

TipTrak Bucket Conveyors For Explosive Applications



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TipTrak™ bucket conveyors provide the gentlest handling, least spillage, lowest maintenance, and quietest operation of any bucket conveyor system.

In certain conveying applications, the risk of a dust explosion is a real and present danger. For an explosion to occur, three conditions need to be present: fuel (the product being handled or dust from the product); ignition; and oxygen.

To mitigate the risk of an explosion in these applications, it is critical to use conveyors that are especially designed to address the conditions which can lead to a dust explosion.

UniTrak has been providing equipment for use in explosive applications for more than 45 years. Our first explosive application project took place in 1971 at the Volunteer Ammunition Plant in Chattanooga, Tennessee, USA. In that project, a highly *customerized* TipTrak™ was supplied for the handling of TNT.

Since then, UniTrak's experience in handling explosives has grown over the years.



Explosive materials handled:

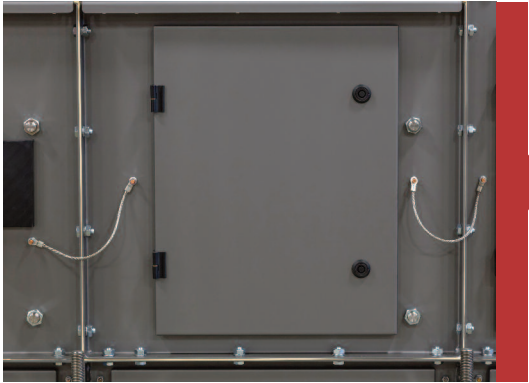
Aluminum powder	Stearic acid
Alkyl ketene dimer pastilles	Sugar
Ammonium nitrate	Sulphomium
Black powder	Sulfonamide accelerator
Carbon black	Sulfur bentonite mix
Carbon flake	Sulphur prills
Energetic Materials	Sulphur granules
Fungicide	Sulphur pellets
Naphthalene dicarboxylate	Sulphur powder
PETN powder	Sulphur pastilles
Phenolic resin	TOW grain & fuel rod
Pesticide surfactant	Tributyl phosphate (wetted TBP)
Phosphonium	Trinitrotoluene (TNT)
Propellant	Wood flour
Sodium azide	Zinc stearate flakes

QUESTIONS? PLEASE CONTACT US
SALES@UNITRAK.COM OR 1.877.864.8725 (Toll-Free)

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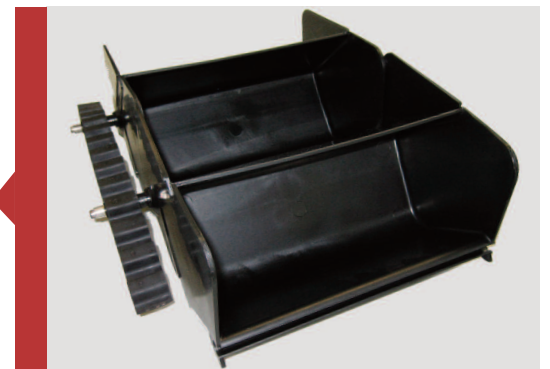
TipTrak™ bucket conveyors can be supplied to service explosive applications, including those with ATEX requirements. Here are some of the features of the TipTrak bucket conveyors for explosive environments.



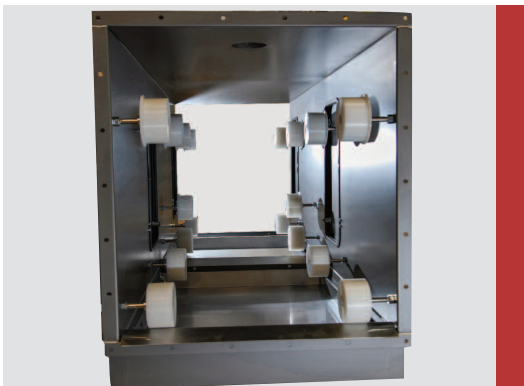
Ground studs and grounding wire. The entire TipTrak™ is grounded via welded grounding studs and ground straps on each panel of the entire frame to ensure a fully conductive path to ground, or "earthing".

Ability to operate under a nitrogen purge. The frame of a TipTrak™ conveyor is reinforced with custom-designed ribs and factory-installed nozzles to enable operation with a nitrogen purge to virtually eliminate the accumulation of any explosive atmosphere within the machine.

Conductive bucket assemblies. All TipTrak™ bucket conveyors designed for explosive applications are supplied with fully conductive bucket assemblies, which includes the buckets, joint strips and the TipTrak™ rubber *beltchain*. Our rubber chains can never create anything sparking, and our specially formulated plastic buckets and joint strips never accumulate any static charge.



Explosion proof electrical components. TipTrak™ bucket conveyors designed for explosive environments are equipped with explosion proof motors, and all other aspects of the electrical system, including speed sensors and ionizer assemblies.



No interior ledges. The interior of a TipTrak™ conveyor is free of ledges and crossbar supports where explosive dust could accumulate.

Options available. All TipTraks™ can be *customized* to suit your requirements, options such as rupture panels, explosion venting, dust collection connections and easily removable clean out drawers can be added.

TipTrak™ bucket conveyors are designed to service a wide variety of bulk material conveying applications. With over 45 years of proven performance in facilities the world over, TipTrak™ bucket conveyors provide unmatched reliability in even the most demanding applications. TipTrak™ bucket conveyors are available in a wide range of constructions, sizes, and configurations, and every unit can be precisely customized for your application.