

Tandem Lifts

LST Tandem lifts provide level rise for long loads such as lumber, pipes, sheets, bar stock, and assemblies. These lifts are typically used as feeding tables for tube welders, formers, and panel saws as well as for bundling and banding bar stock, lumber, and other materials.

Tandem design allows the combination of high capacity and low collapsed height to support loads up to 7' x 17'. They are available in extra long and extra wide configurations.



Tandem 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.

LST Series Tandem 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)						
LST 4-36	4000	36	6½	42½	24 x 96	48 x 120	42	1	115/1/60	1150
LST 8-36	8000	36	6½	42½	24 x 96	48 x 120	84	1	115/1/60	1250
LST 12-36	12000	36	7½	43½	24 x 96	48 x 120	44	3.2	460/3/60	1400
LST 4-48	4000	48	8	56	24 x 132	48 x 168	18	3.2	460/3/60	1850
LST 8-48	8000	48	8	56	24 x 132	48 x 168	36	3.2	460/3/60	1950
LST 12-48	12000	48	8	56	24 x 132	48 x 168	54	3.2	460/3/60	2050
LST 4-60	4000	60	10	70	24 x 172	48 x 204	20	3.2	460/3/60	2550
LST 8-60	8000	60	10	70	24 x 172	48 x 204	40	3.2	460/3/60	2700
LST 10-60	10000	60	8	68	24 x 172	48 x 204	58	3.2	460/3/60	2850
LST 12-60	12000	60	10	70	24 x 172	48 x 204	60	3.2	460/3/60	2850

LST Series Wide Base 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)						
LST 4-36W	4000	36	6½	42½	36 x 96	60 x 120	42	1.0	115/1/60	1350
LST 8-36W	8000	36	6½	42½	36 x 96	60 x 120	84	1.0	115/1/60	1450
LST 12-36W	12000	36	7½	43½	36 x 96	60 x 120	44	3.2	460/3/60	1600
LST 4-48W	4000	48	8	56	48 x 132	72 x 168	18	3.2	460/3/60	2250
LST 8-48W	8000	48	8	56	48 x 132	72 x 168	36	3.2	460/3/60	2350
LST 12-48W	12000	48	8	56	48 x 132	72 x 168	54	3.2	460/3/60	2450
LST 4-60W	4000	60	10	70	54 x 172	84 x 204	40	3.2	460/3/60	3250
LST 8-60W	8000	60	10	70	54 x 172	84 x 204	40	3.2	460/3/60	3400
LST 10-60W	10000	60	8	68	54 x 172	84 x 204	58	3.2	460/3/60	3550
LST 12-60W	12000	60	10	70	54 x 172	84 x 204	60	3.2	460/3/60	3550

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. The listings above represent Southworth's most popular tandem lift arrangements, however, practically any lift models can be tandemized end to end or side by side - Consult Factory.







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 jogs 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 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 flat or rail track to provide unidirectional horizontal movement.
 Powered Traverse Hydraulic motor drives two wheels on a single shaft via a chain and sprocket.	 Castors 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.