

# DSI SANDWICH SHOP

## SEMI-AUTOMATIC TAKE-UP



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Conveyors with relatively short belts are often designed with manual screw take-ups. These are low in cost and can work well for applications in which there is not a great deal of belt stretch, or where a consistent tension is not crucial. On the simplest of systems, a manual take-up may require only monthly checks to ensure the belt is properly tensioned. However, many conveyors are subject to greater variation and require a more reliable tension value. With a manual take-up, maintaining the tension may demand much more frequent checks by personnel whose time is better spent elsewhere.

### THE SEMI-AUTOMATIC TAKE-UP



DSI developed the Semi-Automatic Take-Up initially for use on the smaller variations of the DSI Sandwich belt high angle conveyor. Consistent tensions are extremely important on these units, and these are typically maintained by hydraulic take-up units. With smaller units however, it made sense to develop a solution which would incorporate the manual take-ups more suited to short centered conveyors.

The Semi-Automatic Take-Up appears quite similar to the standard manual take-up at first glance. The difference is that the entire take-up assembly is free to slide back and forth along the path of the take-up. As the belt is tensioned, the take-up force is countered by a known spring force, which facilitates a displacement-based tension reading.

### UPGRADE OF EXISTING SYSTEMS

Existing systems, as well as new, can enjoy the benefits of the DSI Semi-Automatic Take-Up. As the design is not drastically different from the existing manual arrangement, field modifications are not extremely difficult, allowing an upgrade during a scheduled shutdown.

While it was developed for the Dos Santos Sandwich belt requirement, DSI Semi-Automatic Take-Ups are equally valuable in conventional conveyor applications. Consider one for your application today!

**CALL THE EXPERTS TODAY!**

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