

THE MAXI-LIFT BUCKET BULLETIN

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TIGER-TUFF BUCKETS ARE INDUSTRIAL STRENGTH

Tiger-Tuff Maximum duty elevator buckets are well established as the premier bucket design for tough agricultural applications. The product's thick walls, corners and front lip have made it the longest wearing elevator bucket in the feed and grain marketplace. It is no wonder that the long lasting features of the Tiger-Tuff have made their way into industrial bucket elevators as well.

Why use a Tiger-Tuff in an industrial elevator? The special design of the Tiger-Tuff translates well into this tough market because

the product is designed to be long wearing. It has very thick wear areas, specifically the front corners, front lip and sidewalls. The back wall is also thickened for strength and durability. These thick surfaces compare very well to available non-metallic style AA buckets on the market. Couple that with the much higher available capacity in the Tiger-Tuff and the advantages become clear. **Long life and higher capacity.** The Tiger-Tuff has a large radius in the belly and wide opening that helps during the fill and discharge of sluggish or dense applications common to industrial

elevators. The Tiger-Tuff line is available in nylon, urethane and polyethylene materials. Nylon is the more common non-metallic material used in industrial elevators. It has excellent abrasion resistance as well as impact resistance. Operating temperatures for nylon can reach 300°F on a continuous basis with spikes of up to 350°F. This material is ideal for foundry sand, cement and gypsum just to name a few.

Urethane is the most abrasion resistant of the three materials, and has excellent resistance to sharp, cutting... *> Continued on Pg. 4*

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& PASS**

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COKE PLANT PUTS TIGERS TO THE TEST

Rosebud Operating Services is a power production facility generating electrical power in Billings, Montana. When the company needed to add equipment to upgrade their service, Randy Blendu, the Facility Services Manager, knew one thing when it came to his bucket elevators: no steel buckets. "I wanted something to outlast steel buckets in our elevators."

Rosebud processes petroleum coke as the fuel used to generate power and petroleum coke can be destructive as it moves in the plant's processes. "The coke we move wears out all kinds of steel surfaces in our transitions and elbows. I needed something better," said Blendu. He consulted with the experts at Agri-Systems in Billings, who were the construction company on the plant. They contacted Maxi-Lift for guidance. The team at Maxi-Lift made a number of suggestions and sent samples for the parties to evaluate. After looking at the options, Randy chose Tiger-Tuff maximum duty elevator buckets made of durable urethane. This specification was passed on to Rapat Corporation in Hawley, Minnesota, who built the three new elevators for the project.

Rosebud's capacity requirements put them needing 400 tons a day of the 3" minus petroleum coke to meet their fuel demands. 130 thousand tons per year of this abrasive material can do a lot of damage to the conveying systems in the plant. "I thought the buckets would last maybe six months to a year," said Blendu. "Instead, we've had the buckets running since September of 2001. We've never replaced a bucket due to wear or damage. In fact, we had to replace a belt that

failed and we were able to recover all of the buckets from the old belt. They were still in great condition."

Rapat built three elevators for the project, all containing Tiger-Tuff Maximum Duty urethane elevator buckets. All of the legs have performed beyond the expectations of the plant's staff. "The receiving elevator was rated at 160 tons per hour and it gets 195 tons per hour. The two processing legs are rated at 100 tons, but performing at 125 tons per hour instead. They have been solid gold!"

The success is also due in part to an excellent maintenance inspection program. Each of the two, twelve-hour shifts perform a complete visual inspection

of each elevator. This insures that no buckets are damaged or loose, and that bearings and belts are in proper working order.

If the company were to expand will Tiger-Tuff urethane buckets be part of the plans? "Absolutely!", said a very pleased Blendu.

Tiger-Tuff elevator buckets are available in fourteen sizes and three materials to fit most industrial applications. Increased capacity and longer wear life are just two of the major benefits of using Tiger-Tuff elevator buckets. Contact your local distributor, equipment manufacturer or Maxi-Lift to discuss options using the Tiger-Tuff in your application. **ML**



Randy Blendu, Facility Services Manager

Tiger-Tuffs in Crusher Leg

Rosebud Operating Services - Billings, Montana

New Feeding Craze: The Mighty-Max Fence Feeder

A new addition has been made to the Maxi-Lift bucket family, the Mighty-Max Fence Feeder.

What is the Mighty-Max Fence Feeder? The most popular style of fence feeder in the market. These feeders are made from prime virgin HDPE and tough enough to withstand the harshest weather and animal abuse. The Mighty-Max is

designed to feed all varieties of livestock. The best part is, they are stocked pre-drilled with a standard two-hole pattern and includes two 8MM spring link clips. This means they are ready out of the box to hook on the fence for feeding time.

This line consists of 3 standard feeder sizes: Small - 10x7, Medium - 14x7 and Large - 18x8.



New Sizes Complete Line of DI-MAX Ductile Iron Buckets

Maxi-Lift has added a dozen new sizes to the DI-MAX line of Industrial Duty Ductile Iron elevator buckets. There are now a total of twenty-six sizes available in the AA and AC styles. DI-MAX is the fastest growing line of industrial duty ductile iron buckets in the U.S. Its growth comes from the superior design that places more material in all of the high wear areas yielding longer life than other cast buckets. Also, the DI-MAX is made from ductile

iron rated at 290 Brinell hardness (compared to 140 for malleable or cast iron). This results in higher impact and abrasion resistance thereby increasing bucket life and bucket elevator efficiency. This superior durability combined with an average of 10% more capacity than most competing cast buckets makes the DI-MAX the best choice for demanding industrial applications.



DI-MAX: AVAILABLE SIZES

- 4x3 AA • 9x6 AA • 18x8 AA
- 6x4 AA • 10x6 AA • 20x8 AA
- 7x4-1/2 AA • 11x6 AA • 24x8 AA
- 7x5-1/2 AA • 12x6 AA • 18x10 AA
- 8x5 AA • 12x7 AA • 12x8 AC
- 9x5 AA • 14x7 AA • 16x8 AC
- 11x5 AA • 16x7 AA • 18x10 AC
- 15x5 AA • 14x8 AA • 24x10 AC
- 19x5 AA • 16x8 AA • 24x10 AC

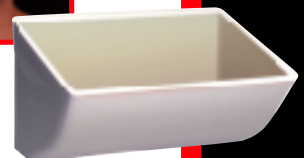
New at Maxi-Lift: Mario Perez ▶

Mario Graduated with a degree in International Marketing from the University of North Texas. His sales & marketing background comes from years in the telecommunications industry. Happily married at a big celebration in Tulum, Mexico, Mario and his lovely wife Amanda are expecting their first child in February, a baby girl. Fluent in Spanish, Mario will handle our Latin American sales, as well as the Southeastern United States.



2003 Employee of the Year: Hope West ▶

Our Employee of the Year Award went to Hope West this year. Hope is in Sales and Marketing and has been with Maxi-Lift for 3 years. She is our Midwest and Canada Territory Manager as well as our Marketing Coordinator. *Congratulations on such a great job, Hope!*



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TIGER-TUFF: INDUSTRIAL STRENGTH > Continued from Pg. 1

...particles like glass cullet and silica sand. Urethane can operate on a temperature range of -60°F to 180°F. Urethane buckets also resist materials that stick to other surfaces. This keeps the buckets at their rated capacities where others could lose capacity to caked on materials.

When calculating elevator capacity using the Tiger-Tuff bucket, speeds and pulley diameter should be treated as if an AA style

bucket were being used. The Tiger-Tuff fills and discharges as the AA would under like speeds and conditions. You can find the speed chart in our catalog, or on our website at www.maxilift.com. Maxi-Lift's staff will be glad to assist in evaluating Tiger-Tuff capacities for any application. As with all non-metallic buckets, the Tiger-Tuff can significantly reduce the weight in an elevator currently using steel or iron buckets. This reduction in weight can extend the life of other more expensive

components such as drives, gearboxes, belts and chains. Another benefit of non-metallic buckets versus metal is quieter operation. Noise reduction is often significant.

For more information about using Tiger-Tuff elevator buckets or any of our other buckets in industrial applications, visit our website or contact Chris Tarver and the other Maxi-Lift staff for recommendations.



GET THREE FOR FREE!

For more than a decade, Maxi-Lift has offered free elevator buckets for trial to our valued distributors and their customers. Thousands of Maxi-Tuff's, Tiger-Tuff's, and HD-Max's in nylon, polyethylene and urethane have been sent out all over the country for in application testing. Why do we do it? Because our elevator buckets perform. More life, more capacity, more value...no company does it better than Maxi-Lift.

If you would like free samples to test in your elevator, call us at 1-800-527-0657 or visit us on the web at www.maxilift.com.

Ask about our



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