Precision and Durability Testing: seaPLUS Advantage

Are SEA systems suitable for durability testing?

Yes. Servoelectric actuators are powered by linear or rotary electric motors. As with all motors, electric motors have a continuous duty rating, which signifies their ability to operate continuously at a specified capacity without overheating or experiencing performance degradation. Therefore, if the RMS (Root Mean Square), which measures the continuous energy content of the vibration profile, falls below the motor's continuous force rating, the system achieves an optimal state of durability. Because our systems, using the electric motors, can operate with high precision over extended periods, servoelectric actuation offer substantial operational advantages.

seaPLUS SERIES - DURABILITY RATED

Dynamic RMS Loading on the Motors ≤ Continuous Force Rating of Motors = seaPLUS Series Runs Continuously

Additional Operational Benefits

Servoelectric actuation systems are not just about enduring the test of time; they redefine operational efficiency in several ways:

Less Power Consumption: These systems require significantly less power compared to their hydraulic and pneumatic counterparts, leading to lower operational costs and a smaller carbon footprint.

Reduced Maintenance: The simplicity and efficiency of electric motors translate to fewer maintenance requirements, minimizing downtime and extending the lifespan of the system.

Quieter Operation: Servoelectric actuators operate with minimal noise, enhancing workplace safety and comfort.

Heat Management: Efficient heat dissipation mechanisms ensure that servoelectric actuators maintain optimal performance without the risk of overheating.

seaPLUS Systems

The seaPLUS system stands out with its **46% higher performance rating,** elevating it to a superior durability class. This enhancement not only boosts the system's resilience but also expands its capability and capacity. With a continuous to peak rating of 40% or 1:2.5, the seaPLUS system is adept at handling more demanding applications across a broader range of industries.