

# *Elevate your expectations*

## **TIPTRAK BUCKET ELEVATORS**

*“the gentlest possible handling for your product with the least maintenance, and the quietest operation”*

**UNITRAK**

ISO 9001:2008 Certified



## *Some of the products being handled by TipTrak*

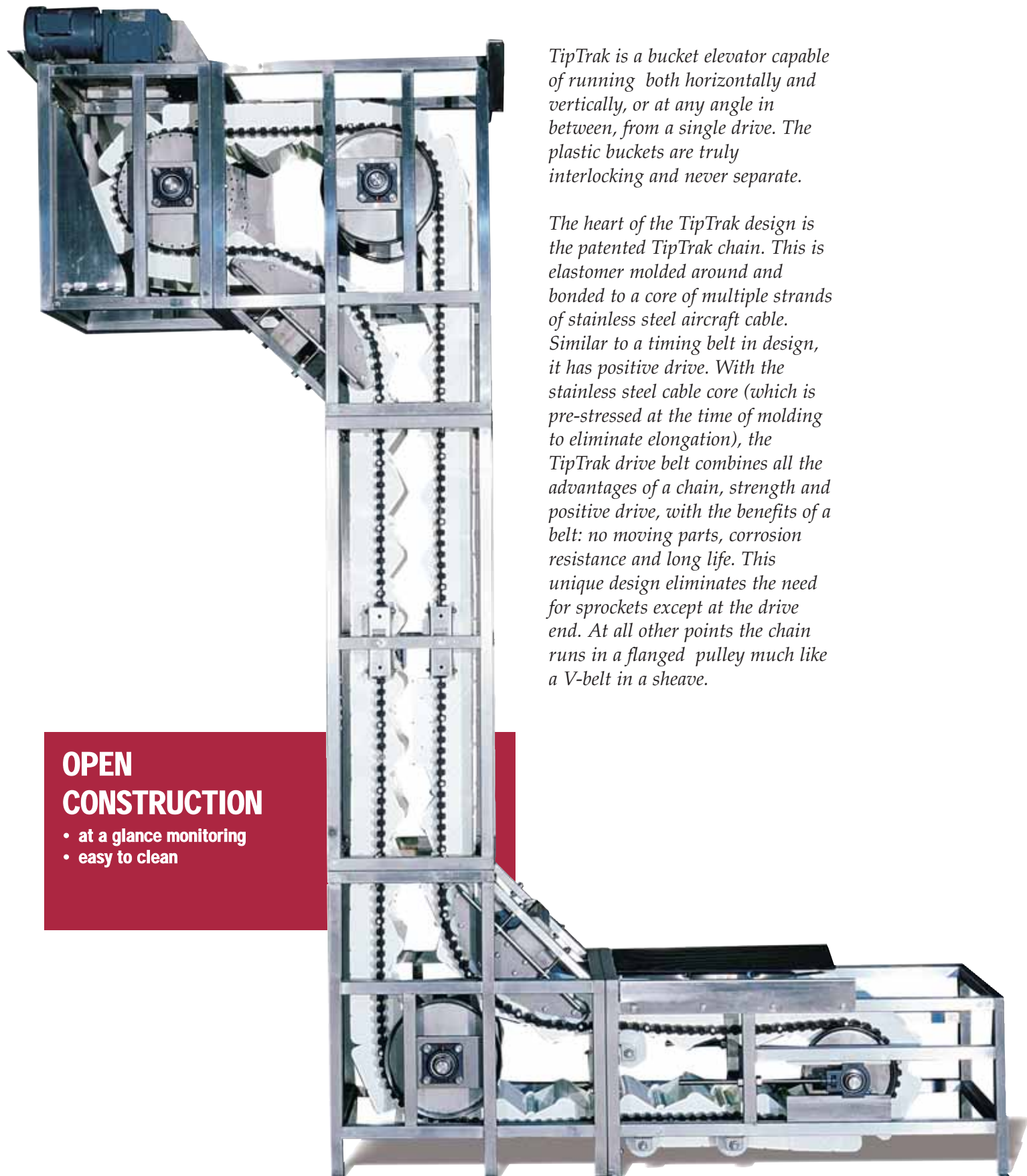
### **Chemical, plastic & rubber**

- adhesive
- agricultural chemicals
- alumina
- ammonium nitrate
- baking soda
- carbon black
- catalyst
- ceramic sand
- chlorine powder compound
- coated seeds
- crumb rubber
- detergent
- ethyl controlite
- explosives
- filter cake
- glass marbles
- herbicide
- iron oxide
- magnesium fluoride
- phenolic resin flake
- pigment
- plastic pellets
- resins
- rubber pellets
- silica gel
- silicone powder
- soap powder
- soda ash
- sodium azide
- sodium borohydride
- stabilizer pastilles & flakes
- steel/iron powder
- sulphur pastilles
- talc powder
- toner
- T.N.T.
- vicron
- wax flakes

### **Food Products**

- coffee - beans, ground, soluble
- candy - molded
- candy packets
- chewing gum
- chocolate covered nuts
- cough drops
- jelly bean centers
- frozen fruit
- vegetables - fresh & frozen
- frozen french fries
- cereal
- cereal flakes
- mini pita bread
- packaged noodles
- spiced bread crumbs
- frozen pasta (in bags)
- pet food pellets
- potato chips
- peanuts
- snack food
- soy product
- rice
- pasta
- cookies
- fish





*TipTrak is a bucket elevator capable of running both horizontally and vertically, or at any angle in between, from a single drive. The plastic buckets are truly interlocking and never separate.*

*The heart of the TipTrak design is the patented TipTrak chain. This is elastomer molded around and bonded to a core of multiple strands of stainless steel aircraft cable. Similar to a timing belt in design, it has positive drive. With the stainless steel cable core (which is pre-stressed at the time of molding to eliminate elongation), the TipTrak drive belt combines all the advantages of a chain, strength and positive drive, with the benefits of a belt: no moving parts, corrosion resistance and long life. This unique design eliminates the need for sprockets except at the drive end. At all other points the chain runs in a flanged pulley much like a V-belt in a sheave.*

## **OPEN CONSTRUCTION**

- at a glance monitoring
- easy to clean

## No transfer points

These design features deliver important advantages. By running horizontally and vertically without transfer points, your product can move from one process to another without spillage, degradation, dusting or segregation of blended products.

## No spillage

The interlocking buckets ensure that there is no spillage at the infeed and because the buckets never separate, even on vertical lift, the only place your product leaves the buckets is at the discharge. Even here the TipTrak design allows for a gentle cascading of product, further reducing degradation.

## No moving parts

The TipTrak chain, through its unique combination of design and materials, delivers trouble free operation, year after year, even in the most demanding industrial environment. There are no roller chains to stretch or bushings to wear out. In fact, there are no moving parts in the TipTrak chain. The chain runs slack and, after the initial setup, never needs adjusting.

Non-metallic construction makes the TipTrak ideal for situations requiring sanitary or corrosion resistant materials. This feature also means that our conveyors are quiet. In short, the unique TipTrak construction means the gentlest handling, the least spillage, the lowest possible maintenance, and the quietest operation of any mechanical elevating device.

## Open Construction

Open TipTraks use a square tubing frame that supports but doesn't enclose the buckets. They offer economy, ease of cleaning, and at-a-glance monitoring of your operation. They are available in carbon steel and stainless steel. Optional round tubing can be substituted for the square tubing.

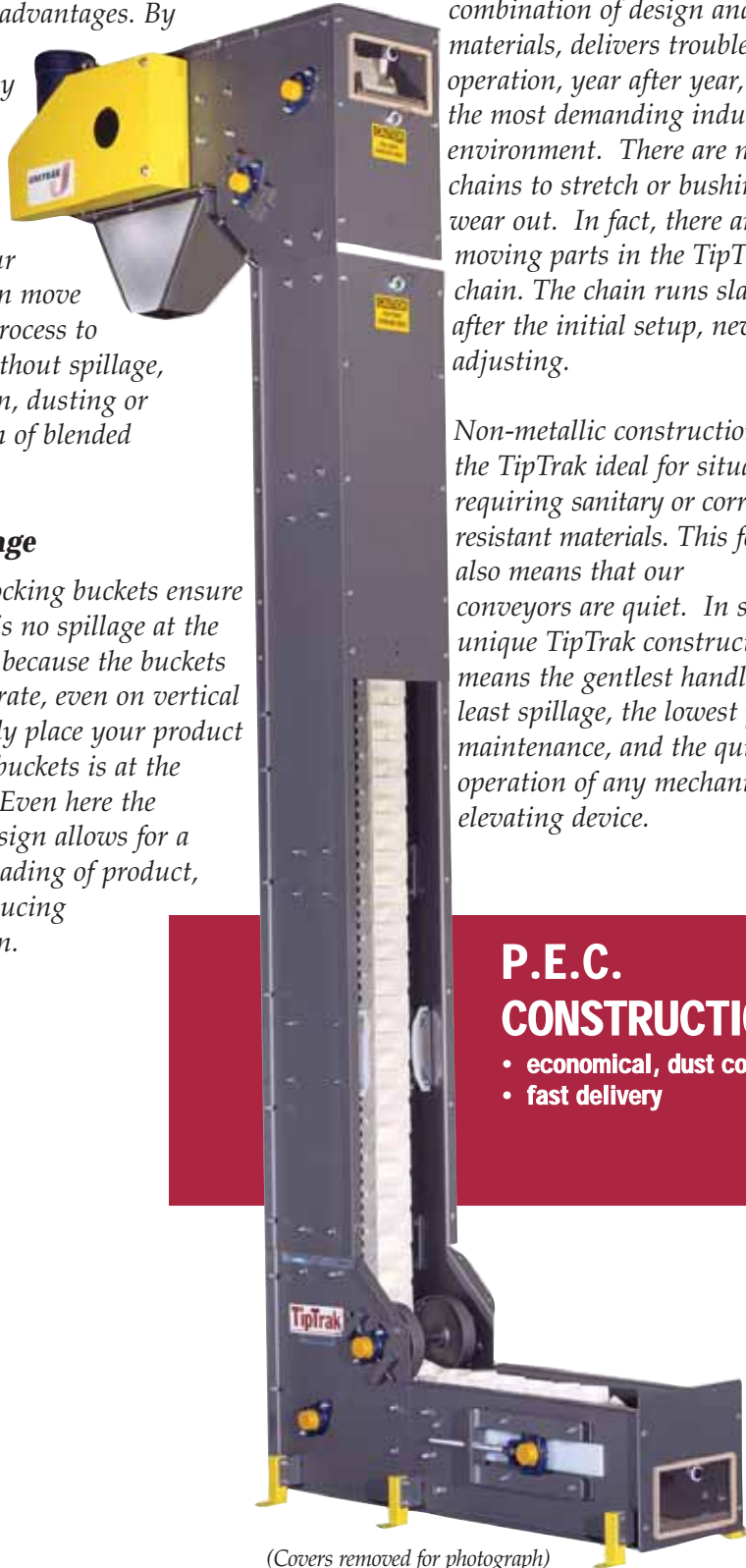
Where required, personnel guards can be fitted to meet government safety standards while still providing easy access and maximum visibility.

## P.E.C. Construction

Suitable for most applications, the P.E.C. model uses "stock" components, allowing for dust containment, fast delivery, and operator protection. It can be customized with available options to fit your application requirements. Options include inlet hoppers with vibratory feeders, speed switches and discharge assists for sticky products. Covers can be provided in expanded mesh, clear polycarbonate and steel sheet.

## P.E.C. CONSTRUCTION

- economical, dust containment
- fast delivery



(Covers removed for photograph)





## Monocoque Construction

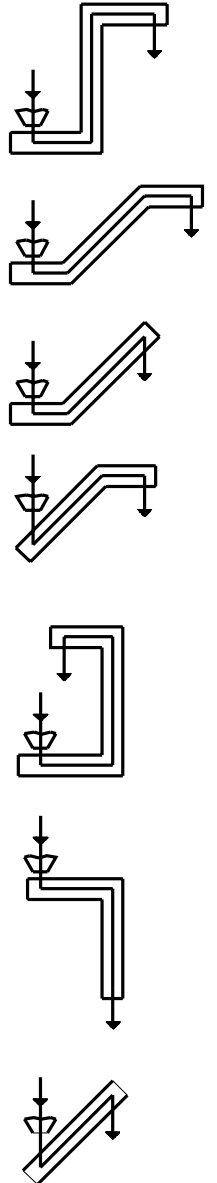
All TipTraks can't be Open or P.E.C. design. In many cases, products can be extremely dusty, explosive or corrosive, subject to contamination, hazardous to operators' health, or the product's integrity may be affected by exposure to normal atmospheric conditions. In addition, the application may be outside, or may call for gas-tight construction, for example when the product requires a purge gas. The application may also subject the unit to positive and/or negative pressure.

For these applications, UniTrak will provide a Monocoque TipTrak. The Monocoque's heavy gauge sheet metal construction has a smooth, clean interior - free of obstructions that can catch and hold product. Quick access doors are provided. Construction can be of carbon steel, stainless steel, or a combination.

## MONOCOQUE CONSTRUCTION

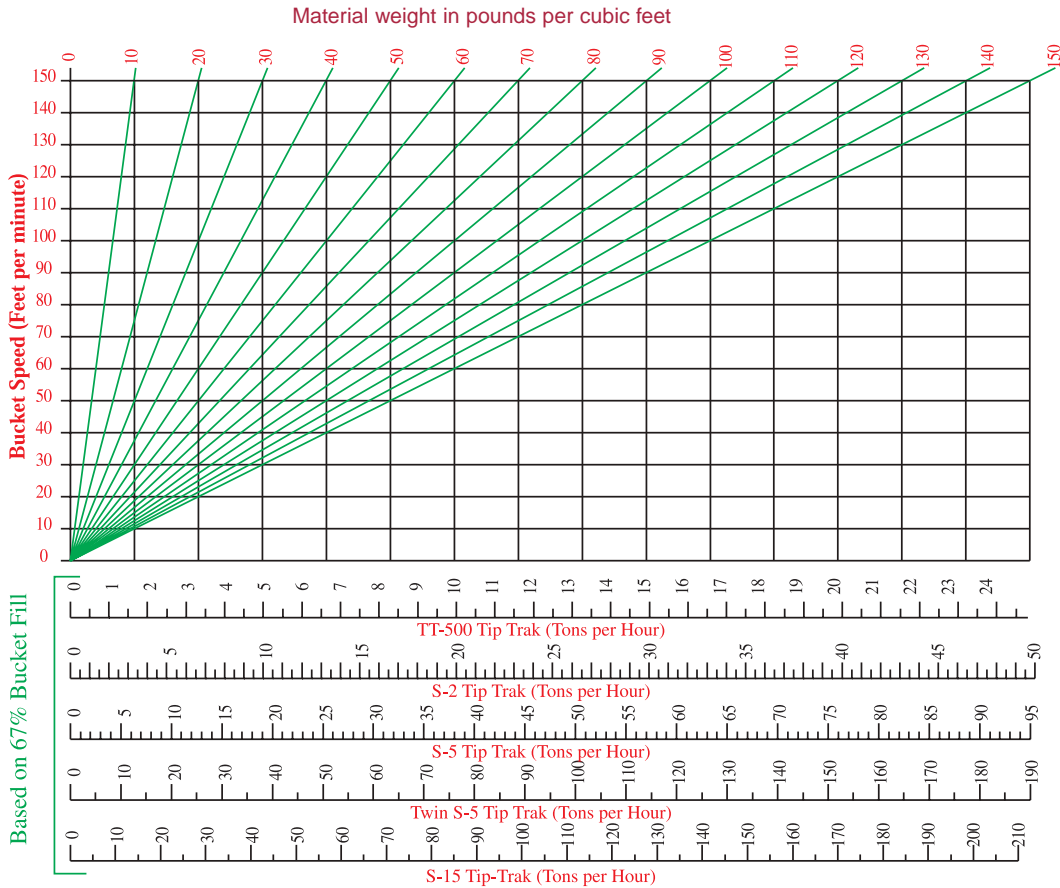
- heavy-duty
- dust-tight, air-tight
- ruggedly built for demanding applications

## Available Configurations



# TipTrak Technical Data

## TipTrak Capacity Chart



### General Design Data

	TipTrak 500	S-2	S-5	Twin S-5	S-15
Individual Bucket Capacity	30 cu. in.	122 cu. in.	305 cu. in.	610 cu. in.	915 cu. in.
** Maximum volumetric capacity at 100 ft./min. with 100% bucket fill	6 cu. ft. per min.	11 cu. ft. per min.	21 cu. ft. per min.	42 cu. ft. per min.	47 cu. ft. per min.
*** Maximum vertical lift, when horizontal distance is 0 and no load	110 ft.	110 ft.	230 ft.	230 ft.	*
Weight of bucket assemblies per foot per single run	2.6 lbs.	3.3 lbs.	5.1 lbs.	*	*
Design tensile strength of single strand of TipTrak chain	720 lbs.	720 lbs.	2400 lbs.	2400 lbs.	*
Ultimate tensile strength of single strand of TipTrak chain	3600 lbs.	3600 lbs.	6000 lbs.	6000 lbs.	*
*** Operating temperature range for standard TipTrak	0 to 200° F -18 to 98° C				*
*** Maximum operating temperature for high temperature TipTrak	350° F 177° C				*
*** Minimum operating temperature for low temperature TipTrak	-40° F -40° C				*
** Maximum bucket speed	150 feet per min.				*

#### Notes:

- \* The Twin S-5 and S-15 TipTraks are engineered to each application. Please consult field representative or factory with specific details.
- \*\* This information is given as a general indication only. Please consult field representative or factory with application details. Normal capacity recommended is 66% bucket fill.
- \*\*\* This information is nominal. Please consult field representative or factory before using.



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