



Bucket Elevator Buckets

Bucket Styles



Style AA – The Style AA centrifugal elevator bucket has the traditional shape of a cast iron bucket. This bucket has a heavy reinforced lip and corners with a thickened back wall for mounting strength. The most common applications include handling stone, sand, gravel, coal, fertilizer, clay, salt, limestone and concrete. The AA bucket is the best bucket for tough, abrasive industrial applications.



Tiger-Tuff Industrial® – The Tiger-Tuff Industrial is a maximum duty industrial elevator bucket, designed and engineered to maximize bucket life and elevated capacity. The Tiger-Tuff Industrial bucket has the thickest lip, back wall and corners to maximize bucket life and maintain capacity. The most common applications include aggregate, sand, gravel, coal, gypsum, limestone, clay, concrete and many, many more. The Tiger-Tuff Industrial is the maximum duty industrial bucket for your most demanding industrial applications.



Style MF – The Style MF Medium Front continuous elevator bucket has the traditional shape of an MF steel elevator bucket. It also has a heavy reinforced lip and corners with a thickened back wall for mounting strength. The most common applications include fertilizer, clay, alumina and pellets. The MF is the best bucket for fluffy or free flowing materials or those which require gentle handling.

Non-Metallic Buckets

Features

Capacity Increase & Weight Reduction – Non-metallic buckets reduce weight on elevator up to 80% while achieving up to 25% more capacity than cast iron buckets.

Construction – Non-metallic buckets are available with non-corrosive, non-sparking properties. Constructed with thicker walls and heavy front digging lip, various materials of construction offer heat, impact and abrasion resistance.

Benefits

Reduced elevator maintenance – Extended bucket life decreases elevator downtime and maintenance costs associated with bucket replacement. Buckets are easy to install and replace with a variety of fastening options.

Cost Savings – Lighter weight versus carbon steel buckets reduces energy usage. Non-metallic buckets offer a more cost effective alternative to carbon steel buckets.

Increased efficiency – Cleaner discharging buckets reduce material build-up in bottom of buckets to maximize product throughput.



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Features & Benefits

Non-Metallic Available Materials of Construction

Materials	Polyethylene	Nylon	Urethane	FDA Nylon
Color	White	Tan	Green	White
Application	Grain & Food Products	Hot, high impact, abrasive dense products	Heavy abrasion, sticky materials	Hot, high impact, abrasive food grade products
Temperature Ranges	-120°F to +180°F (210°F intermittent)	-60°F to +300°F (350°F intermittent)	-60°F to +180°F (210°F intermittent)	-60°F to + 300°F
FDA Approved	Yes	No	Yes	Yes
Comments	Economical, high density polyethylene. FDA approved material for handling food grade products.	Best for high heat applications, with tough impact and abrasion needs.	Most flexible and abrasion resistant. Resists product sticking and sharp cutting particles.	Best for high heat food grade applications, with tough impact and abrasion needs.

Tiger-Tuff Industrial is registered trademarks of Maxi-Lift, Inc.

Metallic Buckets

Ductile Iron

Style AA Ductile Iron Buckets – The Style AA style ductile iron (DI) elevator buckets are engineered to exceed the performance requirements of any industrial application. These buckets are designed with thicker walls and a reinforced front lip to increase bucket life in tough industrial environments. Ductile iron is far superior to malleable iron in both impact and abrasion resistance. Replacing malleable iron with ductile iron elevator buckets will result in longer bucket life and more efficient operation.



Features

Construction – DI buckets are mill duty made with thick walls with reinforced back and corners. Available with non-corrosive, non-sparking properties.

Wide Range of Use – DI buckets offer extremely high impact and abrasion resistance and can be used in applications with product temperatures up to 600°F. Buckets are designed to handle sand, glass cullet, stone, shot blast, rock, concrete and other abrasive products.

Benefits

Reduced elevator maintenance – Long wearing digging edges, strong impact and abrasion resistance lead to extended bucket life decreasing elevator downtime and maintenance costs associated with bucket replacement.

Increased efficiency – DI buckets are designed with a smooth surface to ensure proper filling to maximize product throughput.

Cost Savings – DI buckets are stronger and more cost effective than welded steel buckets of the same gauge.



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Features & Benefits

Welded Steel Buckets



AA – Buckets generally utilize a 3-piece construction; the end caps fit on the outside of the body and are continuously welded to the body. There generally is no taper on the sides of the bucket. The reinforced wear lip is attached to the front of the bucket.

MF – Buckets generally utilize a 2-piece construction; a front plate inserts between a press-formed body and is continuously welded to the body on the outside joint.

Welded Steel Available Materials of Construction & Options

Materials

Carbon Steel

Plated Stainless Steel

Aluminum

AR Plate

Available Thicknesses - 14GA, 12GA, 10GA, 7GA, 1/4", 3/8", 1/2"

Options

Wear Lips

Hardened Surface

Hard Bead Weld

Punching for belt and chain



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Engineering
Manufacturing**

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