

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.

Stainless Steel Models



Semi-Live Portable



Backsaver Lift

Backsaver Lite Powered Portable



Backsaver Lite

Backsaver Lite Portable

Backsaver Lite Compact

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 tabletops 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.









	Model No.	Capacity (Lbs.)	Vertical Travel (Inches)	Height		Standard Platform (Inches)	Maximum Platform (Inches)	Elevating Time (Seconds)	HP	Standard Voltage	Approx. Shipping Weight/Lbs. (std. platform)	
				Min. (Inches)	Max. (Inches)							
QUICK SHIP MODELS	LL & LS Series Backsaver Lite Lifts											
	LL05.5-26	550	26	5 ½	31½	20 x 36	36 x 60	9	½	115/1/60	240	
	LL1.1-26	1100	26	5 ½	31½	20 x 36	36 x 60	21	½	115/1/60	255	
	LL1.5-35	1500	35	6 ¼	41 ¼	24 x 48	36 x 60	32	½	115/1/60	450	
	CLL05.5-26	550	26	10 ½	36½	24 x 40	30 x 48	7	½	12 volt DC	315	
	CLL1.1-26	1100	26	10 ½	36½	24 x 40	30 x 48	13	½	12 volt DC	325	
	LS05-30	500	30	6	36	12 x 24	12 x 24	20	½	115/1/60	175	
	LS05-30W	500	30	6	36	16 x 24	24 x 36	20	½	115/1/60	200	
	LS1-30	1000	30	6	36	16 x 24	24 x 36	20	½	115/1/60	225	
		LS Series Backsaver Lifts										
LS2-24	2000	24	6%	30%	24 x 36	48 x 60	14	1	115/1/60	500		
LS4-24	4000	24	6%	30%	24 x 36	48 x 60	28	1	115/1/60	550		
LS6-24	6000	24	7%	31%	24 x 36	48 x 60	44	1	115/1/60	600		
LS2-36	2000	36	6%	42%	24 x 48	48 x 72	21	1	115/1/60	600		
LS4-36	4000	36	6%	42%	24 x 48	48 x 72	42	1	115/1/60	650		
LS6-36	6000	36	7%	43%	24 x 48	48 x 72	22	3.2	460/3/60	725		
LS2-48	2000	48	8	56	24 x 66	48 x 96	9	3.2	460/3/60	950		
LS4-48	4000	48	8	56	24 x 66	48 x 96	18	3.2	460/3/60	1000		
LS6-48	6000	48	8	56	24 x 66	48 x 96	27	3.2	460/3/60	1050		
LS2-24W	2000	24	6%	30%	36 x 36	60 x 60	14	1	115/1/60	575		
LS4-24W	4000	24	6%	30%	36 x 36	60 x 60	28	1	115/1/60	625		
LS6-24W	6000	24	7%	31%	36 x 36	60 x 60	44	1	115/1/60	675		
LS2-36W	2000	36	6%	42%	36 x 48	60 x 72	21	1	115/1/60	700		
LS4-36W	4000	36	6%	42%	36 x 48	60 x 72	42	1	115/1/60	750		
LS6-36W	6000	36	7%	43%	36 x 48	60 x 72	22	3.2	460/3/60	825		
LS2-48W	2000	48	8	56	48 x 66	72 x 96	9	3.2	460/3/60	1150		
LS4-48W	4000	48	8	56	48 x 66	72 x 96	18	3.2	460/3/60	1200		
LS6-48W	6000	48	8	56	48 x 66	72 x 96	27	3.2	460/3/60	1250		
	LS Series Plus Lifts											
LS8-36	8000	36	9	45	30 x 60	54 x 84	21	3.2	460/3/60	1350		
LS10-36	10000	36	10	46	30 x 60	54 x 84	28	3.2	460/3/60	1400		
LS12-36	12000	36	10	46	30 x 60	54 x 84	28	3.2	460/3/60	1500		
LS3-42	3000	42	6%	48%	24 x 56	48 x 84	49	1	460/3/60	725		
LS5-42	5000	42	7	49	24 x 56	48 x 84	74	1	460/3/60	775		
LS8-48	8000	48	9	57	24 x 66	48 x 96	30	3.2	460/3/60	1350		
LS2-60	2000	60	10	70	24 x 86	48 x 120	10	3.2	460/3/60	1300		
LS4-60	4000	60	10	70	24 x 86	48 x 120	20	3.2	460/3/60	1375		
LS5-60	5000	60	8	68	24 x 86	48 x 120	29	3.2	460/3/60	1450		
LS6-60	6000	60	10	70	24 x 86	48 x 120	30	3.2	460/3/60	1450		
LS8-60	8000	60	10	70	24 x 86	48 x 120	42	3.2	460/3/60	1700		
LS2-72	2000	72	10	82	30 x 102	60 x 132	19	3.2	460/3/60	2000		
LS4-72	4000	72	10	82	30 x 102	60 x 132	38	3.2	460/3/60	2100		
LS6-72	6000	72	12	84	30 x 102	60 x 132	41	3.2	460/3/60	2200		
LS2-84	2000	84	10	94	30 x 120	60 x 156	26	3.2	460/3/60	2200		
LS4-84	4000	84	10	94	30 x 120	60 x 156	52	3.2	460/3/60	2300		
LS6-84	6000	84	14	98	30 x 120	60 x 156	56	3.2	460/3/60	2500		
	LS Series Wide Base Lifts											
LS8-36W	8000	36	9	45	42 x 60	66 x 84	21	3.2	460/3/60	1500		
LS10-36W	10000	36	10	46	42 x 60	66 x 84	28	3.2	460/3/60	1600		
LS12-36W	12000	36	10	46	42 x 60	66 x 84	28	3.2	460/3/60	1700		
LS3-42W	3000	42	6%	48%	42 x 56	66 x 84	49	1	460/3/60	875		
LS5-42W	5000	42	7	49	42 x 56	66 x 84	74	1	460/3/60	925		
LS8-48W	8000	48	9	57	48 x 66	72 x 96	30	3.2	460/3/60	1550		
LS2-60W	2000	60	10	70	54 x 86	84 x 120	20	3.2	460/3/60	1650		
LS4-60W	4000	60	10	70	54 x 86	84 x 120	20	3.2	460/3/60	1725		
LS5-60W	5000	60	8	68	54 x 86	84 x 120	29	3.2	460/3/60	1800		
LS6-60W	6000	60	10	70	54 x 86	84 x 120	30	3.2	460/3/60	1800		
LS8-60W	8000	60	10	70	54 x 86	84 x 120	42	3.2	460/3/60	2150		
LS2-72W	2000	72	10	82	60 x 102	96 x 132	24	3.2	460/3/60	2450		
LS4-72W	4000	72	10	82	60 x 102	96 x 132	38	3.2	460/3/60	2550		
LS6-72W	6000	72	12	84	60 x 102	96 x 132	41	3.2	460/3/60	2700		
LS2-84W	2000	84	10	94	60 x 120	96 x 156	35	3.2	460/3/60	2750		
LS4-84W	4000	84	10	94	60 x 120	96 x 156	52	3.2	460/3/60	2850		
LS6-84W	6000	84	14	98	60 x 120	96 x 156	56	3.2	460/3/60	3100		

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.	 Manual Hand or Foot Pump Actuation Lever type hand pump or foot pedal pump for use when manual actuation or precise positioning is required.	 Minimum Downdrift Valving* Near positive shut-off valving for use where platform must maintain position for extended periods of time.	 Continuous Duty Power Units* Specially designed power units with motors capable of many motor starts per hour.
 Air Motor Driven Power Units For use where electrical actuation is undesirable and shop air is available; meets explosion proof requirements.	 Cross Check Valving* Locks oil in cylinders to eliminate deflection caused by oil transfer. Used in certain side loading applications.	 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 logs or cycles.	 Screw Jack* Lift is actuated by gear motor driven worm or ball screw. For more precise, repetitive positioning or where hydraulics are not desired.
 DC Power Units Direct current power units for use with battery power.	 Power Units Full JIC Style Continuous Running Power Units* Continuous running power unit built to JIC specifications.	 Double Acting Cylinders* For special applications where it is necessary to provide both power up and power down.	 Hot and Cold Temperature Hydraulic Packaging Special sealing and hydraulic fluids for use in hot or cold atmospheres.
 External Power Unit* Power unit is connected to lift only by hydraulic hoses.	 No Coast Valving* Fast acting hydraulic valving, which decreases upward coast, for use where more precise positioning is desired.	 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.	 Velocity Fuse(s)/Excess Flow Protectors Hydraulic control prevents table free fall in the unlikely event of massive hydraulic failure.







Electronic Control Options

 Wall Mounted Push Button Permanent wall mounted controls for use where a fixed operating station is desirable.	 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.)	 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 stops travel, prevents overtravel, provides height positioning, and can activate associated equipment. Should be used with mechanical stop for fixed lowered height.
 Automatic Leveling Package Optical sensing control positions table and stops travel at any preset height.	 Electrical Quick Disconnect Quick disconnect plugs for use with portable or frequently relocated lifts.	 Visual or Audible Signals Lights or bells used to warn personnel when lift is in operation.	 One-Touch Auto Leveling Increase productivity in repositioning applications. Raise or lower lifts a specific increment at the touch of a button

















Mechanical Options

 Narrow Base Reduced width base to fit special needs. Must be lagged for stability.	 Lifting Eyes Steel eye bolts allow table to be lifted with hoist. Frequently used in pit mounted applications for ease of installation and maintenance.
 Wide Base Increased width base provides extra stability for wider loads.	 Lag Plates Permanently attached plates or angles with bolt holes for lagging tables to floor.
 Sub Bases Extra base unit increases low height of standard designs. Provides a positive stop at predetermined down level. Frequently used for integration with automated systems.	 Increased Roll Over Capacity Structural strengthening of table support for use in pit installations where loaded trucks or transporters must traverse the platform in its lowered position.

Portability and Transport Options

 Semi-Live Portable Consists of wheels at one end of base and pull plate at the other, plus wheeled jack handle. Used only for moving table to a new position, and not for transporting materials.	 Flanged Wheels Steel wheels with flange for use with floor or rail track to provide unidirectional horizontal movement.
 Powered Traverse Hydraulic motor drives two wheels on a single shaft via a chain and sprocket.	 Casters A variety of casters, mounting arrangements, and floor locks is available for use where full portability and maneuverability are desired.
 Vee Groove Wheels Steel wheels with groove for use with inverted angle or Vee track to provide unidirectional horizontal movement.	 Push Bar Hand height bar to facilitate manual movement of wheeled or castered portable units.

Platform Options

 Manual or Powered Turntables Bearing mounted and supported turntables for rotating or positioning loads of work.	 Vee Cradle Platform Vee shaped platform provides centering and secure handling of cylindrical loads, such as rolls.	 End-Shifting Platform Manual or powered platform end-shift used to align loads with other handling systems or operating equipment.	 Gravity or Powered Conveyor Tops Roller conveyor tops for integration with other handling equipment or systems.
 Tilting Tops 30°, 45°, and 90° tilting platforms for better positioning of certain loads.	 Fork Pockets Structural fork pockets allow entire unit to be lifted and moved by fork truck.	 Ball Transfer Top Fixed or retractable ball conveyors for omnidirectional movement of load on platform.	 Throw-Over Plates Hinged plates used to provide a bridge between the platform surface and an adjacent fixed height surface.
 Access Plate Removable or hinged plate in platform surface allows access to power unit and hydraulics when lift is in lowered position.	 Stainless Steel Platform Corrosion and damage resistant surface for use with corrosive materials or where frequent wash down is required.	 Fixed and Removable Handrails with Snap Chain For use in applications involving personnel lifting. Removable rails allow access from any side when lift is not in use.	 Bellows Accordion Skirting Single-ply stitched polyester skirting covers mechanism between platform and base. Also available as boots to cover cylinders only. (See photo on page 10)
 Anti-skid Platform Surfaces Diamond tread platform surface or abrasive type paint provide better traction for powered vehicles and reduce danger of personnel slipping.	 Wheel Chock Counter-weighted wheel chock recessed in table top. Automatically engages as lift raises and prevents wheeled vehicle from rolling in set direction.	 Bevel Toe Guard 30° bevel on platform sides provides warning contact without abrupt shear point when lift table is installed in pit.	 Toe Sensing Edge Automatically reverses lift on contact with any obstruction.

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 leg rollers 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.