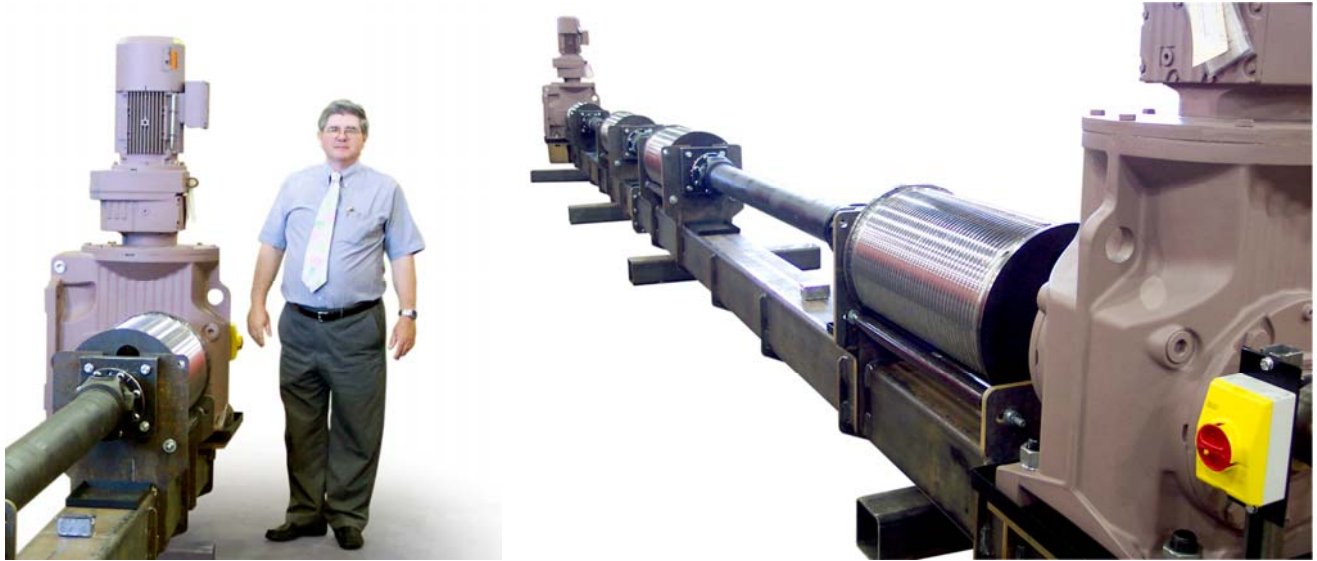


Newseum



Project Summary

Self climbing media screen hoist with 34,000 lb lifting capacity.

Location

Washington, D.C.

Architect

Polshek Partnership

Clancy Dealer

Barbizon Capitol

Barbizon Capitol contacted J. R. Clancy in 2005, requesting assistance on a challenging design build project for the Newseum. The user needed to raise and lower a 40' wide by 22' tall media screen weighing 22,000 pounds from the glass roofed lobby of the museum!

The glass roof presented a challenge, as it made a typical ceiling mounted hoist system impractical. To solve this, Clancy engineers designed a self climbing winch that would lift 34,000 lbs – the weight of the screen and winch.

For added reliability a double motor design is used: Gear motors are placed at either end of the shaft carrying the four cable drums. Each of the gearboxes has the capacity to carry the entire load, while the motors are rated to share the load. This provides the even greater safety than using load brakes, at a lower overall cost.

The winch uses four 5/8" diameter double purchased lift lines. The lines are Dyform 6, a specialty high strength, extra flexible wire rope

The screen moves among storage, play, and maintenance positions. A custom pushbutton station controls movement.