CUSTOMER CASE STUDY

Building Industry

Concrete Block Production

Automated concrete block lifting, stacking, and off-loading system.

Stacked concrete blocks.

CUSTOMER CHALLENGE

With an automated mixing, pouring, and curing system for concrete blocks, there is a need for an automated lifting, stacking, and off-loading system. Systems that can keep pace with the production process and reduce the need to manual labor.

The environment is dust filled, and production rates demand an actuator that can handle high cycle rates providing a solution that cannot under any circumstances contaminate the end product.

SOLUTION

Duff-Norton Ball Screw actuator (model M10824-24) with special features (customized guide bushing, screw lead, and lock nut) used on automated lifting, stacking and off-loading systems.

DUFF-NORTON ADVANTAGE

- Key to success in this production environment was providing a reliable solution across a long service life to prevent unplanned downtime.
- Rapid lifting, stacking and off-loading to keep pace with product production.
- Design simplicity, providing only a few moving parts to improve reliability.
- Meeting today's personnel environment requirements for low airborne noise.
- Dramatic reduction in environmental impact by eliminating the potential for any hydraulic leaks impacting finished product.

Concrete blocks on conveyer heading toward automated lifitng, stacking and off-loading system.

Duff-Norton Products:
Ball Screw Actuator Model M10824-24 with custom guide bushing, screw lead and lock nut

COLUMBUS McKINNON CORPORATION