



# DSI OVERLAND CONVEYORS

## BACKGROUND AND QUALIFICATIONS

Dos Santos International, LLC is well qualified to engineer and supply the most complicated high powered high-tech conveyors systems. We have extensive experience in analysis and design of high-tech conveyors of all types, utilizing our **ExConTec** proprietary analysis program. The writer's work has included engineering, supply, commissioning, and field testing and monitoring of new and existing complex slope belts, overland and downhill conveyor systems throughout North America, South America and in Europe. These have featured:

- Decisively regenerative drives with backup braking systems
- Flywheels with braking
- Booster drives, of the tripper type as well as the belt-on-belt type, with and without belt tension feedback and control
- Two-way conveying (carrying material on both the upper and return belt strands) with;
- Multiple horizontal and vertical curves

We are pleased to attach select tables and fliers that highlight the DSI capability:

1. Flier; DSI **ExConTec** Expanded Conveyor Technology (DSI in-house proprietary analysis program)
2. Table; DSI **ExConTec** Projects list (since 1998)
3. Table; J. A. Dos Santos Conveyor Projects (pre 1998)
4. Flier; DSI **ExConTec** at USM (Overland Conveyor System)
5. Flier; DSI **ExConTec** at Essroc (Two-Way Conveyor)
6. Flier; DSI **ExConTec** at TECO (Dock Conveyor with Tripper)
7. Flier; DSI **ExConTec** at Los Filos Overland Conveyor System

We look forward to the opportunity to discuss with you in detail the various installations listed and described and their relevance to your particular project.



## **PIPE CONVEYORS BY TEAM DOS SANTOS INTERNATIONAL & LOEFFLER ENGINEERING**

Like many past innovations Pipe Conveyors are now a mature technology that is well understood with its equipment well standardized. The belt's pipe forming and load support characteristics are well understood and tabulated by the belt manufacturers. Hex idlers and mounting plenums are standard products of the idler manufacturers. Pursuant to the CEMA (Conveyor Equipment Manufacturers Association) guidelines the **DSI ExConTec** is ideally suited for the complex power and tension analysis of the pipe conveyor belt line. It breaks down the components of the travel resistances into their very basic parts and reconstitutes them into aggregate resistances that reflect the increased number of bearings and seals, the imprint and shearing resistances that add the pipe forming (crowding) roll loads to the radial loads around the profile and horizontal curves and to the gravitational loads.

Following our policy of cooperation with notable innovators and, our long standing relationship, we have teamed up with Loeffler Engineering of Lago Vista, Texas, USA, in offering the engineering and supply of Pipe Conveyor overland conveying systems. Loeffler Engineering contributes to the team unparalleled experience and expertise in the Pipe Conveyor technology, dating back to its early development.

Armed with a deep understanding of the conveyor technology, unparalleled in-house analytical tools and the support of the belting and equipment manufacturers the Dos Santos International and Loeffler Engineering Team has offered and continues to offer both high-tech engineering and consulting services and the engineering and supply of the most complex pipe conveyors to the industry.