Electromechanical Dynalift Scissor Lifts

Dynalift is a totally electromechanical scissor lift comprising of circular arc scissor arms and a ball screw-driven linear actuator. The motor's forward/reverse rotation is translated to the ball screw's linear movement, thereby wedging the scissor arms and lifting the table.

**Features**
1. **Constant speed** – unique circular arc scissor arms allow for a constant speed lifting operation. Change in load amount does not give much effect on speed. Smooth and stable lifting operation is possible.
2. **Accurate stoppage and reliable load holding** – brake motor stops accurately at desired positions and holds the load securely.
3. **High duty cycle, long life operation** – driving unit employs quality ball screws enabling high duty cycle and long life operations.
4. **All electromechanical** – Dynalift operates on electric power only. No hydraulic unit is required, operation is reliable and control is easy.
5. **Clean and easy** – operation environment is very clean while grease lubrication maintenance is easy.
6. **Lift Height** 240mm to 1500mm.
7. **Lift Capacity** to 500kg to 1500kg.

---

**H Series**
Small and compact straight type motor cylinder. Best for simple go/return and positioning use (pressure stops not available). HP type has built-in cam limit switches for stroke setting.
- 7 frame sizes
- Thrust from 100 to 1000kg
- Speed from 25 to 83mm/sec
- Stroke from 100 to 700mm

**B Series**
Standard and versatile. With the thrust limiter overload safety device, it allows for halfway pressure stops – a useful feature for damper gate applications.
- 6 frame sizes
- Thrust from 100 to 1000kg
- Speed from 25 to 90mm/sec
- Stroke 100 to 1000mm

**SGB Series**
The SGB Synchro-cylinder is an electric linear drive actuator which enables high speed synchronised operation and has a wide choice of driving sources. This synchro-cylinder is an extremely simple and highly efficient fully enclosed mechanical linear actuator with a construction incorporating high precision bevel gear, ball screws, inner tubes, etc.
- 14 frame sizes
- Thrust from 0.5T to 100T
- Speeds up to 150mm/sec
- Strokes to 2m

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**The Complete Actuator Program**

**MOTION TECHNOLOGIES PTY LTD**

**MOTOR CYLINDERS**

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**MOTION TECHNOLOGIES PTY LTD**

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**BJ Series**
Developed particularly for damper and butterfly valve control applications. Much smaller and less costly than conventional types.

- **Features**
  1. Compact and economical – $\frac{1}{3}$ of the size of the conventional rotary damper drive, with substantially lower cost.
  2. Positioner Cam LA – 4 sets of built-in cam limit switch to provide signals at desired positions. Potentiometer feedback also available.
  3. Pressure Stops – thrust limiter overload safety device allows for pressure stops to close dampers to 'zero' leak.
  5. Simple construction – simple body combines functions, allows easy maintenance.

**Specifications**
- **Structure**
  - Totally enclosed outdoors
- **Frequency**
  - 50/60Hz
- **Insulation**
  - Class E
- **Time Rating**
  - 10% ED
- **Ambient Temp**
  - -15ºC ~ 50ºC
- **Atmosphere**
  - Indoors and less dusty places

**DG Series**
Particularly suited for heavy load applications with standard line up for up to 30T thrust and specials available for larger thrust requirements. These actuators feature high efficiency ball screws, heavy duty power transmission construction, large capacity disc-spring Thrust Limiter with integral limit switch.

- **Features**
  1. **Thrust Limiter** – unique overload safety mechanism permits pressure stops against external objects.
  2. **Load holding** – spring-triggered failsafe brake motor reliably holds the load whilst stopped. Dependable in case of power failure.
  3. **Easy but reliable** – simple electronic configuration allows easy applications to automatic or your own operating needs.
  4. **Economical** – Unlike hydraulic cylinders, no auxiliary equipment is needed, low running costs (no energy required whilst stopped).
  5. **Easy installation and maintenance** – electric or your own operating needs.

**Specifications**
- **Model**
  - **Motor Output** (kW)
  - **Rated current (400V/440V) (A)**
  - **Thrust Limiter**
  - **Brake**

<table>
<thead>
<tr>
<th>Model</th>
<th>Thrust (kN)</th>
<th>Speed (mm/sec)</th>
<th>Mechanical max stroke (mm)</th>
<th>Rated current (kW)</th>
<th>Rated current (400V/440V) (A)</th>
<th>Brake type &amp; current 200V/220V</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOM 2T</td>
<td>2000</td>
<td>25</td>
<td>300 – 500 – 1000 – 1500</td>
<td>0.75</td>
<td>4.8/4.1 (2.2/2.1)</td>
<td>Pull-rotor, spring-triggered off-brake, individual cut-off</td>
</tr>
<tr>
<td>DGN 2T</td>
<td>60</td>
<td>0.75</td>
<td>8.2/2.7 (4.1/3.6)</td>
<td></td>
<td></td>
<td>Pull-rotor, spring-triggered off-brake, individual cut-off</td>
</tr>
<tr>
<td>DGN 4T</td>
<td>12.5</td>
<td>300 – 700 – 1000 – 1500</td>
<td>2.2</td>
<td>9.0/9.0 (4.1/4.0)</td>
<td>8</td>
<td>Pull-rotor, spring-triggered off-brake, individual cut-off</td>
</tr>
<tr>
<td>DGN 6T</td>
<td>42</td>
<td>15 – 300 – 500 – 1000 – 1500</td>
<td>2.2</td>
<td>9.0/9.0 (4.1/4.0)</td>
<td>6</td>
<td>DC individual cut-off</td>
</tr>
<tr>
<td>DGO 8T</td>
<td>25</td>
<td>15</td>
<td>300 – 500 – 1000 – 1500</td>
<td>2.2</td>
<td>9.0/9.0 (4.1/4.0)</td>
<td>Pull-rotor, spring-triggered off-brake, individual cut-off</td>
</tr>
<tr>
<td>DGP 6T</td>
<td>6000</td>
<td>25</td>
<td>300 – 500 – 1000 – 1500</td>
<td>2.2</td>
<td>9.0/9.0 (4.1/4.0)</td>
<td>Pull-rotor, spring-triggered off-brake, individual cut-off</td>
</tr>
<tr>
<td>DGR 8T</td>
<td>10000</td>
<td>10</td>
<td>300 – 500 – 1000 – 1500</td>
<td>2.2</td>
<td>9.0/9.0 (4.1/4.0)</td>
<td>Pull-rotor, spring-triggered off-brake, individual cut-off</td>
</tr>
<tr>
<td>DGR 10T</td>
<td>1500</td>
<td>15</td>
<td>300 – 500 – 1000 – 1500</td>
<td>2.2</td>
<td>9.0/9.0 (4.1/4.0)</td>
<td>Pull-rotor, spring-triggered off-brake, individual cut-off</td>
</tr>
<tr>
<td>DGR 16T</td>
<td>40</td>
<td>45</td>
<td>300 – 500 – 1000 – 1500</td>
<td>2.2</td>
<td>9.0/9.0 (4.1/4.0)</td>
<td>Pull-rotor, spring-triggered off-brake, individual cut-off</td>
</tr>
<tr>
<td>DGR 20T</td>
<td>6000</td>
<td>25</td>
<td>300 – 500 – 1000 – 1500</td>
<td>2.2</td>
<td>9.0/9.0 (4.1/4.0)</td>
<td>Pull-rotor, spring-triggered off-brake, individual cut-off</td>
</tr>
<tr>
<td>DGR 25T</td>
<td>10000</td>
<td>15</td>
<td>300 – 500 – 1000 – 1500</td>
<td>2.2</td>
<td>9.0/9.0 (4.1/4.0)</td>
<td>Pull-rotor, spring-triggered off-brake, individual cut-off</td>
</tr>
<tr>
<td>DGR 30T</td>
<td>15000</td>
<td>25</td>
<td>300 – 500 – 1000 – 1500</td>
<td>2.2</td>
<td>9.0/9.0 (4.1/4.0)</td>
<td>Pull-rotor, spring-triggered off-brake, individual cut-off</td>
</tr>
<tr>
<td>DGR 35T</td>
<td>35</td>
<td>25</td>
<td>300 – 500 – 1000 – 1500</td>
<td>2.2</td>
<td>9.0/9.0 (4.1/4.0)</td>
<td>Pull-rotor, spring-triggered off-brake, individual cut-off</td>
</tr>
<tr>
<td>DGR 40T</td>
<td>6000</td>
<td>8</td>
<td>300 – 500 – 1000 – 1500</td>
<td>2.2</td>
<td>9.0/9.0 (4.1/4.0)</td>
<td>Pull-rotor, spring-triggered off-brake, individual cut-off</td>
</tr>
<tr>
<td>DGR 45T</td>
<td>10000</td>
<td>12</td>
<td>300 – 500 – 1000 – 1500</td>
<td>2.2</td>
<td>9.0/9.0 (4.1/4.0)</td>
<td>Pull-rotor, spring-triggered off-brake, individual cut-off</td>
</tr>
<tr>
<td>DGR 50T</td>
<td>15000</td>
<td>25</td>
<td>300 – 500 – 1000 – 1500</td>
<td>2.2</td>
<td>9.0/9.0 (4.1/4.0)</td>
<td>Pull-rotor, spring-triggered off-brake, individual cut-off</td>
</tr>
<tr>
<td>DGR 55T</td>
<td>20000</td>
<td>35</td>
<td>300 – 500 – 1000 – 1500</td>
<td>2.2</td>
<td>9.0/9.0 (4.1/4.0)</td>
<td>Pull-rotor, spring-triggered off-brake, individual cut-off</td>
</tr>
<tr>
<td>DGR 60T</td>
<td>30000</td>
<td>8</td>
<td>300 – 500 – 1000 – 1500</td>
<td>2.2</td>
<td>9.0/9.0 (4.1/4.0)</td>
<td>Pull-rotor, spring-triggered off-brake, individual cut-off</td>
</tr>
<tr>
<td>DGR 65T</td>
<td>40000</td>
<td>12</td>
<td>300 – 500 – 1000 – 1500</td>
<td>2.2</td>
<td>9.0/9.0 (4.1/4.0)</td>
<td>Pull-rotor, spring-triggered off-brake, individual cut-off</td>
</tr>
</tbody>
</table>

* Contact Motor Technologies (cosmic@motiontech.com.au) to request a complete detailed catalogue.

**Note:**
- Speed figures are subject to the motor on synchronous rotation.
- Motors are exclusively designed. Motor current values may vary from general purpose motors on the market.
- Give considerations when selecting a thermal relay.
BJ Series
Developed particularly for damper and butterfly valve control applications. Much smaller and less costly than conventional types.

Features
1. Compact and economical – $\frac{1}{3}$ to $\frac{1}{2}$ the size of the conventional rotary damper drive, with substantially lower cost.
2. Positioner Cam LA – 4 sets of built-in cam limit switch to provide signals at desired positions. Potentiometer feedback also available.
3. Pressure Stops – thrust limiter overload safety device allows for pressure stops to close dampers to ‘zero’ leak.
5. Simple construction – simple body combines functions, allows easy maintenance.

Specifications
- **Structure**: Totally enclosed outdoors
- **Frequency**: 50/60Hz
- **Insulation**: Class E
- **Ambient Temp**: -15°C to +50°C
- **Atmosphere**: Weather protected – for use outdoors, bad atmosphere,
- **Positioner**: 4-position cam LS, Potentiometer (±1%) 
- **Accessories**: Bellows boot, manual handwheel drive

Features
1. **Thrust Limiter** – unique overload safety mechanism permits pressure stops against external objects.
2. **Load holding** – spring-triggered failsafe brake motor reliably holds the load whilst stopped. Dependable in case of power failure.
3. **Easy and reliable** – simple electronic configuration allows easy applications to automatic or your own operating needs.
4. **Economical** – Unlike hydraulic cylinders, no auxiliary equipment is needed, low running costs (no energy required when stopped).
5. **Easy installation and maintenance** – electric and mechanical, reliable, easy, with simple grease lubrication.

DG Series
Particularly suited for heavy load applications with standard line up for up to 30T thrust and specials available for larger thrust requirements. These actuators feature high efficiency ball screws, heavy duty power transmission construction, large capacity disc-spring Thrust Limiter with integral limit switch.

Specifications
- **Structure**: Totally enclosed outdoors
- **Frequency**: 50Hz, 200/220 (400/440)VAC
- **Insulation**: Class E
- **Ambient Temp**: -15°C to +50°C
- **Atmosphere**: With bellows: outdoors exposed to weather and dusty places
- **Accessories**: Bellows boot, manual handwheel drive

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### Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Thrust (kg)</th>
<th>Speed (mm/sec)</th>
<th>Mechanical max stroke (mm)</th>
<th>Motor output (W)</th>
<th>Rated current 200/220V (400/440V) (A)</th>
<th>Reducing torque (kW)</th>
<th>Rod travel per turn of manual shaft (mm)</th>
<th>Brake type &amp; current 200V/220V (400V/440V) (A)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>B100K</strong></td>
<td>100</td>
<td>10</td>
<td>200</td>
<td>300</td>
<td>300</td>
<td>69.1/5.4</td>
<td>1.1</td>
<td>0.3</td>
</tr>
<tr>
<td><strong>B300K</strong></td>
<td>300</td>
<td>10</td>
<td>200</td>
<td>300</td>
<td>300</td>
<td>69.1/5.4</td>
<td>1.1</td>
<td>0.3</td>
</tr>
<tr>
<td><strong>B500K</strong></td>
<td>500</td>
<td>10</td>
<td>300</td>
<td>300</td>
<td>300</td>
<td>69.1/5.4</td>
<td>1.1</td>
<td>0.3</td>
</tr>
<tr>
<td><strong>B1T</strong></td>
<td>1000</td>
<td>10</td>
<td>300</td>
<td>300</td>
<td>300</td>
<td>69.1/5.4</td>
<td>1.1</td>
<td>0.3</td>
</tr>
<tr>
<td><strong>B2T</strong></td>
<td>2000</td>
<td>12</td>
<td>300</td>
<td>300</td>
<td>300</td>
<td>69.1/5.4</td>
<td>1.1</td>
<td>0.3</td>
</tr>
<tr>
<td><strong>B3T</strong></td>
<td>4000</td>
<td>12.5</td>
<td>300</td>
<td>300</td>
<td>300</td>
<td>69.1/5.4</td>
<td>1.1</td>
<td>0.3</td>
</tr>
</tbody>
</table>

**Note**: Speed figures are subject to the motor on synchronous rotation. Thrust Limiter is factory set to activate at approximately 110% of the rated thrust.

Motors are exclusively designed. Motor current values may vary from general purpose motors on the market.

Give considerations when selecting a thermal relay.

* Brake type motor recommended.
Electromechanical Dynalift Scissor Lifts

Dynalift is a totally electromechanical scissor lift comprising of circular arc scissor arms and a ball screw-driven linear actuator. The motor’s forward/reverse rotation is translated to the ball screw’s linear movement, thereby wedging the scissor arms and lifting the table.

Features
1. **Constant speed** – unique circular arc scissor arms allow for a constant speed lifting operation. Change in load amount does not give much effect on speed. Smooth and stable lifting operation is possible.
2. **Accurate stoppage and reliable load holding** – brake motor stops accurately at desired positions and holds the load securely.
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5. **Clean and easy** – operation environment is very clean while grease lubrication maintenance is easy.
6. **Lift Height** 240mm to 1500mm.
7. **Lift Capacity** to 500kg to 1500kg.

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