Melco manufactures a large variety of conveyor idler frames, according to conveyor design standards such as SANS 1313, PROK, DIN or other. Belt widths range from 450 mm to 2400 mm or more.

Frame configuration can be as per standards or customized to meet client specific needs. Frames are engineered to ensure deflection and load limitation, optimal price and ease of use.

Frames are manufactured in dedicated factories, using advanced machinery such as plasma cutters, bend press brake and robotic welding machines, to ensure high quality products in large volumes.

### Solutions for loading zones.
Charging of common service areas, loading areas and skirted areas may be limited according to conveyor design and needs. Frames are manufactured using straight cross members which are replaced before sliding the frame back into place.

### Typical Idler Configurations

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<th>Typical Uses</th>
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### Undergraduate modular conveyor structure.

Multiple conveyor sections can be made up by stringing together sections typically in gold, platinum and so forth. The modules can be supplied as roof mounted or floor mounted.

### Stringers

Steel tube or channel sectioned. Suitable lengths vary typically from 3000 mm to 4500 mm. Steel stringers with extendable legs for adjustment on uneven flooring. Can be fitted with flat or domed brackets.

### Idlers

Can be supplied as fixed frame or garland type.

### Impact Beds

In order to limit belt damage due to impact, angled rollers are used. These roller idlers are often employed on both trough and carry rollers.

### Belt Saver Troughing Idler frames

The Belt Saver tubular cross members available in an offset configuration. This uses a belt rider, which ranges from typically 63 mm x 5 mm to 89 mm x 5 mm wide.

### Tubular and Angle Sections

**Tubular Straight Cross Members**

The cross members on idler frames are a critical part of the design and contribute to the cost of frame. The load applied to the frame results in stress and deflection which must both be tested according to conveyor design and evaluation.

Typically, idler frames are manufactured using tubular straight cross members.

**Charging these sections to tubular will result in a mass and cost saving.** Applied loading and 12 values will determine the most optimal sections. Changing these sections to tubular will result in a mass and cost saving. Applied loading and 12 values will determine the most optimal section.

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