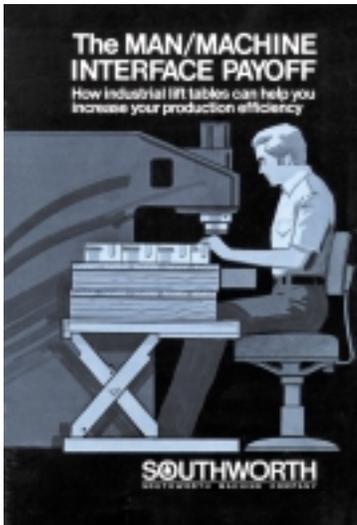


*Improve Productivity and Safety,  
with Efficient Lifting and Positioning*



# Increase Worker Productivity & Profits with Improved Ergonomics



THE MAN/MACHINE INTERFACE PAYOFF  
Published 1972

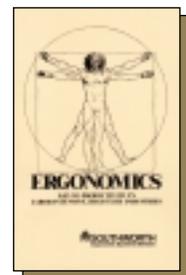
When we began writing about *Ergonomics* more than 30 years ago, we were simply attempting to bring a more scientific perspective to a common sense issue... If you consider the capabilities and limitations of the worker in the design of the workplace, the worker will be more productive and that productivity contributes to profit. At the time we had no idea that the topic of ergonomics would become so widely discussed, by so many people, in so many professions, with so many agendas. Despite all of the politics and hoopla, our view today is the same as it was 30 years ago. The practical application of ergonomics principles is a core business proposition. Yes, it is about reducing worker fatigue and the risk of worker injury, which are worthwhile objectives, in and of themselves. However, the real desired

benefit driving factory or warehouse investment is increased productivity and an improved bottom line. That's what an investment in practical ergonomics produces and that is the point we have been making continuously for decades.

Today, in the midst of controversy surrounding OSHA and the ergonomics rulemaking, seeing the bottom line benefit of common sense ergonomics is becoming increasingly difficult. It's there... In fact, improvement in productivity from the use of ergonomic equipment is easier to achieve and more important than ever. Furthermore, lean manufacturing requires minimizing material handling and many of the products described in this brochure can do just that. In an effort to demonstrate how that ergonomic equipment will "pay for itself" we have developed a simple cost justification wheel. It shows how percentage gains in productivity can provide full payback of equipment costs in less than one year. If you would like a wheel, just give us a call and we'll be happy to send you one.

Southworth is proud to offer more products that improve productivity through practical ergonomics than any other materials handling company. The following pages have specific products and descriptions of how they can improve your company's bottom line.

If you don't see exactly what you're looking for visit [www.SouthworthProducts.com](http://www.SouthworthProducts.com) or give us a call at 800 743-1000.



# *The Industry's Broadest and Most Comprehensive Line of Lifting and Positioning Equipment*



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# ***Work Positioning Tables: Improve Productivity While Reducing the Risk of Injury***

There are literally hundreds of uses for lift tables in manufacturing, warehousing and distribution facilities. And in every case the addition of these inexpensive devices makes the job faster, safer, and easier.

Some typical applications include: machine feeding and offloading; product assembly; inspection quality control repair; feeding and offloading conveyors; and bridging different conveyor levels.



**W**ith more models and more options than any other manufacturer, Southworth is your first and best choice for lift tables. Exclusive features such as contoured legs for lower collapsed height, lubricated for life bearings, low pressure hydraulics and user-friendly comfort edge design, along with maintenance features like wear indicating rollers, make Southworth tables stand out from all others in performance, ease of use and service life.



### Backsaver Lift™

Choose from over one million variations. Capacities of 2,000, 4,000, and 6,000 lbs. Lifting heights up to 56". Higher capacities and lifting heights are available.

Backsaver Lifts can be furnished with conveyor tops, turntables, tilt tops and a wide range of other options to provide the added measure of control, safety, portability or convenience that best suits the application.

This series expands into our LS Series Plus Lift Tables that provide additional capacities, travel and dimension.



### Flush Mount Turntable Lift

All the features of a standard Backsaver Lift plus the near side positioning convenience of a built-in turntable. Exclusive Southworth design is set in flush to the table top in a clean, uncluttered design with no significant increase in lowered height. The turntable is rotationally locked when the lift is in the full down position.



### Backsaver Lite™

If you lift loads of 1,500 lbs. or less, you can have heavy-duty, highly reliable, industrial grade lift tables without paying for extra capacity you don't use.



### Backsaver Lite™ Compact

Available in capacities of 500 and 1,000 lbs. The double-scissor mechanism allows up to 36" lifting height with a footprint as small as 12" x 24". Portability options available.



### Pneumatic Lift Tables

These rugged, powerful lift tables can be used anywhere that "shop air" is available. They can handle loads up to 4,000 lbs. with as little as 80 psi. Because they are pneumatic there is no risk of process contamination.



### Stainless Steel Lift Tables

For applications that require sanitary wash-down, Southworth can provide stainless steel or corrosion resistant coated machines.

### A Wide Variety of Options For an Added Measure of...

Control



Safety



Machine Protection



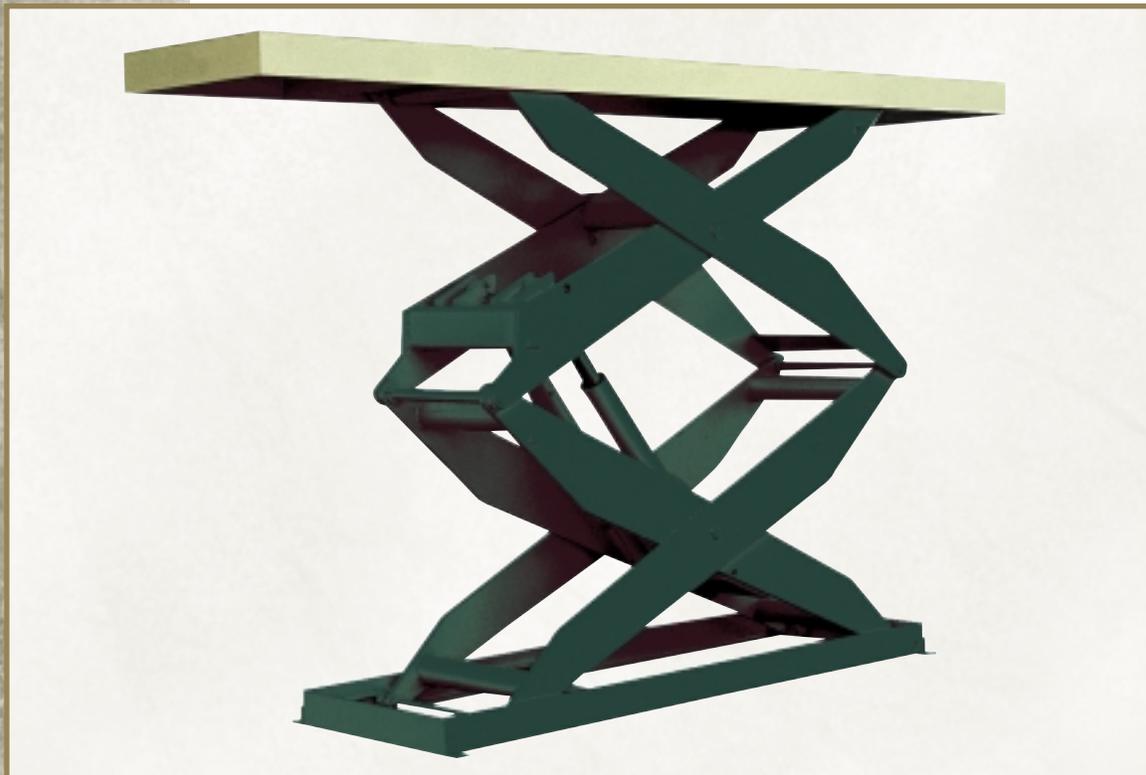
Portability



*Positioning the work is easier, safer, and much more productive than positioning the workers. The elimination of lifting, bending and reaching is made possible by vertical adjustment to an infinite number of positions within the lift's working range. The addition of various options can provide an added measure of improvement to specific applications.*

# ***Special Use Lift Tables with Increased Capacity, Length, Width, Vertical Travel and Pallet Jack Accessibility***

Some lift table requirements (heavy loads, extreme load dimension, high vertical travel and pallet jack accessibility) fall outside the parameters of our Backsaver Line. In such cases, one of our Special Use Lifts can do the job nicely.



In addition to the Backsaver line, Southworth manufactures a number of lift tables for specialized applications. They include tables with extra long and extra wide platforms, increased capacity, extended vertical travel and hand pallet truck accessibility.



### Floor Height Lift Tables

Lowers flat to floor level and is designed for safe hand truck accessibility. You can roll on a floor truck or pallet jack easily. Elastomeric front edge protects against toe injury.



### L Series CAM Lifts

Specifically designed to provide high load capacity in a small footprint. Capacities from 8,000 lbs. to 30,000 lbs.



### LIFTMAT™ Lift Tables

In facilities where pits can't be built, you can still have the advantage of full four side accessibility with a roll-on lift table. The LIFTMAT™ has a collapsed height as low as 3", capacities to 4,000 lbs, lift height to 35" and platform sizes to 48" x 96".



### Tandem Lifts

You can double the length, width, or both of standard lift tables by using tandems. These lifts are ideal for long or wide loads such as lumber, sheets, pipe, bar stock and long assemblies.



### Mast Style Lifts

In addition to scissor type lifts, Southworth can provide a wide variety of mast style lifts. These are available with adjustable forks or a flat smooth platform.



### Heavy-Duty Lifts

For heavy, bulky loads, these extremely rugged, strongly reinforced tables are ideal. They can lift loads to heights over 8 feet.

Standard models up to 25,000 lbs. Custom designs are available for greater capacities.



### Spacesaver™ Lifts

Up to 144" of vertical travel with minimum platform size is made possible through the use of multiple-scissor mechanisms. These lifts are extremely stable and ideal for use as mezzanine lifts, cargo lifts, positioning tables and in automatic palletizing. Capacities to 12,000 lbs.

*Incorporating these special use lift tables into many applications not only makes a single worker more productive, it often allows one worker to perform tasks that normally require two. In either case, the work environment is always safer and more efficient.*

# *Handle Parts in Containers or Totes Without Bending, Lifting or Reaching*

Accessing parts in containers is one of the most significant productivity thieves in any manufacturing or assembly operation. Getting even the lightest parts from the bottom of containers is difficult and requires workers to bend and lift to get them out. Bringing parts closer to the worker and making them easier to access can be accomplished by providing workers with a Southworth Container Tilter.



**S**outhworth Container Tilters are designed to improve worker productivity and safety by positioning wire baskets and other containers so that parts are easily accessible for machine feeding and off loading without the need for bending, stretching, reaching or unnecessary lifting.



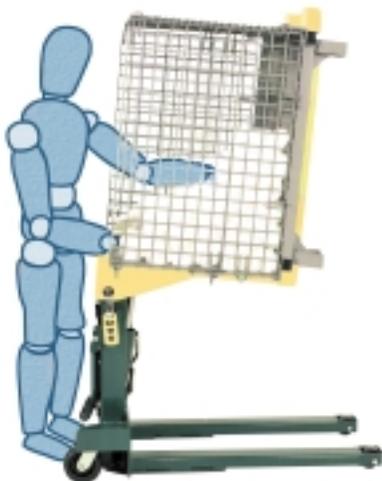
### E-Z Reach™ Portable Tilter

E-Z Reach™ Portable Tilters have casters that allow them to pick up staged containers, and move them to workstations. Capacities are 2,000 and 4,000 lbs. with tilt angle up to 85°. Choose AC or DC power. Available in Manual or Powered Drive configuration.



### Container Transporter/Rotator

When applications require workers to “walk into” containers to access parts, this unit is the solution. It is highly portable and offers independent control of lift and rotate functions.



### Pneumatic Lift and Tilt

Tilt Loads up to 4,000 pounds to a 40 degree angle with as little as 80 psi. Also available in a tilt only model.



### E-Z Reach™ Roll-On Tilter

Fork pockets allow container to be placed on E-Z Reach™ Tilter by either fork lift or hand pallet truck.



### Portable Lift and Tilt

Independently control lift and tilt functions at a fraction of the cost of lift and tilt table. Tilt 2,200 lb. Loads up to 90° (adjustable pivot point).



### E-Z Reach™ Universal Tilter

The wide pan allows all types of containers to be placed directly on the tilter by fork trucks or hand pallet trucks.



### Z-Lift & Tilt Tables™

All the best features of a lift table and a tilter in a single unit. Independently control lift and tilt. Vertical travel to 32" and tilt angles from +5° to -45°.



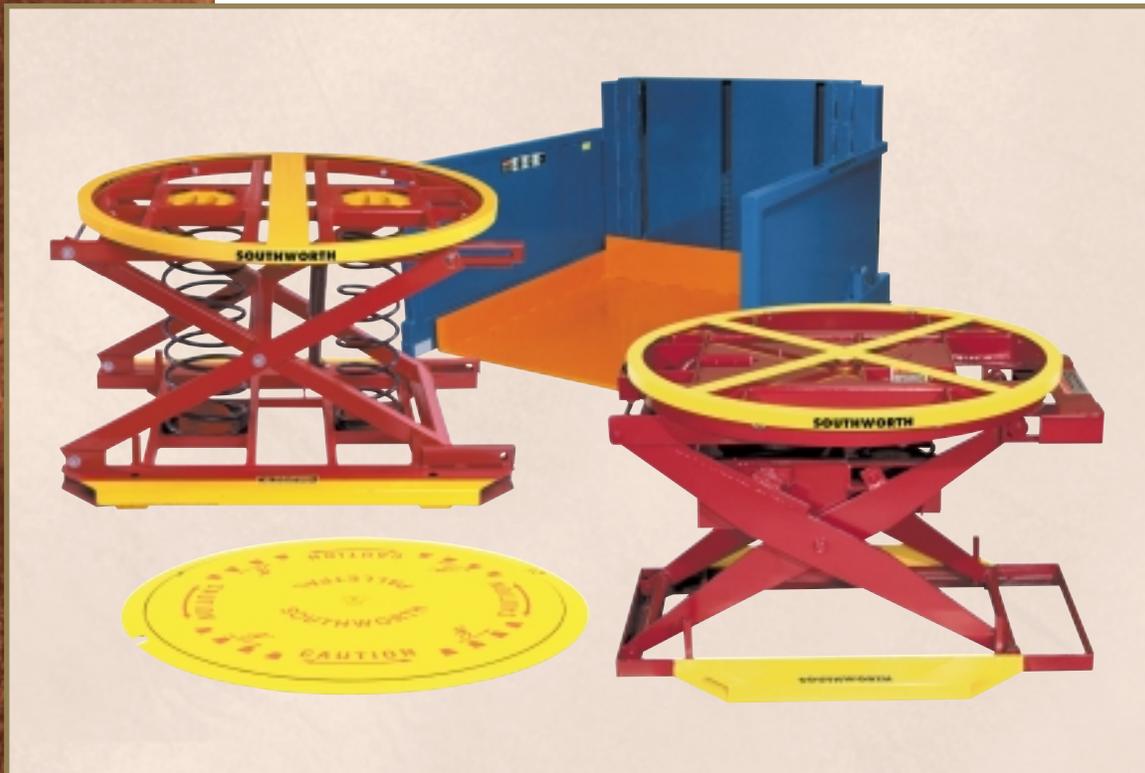
### E-Z Reach™ Lift and Tilt

Precisely position containers with independent control of lift and tilt angle. Can be furnished with various capacities, platforms and degrees of tilt.

*In almost every case we've ever seen, production machines work faster than the people feeding them. Getting parts to machines faster not only increases worker productivity, it increases machine productivity, improving R.O.I. and shortening the amount of time it takes for production equipment to "pay for itself", while always improving the safety of the worker.*

# *Load and Unload Pallets Quickly and Safely Without Lifting, Stretching or Walking*

More items are shipped on skids or pallets than all other packaging methods combined. Loading and off loading these pallets is always a backbreaking, time consuming job. Southworth Pallet Handling Products speed up and simplify the process, increasing the amount of goods that can be shipped or received every day.



Nearly two decades ago, Southworth introduced the original PalletPal® Level Loader for manual pallet loading and unloading. Since then, the Southworth pallet handling line has grown to include both spring and air actuated units, roll-on units for use with hand pallet trucks, turntables, stretch wrappers and pallet rotators.



### PalletPal® Level Loader Spring Actuated

This simple, automatic unit incorporates a turntable to allow nearside loading and a mechanical spring system which lowers or raises the unit to maintain a constant working height. No power or air supply is required. Accommodates loads up to 4,500 lbs.



### PalletPal® Level Loader Pneumatic Option

Designed for use where pallet loads vary widely and are changed frequently. The airbag/spring combination provides linear response while maintaining a constant working height. Load range up to 4,500 lbs.



### Roll-On™ Level Loader

Lowers to floor height so pallets can be rolled on with a hand pallet truck. Adjusts to most convenient working height.

Narrow side panels virtually eliminate reach-over and a front edge photo eye provides operator protection.

*Available with One Touch Auto-Load Leveling Control.*



### Roll-On™ Level Loader Turntable Option

For even greater convenience, our popular line of Roll-On Level Loaders is now available with a built in turntable.



### Pallet Rotators/Skid Turners

For transferring skid loads from one skid to another or from skid to slip sheet. They are also ideal for removing torn bags and other damaged goods that are typically found on the bottom of loads. The unit clamps and then rotates a full 180°.



### PalletPal® Stretch Wrappers

Simply wheel a loaded pallet onto the disc and move the stretch wrapping wand up and down the mast as the powered turntable spins the load. Dramatically improves productivity and safety over hand wrapping.



### PalletPal® Disc Turntables

Low-profile design, less than 1" high, allows PalletPal Disc Turntables to accept a hand pallet jack. By rotating the load, the operator always works from the near-side without walking around the pallet.



### Turntable

Ideal for unit loads of varying parts. Provides near side loading and full operator control of the vertical position.

*By maintaining a constant working height and near side access as objects are added or removed, workers can build and break down pallet loads quickly and easily, while expending the minimum effort and avoiding the risk of injury. Rotators can further improve productivity and safety by eliminating nearly all of the manual handling.*

# *Move Anything Effortlessly Without Lifting in the Laboratory, Plant, Warehouse, or Office*

In virtually every plant, shop, stockroom, warehouse, or office there is a need to transport materials, equipment and supplies from place to place and with an absolute minimum of lifting. Employees often risk injury by carrying objects and loads from one location to another, or from lifting them from the floor to a workbench or shelf. Economical lifter/transporters combine two important functions in one machine to do the job faster and safer.



**S**outhworth's complete line of manual and powered transport equipment is designed to meet the widest range of application needs and to bring safe handling well within the budget requirements of any company or job.



### Dandy™ Lifter/Transporter

Essential wherever lifting, positioning, assembling, stacking, unstacking, transporting or the need for an adjustable height work surface is part of the job. The Dandy Lift is available in capacities up to 1,760 lbs.



### High Lift Dandy™

With the ability to lift loads as heavy as 770 lbs. to heights of over four feet, the A-350 Dandy Lift is ideal for order picking from storage shelves, positioning parts or sub-assemblies in assembly operations or any other application requiring the ability to transport and lift to shoulder heights.



### Dandy Leveler™

Spring actuated platform can deliver the load and then automatically adjust for level feeding and offloading. Spring tension adjusts for varying loads.



### Backsaver Lite™ Portable

If you lift loads up to 1,100 lbs or less, you can have a highly reliable, industrial grade lift table that easily moves the load and lifts it with the touch of a button. These units are available with manual or powered drive.



### Backsaver Lite™ Powered

A Backsaver Lite Portable with forward reverse power drive for effortless relocation within the plant.



### The Elph™

Ideal for any white coat industrial application including: electronic assembly, laboratories, clean rooms or anyplace where a clean, quiet, versatile little helper can be used.

Driven by a DC motor and linear actuator, there are no concerns of hydraulic fluid leakage. Fully charges in four hours from a standard 110 V AC outlet.



### Pallet/Skid Dandy

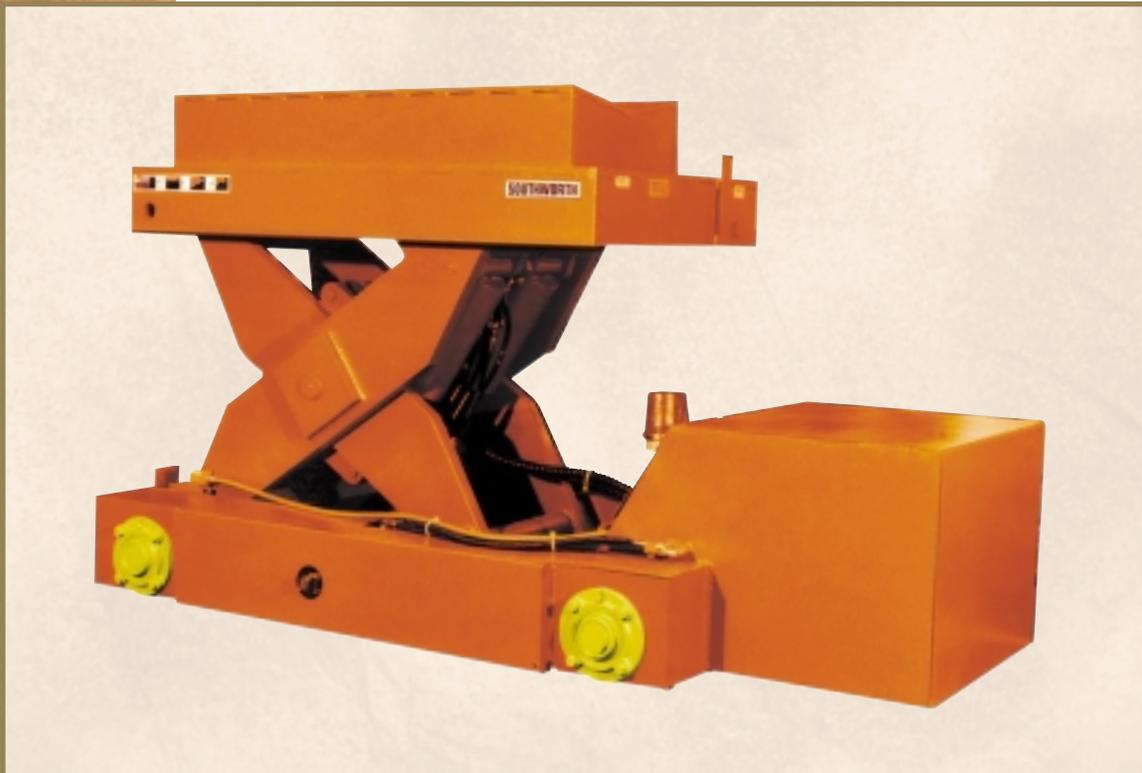
F500 L and M500 L Dandy Lifts are designed for transporting loads on skids, multi-legged composite pallets or in containers. They have a capacity of 1,100 lbs and can be raised and lowered to an infinite number of positions within their working range by means of a foot pedal activated hydraulic pump.



*Sliding boxes off of pallets, workbenches, or shelves onto lifter/transporters eliminates lifting. Once loaded they move easily around the plant, even in tight spaces where a forklift or pallet truck could not go. Loads can then be vertically positioned (by manual foot pump or electric power), for easy off loading. Workers are more productive, fatigue is reduced and the risk of injury is minimized.*

# *Facility Lifts, Dock Lifts, Coil Cars and Custom Engineered Solutions*

Southworth has designed, engineered, built, and installed lifts for almost every application imaginable. If we can't satisfy your needs with a standard product, we have the ability to modify a lift or even design a new one specifically for you.



**W**e have seen just about every application imaginable. If you think there is not a piece of equipment to satisfy your needs, think again. If we have not already built it, our engineers will be eager to custom design a solution.



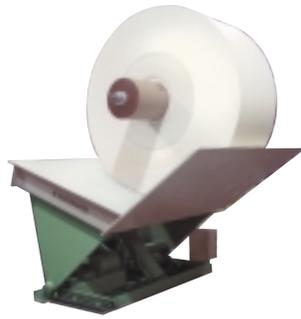
### Coil Cars

Extremely rugged scissor lift mechanism and powerful hydraulics make it possible to lift, transport and feed jumbo rolls and coils with weights up to 70 tons.



### Dock Lifts

You can save the high cost of dock construction, work from any truck bed level to grade level and handle unstable loads quickly and safely with dock lifts. These lifts can be installed indoors or outdoors and will handle loads of up to 20,000 lbs.



### Roll Handling Tables

Lifting heavy rolls for transport or loading and unloading processing machines is a simple, one operator job with Southworth roll handling tables. They can be combined with other products to create complete roll handling systems.



### Container Unloaders

Accept a wide range of containers, and gently discharge their contents onto parcel and bundle processing systems.



### Upender and Tilters

Southworth upenders are designed to provide safe and efficient 90° repositioning of heavy, bulky loads such as material rolls or large assemblies.



### Vertical Reciprocating Conveyors (VRC)

With capacities to 4,000 lbs and standard elevations up to 22 feet, VRCs carry loads to lofts, basements, mezzanines, and upper stories safely and efficiently.



*Southworth has more engineers and a longer history than any other lift table manufacturer. When an application is encountered that requires custom equipment, they work closely with the user to make sure the best possible solution is used. Although there isn't much they haven't seen, they remain dedicated to a philosophy of innovation and accommodation.*

# *A Tradition of Innovation and Manufacturing Excellence*

For over 110 years, Southworth has been designing and building products that will increase worker and machine productivity. During this long history, Southworth has become the driving force behind the development and design of more lifting, positioning, and transporting equipment than any other company in the world.

This dedication to innovation is matched by our commitment to manufacturing excellence. Our highly skilled employees work in modern, efficient facilities utilizing the newest and best engineering and manufacturing technology. In fact, our products are so well built, it's not uncommon to see Southworth products still on the job that were put into service before World War II.



## *All the Information You Need at the Click of a Mouse*

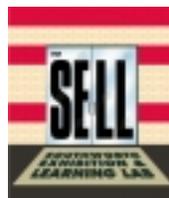
In order to provide customers with the information they need when they need it, Southworth has established a comprehensive information website. Users can view product specifications, get help picking the right product by using the interactive state-of-the-art application guides, plan a budget, purchase products or even find helpful after sale service information.

**Visit us at [www.SouthworthProducts.com](http://www.SouthworthProducts.com)**



## *Factory Trained Local Distributors*

Southworth Distributors are the industry's best trained. Our Southworth Exhibition and Learning Lab [SELL] keeps them up to date on product information, industry trends and application techniques. You can benefit greatly by taking your Southworth distributor on a walk through your plant. The trained eyes of these specialists can identify trouble spots for you and in many cases help you to correct workplace problems that are robbing you of productivity and exposing you and your workers to the dangers and multiple costs of injuries.



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