



Company News

## **Dos Santos International starts up additional Sandwich Conveyor for Paris Tunneling Project**

Edited by on 14. Sep. 2018  
*Marietta (GA), United States -*



The DSI Sandwich belt high angle conveyor will elevate 800 t/h of tunnel muck at a 90° angle.

Accordingly, DSI designed a system with a high degree of versatility – particularly extendibility. With all the drive and take up equipment located at the head end, DSI designed the vertical portion as a hanging structure which can be extended

as necessary for higher lifts at future applications. The two conveyor designs at the two sites in Paris are nearly identical, with only a small difference in the length of the vertical portion. DSI designed both conveyors for the possibility of increasing the lift to 40-45m. The two conveyors in Paris have vertical lifts of 24.6m and 26.3m respectively and can be used for any intermediate height up to 45m. This makes them very versatile for use at future sites. Generally, and particularly in tunneling projects, a recurring challenge is to accomplish the sandwiched, curved transition from the low conventional loading angle, up to the, typically vertical, high angle in the tightest space, while conforming to the vertical radius of curvature constraints of troughed belts. This is something DSI understands very well. Often, others offer transition curves that are too tight resulting in premature failure of the belt due to edge overstress and material spillage due to the belt's relaxation at the middle. Dos Santos International has proven they can always solve these problems without compromising the technology, performance and belt life.





DSI GPS is able to elevate material economically, at high volumetric rates in limited vault space.

The DSI Sandwich high angle conveyor continues to be the optimal choice for tunneling. DSI Sandwich belt high angle conveyors take on many forms and offer many advantages. Each DSI Sandwich Conveyor uses two standard, smooth-surfaced conveyor belts, face-to-face, to gently but firmly hug the product being

carried. This not only makes steep angles possible; it also offers a spillage free, environmentally sound operation because the material remains secured between the belts. In this instance, the wet muck can be continuously scraped from the belts eliminating carry back. The use of all conventional conveyor parts ensures high availability and low maintenance costs, as well as interchangeability of components and fast delivery of replacement parts. Dos Santos International is the world's foremost authority on sandwich belt high angle conveyors, founded and led by the inventor of the system, Joseph Dos Santos. DSI was founded on its extensive worldwide experience in sales, engineering, and construction of bulk materials handling systems and equipment. This has included major contributions that have expanded the range of bulk handling and transport solutions. Most notably, advances in sandwich belt high angle conveyors have led to their worldwide utilization. The expertise of DSI spans a wide range of materials handling systems and equipment including high angle conveyors, high powered, high capacity, high lift slope conveyors and long overland conveyors utilizing the very latest technology.