**Backsaver® Lifts**

**and Backsaver Lite Lifts**

**LS Series Backsaver® Lifts**

Southworth Backsaver® Lifts are extremely rugged and reliable machines. Thousands of Backsaver Lifts are in use throughout the United States for machine feeding, work positioning, assembly, order picking, pallet loading, and a wide range of other applications. They are available in many basic sizes and capacities to lift and position loads up to 6,000 lbs and heights to 56". The wide range of power options, controls, tabletops, and base configurations that can be specified for each of the many basic sizes gives the user an almost unlimited choice of variations.

**Backsaver Lite Lifts**

These industrial grade lift tables are specifically designed for those applications involving lighter loads of up to 1,500 lbs. They are available in four standard configurations: Stationary, Compact with high lift and small footprint, Portable with easy rolling casters, and Powered Portable with battery powered drive.
Quality Features
For Reliable Performance and Long Service Life

Contoured Legs
With extra width at the pivot point, Southworth’s contoured legs combine great strength with lower collapsed height.

Lubricated-for-Life Bushings
All pivot points have hardened pins that operate in lubricated-for-life, virtually maintenance-free bushings.

Heavy-Duty Hoses
All Southworth lifts have heavy-duty hoses with burst strength 600% greater than the hydraulic operating pressure.

Oversize, Low-Pressure Hydraulic Cylinders
Low operating pressure extends the life of hydraulic components. Chrome-plated piston rods are corrosion resistant, and cylinder walls are honed.

Built In Safety Chock
Prevents accidental lowering of table during maintenance.

Comfort Edge Design
No sharp corners on table top. Bright safety yellow stripe for high visibility.

Heavy-Duty Torque Tubes
Torque tubes minimize platform twisting and deflection for high degree of rigidity and stability.

Tell-Tale Return Hydraulic Fluid Line
Clear plastic return line from cylinder rod bearing to tank gives visual indication of need to repack cylinder and prevents fluid spillage in the event of a bypass.

Adjustable Flow Control
Pressure compensated flow control valve with lock out. Preset and locked at 10 F.P.M. maximum lowering speed per ANSI Standard, MH29 where applicable.

Wear Indicating Rollers and Roll Retainers
Rollers are captured in the base by means of retainers to prevent accidental separation or misalignment. All oversized width table tops also include an upper set of retainers.

Southworth Scissors Lifts are designed and manufactured to meet or exceed ANSI MH29.1 Safety Requirements for Industrial Scissors Lifts.
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**Lifts with 3.2 HP three-phase power units available with 1 HP single-phase power units. Rise time increases by a multiplier of 3.3.**
**Hydraulic / Actuation Options**

- **Larger Power Units**
  Higher horsepower motors and hydraulics used to increase travel speed.

- **Air Motor Driven Power Units**
  For use where electrical actuation is undesirable and shop air is available; meets explosion proof requirements.

- **DC Power Units**
  Direct current power units for use with battery power.

- **External Power Unit**
  Power unit is connected to lift only by hydraulic hose.

- **Manual Hand or Foot Pump Actuation**
  Lever type hand pump or foot pedal pump for use when manual actuation or precise positioning is required.

- **Cross Check Valving**
  Locks all in cylinders to eliminate deflection caused by oil transfer. Used in certain side loading applications.

- **Power Units Full JIC Style**
  Continuous running power unit built to JIC specifications.

- **No Coast Valving**
  Fast acting hydraulic valve, which decelerates upward coast, for use where more precise positioning is desired.

- **Minimum Downdrift Valving**
  Near positive shut-off valve for use where platform must maintain position for extended periods of time.

- **Continuous Running Power Units**
  Heavy-duty power units with special cooling features. Power unit runs continuously, and valves are actuated to activate lift. Used for extremely high jogs or cycles.

- **Double Acting Cylinders**
  For special applications where it is necessary to provide both power up and power down.

- **Air Bag Actuation**
  Inflatable air bag provides limited travel lift actuation. Used where electrical power is not desirable or where only two positions are required.

- **Continuous Duty Power Units**
  Specially designed power units with motors capable of many motor starts per hour.

- **Screw Jack**
  Lift is actuated by gear motor driven worm or ball screw. For more precise, repetitive positioning or when hydraulics are not desired.

- **Hot and Cold Temperature Hydraulic Packaging**
  Special sealing and hydraulic fluids for use in hot or cold atmospheres.

- **Velocity Sensors/Excess Flow Protectors**
  Hydraulic control prevents table free fall in the unlikely event of massive hydraulic failure.

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**Electronic Control Options**

- **Wall Mounted Push Button**
  Permanent wall mounted controls for use where a fixed operating station is desirable.

- **Automatic Leveling Package**
  Optical sensing control positions table and stops travel at any preset height.

- **Maintained Contact Controls**
  Up/down emergency stop push button control which stops travel automatically at preset level. (Control button does not have to be held.)

- **Electric Quick Disconnect**
  Quick disconnect plugs for use with portable or frequently relocated lifts.

- **Special NEMA Rated Electrical Packages**
  A variety of electrical packages designed to meet NEMA standards for outdoor, explosion proof, and other installation requirements.

- **Travel Limit Switch(es)**
  Electrical switch travel, prevents overtravel, provides height positioning, and can activate associated equipment. Should be used with mechanical stop for fixed lowered height.

- **One-Touch Auto Leveling**
  Increases productivity in repacking applications. Raise or lower lift by a specific increment at the touch of a button.

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**Mechanical Options**

- **Narrow Base**
  Reduced width base to suit special needs. Must be locked for stability.

- **Wide Base**
  Increased width base provides extra stability for water loads.

- **Sub Bases**
  Extra base unit increases low height of standard design. Provides a positive stop at predetermined down level. Frequently used for integration with automated systems.

- **Lifting Eyes**
  Steel eye bolts allow table to be lifted with hoist. Frequently used in pit mounted applications for ease of installation and maintenance.

- **Log Plates**
  Permanently attached plates or angles with bolt holes for logging tables to floor.

- **Increased Roll Over Capacity**
  Structural strengthening of table support for use in pit installations where loaded trucks or transporters must traverse platform in its lowered position.

- **Fork Pockets**
  Structural fork pockets allow entire unit to be lifted and moved by fork truck.

- **Stainless Steel Platform**
  Corrosion and damage resistant surface for use with corrosive materials or where frequent wash down is required.

- **Wheel Chock**
  Counterweighted wheel chock reared in table top. Automatically engages as lift raises and prevents wheeled vehicle from rolling in set direction.

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**Platform Options**

- **Manual or Powered Turntables**
  Bearing mounted and supported turntables for rotating or positioning loads of work.

- **Tilting Top**
  30°, 45°, and 90° tilting platforms for better positioning of certain loads.

- **Access Plate**
  Removable or hinged plate in platform surface allows access to power unit and hydraulics when lift is in lowered position.

- **Anti-skid Platform Surfaces**
  Diamond tread platform surfaces or abrasive type paint provide better traction for powered vehicles and reduces danger of personnel slipping.

- **Vee Cradle Platform**
  Vee shaped platform provides centering and secure handling of cylindrical loads, such as rolls.

- **End-Shifting Platform**
  Manual or powered platform endshift used to align loads with other handling systems or operating equipment.

- **Fork Transfer Top**
  Fixed or retractable fork conveyors for omnidirectional movement of load on platform.

- **Bull Transfer Top**
  Fixed or retractable bull conveyors for omnidirectional movement of load on platform.

- **Gravity or Powered Conveyor Tops**
  Roller conveyer tops for integration with other handling equipment or systems.

- **Throw-Over Plates**
  Hinged plates used to provide a bridge between the platform surface and an adjacent fixed height surface.

- **Bellows Accordion Skirting**
  Single piece stitch polymer skirting covers mechanism between platform and base. Also available as boots to cover cylinders only. (See photo on page 10)

- **Toe Sensing Edge**
  Automatically reverses lift on contact with any obstruction.

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**Environmental Options**

- **Export Boxing**
  Meets special packaging and shipping requirements for export out of the United States.

- **Special Paint**
  Customer specified paint formulations and colors. Corrosion Protection similar to that of Hot Dip Galvanizing.

- **Cam Follower Rollers**
  Low friction roller effect for increased efficiency and longer operating life.

- **High Duty Cycle and Greased Manifolds**
  Special bearing packages and regreaseable pivot points for moderately high and high duty cycle applications.

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*Because of the high performance of standard tables, most asterisked options may not be required in normal usage. To avoid unnecessary cost, please consult factory before specifying these options.*