

MARTIN® S-CLASS™ Air-Supported Conveyor System



Form No. L3726-1/06

TECHNICAL DATA



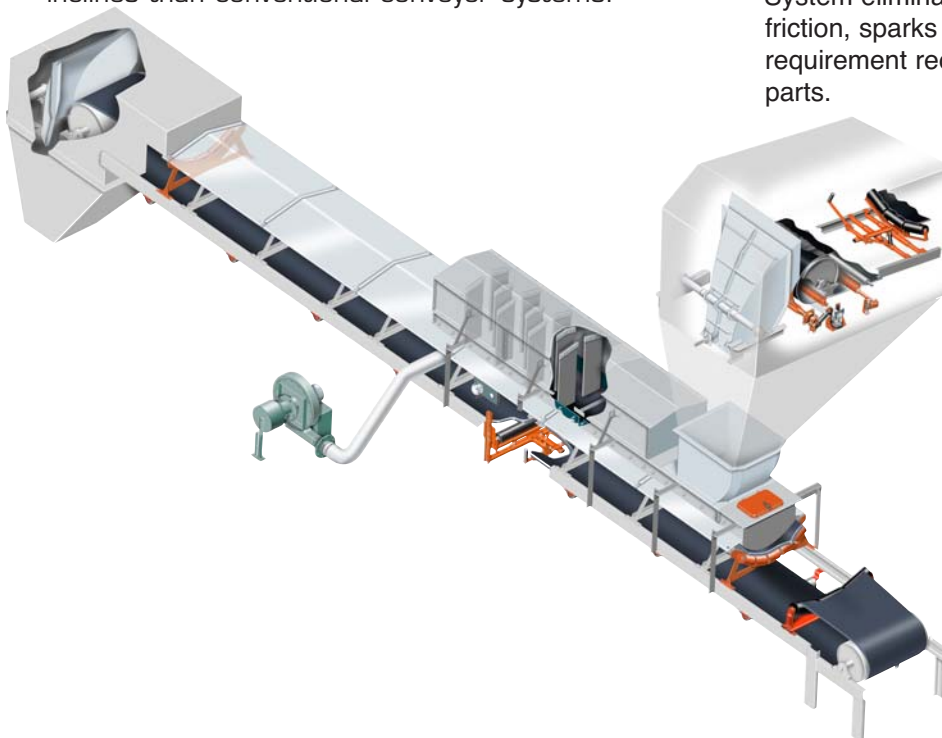
Solve the problems of conventional belt conveyors with the [MARTIN® S-CLASS™ Air-Supported Conveyor System](#). This unique system replaces rolling idlers with a layer of air released in a trough below the loaded conveyor belts. Air support reduces friction, power consumption, maintenance costs, fugitive material and other troublesome conveyor problems.

Applications

- **A Proven Technology**
MARTIN® S-CLASS™ Air-Supported Conveyor System is employed around the world in applications on a variety of materials including crushed coal, cement/clinker, precious metals mining, wood chips and grain.
- **Retrofits Existing Conveyors**
Modular system allows replacement of sections of existing conveyors. Patented design fits CEMA-standard conveyor construction.
- **Benefits for New Conveyor Systems**
On new construction, air-supported conveyors are engineered to suit the requirements of the project. Benefits include longer spans and higher inclines than conventional conveyor systems.

Benefits

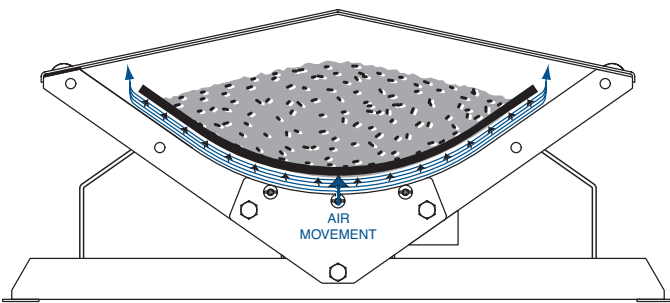
- **No Idlers, Low Maintenance**
Air-supported system eliminates maintenance headaches like idler lubrication and belt alignment.
- **Low Air Use, Reduced Drive Power**
No compressor required. Up to 600 feet (180 m) of conveyor are supported by a single low-power centrifugal fan. Low system friction can reduce overall drive power requirement as much as 30% on a horizontal conveyor.
- **Prevents Fugitive Material**
Fully-enclosed system prevents escape of dust. Stable belt path in trough eliminates “roller coaster” ride for material that leads to dust and spillage.
- **Improved Conveyor Safety**
System eliminates idlers and pinch points; reduces friction, sparks and heat. Low maintenance requirement reduces personnel exposure to moving parts.



- **Systems to Meet Your Needs**
Engineered to meet your needs, the flexible system allows for incorporation of vertical curves, belt scales, fire suppression systems and other requirements
- **GUARANTEED PERFORMANCE**
Systems engineered and installed by Martin Engineering Services Group, LLC are covered by Martin Engineering's *Absolutely, Positively, No Excuses* Guarantee.

System Specifications

Trough Angle	35°
Belt Widths	12 to 72 inches (300 to 1800 mm)
Length	Up to 600 ft (180 m) from a single fan; Multiple fans allow unlimited length, including overland conveyors.
Fan Size	3 to 15 HP (2,2 to 11kW) depending on length and width
Load Capacity	200 lbs per square foot (976 kg/m²) of belt
Return Side	Can use air support or conventional return rollers
Requirements	Vulcanized belt splice Minimal loading impact (use "spoon" loading chute)



Notes:

The MARTIN® S-CLASS™ Air-Supported Conveyor System is particularly suited for use in combination with MARTIN® INERTIAL FLOW™ Transfer Chutes.

For more information, see Martin Engineering's Belt Conveying Technologies brochure (Form L3616), or see your Martin Engineering representative.

