

ARMORBELT

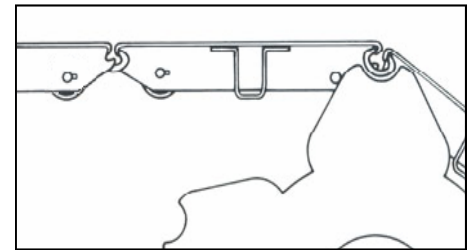
About the Armorbelt

The belt is smooth, hard zinc-coated steel which resists damage from strapping, projecting nails, oil, solvents, impact, heat, or cold. The bright reflective surface is ideal for infrared oven conveying. Freedom from rust means no product discoloration. It's smooth surface permits easy loading, unloading, indexing, or backing up of packages. Reinforced belt construction imparts high rigidity with low weight. Belt links snap together rapidly without tools. The patented chainless design is the strongest sectional belt available. Its greater pivot surface practically eliminates wear. Hardened steel ball-bearing rollers running on a smooth steel track keep horsepower to an unbelievably low level. Any combination of horizontal, inclined, and vertical paths is possible in a one piece conveyor. Belt joint stays tight around end sprockets for maximum safety. Narrow depth and standard 10' long frame spacing are ideal for production line conveyors. Jigs fastened to the belt make it a moving production line. Optional outlets mounted on the belt permit conveyorized testing. The positive sprocket drive assures exact speed synchronization and permits automatic holdback on inclined and vertical conveyors. An automatic take up compensates for heat expansion in ovens.

Installation and maintenance costs are minimized by the rapid belt assembly, one piece frame in 10' sections, fully adjustable legs with floor lagging pads, grease-sealed ball bearings, easy replacement of damaged belt links. No need to worry about belt tracking - the belt does not stretch, is not affected by humidity, and is not pushed out of line by loading from the side or uneven load distribution.

Characteristics

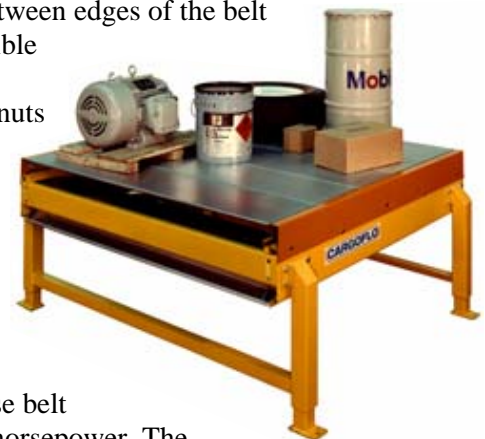
- Slats offered in zinc-coated steel, stainless steel, and extruded aluminum
- Optional: Cover materials, weldnuts, and slat attachments
- Smooth, hard, low friction surface
- Self Tracking
- Resists oil and solvents, and wipes clean
- Withstands extreme heat, cold
- Will not cut, tear, stretch
- High load capacity
- Low power requirements
- Rapid assembly
- Unitized for easy alteration
- Compact, totally enclosed
- Automatic takeup
- Concave and convex vertical



Armorbelt has a much simpler, stronger and longer wearing joint than other types of production conveyors. The belt is its own chain. The slats are links which are flexibly joined by strong full width "C"-shaped connectors. This eliminates the need for conventional chain pins, bushings, spacers and side plates and saves space and expense.

Applications

- **Oven Conveying-** The zinc coated steel belt or stainless steel belt allows Armorbelt to be used as an oven conveyor up to 350°, and the bright reflective surface of the belts is ideal for infrared or conventional ovens. Armorbelt also offers a perforated steel belt for even heating of all surfaces. The conveyor frame can also act as a plenum for internal process heating.
- **Cooling Conveyor-** Armorbelt's unique design allows it to go straight out of the oven and into the freezer without harming the steel belts or losing belt tension.
- **Drying Conveyor-** Armorbelt is the ideal drying conveyor with a smooth, hard metal surface, rounded slat joints, the minimal clearance of only .030" between slats, and .075" minimal clearance between edges of the belt and conveyor frame. You also have the ability to seal the belt joints with a flexible material. After use, the hard metal surfaces are easily washed or scraped clean.
- **Material Handling-** It has the ability to move objects ranging from individual nuts and bolts to 55 gallon drums, and is also effective at transporting odd shaped packages. The hard steel belt has a clean, smooth surface that allows easy loading and unloading of these packages without concern of damaging the belt.
- **Production, Assembly, and Test Operations-** The steel belt allows fixtures to be bolted or welded directly to the belt. Indexing is also available.



Carries ounces to tons.

Design Advantages

Ball Bearing Rollers Enable Heavy Loads

A heavy load capacity is provided by the use of Ball Bearing Belt Rollers. These belt rollers allow 4 times the load capacity of a standard belt conveyor of the same horsepower. The ball bearing rollers have an optional automatic lubrication feature for extreme duty processing.

Light Weight Steel Belts

Light weight zinc coated or stainless steel belt links are strong and provide high load capacity, long life, and flexible, tight joints. The belt slats have a smooth, hard, low friction surface for easy on/off loading.