



HEAVY DUTY



LONG LENGTH



SMOOTH  
MOTION



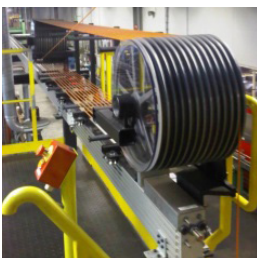
CUSTOMIZABLE

# HEAVY DUTY CABLE PULLEY SYSTEM

## Manufacturing - Production

### CHALLENGE:

A manufacturer of cables had a severe problem when changing bobbins for an important production machine. Production cables broke regularly when changing bobbins, resulting in unforeseen production costs for the customer. To solve this, the manufacturer required an actuated buffer system that could maintain tension in the cable together with quiet and smooth movement. The buffer length needed to be over 24 meters long.



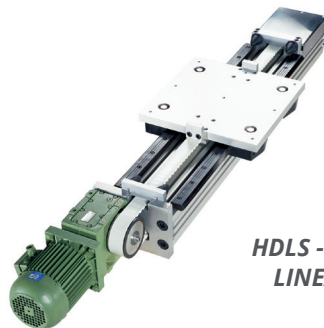
### RESULTS:

The robust, customized HDLS unit enables the customer to tension the cables correctly with smooth and shock-free motion. The system can easily withstand high pulling forces, operates virtually maintenance-free. The breaking of cables when changing bobbins is a thing of the past and this customer is very satisfied.

### SOLUTION:

A HepcoMotion® Heavy Duty Linear System (HDLS) was custom-fitted with several features to meet the demands of this application:

- A 25 meter Heavy Duty Beam with built-in vee linear guides and a robust belt driven carriage with Ø64 bearings and cap wipers.
- A toothed belt drive (50 mm wide) and geared motor, capable of managing the tensile forces of more than 4900 N.
- A guided pneumatic cylinder system to act as an emergency shock absorber should an unexpected issue arise. This easily-mounted system provides an added layer of security to prevent cable breakage.



**HDLS - HEAVY DUTY  
LINEAR SYSTEM**

**CONTACT US TO DISCUSS YOUR SPECIFIC GUIDED MOTION NEEDS**