

# Solution Guide



uni XLB K318  
Straight Running Belt

- Industry > **Automotive, Cross Skid Conveyors**
- Application > **Automotive Skid Cross Transfer**
- Description > **Convey an auto body mounted to a skid**

Car bodies are transported as assembly progresses in the body and paint shops mounted to a skids. These skids generally travel parallel or in line with the conveyor. Sometimes it is necessary to transfer across perpendicular to the line of travel. This is called a cross skid conveyor.



Skid Conveyor

## Problems

- > **Problem 1**  
Traditionally this type of conveyor uses heavy steel chain or rubber belting. When a skid runs against the conveyor stops for alignment the chain would have to slide under the skid. This would cause sever wear and damage to the skids, eventually requiring costly repair maintenance.
- > **Problem 2**  
Rubber belts wear and stretch unevenly causing the skid to badly skew across the conveyor. When this gets bad enough the belt slides out from under the skid causing it to fall of the conveyor.
- > **Problem 3**  
Metal roller chain requires periodic lubrication and maintenance.
- > **Problem 4**  
Metal roller chain has a large pitch usually 150 mm (6 in.) and requires large sprockets.
- > **Problem 5**  
Rubber belt are fixed lengths and specialized processing is required to change its' length.
- > **Problem 6**  
Spare rubber belts require the full length and splicing.

## Solutions

- > **Solution 1**  
uni-chains can supply a heavy duty plastic chain, our uni XLB that can replace the steel chain. Made from plastic it does not wear on the skid the same way. With more surface and less pressure it does not cut into the skids reducing repair cost dramatically.
- > **Solution 2**  
uni-chains XLB is driven with a sprocket, will not slip and runs in a UHMW track making it difficult for it to slide out from under the skid. Line stoppages due to skids coming off the cross skid conveyor is eliminated.
- > **Solution 3**  
uni XLB and UHMW wear strip does not.
- > **Solution 4**  
uni XLB has a 2.5 in. pitch uses a smaller sprocket reducing the overall height of the conveyor.
- > **Solution 5**  
Modular design with simple construction components do not require specialized trades to vary its' length.
- > **Solution 6**  
Modular belts can be constructed out of components that are easy to assemble. Partial reconstruction is also possible.