

DynaStop®

The electrodynamic deceleration function
for MOVIGEAR®



DynaStop® – The optimal solution for applications with a high demand on energy efficiency

One of the most important characteristics of the mechatronic drive system MOVIGEAR® is its remarkably high system efficiency. An electro-mechanical brake system consumes energy constantly for the brake release and therefore reduces the system efficiency.

In contrast to standard braking systems, DynaStop® does not consume energy for the brake release. The innovative function generates a speed-dependent deceleration torque when

the drive is de-energized or inhibited. DynaStop® is the alternative to replace electro-mechanical brake systems in inclining or declining conveyors in an energy efficient way.



Application range

DynaStop® is the optimal solution for applications with a high demand on energy efficiency. Although it is not a replacement for a mechanical braking system in hoist applications, it is perfectly suitable for horizontal and inclined conveying applications in any industry, e.g.:

- Baggage handling systems
- Bottle and packaging unit transport in food and beverage production
- Automotive industry
- General intralogistics

Functionality

DynaStop® prevents the application from excessive acceleration or slipping due to external forces (e.g. sagging on inclining tracks). MOVIGEAR® comprises the following functionality when DynaStop® is active:

- In the event of a voltage failure, the kinetic energy is used to supply the frequency inverter via regeneration. This allows a controlled deceleration.
- DynaStop® is activated when the regenerative power is insufficient.
- The resulting drift speed depends on the external torque and speed and can already be estimated in the project planning phase.



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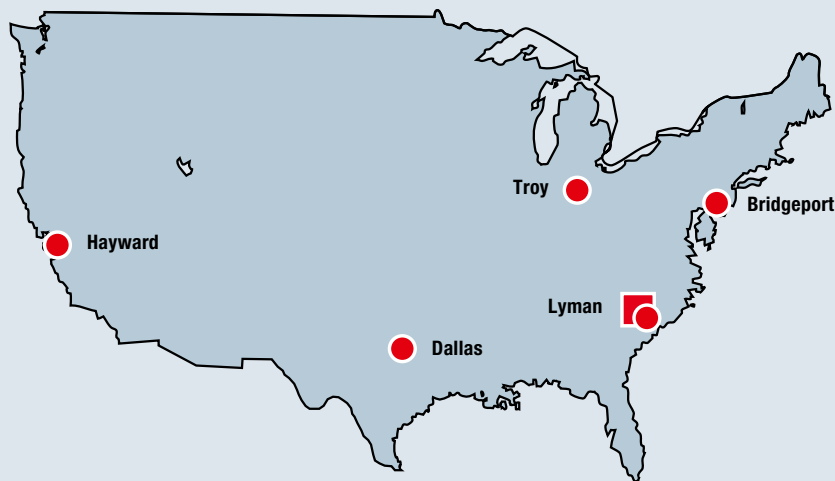
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