

Scissor Lift Tables and Material Handling Systems



EnKon Product Line



Belt Drive Lifts



Ball Screw Lifts



Air Lifts



Hydraulic Lifts



A-Series Quick Ship



Tilts



Lift and Tilts



Rotates - Power



Rotates - Manual



Lift and Rotates



Cart Lifts



Operator Lifts



Post Lift Systems



Custom Operator Lifts

EnKon - Engineering at Its Best



An automated electric ball screw lift system with VFD controls raises a vehicle frame for transfer to the assembly line. (V0781)



An electric belt drive lift with programmed stop levels integrates easily with a high speed conveyor system for the agricultural industry. (V0877)



A stacked lift system with special safety features, built for NASA, supports parachutes for loading into a space rocket. (V0633)



A lift system is integrated into a bus assembly system, raising the bus shell to a proper position for transfer to the paint booth. (V0112)



Two heavy duty, high capacity air lifts are synchronized to raise a back hoe easily and move it up/down the assembly line with air casters. (V0424)



A 50 foot long scissor lift system, PLC controlled, is used for lifting and rotating irrigation pipe in packing operations. (V0679)



An operator lift system, 200 feet long, is placed along both sides of a vehicle assembly line, providing proper ergonomics for every worker. (VP0015)



A high capacity lift system, built to lift and move rocket ships, is equipped with air casters allowing a 20,000 lb load to be pushed around the plant floor easily. (VP0002)



A portable, heavy duty scissor lift table, used for assembling Toro equipment, can be easily moved from station to station by use of air casters mounted to the base of the system. (V0752)

Electric Scissor Lift Table Systems

LIFE CYCLE

TESTED
&
APPROVED

EnKon Electric Lifts provide precision control at all positions and speeds. Features such as long-standing static positioning and accurate repeatability allow maximum control in a variety of production applications.

Features and Benefits

- **Precision controlled**
for accurate repeatability.
- **Professionally engineered**
for performance maximization and versatility in integration
- **All purpose lifting capacities**
from 100 pounds (45 kg) up to 50,000 lbs (22,680 kg)
- **High-strength steel welded construction. Built to safety factors required by customer application**
complies with ANSI MH29.1-1994
- **High duty cycle**
for reliability
- **PTFE (polytetrafluoroethylene) overlay on bearings at all pivot points and self-lubricating**
for high loads and long life
- **Speed easily controlled with Variable Frequency Drives (VFD)**
for smooth lift acceleration and deceleration.
- **Limit switch or encoder sensing options**
for accurate positioning
- **Long standing static positioning**
for maintaining a load position indefinitely
- **Integrates well with robotics, conveyors, skillet systems, machine builders, workstations and production assembly lines**
for ease of use
- **Compatible with alternating current AC or direct current DC motors**
for versatility
- **Clean and green technology -- places the power of the motor where it is used**
for less power consumption and cleaner environment
- **Low decibel noise level**
for meeting OSHA standards for work environment safety
- **All surfaces cleaned, primed and coated with enamel based acrylic paint**
- **Safety skirting - Accordion style**
to protect from pinch points and debris
- **Safety toe stop**
to stop the lift's downward movement immediately



Safety Locking Systems

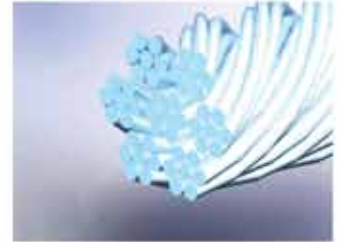
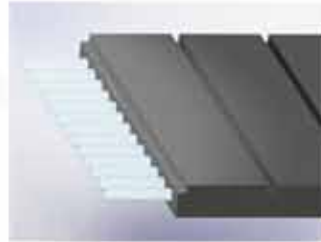
- **Double nut system (ACME screw)**
for anti-fall in the event the load bearing nut fails
- **Catch nut system (Ball screw)**
for anti-fall in the event the load bearing nut fails
- **Hydraulic cylinder with velocity fuse**
locks the lift at infinite positions or controlled descent
- **Mechanical ratchet lock arm or leg**
locks the lift at multiple fixed positions
- **Multiple belt system with limit switches**
Full redundant belt integrated with controls
for anti-fall in the event the primary belt fails
- **Fast acting motor brake**
- **Electromotive force (EMF) controls**



PATENTED



Vertical Robot Belt Drive Scissor Lift Table Systems



- Precision controlled +/- .06 (1.5 mm)
- Controlled descent device meeting ANSI standards
- Anti-fall device - double belt system with limit switch control for extra safety
- Very low maintenance requirements
- Patented technology

Vertical Robot Ball Screw Scissor Lift Table Systems

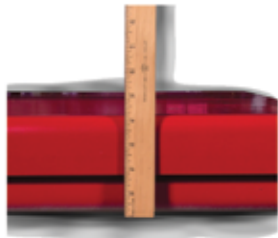


- Precision controlled +/- .03 (.76 mm)
- Controlled descent device meeting ANSI standards
- Anti-fall device - hydraulic cylinder with velocity fuse
- Double nut system with limit switch control to lock the lift for extra safety
- Angular contact bearings for high performance under axial loads
- Extremely low maintenance requirements
- Patented technology

Air Scissor Lift Table Systems

A solid reputation for designing and manufacturing standard and custom Air-Operated Lift Systems for a variety of applications is the foundation of EnKon Scissor Lift expertise.

Features and Benefits



4"
Closed



- **100% air operated**
for low maintenance, ease of use and work environment safety
- **Low profile of just 4"**
for accommodating a wider range of worker heights & applications
- **Modular design**
for easily customizing to application specifications
- **High-strength steel welded construction. Built to safety factors required by customer's application**
complies with ANSI MH29.1-1994
- **High capacity lifting up to 57,000 lbs (25,855 kg)**
- **Variable duty cycles from low to high**
for cost flexibility to fit each application
- **PTFE (polytetrafluoroethylene) overlay on bearings at all pivot points and self lubricating**
for high loads and long life
- **Captured wheel guides**
to prevent top and bottom lift platforms from tipping
- **Ability to stack lift modules**
for added lift travel
- **Patented direct one-to-one lift ratio**
the air bag performs all of the lifting power, resulting in less stress on the scissors, for lift longevity
- **Virtually maintenance-free**
for low cost operation and low downtime
- **Safety pressure release**
to prevent the air bag from overinflating
- **Clean and green technology -- no leaking fluids**
for a cleaner and safer work environment
- **All surfaces cleaned, primed and coated with enamel based acrylic paint**
- **OPTIONS INCLUDE:**
 - **Lockout valve and filter regulator**
for enhanced performance of air supply
 - **Piloted internal valves with check valves**
prevents undesired lift descent
 - **Portability kits**
allows lift system to be moved with ease
 - **High speed - full cycle in less than 10 seconds**
for applications that require speed
 - **Safety skirting**
to protect from pinch points and debris

PATENTED

EnKon



Low Profile

MADE IN USA

Hydraulic Scissor Lift Table Systems

EnKon Hydraulic Scissor Lifts offer height and dimension ranges needed for many standard material handling applications.

Features and Benefits



- Standard motor and pump features include:
 - 3/4 to 3 H.P. motor
 - 24 VDC / 48 VDC / 120 VAC / 240 VAC / 480 VAC
 - high-pressure gear pump with check valve
 - pressure relief valve
 - 24 VAC gravity-down solenoid
 - adjustable flow control valve
 - hydraulic oil included
- Pump can be mounted externally or internally
per customer preference
- Variable duty cycles from low to high
for cost flexibility to fit each application
- High-strength steel welded construction. Built to safety factors required by customer application.
meets ANSI MH29.1-1994.
- PTFE (polytetrafluoroethylene) overlay on bearings at all pivot points and self lubricating
for high loads and long life
- All surfaces cleaned, primed and coated with enamel based acrylic paint
- All-steel welded construction hydraulic cylinders, honed steel. Piston rod is chromed, ground and polished
- Captured wheel guides
to prevent top and bottom lift platforms from tipping
- NEMA 4X and 13 for washdown, oil, and corrosion protection push button control enclosure
- Limit switch up or down available
for accurate positioning per specifications
- SAFETY OPTIONS:
 - Unidirectional flow control valve
for unrestricted upward flow and adjustable controlled speed down
 - Safety toe stop
to stop the lift's downward movement immediately
 - Safety skirting
to protect from pinch points and debris

Post Lift Systems

Made in USA

EnKon zero-level Post Lift Systems continue to gain in popularity over the years providing manufacturing and warehousing with the ability to easily load and raise a variety of material.

Features and Benefits



- **Zero level clearance**
for ease of loading carts or pallet jacks
- **Power selections:** (electric belt drive, electric ball screw, electric acme screw, hydraulic, air).
- **Lifting capacity 100 lbs to 20,000 lbs (9,072 kg)**
- **Capable of lifting up to 72" (1,829 mm)**
for greater ergonomic flexibility
- **Controls can be post-mounted, or pedestal mounted,**
for operator efficiency in application
- **Post base mounting plate**
for securely bolting post lift to the floor
- **Platform is customized to customers' specifications for fitting a cart, pallet, machine, etc.**
for increased efficiency
- **Numerous safety features can be added such as:**
cart lead ins; locking pins; cam locking systems; safety rails; electronic light beam sensors; toe guards; and many more.

EnKon by herkules

EnKon, a brand of Herkules Equipment Corporation, offers technological advancements in electric, hydraulic, and air lift systems, all proudly made in the USA.

Herkules Patent Numbers

These products have patent protection under one or more of the following patent numbers:

9422142, 8733508, 8714524, 866247, 8052120, 7070167, 5485860, 5193561, 5174317, 4960142, 4793369 and Patents Pending



From straight forward designs to complex, demanding innovations, our engineering capabilities have provided countless automation & material handling solutions.

Integral to our customers' success is our staff's focus, dedication, and high expectations on delivering quality equipment --- a quality that has long been associated with Herkules products.

Contact EnKon and allow our team to assist you in developing a solution to your automation or material handling requirements.

Herkules Equipment Corporation is ISO certified.

www.enkon.pro

800-444-4351

 **EnKon**TM by  **Herkules**

Herkules Equipment Corporation
2760 Ridgeway Court
Walled Lake, MI 48390-1662
Phone: 248-960-7100
Email: info@enkon.pro