Fin Control Actuation

Independent LRU electro-mechanical actuators
Fully integrated actuator / controller tail sections
Brushless DC drives, integrated position feedback options
Bandwidth performance >40 Hz
Multiple Fin Lock options
Multiple Digital interface options

Kearfott Corporation
Motion Systems Division
2858 US Highway 70 West
Black Mountain, NC 28711
(828) 350-5300
marketing@kearfott.com www.kearfott.com

Innovative Solutions

Low Cost through integrated functionality
- Tailored Kearfott component designs
- Frameless component integration
- Innovative packaging
  
  Reduced size, weight and COST

High Reliability leveraging proven technologies
- Kearfott derivative component solutions
- Millions of hours of high reliability operation
  
  Innovative utilization of core technology

Managed Risk via rapid prototyping
- Analysis backed up by rapid validation
- Complete In-house rapid prototyping
  
  Speed and Agility = Reduced Risk

Superior Performance in harsh environments
- High temp insulations systems
- Military spec component availability
  
  Demonstrated capability in high altitude, vibration, thermal, shock environments

Kearfott Corporation
Motion Systems Division
2858 US Highway 70 West
Black Mountain, NC 28711
(828) 350-5300
marketing@kearfott.com www.kearfott.com

Proven Technologies

Precision Motors
- Brushless PM DC
- Induction
- Synchronous and Stepper

Sensors
- Single and multi-speed resolvers
- RVDT and LVDTs

Digital Controllers
- Power stage
- Loop closure
- Advanced control algorithms
- Serial, ARINC, CAN

Precision Gearing
- Anti-Backlash
- Spur Power train
- Differential and Planetary
- Epicyclic / power hinge
- AGMA quality class 12
**Fin Control Actuation**

<table>
<thead>
<tr>
<th>Typical Performance Characteristics</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum NLS (°/sec)</td>
<td>300</td>
</tr>
<tr>
<td>Maximum Stall Torque (in-lbs)</td>
<td>2000</td>
</tr>
<tr>
<td>Power (VDC)</td>
<td>28-150</td>
</tr>
<tr>
<td>Outer mold line diameter (in)</td>
<td>5-13</td>
</tr>
<tr>
<td>Command Interface</td>
<td>Serial, Analog</td>
</tr>
<tr>
<td>Operating Temperature Range (°C)</td>
<td>-55 to 70</td>
</tr>
</tbody>
</table>

NLS – No Load Speed