VERSATILE UTILITY ACTUATION

Kearfott Corporation
a subsidiary of Astronautics Corporation of America

**Innovative Solutions**

**Compact** = Versatility

Kearfott's highly integrated solutions enable customer requirements with **REDUCED SIZE AND WEIGHT**

**ZERO**

**Maintenance**

- Precision hardened gearing
- High performance bearing systems
- Precision ball and acme screws
- In-house designed custom components

**NO SCHEDULED MAINTENANCE**

**Light Weight**

Integrated solutions

Weight Optimized solutions provide **MORE HIGH PERFORMANCE OPTIONS** at the system level

**COTS Modules**

Rapid Prototypes

- MIL-SPEC equivalent COTS modules
- In-house rapid prototyping

**LOW COST, RISK & LEAD TIME**

**Versatility**

**Proven Technologies**

**Electric Motors**
- Brushless PM DC
- Induction
- Synchronous and Stepper

**Position 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

**Precise and Reliable E-M Actuation Solutions**
- APU and cargo doors
- Cargo handling
- Environmental controls
- Up-locks
- Other utility applications

**Environmentally sealed**

**85% efficiency typical for many applications**

**Many interface and feedback options**

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## Versatile Utility Actuation

<table>
<thead>
<tr>
<th>Typical Performance Characteristics</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Output Force (lb)</td>
<td>10 – 10k+</td>
</tr>
<tr>
<td>Torque (in-lb)</td>
<td>10 - 10k +</td>
</tr>
<tr>
<td>Speed (°/sec)</td>
<td>200</td>
</tr>
<tr>
<td>Voltage (VDC)</td>
<td>28-270 +</td>
</tr>
<tr>
<td>Current (A)</td>
<td>Configurable depending on application</td>
</tr>
<tr>
<td>Available Features</td>
<td>Failsafe Brake, EM and Overload Slip Clutches</td>
</tr>
<tr>
<td>Operating Temperature Range (°C)</td>
<td>-55 to 70</td>
</tr>
<tr>
<td>Frequency Response (Hz)</td>
<td>10+</td>
</tr>
<tr>
<td>Standard Accuracy (in)</td>
<td>±0.01</td>
</tr>
<tr>
<td>Command Interface (Closed loop position/rate)</td>
<td>Serial (RS485), Analog</td>
</tr>
<tr>
<td>Feedback Options</td>
<td>Resolver, VDT, Potentiometer</td>
</tr>
</tbody>
</table>

Information on this sheet is for reference only; specifications are subject to change.