



SKY TECH AUTOMATION & ROBOTICS

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ASSEMBLY CONVEYOR FOR WIRING HARNESS



SPECIFICATION:-

| | |
|---------------------|----------------------|
| Usage / Application | Automotive Industry |
| Material | MS |
| Automation Grade | PLC based automation |
| Design | Chain Conveyor |
| Brand | Sky tech Automation |
| Board Length | 10-20 Feet |
| Operating Speed | 1-2m/s |



DESCRIPTION-

Our Wiring Harness Assembly Conveyor provide efficient online assembly systems for all sizes of Wiring Harness Assembly. These conveyors can be customized for a wide range & size of Wiring Harness Assemblies ranging from Wiring Harness for Automobiles, Wiring Harness for Two Wheelers, Four Wheelers, Electric Vehicle. The board size can be customized from a few sq feet to a few sq. meters depending on the size of the fixtures. Our conveyors provide efficient assembly solutions for Wiring Harness Systems Integrators.

FEATURES:-

- Smooth & Quiet running.
- Trouble free operation
- Simple & sturdy construction.
- Modular frames & Bolted Construction for easy Changes.
- Occupies less space as Sprockets are small & trolleys are closer to Chain. Also trolleys are closer to each other.
- Standardization of Drive Unit, Control Panel & Bolted Construction makes it easy & economical to add /Reduce Trolleys as & when required.
- User friendly Provisions such as Automatic speed setting, Cord switches to stop conveyor, Advance alarm before stop, Indication Lamps, Indication on HMI etc.
- Minimum Maintenance by virtue of simple Design & standard Parts.
- LED TV provide for advanced conveyor for visible of target easily.
- Easy maintenance facilitated by PLC



TYPES OF HARNESS CONVEYOR

- 1) ON FLOOR
- 2) ON METALIC BASE
- 3) HANGING TYPE
- 4) FLIP TYPE / TRANSVERSE TYPE CONVEYOR
- 5) FLAT BELT TYPE / LIFTING TYPE CONVEYOR

1) CONVEYOR ON FLOOR:-

- Traditional floor-type wire harness assembly lines offer a sturdy and simple design for a wide range of applications. Work boards are placed on the trolleys. Driven by a frequency controlled motor and conveyor chain, the trolleys move along the floor at a set speed. As each trolley reaches the end of the line, it travels in an arc to the other side. Operation continues in this fashion.
- Wire harness assembly line moves continuously
- Compact structure for small footprint and easy maintenance
- Adjustable work board angle
- The quantity and size of the work board holders are customer specific



2) CONVEYOR ON METALIC BASE:-

- An new and advanced design
- Access all new futures
- Sturdy structure
- Allows for smooth & vibration free movements of carriages.
- Permits easy shifting of conveyors.
- Prevents damage to floor.
- Allows for ease of housekeeping.
- Prevents accidental trapping of foot beneath trolley wheels.



3) CONVEYOR ON HANGING TYPE:-

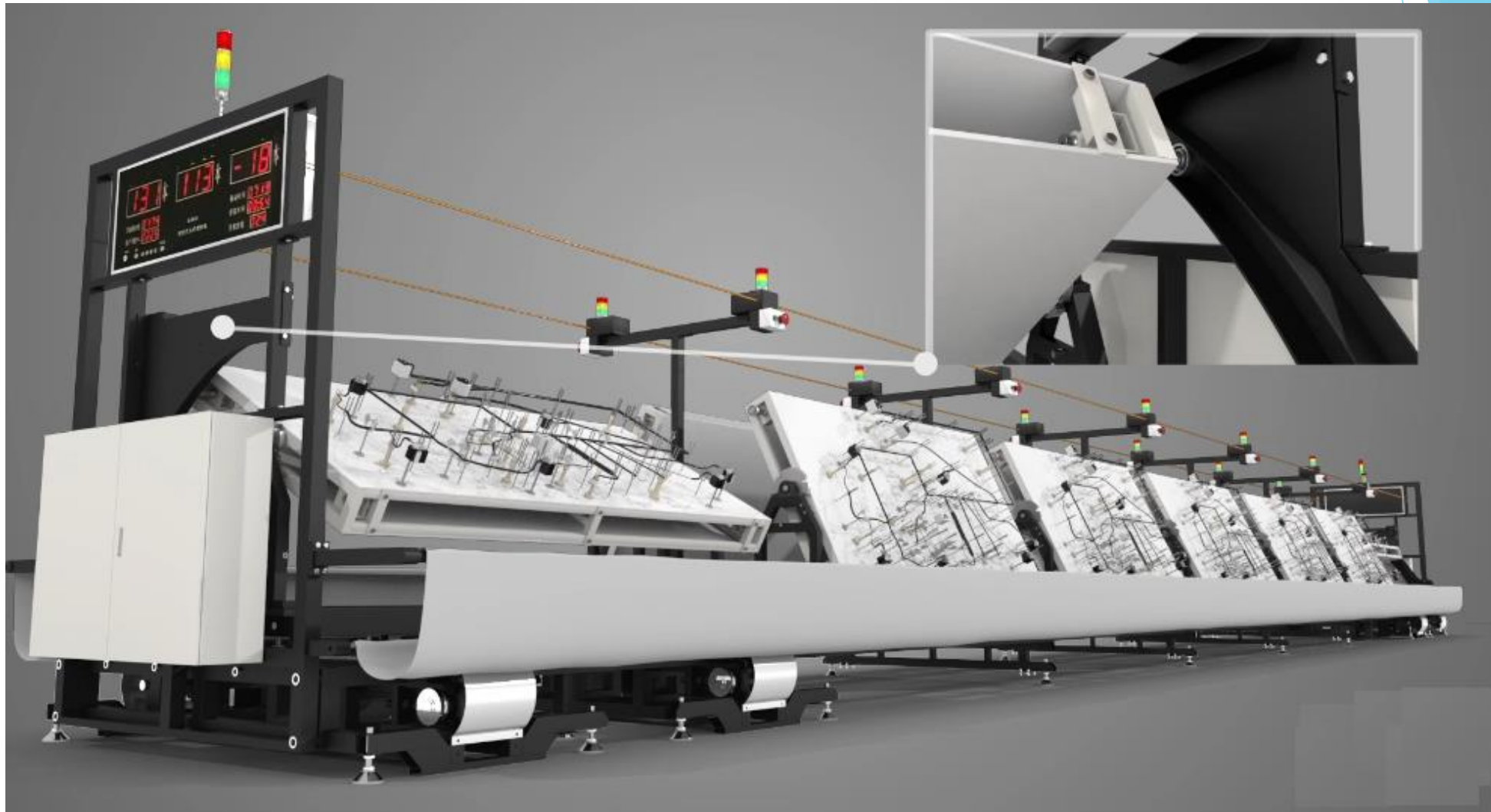
- Allows for smooth & vibration free movements of carriages.
- Permits easy shifting of conveyors.
- Floor covered area less than other conveyor.
- Total board are hanging on the platform.



4) FLIP TYPE / TRANSVERSE TYPE CONVEYOR:-

- Transverse-Type wire harness assembly lines save floor space and improve safety by eliminating the wide swing area at the ends of traditional “rotary style” assembly lines.
 - Driven by a frequency converter controlled motor, the work boards on each side of the assembly line move in a straight line before reaching the position of transverse linear movement. At this point the work boards at each end of the assembly line move from one side to the other and then continue in a straight line again to complete the cycle.
 - The optional double sided harness board allows both sides of the board to be utilized for production. This results in higher production rates and provides the opportunity for two different types of harnesses to be produced on a single assembly line.
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- Work boards transverse at each end of the assembly line, saving floor space
 - The quantity and size of the work board holders are customer specific
 - Both single and double sided work board versions are available
 - A simple user interface allows customers to set the line speed and keep track of the production rate

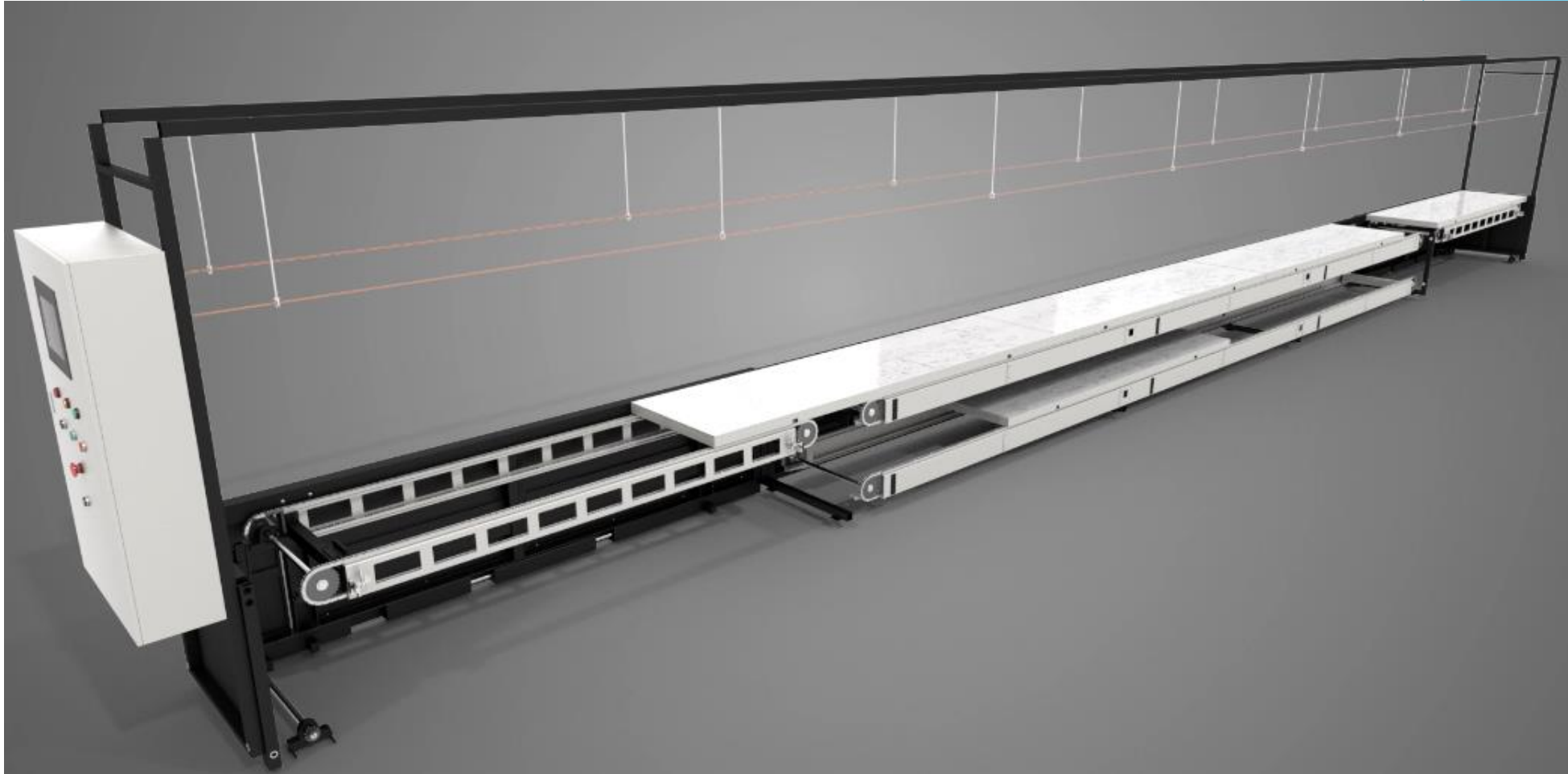
FLIP TYPE / TRANSVERSE TYPE CONVEYOR



5) FLAT BELT TYPE / LIFTING TYPE CONVEYOR:-

- Horizontal or lifting-type assembly lines offer a stable and efficient platform for wire harness assembly. It offers a small footprint with operator access from both sides of the line saving valuable floor space and improving productivity.
 - The lifting-type assembly line is divided into upper and lower levels. The upper level is the production surface for wire harness processing and the lower level is for standby work boards. The machine operating concept is simple. Each work board moves horizontally along the top level until it reaches the end station. At that point, an elevator moves it to the lower level while an elevator on the other end of the line moves a work board from the lower level to the upper level. Operation continues in this fashion.
- Compact structure occupies less floor space
 - Low energy consumption and quiet operation
 - Smooth and stable movement of work boards
 - Two level design improves productivity

FLAT BELT TYPE / LIFTING TYPE CONVEYOR



SPARES:-



CASTOR WHEEL



DIAMOND CHAIN



LOVE JAW COUPLING



WHEEL



E STOP



INDICATION



RED & YELLOW LAMP



ROTARY LAMP



ROTARY LAMP



GEAR BOX UNIT



STAR KNOB



PENDENT BOX