

STRAD-O-LIFT[®] Trailer



- Self loading and unloading,
- Cuts turnaround time,
- Lowers labor costs,
- Boosts high density short-haul profits

KORNYLAK Corporation

KORNYLAK

Strad-O-Lift®

One-Man Loading / Unloading Control

The Kornylak Strad-O-Lift is the most efficient, labor-saving device designed for highway transportation. Combining the advantages of a straddle carrier and a conventional semi-trailer, Strad-O-Lift, driver controlled, loads itself in less than a minute. Powered by a standard truck tractor, it cruises over highways or rough roads. With the load safely carried at a low center of gravity, it delivers the cargo and unloads it in seconds.

Self-loading and unloading versatility is inherent in the design of the Strad-O-Lift. It will automatically align crooked loads. It can remove the top layer of tiered pallets*. Strad-O-Lift also has the ability to make drop shipments.

The Strad-O-Lift was developed to reduce material handling and transportation costs in the fruit industry, but it proves equally adept at handling any type of high density packaged or bulk freight. Strad-O-Lift now serves many industries in varied applications.

The Strad-O-Lift is ideally suited for high density load hauling, interplant transfer, or short hauls.

*Special Order

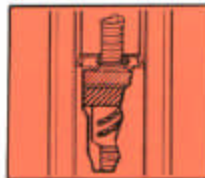
Inside Tractor Controls



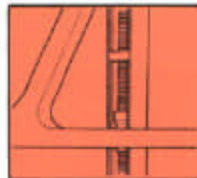
Heavy-duty Gear Box



Ball Bearing Lift Screws



Load Shock Dampners



Rubber Load Binders



Walking Beam Suspension



1 Strad-O-Lift = 3 to 4 Conventional Rigs

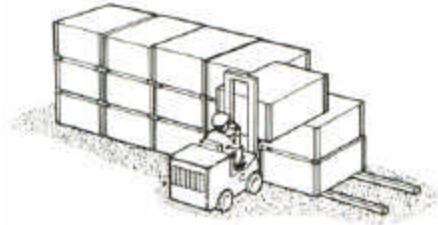
Because the Strad-O-Lift picks up and deposits its cargo by driver cab control, loading and unloading labor at the vehicle is eliminated. Field reports indicate that Strad-O-Lift out-performs other vehicles 4 to 1 on a 10-mile haul because of reduced turnaround time. Since loads can be made up without the vehicle's having to be on site, load make-up labor is more evenly distributed through an 8-hour day, eliminating overtime. Workers do not have to be idle awaiting the arrival of a tractor-trailer rig. The work load is leveled at the delivery end, too. Just as in loading, the Strad-O-Lift can be unloaded by the driver, unassisted, and without his having to leave the cab.

Levels Fork-Lift Work

Since the Strad-O-Lift deposits the entire load, it does not have to be immediately serviced by forklifts as would a conventional semi-trailer. An entire load can be broken down at the convenience of one forklift operator, with dramatic savings in labor costs.

- **Reduces Turnaround Time 300% Or More!**
- **20 Ton Capacity**

No waiting for arrival of trailer to load.



How It Operates

- Loads for the Strad-O-Lift are made-up, in binds or on pallets or skids, in advance of pick-up time.
- The Strad-O-Lift is backed over and straddles the load - a skill quickly acquired by experienced drivers.
- Using in-the-cab controls, the driver actuates the lifting mechanism which clamps and secures the load.
- The Strad-O-Lift is driven away, at highway speeds, to its destination; upon arrival the load shoes are lowered and the cargo deposited on the ground in seconds, into a warehouse, or onto powered conveyors.

Convenience And Safety Features

Lifting is accomplished by four heavy-duty hydraulically actuated ball screws - no chains or cables to snap under impact or shock. Screws are self-cleaning - need no lubrication.

A hydraulic pump, controlled by cab-mounted valve, operates the lifting shoes and closing cylinders. The pump may be truck-tractor mounted, or optionally powered by a separate engine mounted on the trailer.

The lifting mechanism gear box is driven by a hydraulic motor and mechanical drive shafts. A brake automatically sets when the lifting valve closes, preventing the load from falling in the event of a hydraulic line failure. Lifting shoes can be fully closed, or opened to 64" width. Hydraulic lock valves are provided for extra protection against hydraulic failure.

The load is held secure by compression between the lifting shoes and overhead rubber load binders. This, together with walking beams suspension, insures a smooth safe ride for fragile loads. Time-consuming load tie-down and tarping is eliminated.

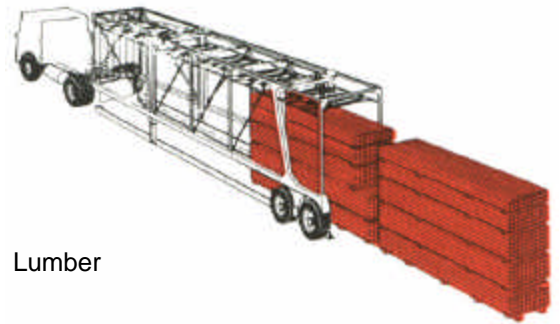
I.C.C lights are standard; trailer-mounted floodlights are available to illuminate the loading area during night operations.

When sudden deceleration or stop is required, steel bar front end load stops prevent dangerous load shift.

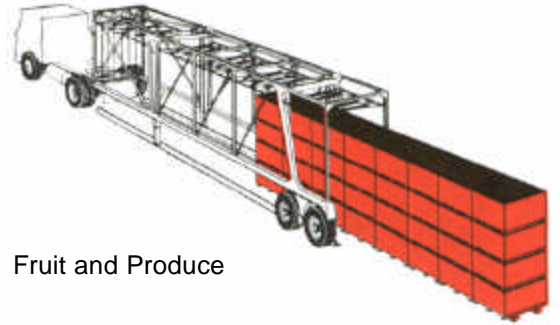
Size 16 1/2 x 5 air operated anti-skid brakes.

Quick disconnect hoses make it easy to couple or uncouple the trailer and tractor.

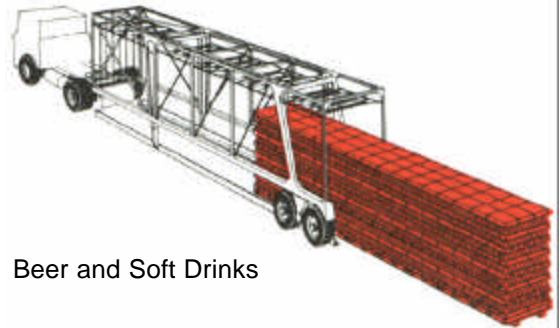
Other custom features are available.



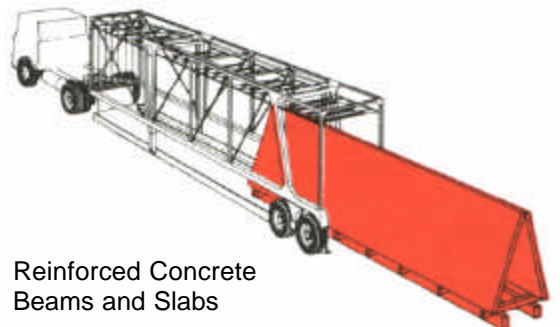
Lumber



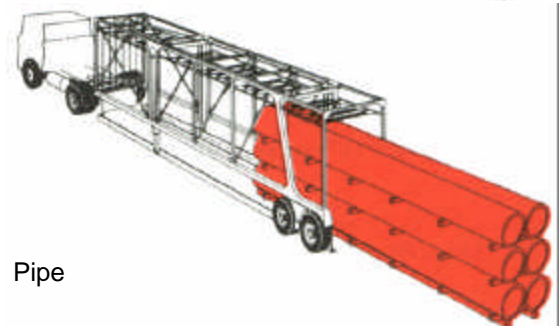
Fruit and Produce



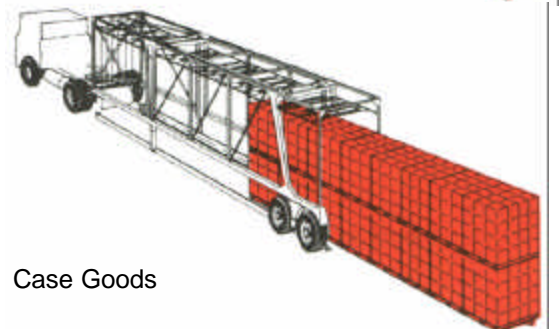
Beer and Soft Drinks



Reinforced Concrete Beams and Slabs

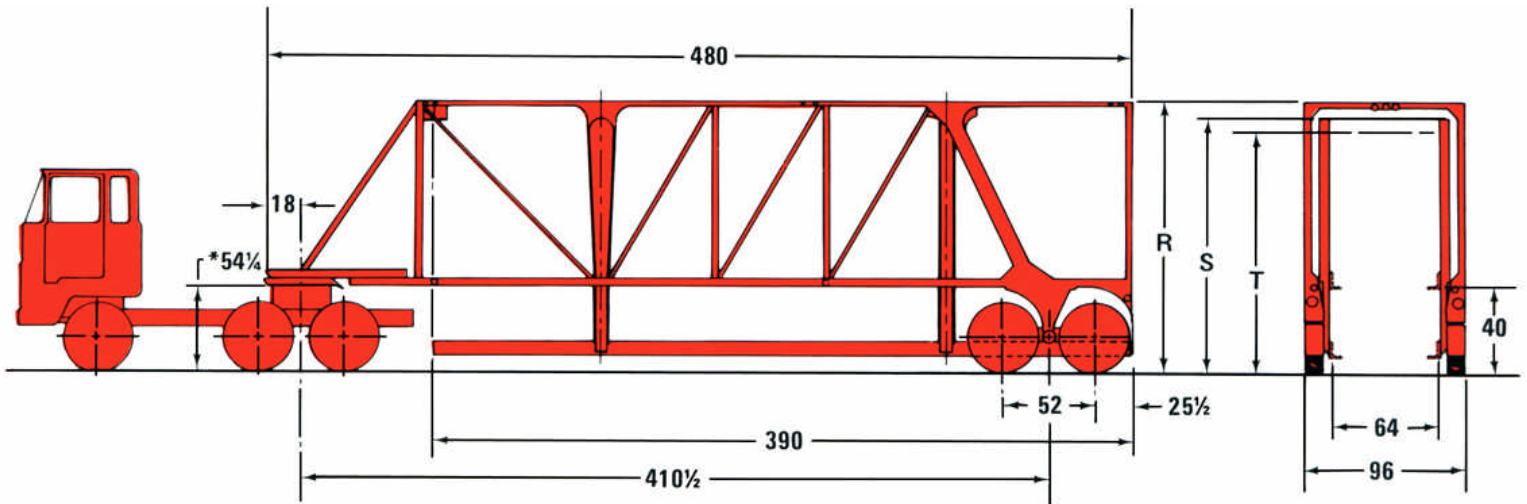


Pipe



Case Goods

Strad-O-Lift Dimensions



*54 1/4" for oscillating fifth wheel, 49" height can be provided.

Strad-O-Lift Specifications

Standard Models	4A40	4E40	4G40
R dimension...overall trailer height	10'-6"	12'-6"	13'-6"
S dimension...inside frame height	9'-3"	11'-3"	12'-3"
T dimension... inside clearance, load binder to ground	8'-6"	10'-6"	11'-6"
Maximum recommended load width***	58"	58"	58"
Maximum load height**	8'-3"	10'-3"	11'-3"
Height of lift*	40"	40"	40"
Tire size	12.00x20	12.00x20	12.00x20
Approximate trailer weight, lbs., total	15,470	16,000	17,160
Weight at king pin	4,950	5,141	5,491
Weight at wheels	10,520	10,859	11,669

*Greater lift available on special order

**Width load at 12" road clearance.

***For 98" overall tire width; 56" for 96" overall tire width.

At additional cost, the Strad-O-Lift® trailer can be engineered to meet your specific needs

In accordance with our policy of constant improvement we reserve the right to amend these specifications at any time without notice.

The only warranty applicable is our standard written warranty. We make no other warranty, expressed or implied.

Manufactured by