Dynalift

Totally Electromechanical (ball screw + brake motor)

Accurate Stoppage
Reliable Load Holding
High Duty Cycle, Long Life Operation
Easy Maintenance

www.motiontech.com.au
Electromechanical *Dynalift* series

*Dynalift* is a totally electromechanical scissors lifter comprising the circular arc scissors arms and a motor- and ball screw-driven linear actuator. Motor's forward/reverse rotation is translated into the ball screw's linear movement, thereby wedging the scissors arms and lifting the table.

**Applications**

**FA (factory automation) and Distribution**
- High speed positioning lifting station, transferring/diverting station on conveyor lines, AGV (automatic guided vehicle), etc. ※Clean room grade is also available.

**Cultural Facilities**
- Orchestra stage, etc.

**Others**
- Medical and nursing care equipment, turn table lifter, etc.

**Features**

1. **Constant Speed**
   Unique circular arc scissors arms allow for a constant speed lifting operation. Change in load amount does not give much effect on speed. Very 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 needed. Operation is reliable and control is easy.

5. **Clean and Easy**
   Operation environment is very clean while maintenance is easy. (grease lubrication)
Application Examples

Distribution, Transferring Station
Load: 10 ton
Stroke: 1000 mm

Large Equipment Elevation
Load: 4 ton
Stroke: 8500 mm

Theater, Orchestra Pit (3 pits synchronized lifting)
Load: 20 ton
Stroke: 3100 mm
Automobile Assembly Line (body assembly shop)
Load: 2 ton
Stroke: 500 mm
- with positioner
- with collapse preventive safety device
- with boundary bellows

Automobile Assembly Line
Load: 1.55 ton
Stroke: 1850 mm
- with boundary bellows

Automobile Assembly Line (truck body)
Load: 4.5 ton
Stroke: 700 mm
Automobile Assembly Line (platform return)
Load: 5.5 ton
Stroke: 2300 mm

Automobile Assembly Line (engine decking)
Load: 700 kg
Stroke: 300 mm
- With turn table (flushed 45 deg, increment)
- With boundary bellows

Automobile Assembly Line (welding)
Load: 1150 kg
Stroke: 1000 mm
FPD Assembly Line
(robot lifter)
Load: 900 kg
Stroke: 1800 mm
Speed: 300 mm/sec
High duty cycle operation

Conveyor Line (all using a servo motor)
Up
Load: 1550 kg
Stroke 1900 mm
Up left
Load: 600 kg
Stroke 1100 mm
Left
Load: 1000 kg
Stroke 800 mm
Railway Car Maintenance (body washing factory working deck)
Load: 400 kg
Stroke: 4085 mm
Deck length: 27 m (electromechanical extension)

Aircraft Assembly Shop (wing assembly)
Load: 7.5 ton
Stroke: 1350 mm
2-rod type
Load: 500 to 1500 kg (catalog standard)

2-rod, 2-stage type
Load: 500 to 1500 kg (catalog standard)

Transfer Lifter (cam roller type)
Load: 600 to 2200 kg
Stroke: approx. 80 mm
※ See separate catalog.

Example of Transfer Lifter

Pneumatic-driven Lifter (conveyor line)
Load: 350 kg
Stroke: 30 mm
1-rod type

Space-saving, for narrow-table short-stroke applications.

<table>
<thead>
<tr>
<th>Model</th>
<th>Load (kg)</th>
<th>Speed (mm/sec)</th>
<th>Motor (kw)</th>
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Common Specifications
Power: 3-PH, 50/60 HZ, 200/220 VAC
Upper/lower LS optional.

![Diagram](image)

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<tr>
<th>Model</th>
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<th>Min.Height (mm)</th>
<th>L (mm)</th>
<th>W (mm)</th>
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2-rod type

More stable in wide-table applications.

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Upper/lower LS optional.

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2-rod, 2-stage type

2-stage scissors for long-stroke applications.

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Distributors for Australia & New Zealand

MOTION TECHNOLOGIES PTY LTD

24/22-30 Northumberland Road
Caringbah NSW 2229 Australia
Phone: (02) 9524 4782
Fax: (02) 9525 3878
sales@motiontech.com.au
www.motiontech.com.au

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COSMIC INDUSTRY CO., LTD.

Head Office 3-4-12 Yanaizu-cho, Fukuyama-city, Hiroshima 729-0114
TEL: (084) 933-6701 FAX: (084) 933-6710
E-mail: info@cosmic-ind.co.jp URL: http://www.cosmic.co.jp

Tokyo Office 1-12 Yamaman Bldg, Kandasuda-cho, Chiyoda-ku, Tokyo 101-0041
TEL: (03) 3254-2844 FAX: (03) 3256-1959

Osaka Office 1-9-20 Shin-Nakajima Bldg, Nishi-Nakajima, Yodogawa-ku, Osaka 532-0011
TEL: (06) 6303-3111 FAX: (06) 6306-0633

Nagoya Office 1-17-13 Meiko- Bldg, Nishiki, Naka-ku, Nagoya 460-0003
TEL: (052) 220-0721 FAX: (052) 220-0725

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