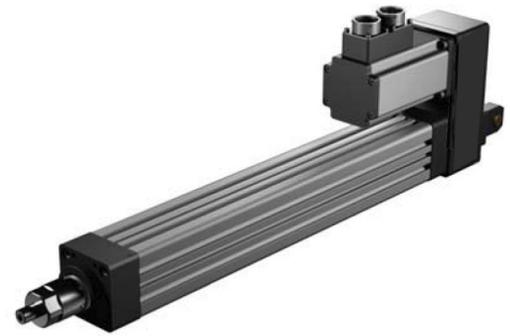




The H5535 series actuator combines the rugged design of roller screw technology with the efficiency and reliability of an AC servo motor. This results in an actuator that is brushless for reduced maintenance, provides position feedback without external devices, maintains position accuracy during loss of power without a homing sequence, outlasts ball screw designs by doubling the travel life, and is available in thrust ranges of 500 lbs (2.2 kN) to 40,000 lbs. (178 kN).



The high thrust and high duty cycle of the H5535 series make it an excellent replacement for hydraulic cylinder applications. When compared to a hydraulic cylinder, the lower cost of operation in energy savings and the elimination of contamination issues related to hydraulic oil leaks, make the H5535 a perfect choice to upgrade existing hydraulic actuators.

The H5535 Actuator is controlled by a H6630EM Controller and can be configured for speed, position, and end of travel limits. In addition, this system can communicate over a variety of industrial networks. Power and feedback between the drive and actuator is provided by two cables with military style connectors at the actuator. The H5535 series actuator provides an IP65 environmental rating, and can be provided with additional environmental protections including corrosion resistant, hazardous environment ratings, and protective bellows.

## SPECIFICATIONS

### Force Output:

500 lbs. to 40000 lbs. (2.2 kN to 178 kN)

### Rod Speed:

500 lbs. to 2000 lbs. = 5 in/sec (Max.)

(2.2 kN to 8.9 kN) = (127mm/sec)

4000 lbs. to 6500 lbs. = 2.5 in/sec (Max.)

(17.8 kN to 28.9 kN) = (64 mm/sec)

\*Factory set at 2.0 in/sec. (51 mm/sec)

### Stroke Length:

12" (305 mm) standard

Stroke length can be configured through the H6630EM Controller

### Operating Temperature:

32° - 175° F (0° - 80° C)

### Side Load:

10 lbs. (44.5 N) fully extended

20 lbs. (89.0 N) fully retracted

### Backlash:

0.008 in (0.2 mm)

### Power Requirements:

H6630EM Controller is the power source, 460 VAC, 3ph, 48/65 Hz (230 VAC 3ph is an option)

### Mountings:

Rear Clevis, Front Flange, Trunnion

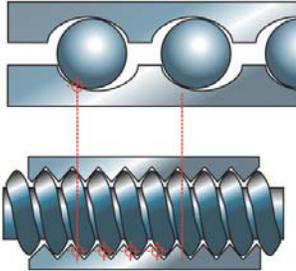
## KEY FEATURES

- Roller Screw Technology
- Available to 40,000 lbs. (178 kN) of thrust
- AC Servo Motor
- Programmable End of Stroke Control
- Programmable Stroke Length
- Position Feedback/Absolute Encoder
- UL and CE rated components
- IP65 rating

# ADDITIONAL FEATURES



- Roller Screw Technology –superior life
- AC servo motor – no brush maintenance required
- Absolute encoder – no external devices required
- Factory lubrication provides maintenance free operation

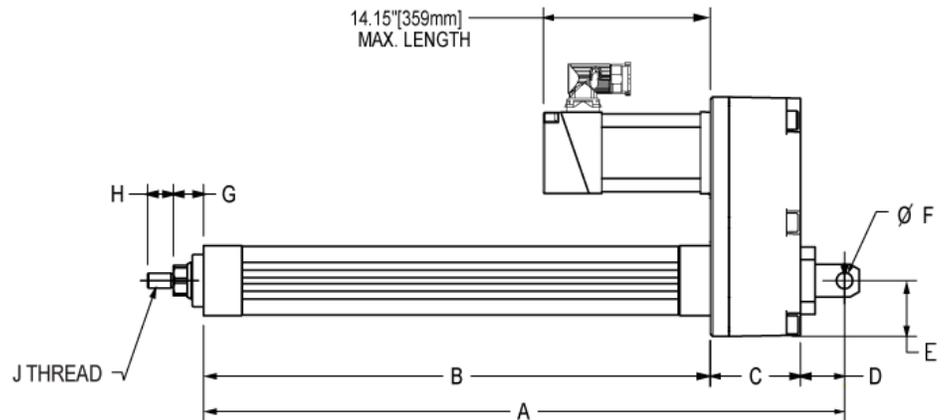
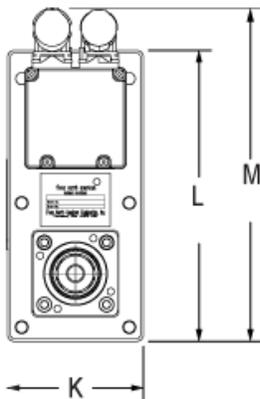
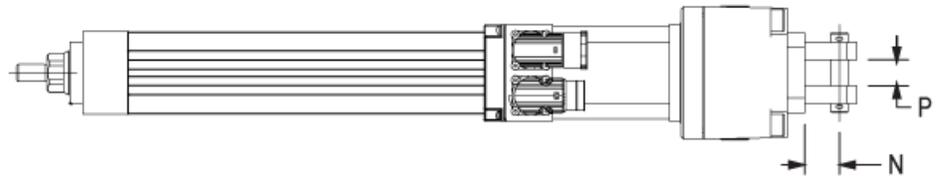
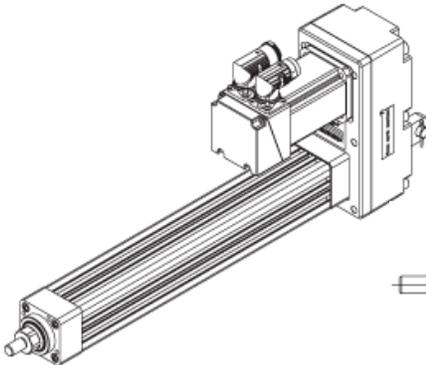


**The Roller Screw Advantage** – The roller screw assembly, (fig. 1) utilizes roller threads that are machined to the exact thread angle of the roller screw providing higher loadcarrying capacity, improved stiffness, and significantly longer travel life. The illustration compares the increased contact surface area achieved with a roller screw design, (fig 3) when compared to a ball screw design, (fig. 2).

## DIMENSIONS

Inches (mm)

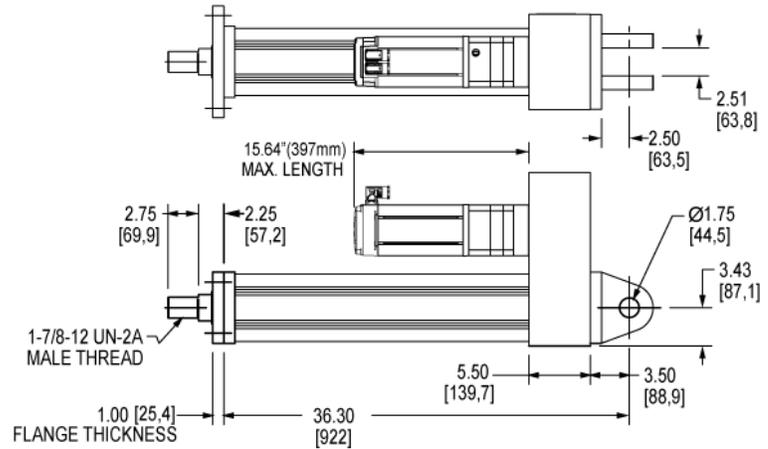
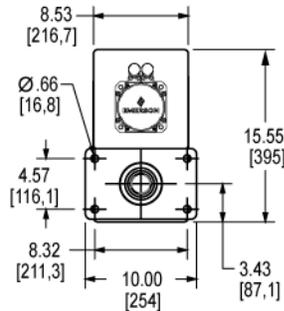
500 lb (2.2 kN) to 6500 lb (28.9 kN) Actuators



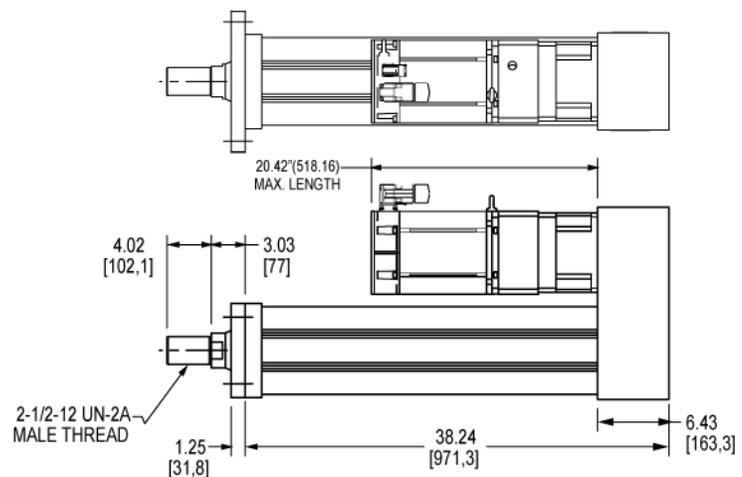
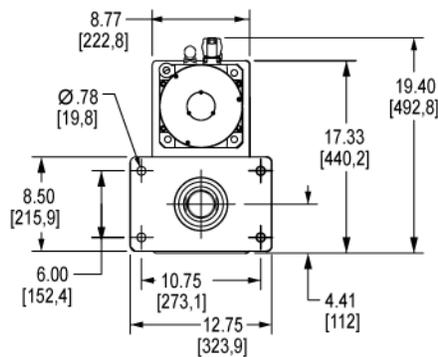
# H5535 ACTUATOR

10000 lb (45 kN), 20000 lb (89 kN), and 40000 lb (178 kN) Actuators

10000 and 20000 LB Linear Actuator  
(Rear Clevis and Front Flange)  
Overall Dimensions



40000 LB Linear Actuator  
(Front Flange)  
Overall Dimensions



## CABLES

### Power Cable Part Numbers

- Standard Motor Cable, H5535-PWR-20M
- Motor Cable for Braked Actuator, H5535-PWRBK-20M



### Encoder Cable Part Numbers

- Absolute Encoder Cable w/ single connector, H5535-FDBK-20M



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