

# BSG

## BELT STEERING GEAR

Misalignment or tracking of conveyor belts can lead to material spillage, edge damage, and structural component damages. EMSYS Belt Steering Gear (BSG) utilizes actuators on each side of the conveyor to determine the belts' position and uses a hydraulic cylinder to turn idlers to steer the belt back to its correct position.

The system is fully self-sufficient with one idler containing a generator for the steering and the other idler having internal battery storage and provisioning the power. For wide, heavier, overland conveyors, the steering mechanism can steer idler sets both in front and behind of the system to apply even greater steering force.

The unit can be installed at any point in the conveyor belt layout and can be used on either the carry or return sides. With the PLC capabilities, the alignment data and actuator control can be viewed remotely by via an application and/or integrated into existing site communication infrastructure.

The BSG sends application alerts to smart phones and tablets and the belt steering can be controlled remotely. The position of the belt and data around the tracking are displayed graphically and viewable remotely in real-time via the application.

The BSG has an IP-65 rating, and is UL and CE approved.

## FEATURES:

- Exceptional Performance – Self Contained Power source delivers more steering force than any product on the market
- Individual Component replacement – All components are replaceable, the unit is not a consumable item
- Easily functions in all conditions – Both wet and dry conveyor belts,
- Easy Installation – Installs easily, at any point on the conveyor, carry side or return side
- Performs on Reversible Conveyor belts
- Remote Operation - The belt position can be viewed graphically and in real time video if equipped.
- Centrally Monitored - can be connected to a central control room and provide alerts or stop the belt if excessive tracking is detected.
- Expandable -On larger heavier conveyor the BSG can be expanded to move turn able idler frames for additional force.

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Shaw Almex  
Mining Equip. (Tianjin) Co. Ltd.  
☎ +86 (22) 2388-9075

PT. Shaw Almex  
Indonesia  
☎ +61 488 780243

Shaw Almex  
Pacific Pty Ltd. Qld  
☎ 61 7 4774 2011

Shaw Almex  
Pacific Pty Ltd. WA  
☎ 61 8 9358 5860

Shaw Almex  
India PVT. Ltd.  
☎ 91-129-2274624

 **ALMEX**  
GROUP  
www.almex.com 1.800.977.5423