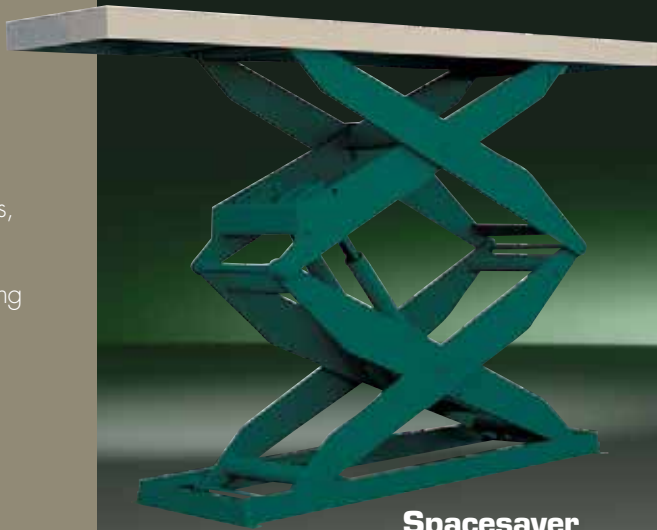


## **Spacesaver® Lifts**

LSH Spacesaver® lifts can be used as personnel work platforms, as cargo lifts, between levels as mezzanine lifts, and for positioning test apparatus or tools. These lifts are available with vertical travel up to 12 feet. Capacities range from 1,000 to 12,000 pounds.



**Spacesaver  
Lifts**



# 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.

# Specifications

## LSH Series Spacesaver High Rise 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)						
LSH 1-36	1500	36	10	46	24 x 32	36 x 48	16	1.0	115/1/60	600
LSH 1-48	1000	48	9½	57½	24 x 40	36 x 54	21	1.0	115/1/60	750
LSH 2-48	2000	48	9½	57½	24 x 40	36 x 54	42	1.0	115/1/60	800
LSH 4-48	4000	48	12	60	30 x 42	48 x 60	16	3.2	460/3/60	1250
LSH 6-48	6000	48	14	62	32 x 42**	48 x 60	35	3.2	460/3/60	1300
LSH 1-60	1000	60	10½	70½	24 x 48	36 x 60	27	1½	115/1/60	750
LSH 2-64	2500	64	12½	76½	24 x 53	42 x 66	16	3.2	460/3/60	1100
LSH 5-60	5000	60	14	74	30 x 53	48 x 66	30	3.2	460/3/60	1800
LSH 8-60	8000	60	14	74	30 x 54	48 x 66	43	3.2	460/3/60	1900
LSH 12-60	12000	60	18	78	36 x 67	60 x 84	95	3.2	460/3/60	3200
LSH 1-72	1500	72	12½	84½	20 x 53	36 x 66	58	1½	115/1/60	900
LSH 2-72	2000	72	12½	84½	20 x 53	36 x 66	75	1½	115/1/60	950
LSH 5-72	5000	72	14	86	32 x 57**	54 x 72	36	3.2	460/3/60	2000
LSH 2-84	2000	84	17	101	33 x 69	60 x 90	29	3.2	460/3/60	1900
LSH 4-84	4000	84	17	101	33 x 69	60 x 90	34	3.2	460/3/60	2200
LSH 6-84	6000	84	17	101	33 x 69	60 x 90	62	3.2	460/3/60	2350
LSH 1-96†*	1000	96	17¼	113¼	24 x 53	42 x 66	17	3.2	460/3/60	1600
LSH 3-96	3000	96	17	113	36 x 77	60 x 108	50	3.2	460/3/60	3000
LSH 5-96	5000	96	17	113	36 x 77	60 x 108	64	3.2	460/3/60	3500
LSH 10-96	10000	96	20	116	36 x 77	60 x 108	102	3.2	460/3/60	4500
LSH 2-114	2000	114	17	131	33 x 88	60 x 108	36	3.2	460/3/60	3400
LSH 5-120*	5000	120	24	144	44 x 69***	72 x 96	102	3.2	460/3/60	4800
LSH 3-128	3000	128	21	149	42 x 96	72 x 120	48	3.2	460/3/60	3400
LSH 6-128	6000	128	21	149	42 x 96	72 x 120	80	3.2	460/3/60	3500
LSH 2-144*	2000	144	24	168	42 x 77	72 x 108	68	3.2	460/3/60	4350
LSH 4-144*	4000	144	24	168	42 x 77	72 x 108	136	3.2	460/3/60	4500
LSH 5-144	5000	144	21	165	42 x 108	72 x 144	125	3.2	460/3/60	4000

† 1¼" Lateral motion

\*Three sets of legs—All others have two

\*\* Base frame width 30

\*\*\*Base frame width 42

## 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 hoses.



**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 oil in cylinders to eliminate deflection caused by oil transfer. Used in certain side loading applications.



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



**No Coast Valving\***  
Fast acting hydraulic valving, which decreases upward coast, for use where more precise positioning is desired.



**Minimum Downdrift Valving\***  
Near positive shut-off valving 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 where hydraulics are not desired.



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



**Velocity Fuse(s)/Excess Flow Protectors**  
Hydraulic control prevents table 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.)



**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.



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



**Visual or Audible Signals**  
Lights or bells used to warn personnel when lift is in operation.



**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.



**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.



**Powered Traverse**  
Hydraulic motor drives two wheels on a single shaft via a chain and sprocket.



**Vee Groove Wheels**  
Steel wheels with groove for use with inverted angle or Vee track to provide unidirectional horizontal movement.



**Flanged Wheels**  
Steel wheels with flange for use with flat or rail track to provide unidirectional horizontal movement.



**Castors**  
A variety of casters, mounting arrangements, and floor locks is available for use where full portability and maneuverability are desired.



**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.



**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.



**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.



**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.



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



**Ball Transfer Top**  
Fixed or retractable ball conveyors for omnidirectional movement of load on platform.



**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.



**Bevel Toe Guard**  
30° bevel on platform sides provides warning contact without abrupt shear point when lift table is installed in pit.



**Gravity or Powered Conveyor Tops**  
Roller conveyor 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-ply stitched polyester 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.

## 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.

\* 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.