



## Maxi-Lift, Inc.: *Your Complete Industrial Bucket Source* For The New Millennium



**M**ore choices, sizes, materials and styles are the reasons that Maxi-Lift has taken its place as the premier industrial elevator bucket manufacturer. We manufacture industry trusted and respected products like the Maxi-Tuff non-metallic elevator bucket along with our superior fabricated steel buckets. This ensures you can find the bucket you need to fit your tough industrial application.

### MAXI-TUFF NON-METALLIC

Introduced in 1988, the Maxi-Tuff quickly took its place as the industry standard in plastic industrial elevator buckets. Since then, hundreds of thousands of the extremely

durable buckets have been sold and installed. Built with a specially-engineered Dupont nylon resin, the Maxi-Tuff outperforms other non-metallic buckets (not to mention its reduced weight on other elevator components will extend their life). This means lower costs to you.

The Maxi-Tuff was designed with long life in mind. It has a heavy front lip for digging, a reinforced back for mounting strength, and thick front corners for strength. Its slick surfaces and smooth contours allow easy product release. The Maxi-Tuff is high-pressure injection molded, creating a solid bucket. Other manufac-

turers use a casting process that leaves voids in the material resulting in a shorter useable life span.

Available in 17 different sizes in style AA, and 10 sizes in our medium front continuous

style, the Maxi-Tuff has more sizes to choose from than any other manufacturer.

Maxi-Tuff buckets are also available in 55 Durometer urethane and

high-density polyethylene. Nylon is best suited for high temperatures in abrasive applications. Polyethylene is for food grade applications. Urethane buckets should be used in applications where materials tend to be sticky, or



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# Ask The *Right Questions* And Get What You Pay For

Special Guest Column by Dick Swanstrom of R. R. Howell

**H**ave you ever bought a 6000 bushel per hour elevator in hopes you would get the 5000 bushels per hour you need? This happens more often than you may think. Facilities have often purchased legs sized for what they want to do and find that the equipment just doesn't do the job. The solution often has been to oversize the elevator in hopes that the equipment will reach the desired capacity. The problem with this strategy is the cost of oversized equipment and the hidden cost of grain breakage.

Today's grain and feed facilities have become lean and mean. Most elevator legs are being built with today's components and yesterdays engineering. Little concern has been paid to product flow, cup fill, discharge characteristics, and airflow within the leg, reducing impact points, and product degradation. These types of legs will cost the customer dearly to run year after year: i.e., two-percent breakage in a leg that sees 10 million bushels per year is a loss of 200,000 bushels!

To make a leg that works, you must know what material is to be elevated, know the components of the leg, and how they relate to each other. You must know how the material will flow into, through and out of the

leg. Four key factors are involved in the design of the leg and four factors in the installation.

## DESIGN

1. The leg should be engineered to deliver a specific capacity with a minimum of grain damage. Elevator bucket size and spacing must be tailored to the product being handled. Bucket tip speed is key in minimizing product damage.

2. The head bonnet should be adjustable to control airflow, pre-discharge of the cups, and center the grain flow in the discharge area.

3. The throat of the leg should be located to allow total discharge of the cups and have an adjustable wiper to minimize down logging.

4. The head should be designed large enough to allow the grain to discharge from the cups and fall down into the discharge area without impacting the sides or front of the leg.

## INSTALLATION

1. Location of the inlets is critical. If the grain doesn't get in the buckets, it won't be elevated. If the inlets are too low on the upside, it will cause turbulence and not allow full grain flow. If the inlets are too high on the down side, a restriction can occur.

2. The angle at which the inlets are set is key. If they are too flat, grain flow speed will be too slow and the buckets will under fill.


3. The size of the inlets must be great enough to allow full



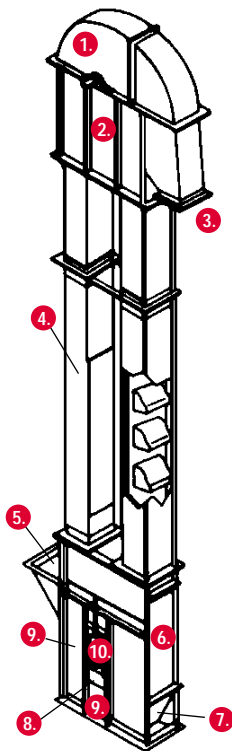
capacity to reach the leg. If the opening is 24" tall and the belt speed is 600 feet per minute, the product will have two-tenths of a second to fill the bucket before it travels out of the loading area.

4. Sharp angles or bends must be eliminated so as not to restrict the grain flow. This is true for both feeding and discharging materials. Flow must be straight and not restricted. If the flow is restricted, the buckets may cross feed and proper fill will not be achieved. If there is a restriction leaving the head, the grain will boil up in the throat and flow back down the leg to the boot causing capacity loss and breakage.

A correctly designed leg will not work efficiently unless it is properly installed, and a properly installed leg will not work efficiently unless it is correctly designed.

Designing and installing an elevator properly boils down to knowing how much product you want to elevate, using real capacities for buckets and belting, operating at a speed that does not create damage or wear and tear, and being sure at every location, the product is flowing properly. Remember that an elevator running properly will break less grain and give longer and more efficient life. 

## A CLOSER LOOK AT YOUR ELEVATOR



1. Split Hood
2. Head Section
3. Discharge Spout
4. Intermediate Section
5. Inlet
6. Clean Out Door
7. Curved Bottom Plate
8. Take-Up Ball Bearing Screw Type
9. Boot
10. Maxi-Lift Buckets
11. Belt

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have sharp, cutting edges. Urethane has the best overall abrasion resistance.

### MAXI-TUFF FABRICATED STEEL

All sizes, styles and designs of steel elevator buckets can be manufactured to industry standards or your custom specification at Maxi-Lift Inc. Our engineers can work from your drawings, create CAD drawings for approval, or copy a sample bucket. Our craftsmen work in a variety of materials: carbon steel, plated carbon steel, stainless steel, aluminum, abrasion resistant (AR) steel.

We can recommend a combination of materials to help solve wear and performance problems. Added features are also available to improve operation and life. AR wear-lips, center braces, reinforced backs and bearing plates can be included upon request.

Maxi-Lift made a substantial investment in the latest state of the art fabricating equipment. The result of this investment is that our high quality products are manufactured and shipped faster than ever. Expedited rush delivery is also available in critical situations. Our Plasma steel cutting system produces clean, uniform components. Cleaner components help insure solid, high quality, welds which add strength and



Maxi-Lift offers a variety of steel industrial products to fit your unique needs.

durability to our buckets. Our craftsmen are experts, and they produce the best buckets on the market today.

### MAXI-TUFF MALLEABLE IRON

To fill out our industrial elevator bucket product line, Maxi-Lift also inventories a large selection of malleable iron sizes and styles. Both styles AA and AC are kept on our shelves. Our iron buckets are mill duty with thick walls and reinforced corners. Sizes range from 4x3 up to 18x10.

Cast iron buckets can handle applications up to 600 degrees and are ideal in sand, stone, shot blast, rock, concrete or other abrasive materials. Iron buckets can be attached to either belting or chain. Maxi-Lift will drill your buckets for mounting at no additional charge.

### SATISFIED CUSTOMERS

Thousands of Maxi-Tuff industrial elevator buckets are in operation worldwide. We elevate everything from aggregate to zinc. Many original equipment manufacturers insist on Maxi-Lift elevator buckets for their new equipment. Make MAXI-TUFF your choice too. 🚚

(See the Maxi-Lift Industrial bucket catalog for more information)



## Round Bottom Drag Flights In Stock



As part of our commitment to being the best service provider in the business, we are now stocking common sizes and styles of round bottom drag flights. This new program ensures quick turnaround on both standard designs, and custom sizes and styles of drag flights.

Stock sizes will range from 9" lengths to 16" lengths and in thicknesses from 3/8" to 1/2" UHMW. Both natural and reprocessed materials will also be stocked. 🚚

### Some Uses For Our Industrial Products

Aggregates	Chemicals	Fly Ash	Minerals	Sawdust
Alumina	Clays	Fullers Earth	Ores	Silicia Sand
Asphalt	Coal	Gypsum	Pellets	Steel Shot
Bauxite	Cullet	Lime	Phosphates	Sugar
Cement	Fertilizer	Limestone	Salt	Wood Chips

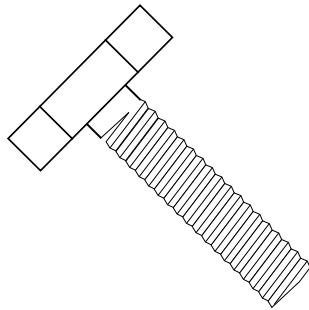
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## NEW PRODUCT

In addition to our extensive inventory of elevator bolts, we have added hex head bolts for customers mounting buckets on to chain. The new bolts are zinc plated, grade five hex head bolts. They are available in the following sizes:



### Available Sizes

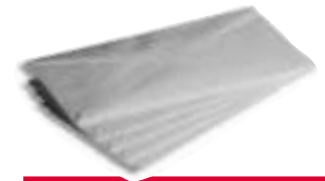
3/8" x 1"
3/8" x 1-1/4"
3/8" x 1-1/2"
1/2" x 1"
1/2" x 1-1/4"
1/2" x 1-1/2"



### www.maxilift.com

That's where you will find the most interactive bucket web page there is. Stop by and take advantage of the:

- Full line catalogs
- Engineering data
- Customer case studies
- Latest newsletter
- Free Samples
- Literature request form
- Direct e-mail access to Maxi-Lift personnel



### Want To Be Added To Our Mailing List?

If you did not receive this publication by mail, send your name, company name, telephone number and address to: Maxi-Lift, Inc.

P.O. Box 700008  
Dallas, TX 75370-0008

## Faces On The Phone

### WELCOME TARVER

Maxi-Lift Inc. continues to grow with the recent addition of Chris Tarver to our team. Chris joined us in January 1999 after graduating with a degree in Industrial Distribution from Texas A&M University. In the newly created role of Industrial Products Specialist, his responsibilities include promoting and marketing the entire line of Maxi-Lift's industrial elevator buckets.

In August of 1997, Chris tied the knot with his lovely bride Larrie. The couple has a 2 year old black Lab that is a companion and hunting buddy. Chris loves hunting, fishing and anything else that involves the great outdoors.

### WELCOME COPE

Maxi-Lift Inc. introduces Christie Cope as a new addition to its sales team. She joined our team in January of 1999 after graduating from Texas A&M University. Christie received her bachelor's degree in Speech Communication with a minor in Business Administration.

Christie has three years of customer service experience. She has made a positive impact on our team of professionals. She has a great smile, a winning attitude and sharp wit. Christie was born and raised in College Station, Texas. 🏠



Chris Tarver  
Industrial Products Specialist



Christie Cope  
Account Executive