

## **COMPARING INTELLIGENCE AND OPERATIONS**

Electric vs. Servohydraulic vs. Hydraulic Actuators



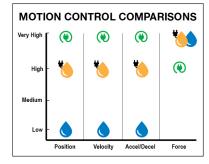




HYDRAULIC

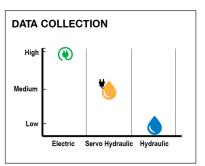
## Intelligence

Control of speed, position and force can be critical in high-precision applications.



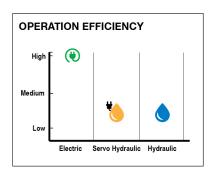
Electric actuators meet management requirements for data collection and reporting.

**POWER COSTS** 



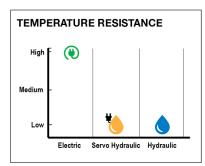
## **Operations**

Compared to servo-hydraulic and conventional hydraulic systems, electric actuator systems operate far more efficiently.



DUTY CYCLE (%) 6 IN (152MM) BORE CYLINDER
• POWER OUT: 20 kw
• SPEED: 3.5 in/sec (90 mm/sec)
• FORCE: 50,000 lbf (222.5 kN) 3 IN (76MM) BORE CYLINDER • POWER OUT: 2 kw Electric Efficiency 80%; Hydraulic Efficiency 45%; 2000 PSI; Cost kW/hr \$0.07

Electric actuator systems are better at managing heat and are not susceptible to fluid thickening in cold temperatures.



Electric systems present minimal environmental risk because they don't leak fluid like hydraulic actuators can.

