

Self-aligning Beltsiflex belts:

As a result of our continuing research and development to offer innovative and improved products, **Siban** presents a new series of conveyor belts to enhance the successful range of **Beltsiflex** products.

This new type of conveyor belt offers inherent and continuous self-alignment without having to modify the conveyor or running gear and above all without installing expensive equipment and additional accessories to correct belt tracking problems.



Why use this new type of **Beltsiflex** conveyor belt on your conveyors?

The main problem that most conveyor systems must face is the misalignment (often called tracking) of the conveyor belt, when the belt runs off to one side.

This misalignment brings a number of undesirable consequences such as:

- a) Obstruction of the entire conveyor system due to continuous spillage of material.
- b) Prolonged spillage of the material results in reduced conveyor efficiency through belt damage, damage to mechanical components and increased friction and thus negatively affects production.
- c) The deterioration usually of the edges of the belt that eventually reduce belt life time.



The solution that **Siban** offers, in the range of **Beltsiflex** products is:

A conveyor belt based on a design that combines a number of plies with different grades of elasticity and different mechanical properties between the centre section and the belt edges. This difference of flexibility between the centre and the edge of the belt enables the belt to perform as a self-aligning conveyor belt.



This new type of **Beltsiflex** belt is appropriate for the following facilities:

- a)** All industrial applications e.g. Port facilities, mines, foundries, chemical plants, steel plants, cement plants, power generation, minerals processing facilities, quarries etc ...
- b)** Conveyors with unequally distributed loading, for example where conveyors are not loaded centrally, are part loaded or overloaded at the sides for example due to frequent surges in feed rate.

The use of this new type of **Beltsiflex** conveyor belt has a number of advantages:

- a)** Increase of stability along the entire length belt, eliminating the risk of misalignment and thus preventing the early deterioration of the edges of the belt, ensuring greater belt life is achieved.
- b)** Drastic reduction in friction problems with non-moving part of the structure which means less wear in the entire belt and increases the working life of the belt and the conveyor structure.
- c)** By reducing friction between the belt, conveyor structure and spilled material the required power to drive the conveyor is also reduced proportionally. In some cases, it may be possible to reduce drive motor size thereby significantly increasing the overall conveyor performance.
- d)** It can offer increased production due to the increased stability in the central zone the reduced wandering of the belt brings reduced spillage of material. It also offers the possibility to increase the troughing angle as the belt is more flexible at the edges, offering increased conveying capacity.
- e)** This opportunity to work with higher troughing angles (above 45°) in certain cases can reach troughing angles close to 90°
- f)** The conveyor belt is equally suited to all applications where a standard conveyor belt is used on a traditional flat or troughed belt conveyor, irrespective of conveyor incline, convex or concave catenary curves.



For any technical clarification or any questions in relation on the commercial qualities, covers, lengths, widths or tensile ratings available, please make contact with your nearest **Beltsiflex** distributor.

