

ELECTRIC SOLUTIONS FOR
HEAVY MOVABLE STRUCTURES

MFP HMS ACTUATOR™

A SIMPLE ELECTRIC ALTERNATIVE
TO HYDRAULIC CYLINDERS

-  No Hydraulic Power Units Required
-  Environmentally Friendly Operation
-  Lower Cost Solution
-  Ease of Serviceability with Fewer Components
-  Marine Grade Corrosion Protection
-  Reliable Holding with Spring Applied Brake



RUGGED.
RELIABLE.
ENGINEERED FOR REAL-WORLD CONDITIONS.

REMOVE COMPLEXITY. SIMPLIFY THE SYSTEM.



BRIDGES



LOCKS & DAMS



INDUSTRIAL



BUILT FOR A MORE
RELIABLE TOMORROW



ENGINEERED &
MADE IN AMERICA



KEY APPLICATIONS

Span Lock

End Wedge

Rear Tail Lock

Rail Lift

HYDRAULIC vs. MFP HMS ACTUATOR™

HYDRAULIC CYLINDER SYSTEM

- ✗ Requires Hydraulic Power Unit
- ✗ Pumps, Valves & Hoses
- ✗ Hydraulic Oil & Filters
- ✗ Leak Risk & Environmental Impact
- ✗ Frequent Maintenance
- ✗ Temperature Sensitive
- ✗ Energy Inefficient
- ✗ More Components to Fail
- ✗ Higher Lifecycle Cost

MFP HMS ELECTRIC ACTUATOR

- ✓ Self-Contained Electric Actuator
- ✓ No Hydraulic Oil or Leaks
- ✓ Minimal Maintenance
- ✓ Cleaner, Environmentally-Friendly Operation
- ✓ Spring-Applied Holding Brake
- ✓ Consistent Performance
- ✓ Energy Efficient
- ✓ Fewer Components, Greater Reliability
- ✓ Lower Lifecycle Cost

SPECIFICATIONS

 Actuator Type	Electric Roller Screw Actuator with Manual Override	 Environmental Rating	Marine Grade Corrosion Protection with Paint Color to Specification
 Force Rating	Up to 30,000 lbf (Custom Available)	 Mounting	NFPA Interchangeable Rear Clevis, Front Trunnion, Rear Trunnion
 Stroke	Up to 24" (Standard) Custom Strokes Available	 Rod End	Spherical Rod Eye
 Speed	0.1 - 2.2 in/sec (Varies by Application)	 Manual Operation	Manual Brake and Actuator Operator
 Motor	1/2 hp thru 3 hp 230/460 VAC, 3PH Other Options Available	 Built-in Sensors	24 VDC over Travel Protection
 Brake	Spring Applied, Electrically Released with Manual Override	 Feedback Options	Limit Switches and Encoder



FULL SYSTEM SOLUTIONS

MFP delivers more than actuators. We engineer complete motion systems including actuation, hydraulics, electrical solutions, commissioning and field support.



LEARN MORE

Scan to visit our HMS solutions page and see how we can help with your next project.



616-538-5700



custserv@mfp.com



www.mfp.com



ENGINEERED &
MADE IN AMERICA