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HOW DOES A SANDWICH BELT CONVEYOR WORK?

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THE HISTORY OF THE SANDWICH BELT CONVEYOR

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COMPANY BACKGROUND

Dos Santos International is founded on 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, the invention of owner and President, Joseph A. Dos Santos, have led to their worldwide utilization. The company's expertise spans a wide range of materials handling systems and equipment.

Consulting and engineering services are offered for the wide range of materials handling systems and equipment. Dos Santos International also offers discipline oriented engineering services in mechanical and structural engineering.

Dos Santos International is a family owned company. Founded in 1997, DSI moved its offices from Winfield, AL USA to Marietta, GA USA in 2007 upon the partnership of father Joe and son Marc. Marietta is located outside the greater Atlanta area. Besides their in house engineering staff, DSI maintains many dedicated and knowledgeable representatives around the world.

Built on over 40 years of experience, Dos Santos International approaches the future with a positive outlook. DSI is eager to provide optimal, modern, cost saving solutions to their worldwide customers.

PRODUCTS & SERVICES



HIGH ANGLE CONVEYORS

In 1979, Joe Dos Santos undertook a major study to develop a means of moving and elevating large quantities of bulk materials, including coarse products such as rocks, aggregate, coal, etc. at the steepest possible inclines. It was also his intent to use only existing and commercially available hardware in order to achieve the most economically feasible and easily maintained high angle conveyor design.

Joe conceived, researched and developed his sandwich belt design, with the help of a grant from the U.S. Bureau of Mines, while he was employed by a major American manufacturer of materials handling equipment. While such concepts had been tried over the years with mixed results, Dos Santos investigated & analyzed the many forces generated in this seemingly simple concept, and created the formulas which guaranteed the

successful design of such equipment. The DSI Snake Sandwich Conveyor represents the ultimate achievement of this aim.

A sandwich belt conveyor uses two conveyor belts, face-to-face, to gently but firmly contain the product being carried, hence making steep incline and even vertical-lift runs easily achievable. Sandwich belt high angle conveyors are available in widely ranging profiles of C and S-shape.

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20 YEARS
1997-2017

BACKGROUND & EXPERTISE

Our company was founded on 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 company's expertise spans a wide range of bulk materials handling systems and equipment including:

- High angle conveyors.
- High powered, high capacity, high lift slope conveyors and long overland conveyors utilizing the latest technology.
- Plant conveyors, feeders, trippers and related equipment.
- Continuous open pit mining equipment and haulage systems utilizing the latest technology.
- Plant conveyors, feeders, trippers and related equipment.
- Continuous open pit mining equipment and haulage systems utilizing bucket wheel excavators, beltconveyors, face, connecting and spoil conveyors, spoils side and/or cross-pit spreaders.
- Yard and dock handling systems and equipment, stationary and rail mounted-mobile including:
 - Stackers and reclaimers
 - Ship and barge loaders
 - Continuous barge unloaders

THE GREATER THE LOAD
THE HIGHER THE LIFT
THE BETTER WE LOOK



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DOS SANTOS
INTERNATIONAL

MATERIALS HANDLING & ENGINEERING SPECIALISTS



OVERLAND, HIGH LIFT & HIGH CAPACITY CONVEYORS

We offer conventional conveying systems with simple or complex profiles. From high capacity and high-lift systems to horizontally curved, our conveyor systems will exploit the latest in equipment and technology to deliver optimal solutions.

Our overland conveyor projects have featured both intermediate "booster" drives - the fixed tripper type, as well as the belt-on-belt type. These have been effective in achieving great transport length with belts of only modest strength. "Booster" drives also allow us to control belt tension facilitating horizontal curves with minimal belt wander.



ENERGY & POWER



STEEL



CONSULTING & ENGINEERING

We offer consulting and engineering services for a wide range of materials handling systems and equipment. Our mechanical and structural engineering expertise may also be applied to projects such as:

- Technical and economic studies and evaluations
- New systems
- Upgrade of existing systems
- Plant modifications and field assistance



MINING



PAPER & PULP



EXPANDED CONVEYOR TECHNOLOGY

At DSI we have developed the "Expanded Conveyor Technology" software, otherwise known as ExConTec. This is a comprehensive analysis approach extending the conventional conveyor technology beyond its currently perceived limits.

This in-house analytical computer software facilitates complete belt tension and power analysis of the most complicated conveyor systems under steady state running, starting, stopping and other transient conditions.



PORT & HARBOR



WATER & WASTE

INDUSTRIES SERVED



DOS SANTOS SANDWICH BELT HIGH ANGLE CONVEYOR TECHNOLOGY

FREQUENTLY ASKED QUESTIONS

1. Is this a new technology?

No, the sandwich belt high angle conveyor is not a new technology. In fact, the actual development of the sandwich belt high angle conveyor technology by J.A. Dos Santos, founder of Dos Santos International, occurred between 1979 and 1982. During this period Dos Santos developed several variations of the system including the Sandwich Belt High Angle Conveyor and a mechanically pressed system using fully equalized

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[Sandwich Conveyors vs Bucket Elevators and Pocket Belts](#)

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