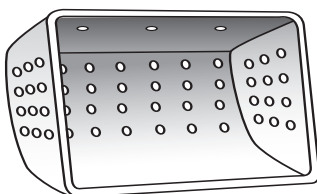
#3 Vent

Two rows, or four times as many holes as bolt mounting.



#4 Vent

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



Custom Vent

Vented as required

*** Call for Industrial Bucket venting recommendations.**

CAPACITY CALCULATING

Calculating 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 the belt	SPEED of the belt or chain FPM (Feet Per Minute)	CUBIC IN. PER HOUR SEE BELOW FOR CONVERSION
_____	X _____	X _____	X _____	X 60 = _____ MINUTES

For engineering purposes, Maxi-Lift recommends using water level capacity as the basis for calculation. Actual bucket fill will vary depending on the product and operational conditions.

- STEP 1:** Multiply the CAPACITY of the bucket times the NUMBER OF BUCKETS per foot (12 divided by spacing) times the NUMBER OF ROWS of buckets. This will give the capacity in cubic inches of each running foot of the belt or chain.
- STEP 2:** Multiply the answer times the SPEED of the belt or chain in FPM for the capacity discharged per minute.

For FEET Per Minute

$$\frac{3.1416}{\text{head pulley diameter (in.)}} \times \frac{\text{RPM}}{12} = \frac{\text{feet / min.}}{\text{feet / min.}}$$

STEP 3: Then multiply by 60 minutes to get cubic inches per hour.

CONVERT CUBIC INCHES PER HOUR AS FOLLOWS:

- BUSHELs: Divide by 2,150 to convert to bushels.
- CUBIC FEET: Divide by 1,728 to convert to cubic feet.
- SHORT TONS: Multiply cubic feet capacity times weight of product per cubic foot and divide by 2,000.
- METRIC TONS: Multiply cubic feet capacity times weight of product per cubic foot and divide by 2,204.62.

For BUSHELs Per Hour

$$\frac{\text{cu.in. / hour}}{2,150} = \text{BPH}$$

For CUBIC FEET Per Hour

$$\frac{\text{cu.in. / hour}}{1,728} = \text{cu. ft. / hour}$$

For SHORT TONS Per Hour First determine cubic ft/hr. at water level using above formula then proceed as follows

$$\frac{\text{cu.ft. / hr.} \times \text{weight of product / cu. ft.}}{2,000} = \text{tons / hr.}$$

For METRIC TONS Per Hour First determine cubic ft/hr. at water level using above formula then proceed as follows

$$\frac{\text{cu.ft. / hr.} \times \text{weight of product / cu. ft.}}{2,204.62} = \text{metric tons / hr.}$$

CALCULATING HORSEPOWER

$$\text{HP (at head Shaft)} = \frac{W \times H}{33,000} \quad W = \frac{\text{lbs. / hour}}{60 \text{ minutes}} \quad H = \text{Vertical Lift In Feet}$$

The above formula will result in the theoretical horsepower necessary. It is recommended that an additional 25% minimum be added for drive losses and up to 15% for elevator friction and cup digging through the boot.





TIGER-TUFF® SPEED AND CAPACITY CHART

ENGINEERING: TIGER-TUFF® SPEED & CAPACITY

Tiger-Tuff® and Tiger-Tuff® Hy-Pro Elevator Buckets



					SIZE:			
					12 X 7	14 X 7	16 X 7	
					WATER LEVEL-CUBIC INCH:			
					283.20	331.49	379.90	
BUCKET STYLE	PULLEY	SPACING	REVOLUTIONS PER MINUTE	FEET PER MINUTE	BUSHEL PER HOUR	BUSHEL PER HOUR	BUSHEL PER HOUR	
TIGER-TUFF	30	9	MIN	34	267	2,814	3,294	3,775
	30	9	OPT	73	573	6,042	7,072	8,105
TT HY-PRO	30	6	MIN	34	267	4,221	4,941	5,662
	30	6	OPT	73	573	9,063	10,608	12,157
TIGER-TUFF	36	9	MIN	33	311	3,277	3,836	4,396
	36	9	OPT	65	613	6,456	7,556	8,660
TT HY-PRO	36	6	MIN	33	311	4,916	5,755	6,595
	36	6	OPT	65	613	9,683	11,335	12,990
TIGER-TUFF	42	9	MIN	31	341	3,592	4,205	4,818
	42	9	OPT	59	649	6,836	8,002	9,170
TT HY-PRO	42	6	MIN	31	341	5,388	6,307	7,228
	42	6	OPT	59	649	10,254	12,003	13,756
TIGER-TUFF	48	9	MIN	30	377	3,973	4,650	5,329
	48	9	OPT	55	691	7,283	8,525	9,770
TT HY-PRO	48	6	MIN	30	377	9,959	6,975	7,994
	48	6	OPT	55	691	10,925	12,788	14,655

					SIZE:								
					12 X 8	13 X 8	14 X 8	16 X 8	18 X 8	20 X 8	22 X 8	24 X 8	
					WATER LEVEL-CUBIC INCH:								
					373.0	404.9	436.8	512.6	567.5	646.8	701.9	763.4	
BUCKET STYLE	PULLEY	SPACING	REVOLUTIONS PER MINUTE	FEET PER MINUTE	BUSHEL PER HOUR	BUSHEL PER HOUR	BUSHEL PER HOUR	BUSHEL PER HOUR	BUSHEL PER HOUR	BUSHEL PER HOUR	BUSHEL PER HOUR	BUSHEL PER HOUR	
TIGER-TUFF	36	10	MIN	32	302	3,767	4,089	4,412	5,177	5,732	6,533	7,089	7,710
	36	10	OPT	58	547	6,828	7,412	7,996	9,384	10,389	11,840	12,849	13,975
TT HY-PRO	36	7	MIN	32	302	5,382	5,842	6,302	7,396	8,188	9,332	10,127	11,014
	36	7	OPT	58	547	9,754	10,589	11,423	13,405	14,841	16,915	18,356	19,964
TIGER-TUFF	42	10	MIN	30	330	4,120	4,473	4,825	5,663	6,269	7,145	7,754	8,433
	42	10	OPT	57	627	7,829	8,498	9,168	10,759	11,911	13,576	14,732	16,023
TT HY-PRO	42	7	MIN	30	330	5,886	6,390	6,893	8,089	8,956	10,207	11,076	12,047
	42	7	OPT	57	627	11,184	12,141	13,097	15,370	17,016	19,394	21,046	22,890
TIGER-TUFF	48	10	MIN	30	377	4,709	5,112	5,515	6,471	7,165	8,166	8,861	9,638
	48	10	OPT	56	704	8,790	9,542	10,294	12,080	13,374	15,243	16,541	17,990
TT HY-PRO	48	7	MIN	30	377	6,727	7,303	7,878	9,245	10,235	11,665	12,659	13,768
	48	7	OPT	56	704	12,558	13,631	14,705	17,257	19,106	21,775	23,630	25,700
TIGER-TUFF	60	10	MIN	27	424	5,298	5,751	6,204	7,280	8,060	9,186	9,969	10,842
	60	10	OPT	47	738	9,222	10,011	10,799	12,673	14,031	15,991	17,353	18,874
TT HY-PRO	60	7	MIN	27	424	7,568	8,215	8,863	10,401	11,515	13,124	14,241	15,489
	60	7	OPT	47	738	13,174	14,301	15,428	18,105	20,044	22,845	24,791	26,963

					SIZE:			
					16 X 10	18 X 10	20 X 10	
					WATER LEVEL-CUBIC INCH:			
					795.7	910.0	1032.5	
BUCKET STYLE	PULLEY	SPACING	REVOLUTIONS PER MINUTE	FEET PER MINUTE	BUSHEL PER HOUR	BUSHEL PER HOUR	BUSHEL PER HOUR	
TIGER-TUFF	48	12	MIN	30	377	8,371	9,574	10,863
	48	12	OPT	52	653	14,510	16,595	18,829
TT HY-PRO	48	9	MIN	30	377	11,162	12,765	14,484
	48	9	OPT	52	653	19,347	22,126	25,105
TIGER-TUFF	60	12	MIN	25	393	8,720	9,973	11,315
	60	12	OPT	45	707	15,696	17,951	20,367
TT HY-PRO	60	9	MIN	25	393	11,627	13,297	15,807
	60	9	OPT	45	707	20,928	23,935	27,157
TIGER-TUFF	72	12	MIN	20	377	8,371	9,574	10,863
	72	12	OPT	42	792	17,580	20,105	22,182
TT HY-PRO	72	9	MIN	20	377	11,162	12,765	14,484
	72	9	OPT	42	792	23,440	26,807	30,415
TIGER-TUFF	84	12	MIN	20	440	9,767	11,169	12,673
	84	12	OPT	40	880	19,533	22,339	25,346
TT HY-PRO	84	9	MIN	20	440	13,022	14,893	16,897
	84	9	OPT	40	880	26,044	29,785	33,795

Capacities rated at water level fill.

MAXI-LIFT HIGH SPEED ELEVATOR BUCKETS

SPEED CHARTS

Recommended Minimum and Optimum Pulley Speeds for the following Maxi-Lift Agricultural Elevator Buckets (Centrifugal discharge)



Tiger-Tuff



Tiger-Tuff Hy-Pro



HD-MAX Heavy Duty



HD-MAX Heavy Duty Hy-Pro

ELEVATOR BUCKET NOMINAL PROJ. (INCHES)	PULLEY		MINIMUM AND OPTIMUM PULLEY SPEEDS																						
	CIRCUMFERENCE (FEET)	DIAMETER (INCHES)	1.05	1.31	1.57	2.07	2.62	3.14	3.67	4.19	5.24	6.28	7.85	9.42	11	12.57	15.7	18.9	22						
			4"	5"	6"	8"	10"	12"	14"	16"	20"	24"	30"	36"	42"	48"	60"	72"	84"						
3"	Minimum		89	80	81	74	69	64																	
	Optimum		158	143	131	115	103	95																	
4"	Minimum		75		70	53	51	50	46	43	40														
	Optimum		146		127	109	103	96	89	79	72														
5"	Minimum		70			67	63	50	48	45	40	40	35	32	32										
	Optimum		161			131	111	102	95	90	75	67	61	55	51										
6"	Minimum		50						45	40	36	35	31	30											
	Optimum		93						84	73	67	61	55	51											
7"	Minimum		40								36	34	33	31	30	27	26	20							
	Optimum		80								78	73	65	59	55	50	45	40							
8"	Minimum		33										32	30	30	27	25	23							
	Optimum		60										58	57	56	47	43	40							
10"	Minimum		30														25	20	20						
	Optimum		52														45	42	40						

MINIMUM SPEED: Slowest Speed at which Centrifugal Discharge will occur.

OPTIMUM SPEED: Speed at which most desirable results are obtained.

MAXIMUM SPEED: Maximum Speed is governed by many factors including Bonnet Shape, clearances, throat location, desired capacity and commodity elevated, therefore is not published.

This table is for general reference only and does not guarantee perfect discharge for all bucket elevators at all speeds shown within speed range.

The optimum speeds shown are based on free flowing whole grains. The optimum recommended speed for feed ingredients and other similar materials is 85% of the optimum speed shown.

***NOTE: HY-PRO BUCKETS MAY REQUIRE FASTER MINIMUM SPEEDS THAN SHOWN ON THIS CHART AT MINIMUM SPACING.**

CC-MAX® Table of Speeds



CC-MAX Heavy Duty



CC-MAX Heavy Duty Low Profile



CC Steel

Pulley / Sprocket Diameter (Inches)	Pulley / Sprocket Circumference (Feet)	R.P.M. Minimum	R.P.M. Maximum	F.P.M. Minimum	F.P.M. Maximum
8"	2.09	85	170	178	356
10"	2.62	85	170	223	445
12"	3.14	75	145	236	456
14"	3.67	65	120	238	440
16"	4.19	55	100	230	419
18"	4.71	55	90	259	424
20"	5.24	55	85	288	445
22"	5.76	55	85	288	445
24"	6.28	42	80	264	503
30"	7.85	42	80	330	628
36"	9.42	42	80	396	754
42"	11.00	40	70	440	770
48"	12.57	40	65	503	817
54"	14.14	40	65	566	919
60"	15.71	40	60	628	942
72"	18.85	40	55	754	1037
84"	22.00	34	50	748	1100
96"	25.13	30	45	754	1131

This table is for general reference only and does not guarantee perfect discharge for all bucket elevators at all speeds shown within speed range.

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DURA-BUKET® SS STANDARD & LP LOW PROFILE SPEED CHART / HEAD SHAFT RATING

DURA-BUKET® SS/LP SPEED CHART / HEAD SHAFT RATING

Dura-Buket® Agricultural Elevator Bucket Speed Chart



Dura-Buket SS



Dura-Buket LP

Recommended Minimum and Optimum Pulley Speeds for Dura-Buket Agricultural Elevator Buckets (Centrifugal Discharge)

ELEVATOR BUCKET NOMINAL PROJ. (INCHES)	PULLEY CIRCUMFERENCE (FEET)	MINIMUM AND OPTIMUM PULLEY SPEEDS																	
		2.62	3.14	4.19	4.71	5.24	5.76	6.28	7.85	9.42	11	12.57	14.14	15.7	18.9	22	25.13		
		10"	12"	16"	18"	20"	22"	24"	30"	36"	42"	48"	54"	60"	72"	84"	96"		
3"	Minimum	85	75	55	55	55	55												
	Optimum	144	121	90	81	76	72												
4"	Minimum	75		55	55	55	50												
	Optimum	121	90	81	76	72	72												
5"	Minimum	55			55	55	50	42	42	40									
	Optimum	81			76	72	72	72	72	63									
6"	Minimum						50	42	42	40	40	40	40						
	Optimum						72	72	72	63	58	58	54						
7"	Minimum							42	42	40	40	40	40	40	34	34			
	Optimum							72	72	63	58	58	54	49	45	40			
8"	Minimum									40	40	40	40	34	34				
	Optimum									58	58	54	49	45	40				

MINIMUM SPEED: Slowest Speed at which Centrifugal Discharge will occur.
OPTIMUM SPEED: Speed at which most desirable results are obtained.
MAXIMUM SPEED: Maximum Speed is governed by many factors including Bonnet Shape, clearances, throat location and desired capacity.

This table is for general reference only and does not guarantee perfect discharge for all bucket elevators at all speeds shown within speed range. Note: Low-Profile Elevator Buckets spaced on minimum centers may require faster minimum speeds than shown on this chart.

The optimum speeds shown are based on free flowing whole grains. The maximum recommended speed for feed ingredients and other similar materials is 85% of the optimum speed shown.

Horsepower	Shaft Diameter (Inches)
1 - 2	1-7/16
3	1-15/16
5	2-3/16
7 1/2 - 10	2-7/16
15	2-15/16
20	3-3/16
25 - 30	3-7/16
40	3-15/16
50 - 60	4-7/16
75 - 100	4-15/16
125	5-7/16
150	5-15/16
200	7
250	7

Head Shaft Diameter per Horsepower Rating

This table is provided for general reference only. Maxi-Lift assumes no liability from use of these figures.

MAXI-TUFF® AA/TIGER-TUFF® INDUSTRIAL SPEED CHART FOR INDUSTRIAL MATERIALS

Maxi-Tuff® Industrial AA Elevator / Tiger-Tuff® Industrial Bucket Speed Chart



Maxi-Tuff AA
(Nylon)



Maxi-Tuff AA
(Urethane)



Maxi-Tuff AA
(Polyethylene)



Tiger-Tuff Industrial
(Nylon)



Tiger-Tuff Industrial
(Urethane)

Recommended Minimum and Optimum Pulley Speeds for Maxi-Tuff / Tiger-Tuff industrial Elevator Buckets (Centrifugal Discharge)

ELEVATOR BUCKET NOMINAL PROJ. (INCHES)	PULLEY	MINIMUM, OPTIMUM AND MAXIMUM PULLEY SPEEDS													
		CIRCUMFERENCE (FEET)	1.57	2.07	2.62	3.14	4.19	4.71	5.24	6.28	7.85	9.42	11	12.57	
		DIAMETER (INCHES)	6"	8"	10"	12"	16"	18"	20"	24"	30"	36"	42"	48"	
3"	Minimum	80	73	67	62										
	Optimum	85	77	71	66										
	Maximum	90	81	75	70										
4"	Minimum			65	60	54									
	Optimum			68	64	57									
	Maximum			72	67	60									
5"	Minimum				59	53	51	48							
	Optimum				62	55	53	51							
	Maximum				65	59	57	54							
6"	Minimum					52	49	47	44						
	Optimum					54	52	50	46						
	Maximum					57	55	53	49						
7"	Minimum						50	48	46	43	40				
	Optimum						53	51	49	46	42				
	Maximum						56	54	52	48	44				
8"	Minimum							46	43	39	36	34			
	Optimum							48	45	41	38	36			
	Maximum							51	48	44	41	38			
10"	Minimum								41	38	36	33	32		
	Optimum								45	40	37	35	33		
	Maximum								46	43	40	37	35		

Maxi-Tuff Industrial MF Elevator Bucket Speed Chart

BUCKET PROJECTION	BUCKET SIZES	MINIMUM SPACING (Inches)	MINIMUM DIAMETER (Inches)	MAXIMUM FPM
5"	8 X 5 X 7	7-1/2	10	250
	10 X 5 X 7			
7"	12 X 7 X 11	11-1/4	18	250
	14 X 7 X 11			
	18 X 7 X 11			
8"	12 X 8 X 11	11-1/4	18	250
	14 X 8 X 11			
	18 X 8 X 11			

This table is for general reference only and does not guarantee perfect discharge for all bucket elevators at all speeds shown within speed range.



Maxi-Tuff MF

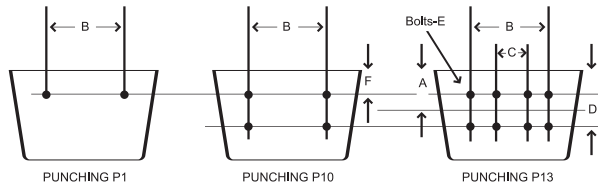
Recommended Minimum Spacing, Pulley Diameter and Speeds for Maxi-Tuff MF Elevator Buckets (Continuous Discharge)

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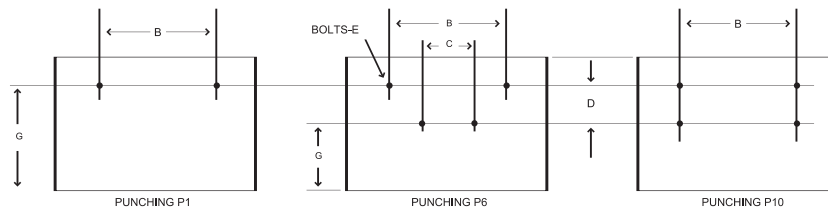
ENGINEERING: MAXI-TUFF® AA / TIGER-TUFF® INDUSTRIAL SPEED CHARTS





CENTRIFUGAL DISCHARGE ELEVATOR BUCKETS ON "K" ATTACHMENTS													
CHAIN ATTACHMENT NUMBER	NOMINAL BUCKET SIZE, INCHES						PUNCHING	INCHES					
	TYPES AA, AA-RB		TYPE AC		TYPE SC			A	B	C	D	E	F
	Min.	Max.	Min.	Max.	Min.	Max.							
77-K1	6 X 4	10 X 6	-	-	8 X 6	10 X 8	P1	-	3	-	-	1/4	1
77-K2	6 X 4	10 X 6	-	-	8 X 6	10 X 8	P10	-	3	-	13/16	1/4	1
C 77-K1	6 X 4	10 X 6	-	-	8 X 6	10 X 8	P1	-	3	-	-	3/8	1
78-K1	6 X 4	10 X 6	-	-	8 X 6	10 X 8	P1	-	3-3/8	-	-	1/4	1
H 78-K1	6 X 4	12 X 6	-	-	8 X 6	12 X 8	P1	-	4	-	-	3/8	1
H 78-K2	6 X 4	12 X 6	-	-	8 X 6	12 X 8	P10	-	4	-	1-1/8	3/8	1
C 102B-K2	8 X 5	16 X 7	-	-	8 X 6	16 X 8	P10	-	5-5/16	-	1-3/4	3/8	1
SS 102B-K2	7 X 4-1/2	16 X 7	-	-	8 X 6	16 X 8	P10	-	5-5/16	-	1-3/4	3/8	1
C 102-1/2-K2	8 X 5	16 X 7	-	-	8 X 6	16 X 8	P10	-	5-5/16	-	1-3/4	1/2	1
SS 102-1/2-K2	8 X 5	16 X 7	-	-	8 X 6	16 X 8	P10	-	5-5/16	-	1-3/4	1/2	1
C 110-K2	8 X 5	16 X 7	-	-	8 X 6	16 X 8	P10	-	5-5/16	-	1-3/4	3/8	1
SS 110-K2	8 X 5	16 X 7	-	-	8 X 6	16 X 8	P10	-	5-5/16	-	1-3/4	3/8	1
C111-K2	9 X 6	18 X 8	-	-	10 X 8	16 X 8	P10	-	6-1/4	-	2-5/16	1/2	1
SS 111-K2	10 X 6	18 X 8	-	-	10 X 8	16 X 8	P10	-	6-1/4	-	2-5/16	1/2	1
C 132-K2	12 X 6	20 X 8	-	-	12 X 8	16 X 8	P10	-	7-1/2	-	2-3/4	1/2	1
188-K1	6 X 4	12 X 6	-	-	8 X 6	12 X 8	P1	-	3-3/4	-	-	3/8	1
C 188-K2	6 X 4	14 X 7	-	-	8 X 6	14 X 8	P10	-	4-3/16	-	1-1/4	5/16	1
SS 188-K1	6 X 4	12 X 6	-	-	8 X 6	12 X 8	P1	-	3-3/4	-	-	3/8	1
SS 188-K2	8 X 5	14 X 7	-	-	8 X 6	14 X 8	P10	-	4-3/16	-	1-1/4	5/16	1
SS 856-K2	10 X 6	18 X 10	-	-	10 X 8	16 X 8	P10	-	6-5/16	-	2-1/4	1/2	1
SS 856-K24	-	-	18 X 10	24 X 10	-	-	P10	-	7-1/4	-	2-1/2	5/8	1
SS 2857-K44	-	-	18 X 10	24 X 10	-	-	P13	-	12	-	3-1/2	1/2	1

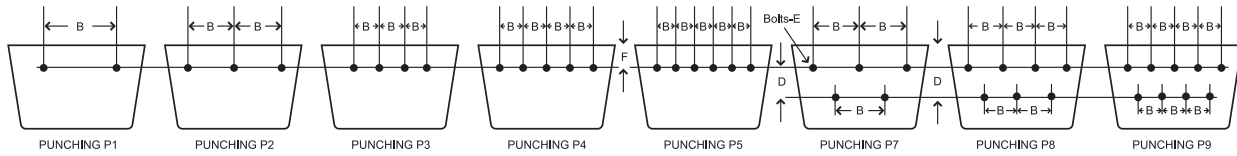
* Some chain punches may incur additional punching charges. Contact Maxi-Lift for details.



CONTINUOUS ELEVATOR BUCKETS ON "K" ATTACHMENTS														
CHAIN ATTACHMENT NUMBER	NOMINAL BUCKET SIZE, INCHES								PUNCHING	INCHES				
	TYPE HF		TYPE HFO		TYPE MF		TYPE LF			B	C	D	E	G
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.						
C 102B -K2	8 X 5	10 X 5	8 X 5	10 X 5	8 X 5	10 X 5	-	-	P10	5-5/16	-	1-3/4	3/8	1-7/8
SS 102B-K2	8 X 5	10 X 5	8 X 5	10 X 5	8 X 5	10 X 5	-	-	P10	5-5/16	-	1-3/4	3/8	1-7/8
C 102B-1/2-K2	8 X 5	10 X 5	8 X 5	10 X 5	8 X 5	10 X 5	-	-	P10	5-5/16	-	1-3/4	1/2	1-7/8
SS 102B-1/2-K2	8 X 5	10 X 5	8 X 5	10 X 5	8 X 5	10 X 5	-	-	P10	5-5/16	-	1-3/4	1/2	1-7/8
C 110-K2	10 X 7	16 X 8	10 X 7	16 X 8	10 X 7	18 X 8	10 X 7	16 X 8	P10	5-5/16	-	1-3/4	3/8	3-3/8
SS 110-K2	10 X 7	16 X 8	10 X 7	16 X 8	10 X 7	18 X 8	10 X 7	16 X 8	P10	5-5/16	-	1-3/4	3/8	3-3/8
C 111-K2	10 X 6	12 X 6	10 X 6	12 X 6	10 X 6	12 X 6	10 X 6	12 X 6	P10	6-1/4	-	2-5/16	1/2	2-3/32
SS 111-K2	10 X 6	12 X 6	10 X 6	12 X 6	10 X 6	12 X 6	10 X 6	12 X 6	P10	6-1/4	-	2-5/16	1/2	2-3/32
C 132-K2	10 X 7	16 X 8	10 X 7	16 X 8	12 X 7	20 X 8	12 X 7	20 X 8	P10	7-1/2	-	2-3/4	1/2	2-7/8
SS 150PLUS-K2	10 X 7	16 X 8	10 X 7	16 X 8	12 X 7	20 X 8	12 X 7	20 X 8	P10	7-1/2	-	2-3/4	1/2	2-7/8
SS 856-K2	10 X 7	16 X 8	10 X 7	16 X 8	12 X 7	20 X 8	12 X 7	20 X 8	P10	6-5/16	-	2-1/4	3/8	3-1/8

Other Chain Punches Available. Verify bucket punching before ordering.

BUCKET PUNCHING FOR BELTS



TYPES HF, HFO, MF AND LF CONTINUOUS ELEVATOR BUCKETS FOR BELTS								
BUCKET SIZE , INCHES			Punching	Belt Width Inches	INCHES			
L - Length	P - Projection	D - Depth			B	D	E	F
8	5	7-3/4	P7	9-10	3	1	1/4	3-3/8
8	5	8-1/2	P7	9-10	3	1	1/4	3-3/4
9	6	9-1/4	P7	10	3	1	1/4	4-1/8
10	5	7-3/4	P7	11-12	3-1/2	1	5/16	3-3/8
10	5	8-1/2	P7	11-12	3-1/2	1	5/16	3-3/4
10	6	9-1/4	P7	11-12	3-1/2	1	5/16	4-1/8
10	6	10	P7	11-12	3-1/2	1	5/16	4-1/2
10	7	11-5/8	P7	11-12	3-1/2	1	5/16	5-5/16
10	7	12-1/2	P7	11-12	3-1/2	1	5/16	5-3/4
10	8	11-5/8	P7	11-12	3-1/2	1	5/16	5-5/16
11	6	9-1/4	P7	12	4	1	5/16	4-1/8
12	5	7-3/4	P7	13-14	4-1/2	1	5/16	3-3/8
12	6	9-1/4	P7	13-14	4-1/2	1	5/16	4-1/8
12	6	10	P7	13-14	4-1/2	1	5/16	4-1/2
12	7	11-5/8	P7	13-14	4-1/2	1	5/16	5-5/16
12	7	11-3/4	P7	13-14	4-1/2	1	5/16	5-3/8
12	7	12-1/2	P7	13-14	4-1/2	1	5/16	5-3/4
12	8	11-5/8	P7	13-14	4-1/2	1	5/16	5-5/16
12	8	12-1/2	P7	13-14	4-1/2	1	5/16	5-3/4
14	7	11-5/8	P8	15-16	4	1	5/16	5-5/16
14	7	12-1/2	P8	15-16	4	1	5/16	5-3/4
14	8	11-5/8	P8	15-16	4	1	5/16	5-5/16
14	8	11-3/4	P8	15-16	4	1	5/16	5-3/8
14	8	12-1/2	P8	15-16	4	1	5/16	5-3/4
16	7	11-3/4	P8	18	4-1/2	1	5/16	5-3/8
16	8	11-5/8	P8	18	4-1/2	1	5/16	5-5/16
16	8	12-1/2	P8	18	4-1/2	1	5/16	5-3/4
16	12	17-5/8	P8	18	4-1/2	1	5/16	8-5/16
16	12	18-5/8	P8	18	4-1/2	1	5/16	8-13/16
18	8	11-5/8	P8	20	5	1	5/16	5-5/16
18	10	15	P8	20	5	1	5/16	7
20	8	11-5/8	P9	22	4	1	5/16	5-5/16
20	12	17-5/8	P9	22	4	1	5/16	8-5/16
20	12	18-5/8	P9	22	4	1	5/16	8-13/16
24	10	11-5/8	P9	26	5	1	5/16	5-5/16
24	12	17-5/8	P9	26	5	1	5/16	8-5/16
24	12	18-5/8	P9	26	5	1	5/16	8-13/16

All plastic Maxi-Tuff MF Buckets that have a depth of 11-1/2", 11-5/8" or 11-3/4" will be punched with a 5-5/16" down dimension (F).

TYPES AA AND TIGER-TUFF INDUSTRIAL CENTRIFUGAL DISCHARGE ELEVATOR BUCKETS FOR BELTS						
NOMINAL BUCKET LENGTH INCHES	Punching	Belt Width Inches	B	D	E	F
3	P1	4	1-3/8	-	1/4	1
4	P1	5	2-5/16	-	1/4	1
5	P1	6	3-3/16	-	1/4	1
6	P1	7-8	4-3/8	-	1/4	1
7	P2	8	2-1/2	-	1/4	1
8	P7	9-10	3	1	1/4	1
9	P7	10	3	1	1/4	1
10	P7	11-12	3-1/2	1	5/16	1
11	P7	12	4	1	5/16	1
12	P7	13-14	4-1/2	1	5/16	1
13	P8	14	3-1/2	1	5/16	1
14	P8	15-16	4	1	5/16	1
15	P8	16	4	1	5/16	1
16	P8	18	4-1/2	1	5/16	1
17	P8	18	4-1/2	1	5/16	1
18	P8	20	5	1	5/16	1
19	P9	20	4	1	5/16	1
20	P9	22	4	1	5/16	1
21	P9	22	4-1/2	1	5/16	1
22	P9	24	4-1/2	1	5/16	1
23	P9	24	5	1	5/16	1
24	P9	26	5	1	5/16	1

Other Chain Punches Available. Verify bucket punching before ordering.





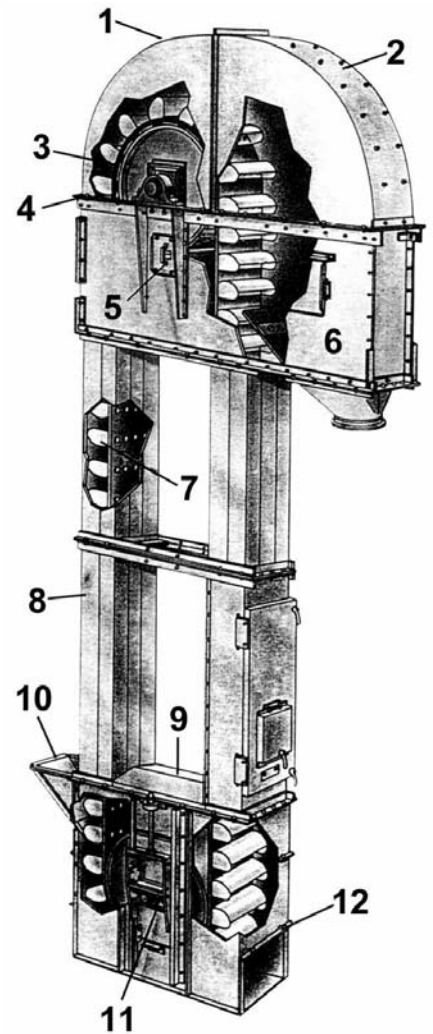
BUCKET ELEVATOR QUESTIONNAIRE

Fill in and Fax to: (972)735-8896

CLIENT INFORMATION

Company: _____ Contact: _____
 Address: _____
 Phone: _____ Fax: _____
 Ref: _____ Location: _____
 Email: _____

1. Current Bucket Size: _____
2. Current Bucket Style: _____
3. Bucket Manufacturer: _____
4. Bucket Spacing on Belt: _____
5. Number of Bucket Rows: _____
6. Product Being Elevated: _____
7. Product Density: _____
8. Moisture: _____
9. Oil or Fat Content: _____
10. Particle Size: _____
11. Product Temperature: _____
12. Head Pulley Diameter: _____
13. Head Pulley Width: _____
14. Head Shaft Diameter: _____
15. Head Shaft RPM: _____
16. Motor Horsepower: _____
17. Boot Pulley Diameter: _____
18. Feed Inlet, Up or Down Leg: _____
19. Feed Inlet, Opening Width: _____
20. Bucket Elevator Manufacturer: _____
21. Required Capacity: _____
22. Current Capacity: _____



- | | |
|---|-------------------------------------|
| 1. Up-Leg Bonnet | 7. Elevator Belt and Buckets |
| 2. Down-Leg Discharge Bonnet w/ Internal Wear Liner | 8. Elevator Leg Casing and Trunking |
| 3. Head Shaft and Bearing | 9. Boot Section |
| 4. Head Section | 10. Up-Leg Inlet Hopper |
| 5. Pulley Lagging Inspection Door | 11. Boot Shaft and Take-Up Bearing |
| 6. Discharge Throat and Throat Wiper | 12. Boot Clean-Out Slide |

BUCKET ELEVATOR QUESTIONNAIRE

Fill in and Fax to: (972)735-8896

ENGINEERING: BUCKET ELEVATOR QUESTIONNAIRE

A. Height of Elevator: _____

B. Depth of Leg Casing: _____

C. Spacing Between Leg Casing: _____

D. Height of Leg Casing: _____

E. Overall Width of Elevator: _____

F. Height from Head Shaft to Bonnet: _____

G. Depth of Bonnet: _____

H. Width from Head Shaft to Leg Casing: _____

I. Diameter of Discharge Spout: _____

J. Distance from Head Shaft Centerline Down to Top of Discharge Throat: _____

K. Distance from Head Shaft Centerline Down to Discharge Spout: _____

L. Height of Up Leg Inlet Hopper: _____

M. Height from Bottom of Elevator to Bottom of Up Leg Inlet Hopper: _____

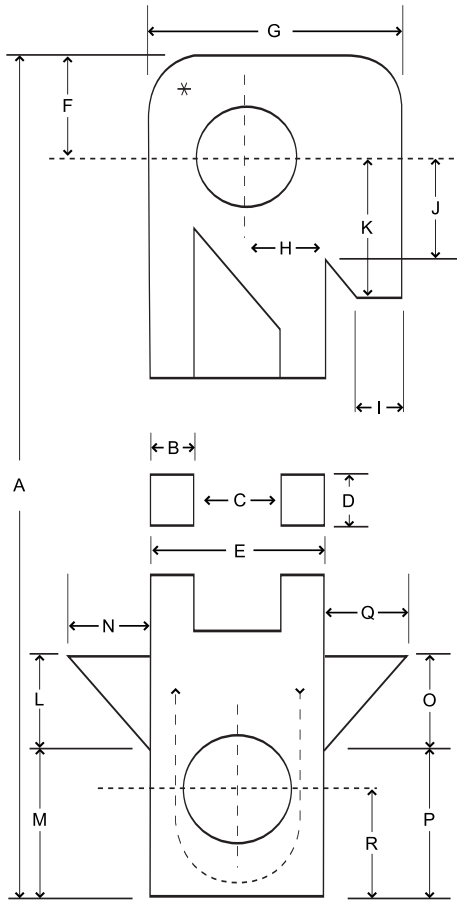
N. Depth of Up Leg Inlet Hopper: _____

O. Height of Down Leg Inlet Hopper: _____

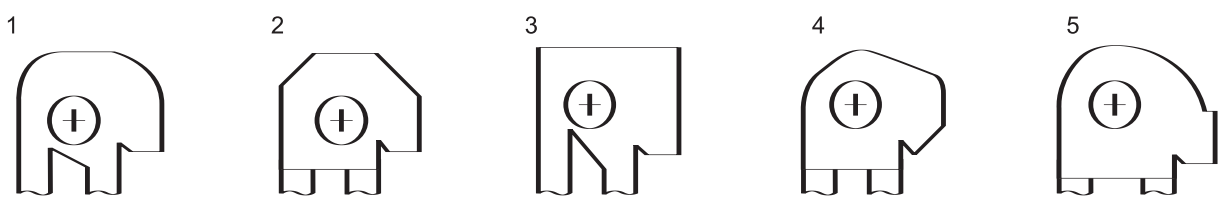
P. Height from Bottom of Elevator to Bottom of Down Leg Inlet Hopper: _____

Q. Depth of Down Leg Inlet Hopper: _____

R. Height from Bottom of Elevator to Boot Shaft: _____



CIRCLE HEAD SHAPE:





BULK MATERIAL HANDLING CHARTS

MATERIAL DESCRIPTION	LOOSE BULK DENSITY # / CU.FT.
Alfalfa Meal	14-22
Alfalfa Pellets	41-43
Alfalfa Seed	10-15
Almonds, Broken	28-30
Almonds, Whole Shelled	28-30
Alum, Fine	45-50
Alum, Lumpy	50-60
Alumina Fines	35
Alumina	50-65
Alumina Sized or Briquette	65
Aluminum Chips, Oily	7-15
Aluminum Chips, Dry	7-15
Aluminum Hydrate	13-20
Aluminum Oxide	60-120
Aluminum Silicate (Andalusite)	49
Aluminum Sulfate	45-58
Aluminum Chloride, Crystalline	45-52
Aluminum Nitrate	45-62
Aluminum Sulfate	45-58
Ammonium Chloride	45-52
Ammonium Nitrate	45
Ammonium Sulfate, Granular	45-58
Ash, Black Ground	105
Ashes, Coal, Dry-1/2"	34-35
Ashes, Coal, Dry-3" & under	35-40
Ashes, Coal, Wet-1/2"	45-50
Ashes, Coal, Wet-3" & under	45-50
Asphalt Binder	80-85
Asphalt, Crushed-1/2"	45
Bakelite, Fine	30-45
Baking Powder	40-55
Baking Soda (Sodium Bicarbonate)	40-55
Barite (Barium Sulfate)+1/2"	120-180
Barite, Powder	120-180
Barium, Carbonate	72
Bark, Wood, Refuse	10-20
Barley, Fine, Ground	24-38
Barley, Malted	31
Barley, Meal	28
Barley, Scoured	41
Barley, Whole	36-48
Basalt	80-105
Bauxite, Dry, Ground	68
Bauxite, Crush-3	75-85
Bauxite, Mine Run	66-90
Beets, Whole	48
Bentonite, Crude	35-40
Benzene Hexachloride	56
Blood, Dried	35-45
Blood, Ground	30
Bones, Whole	35-50
Bones, Crushed	35-50
Bones, Ground	50
Bonemeal	50-60
Bone Ash (Tricalcium Phosphate)	40-50

MATERIAL DESCRIPTION	LOOSE BULK DENSITY # / CU.FT.
Borax 2"-3" Lump	60-70
Borax 1 1/2"-2" Lump	55-60
Borax Screening - 1/2"	55-60
Borax, Fine	45-55
Boric Acid, Fine	55
Boron	75
Bran, Rice-Rye Wheat	16-20
Brewer's Grain, Spent, Dry	14-30
Brewer's Grain, Spent, Wet	55-60
Brick, Hard Burned	125
Brick, Soft Burned	100
Brick, Ground 1/8"	100-120
Bronze Chips	30-50
Buckwheat	37-42
Calcine, Flour	75-85
Calcium Acetate	125
Calcium Carbide (Crushed)	70-80
Calcium Lactate	26-29
Calcium Carbonate	90-100
Calcium Oxide (See Lime, Unslaked)	40-50
Carbon, Activated, Dry, Fine	8-20
Carbon, Black, Pelleted	20-25
Carbon, Black, Powder	4-7
Carborundum	100
Cashew Nuts	32-37
Cast Iron, Chips	130-200
Caustic Soda	88
Caustic Soda, Flakes	47
Cement, Clinker	75-95
Cement, Portland	94
Cement, Aerated (Portland)	60-75
Cement, Mortar	133
Chalk, Crushed	75-95
Chalk, Pulverized	67-75
Charcoal, Lumps	18-28
Charcoal, Ground	18-28
Chips Hogged Fuel	15-25
Chrome Ore	125-140
Cinders, Blast Furnace	57
Cinders, Coal	40
Clay, Calcined	80-100
Clay, Brick, Dry, Fines	100-120
Clay, Ceramic, Dry, Fines	60-80
Clay, Dry, Lumpy	60-75
Coal, Anthracite, Sized - 1/2"	55-60
Coal, Bituminous, Mined 50M & under	50-54
Coal, Bituminous, Mined	40-60
Coal, Bituminous, Mined, Sized	45-55
Coal, Bituminous, Mined, Run of Mine	45-55
Coal, Bituminous, Mined, Slack	43-50
Coal, Bituminous, Stripping, Not cleaned	50-60
Coal, Lignite	40-45
Coal, Char	24
Cocoa Beans	30-40
Cocoa , Nibs	35

* Material density is approximate. Weight can change due to moisture content of product.

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BULK MATERIAL HANDLING CHARTS

MATERIAL DESCRIPTION	LOOSE BULK DENSITY # / CU.FT.
Cocoa, Powdered	30-35
Coconut, Shredded	20-22
Coffee, Green Bean	25-35
Coffee, Ground, Dry	25
Coffee, Ground, Wet	35-45
Coffee, Roasted Bean	22-26
Coffee, Soluble	19
Coke, Loose	25-35
Coke, Petroleum, Calcined	3-45
Coke, Breeze, 1/4 inch and under	25-35
Concrete, Cinder	90-100
Concrete, 2 Inch Slump	100-150
Concrete, 4 Inch Slump	110-150
Concrete, 6 Inch Slump	110-150
Concrete, In Place, Stone	130-150
Concrete, Pre-Mix, Dry	85-120
Copper Ore	120-150
Copper Ore, Crushed	100-150
Copper Sulfate (Bluestone)	75-85
Cork, Fine Ground	12-15
Cork, Granulated	12-15
Corn, Cracked	45-50
Corn Cobs, Ground	17
Corn Cobs, Whole	12-15
Corn, Ear	56
Corn Germ	21
Corn Grits	40-45
Corn Oil Cake	25
Corn, Seed	45
Corn, Shelled	45
Corn, Sugar	30-35
Cornmeal	38-40
Cottonseed Cake, Crushed	40-45
Cottonseed Cake, Lumpy	40-45
Cottonseed, Dry, Delinted	35
Cottonseed, Dry, Not Delinted	18-25
Cottonseed Flakes	20-25
Cottonseed Hulls	12
Cottonseed Meal, Extracted	35-40
Cottonseed Meal, Expeller	25-30
Cottonseed Meats, Dry	40
Cottonseed Meats, Rolled	35-40
Cracklings, Crushed	40-50
Cullet, Fine	80-120
Cullet, Lump	80-120
Diatomaceous Earth	11-14
Dicalcium Phosphate	40-50
Disodium Phosphate	25-31
Distillers' Grain, Spent, Dry	30
Distillers' Grain, Spent, Wet	40-60
Dolomite, Crushed	80-100
Dolomite, Lumpy	90-100
Earth, As Excavated, dry	70-80
Earth, Loam, Dry, Loose	76
Earth, Wet, Containing Clay	100-110

MATERIAL DESCRIPTION	LOOSE BULK DENSITY # / CU.FT.
Epsom Salts	40-50
Feldspar, Ground	65-80
Feldspar, Lumps	90-100
Feldspar, Powder	100
Feldspar, Screening	70-85
Ferrous Sulfate	60-70
Ferrous Sulfide, 1/2 Inch	120-135
Ferrous Sulfide, Powder	105-120
Fish Meal	35-40
Fish Scrap	40-50
Flaxseed	45
Flaxseed Cake (Linseed Cake)	48-50
Flaxseed Meal (Linseed Meal)	25
Flour, Wheat	35-40
Flue Dust, Blast Furnace	110-125
Flue Dust, Basic Oxygen Furnace	45-60
Flue Dust, Boiler House, Dry	35-40
Fluorspar Fine (Calcium Fluoride)	80-100
Fluorspar, Lumps, 1-1/2 to 3 Inch	90-100
Fluorspar, Screenings, 1/2 Inch	85-105
Fly Ash	30-45
Foundry Refuse, Old Sand Cores, Etc	70-100
Fuller's Earth, Dry, Raw	30-35
Fuller's Earth, Oily, Spent	60-65
Fuller's Earth, Burned, Roasted	40
Glass Batch	80-100
Glue, Ground	40
Glue, Pearl	40
Glue, Vegetable, Powdered	40
Gluten Meal	40
Granite, Broken	95-100
Granite, Lumps 1-1/2-3 Inch	85-90
Granite, Screenings, 1/2 Inch	80-90
Graphite, Flake	40
Graphite Flour	28
Graphite Ore	65-75
Grass Seed	10-12
Gravel, Bank Run	90-100
Gravel, Dry, Sharp	90-100
Gravel, Pebbles	90-100
Gypsum, Calcined	55-60
Gypsum, Calcined, Powdered	60-80
Gypsum Dust, Aerated	60-70
Gypsum Dust, Non Aerated	93
Gypsum, Lumps, 1-1/2 to 3 Inch	70-80
Gypsum, Raw, 1 Inch	70-80
Gypsum, Screenings, 1/2 Inch	70-80
Guano, Dry	70
Hops, Spent, Dry	35
Hops, Spent, Wet	50-55
Iron Borings, Machine Shop	125
Iron Ore	100-200
Iron Ore, Concentrates	120-180
Iron Ore, Crushed	135-150
Iron Oxide, Pigment	25

* Material density is approximate. Weight can change due to moisture content of product.

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ENGINEERING: BULK MATERIAL HANDLING CHARTS





BULK MATERIAL HANDLING CHARTS

MATERIAL DESCRIPTION	LOOSE BULK DENSITY # / CU.FT.
Iron Oxide, Mill Scale	75
Kaffir Corn	40-45
Kaolin Clay, 3 Inch and Under	63
Kaolin Clay, Talc, 100 Mesh	42-56
Lactose	32
Lead Arsenate	72
Lead Arsenite	72
Lead Carbonate	240-260
Lead Ore, 1/8 Inch	200-270
Lead Ore, 1/2 Inch	180-230
Lead Oxide (Red Lead) 100 Mesh	30-150
Lead Oxide (Red Lead) 200 Mesh	30-180
Lead Sulfide, 100 Mesh	240-260
Lime, Ground, 1/8 Inch and Under	60-65
Lime, Hydrated, 1/8 Inch and Under	40
Lime, Hydrated, Pulverized	32-40
Lime, Pebble	56-56
Limestone, Agricultural, 1/8 Inch and Under	68
Limestone, Crushed	85-90
Limestone, Dust	55-95
Litharge, Pulverized (Lead Oxide)	200-250
Magnesium, Chloride	33
Malt, Dry Ground	20
Malt, Dry Whole	20-30
Malt, Meal	36-40
Malt, Sprouts	13-15
Malt, Wet or Green	60-65
Manganese Dioxide	70-85
Manganese Ore	125-140
Manganese Oxide	120
Manganese Sulphate	70
Marble, Crushed	80-95
Meat, Scrap with Bone	40
Mica, Flakes	17-22
Mica, Ground	13-15
Mica, Pulverized	13-15
Milk, Dried Flakes	5-6
Milk, Malted	30-35
Milk, Powdered	20-45
Milk, Whole, Powdered, Dry	20-36
Milk Sugar	32
Mill Scale	120-125
Milo	40-45
Milo, Ground	32-36
Molybdite, Powder	107
Mortar, Wet	150
Mustard Seed	45
Monosodium Phosphate	50
Niacin (Nicotinic Acid)	35
Nickel (Cobalt Sulphate Ore)	80-150
Oats	26
Oats, Crimped	19-26
Oats, Crushed	22
Oats, Rolled	35
Oat Flour	19-24

MATERIAL DESCRIPTION	LOOSE BULK DENSITY # / CU.FT.
Oat Hulls	8-12
Oil Cake	45-50
Orange Peel, Dry	15
Oxalic Acid, Crystals	60
Oyster Shells, Ground	50-60
Oyster Shells, Whole	80
Paper Pulp (4% or less)	62
Paper Pulp (6% to 15%)	60-62
Peanuts, Raw, Uncleaned, Unshelled	15-20
Peanuts, Clean, In Shell	15-20
Peanuts, Shelled	35-45
Peanut Meal	30
Peas, Dried	45-50
Perlite, Expanded	8-12
Perlite, Expanded, Powder	4-12
Phosphate Acid Fertilizer	60
Phosphate Rock Broken	75-85
Phosphate Rock Pulverized	60
Phosphate Sand	90-100
Phosphate, Triple Super, Ground	50-55
Polyethylene Resin, Pellets	30-35
Polystyrene Beads	40
Polyvinyl Chloride, Pellets	20-30
Polyvinyl Chloride, Powder	20-30
Potash (Muriate) Dry	70
Potash (Muriate) Mine Run	75
Potash Salt (Sylvite)	80
Potassium Carbonate	51
Potassium Chloride, Pellets	120-130
Potassium Nitrate	76
Potassium Nitrate	80
Potassium Sulfate	42-48
Potato Flour	48
Pumice, Ground	40-45
Pyrites, Iron	135-145
Pyrites, Iron, Pellets	120-130
Quartz Dust	70-80
Quartz	80-95
Rice, Hulled	45-49
Rice, Polished	30
Rice, Rough	32-36
Rice Bran	20
Rice Grits	42-45
Rice Hulls	20-21
Rubber, Reclaimed, Ground	23-50
Rubber, Reclaimed	25-30
Rubber, Pellets	50-55
Rye	42-48
Rye Feed	33
Rye Meal	35-40
Rye Middlings	42
Rye Bran	15-20
Rye, Shorts	32-33
Safflower Seed	45
Safflower Cake	50

* Material density is approximate. Weight can change due to moisture content of product.

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BULK MATERIAL HANDLING CHARTS

MATERIAL DESCRIPTION	LOOSE BULK DENSITY # / CU.FT.
Safflower Meal	50
Salicylic Acid	29
Salt, Dry Coarse	45-60
Salt, Dry Fine	70-80
Salt Cake, Dry Coarse	85
Salt Cake, Dry Pulverized	65-85
Sand, Dry, Bank (Damp)	110-130
Sand, Dry, Bank (Dry)	90-110
Sand, Foundry, Prepared	65-75
Sand, Foundry (Shake Out)	90-100
Sand, Dry Silica	90-100
Sand, (Resin Coated) Silica	104
Sand, (Resin Coated) Zircon	115
Sandstone, Broken	85-90
Sawdust, Dry	10-13
Sea-Coal	65
Sesame Seed	27-41
Shale, Broken	90-100
Shale, Crushed	85-90
Shellac	80
Shellac, Powdered or Granulated	31
Silica, Flour	80
Slag, Blast Furnace, Crushed	130-180
Slag, Furnace, Granular, Dry	60-65
Slag, Furnace, Granular, Wet	90-100
Slate, Crushed, Minus 6	80-90
Slate, Dust	70-80
Slate, Crushed, Minus 1/8	82-85
Slate, Lump	85-95
Sludge, Sewage, Dried	40-50
Sludge, Sewage, Dry Ground	45-55
Soap, Beads or Granules	15-35
Soap, Chips	15-25
Soap, Detergent	15-50
Soap, Flakes	5-15
Soap, Powder	20-25
Soapstone, Talc, Fine	40-50
Soda Ash Briquettes	50
Soda Ash, Heavy	55-65
Soda Ash, Light	20-35
Soda Alum	75
Sodium Aluminate, Ground	72
Sodium Aluminate Sulphate	75
Sodium Nitrate	70-80
Sodium Phosphate	50-60
Sodium Sulfite	96
Soy Bean, Cake	40-43
Soy Bean, Cracked	30-40
Soy Bean, Flake, Raw	18-25
Soy Bean, Flour	27-30
Soy Bean Meal, Cold	40
Soy Bean Meal, Hot	40
Soy Beans, Whole	45-50
Starch	25-50
Steel, Turnings, Crushed	100-150

MATERIAL DESCRIPTION	LOOSE BULK DENSITY # / CU.FT.
Steel, Trimmings	75-150
Sugar Beet Pulp, Dry	12-15
Sugar Beet Pulp, Wet	25-45
Sugar, Refined, Granulated, Wet	50-55
Sugar, Raw	55-65
Sugar Cane, Knifed	15-18
Sulphur, Crushed Minus 1/2	50-60
Sulphur, Lumpy Minus 3"	80-85
Sulphur, Powdered	50-60
Sunflower, Seed	19-38
Taconite, Pellets	116-130
Talcum Powder	50-60
Talcum, Minus 1/2"	80-90
Talc, Solid	165
Tallow	58
Tanbark, Ground	55
Trap Rock, Screenings	90-100
Trap Rock, Lumps	100-110
Tricalcium Phosphate	40-50
Trisodium Phosphate	60
Trisodium Phosphate, Granular	60
Trisodium Phosphate, Pulverized	50
Triple Super Phosphate	50-55
Urea Prills, Coated	43-46
Vermiculite, Ore	80
Vermiculite, Expanded	16
Vetch	48
Walnut Shells, Crushed	35-45
Wheat	45-48
Wheat Bran	16-20
Wheat, Cracked	40-45
Wheat, Flour	33-40
Wheat, Germ	18-28
Wheat, Middlings	20-24
White Lead, Dry	75-100
Wood Chips, Screened	10-30
Wood Chips, Hogged Fuel	15-25
Wood, Flour	16-36
Wood, Shavings	8-16
Zinc, Concentrate Residue	75-80
Zinc, Dust	200
Zinc, Ore, Crushed	160
Zinc, Ore, Roasted	110
Zinc Oxide, Heavy	30-35
Zinc Oxide, Light	10 15

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Tolerances: Thermal plastic molded products will vary slightly in size, capacity and weight. Consult Maxi-Lift for details.



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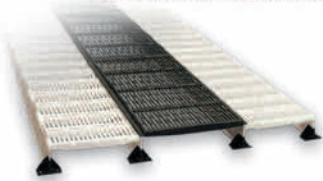


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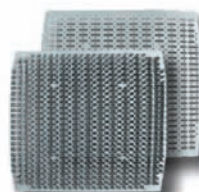
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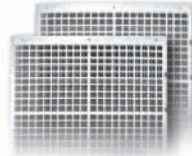
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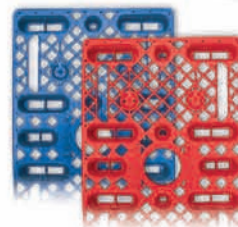
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