Container Truck Specifications

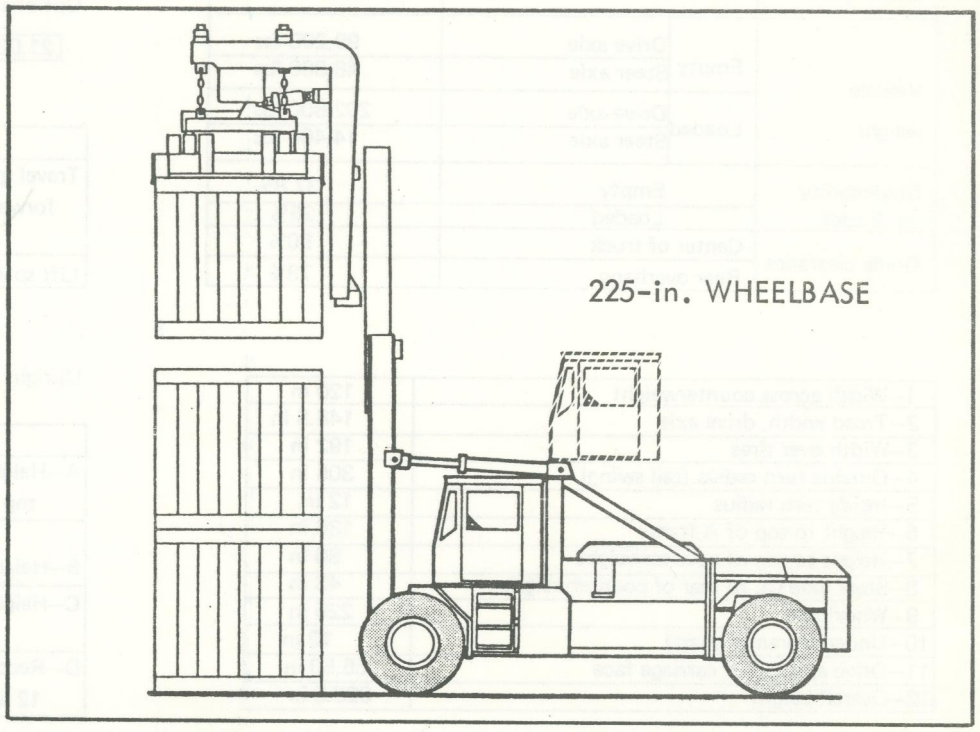
TYC-850L

70,000 -lb. Capacity
at 52.5-inch Load Center

The unit is specifically designed to stack 8-ft. through 9-ft. 6-in. containers three high and handle containers from flat cars and trailer chassis. The attachment with four corner twistlocks, side shift, hydraulic slewing and electrical signaling system, expands to handle loaded 20-ft. through 40-ft. ISO-ANSI containers with a maximum weight of 70,000 pounds. An optional attachment for handling both Sealand and standard ISO containers is available.

The attachment is suspended from the carriage by four high-strength-steel chains, allowing attachment to lift uneven or out-of-level containers.

The truck is equipped with a 24' telescopic mast and 36-in. side shift (18 in. either direction).



Controls
The control system is constructed of superior hydraulic and electrical components to ensure high reliability in operation. Control levers in the cab actuate lift, tilt, side shift, LH slew and RH slew circuits. The slew functions can operate fork positioners when used with fork carriage.

Toggle switches energize electrohydraulic solenoid valves on attachment to operate the twistlocks and expansion mechanisms.

The electrohydraulic directional control valves on attachment feature manual override switches for trouble shooting service problems and in the event of electrical failures give operator the ability to perform last functional operations to release load.

Electrical Signaling System
The unit is equipped with colored lights mounted on the instrument panel and a duplicate set mounted on the attachment to signal:

Red—Twistlocks Unlocked
Green—Twistlocks Locked
Amber—Seated on Container

Instrument panel signal lights have push-to-test feature for bulb service.

Safety Feature
Twistlock triple safety interlock system prevents operator from inadvertently dropping containers.

Worklights
Two worklights are mounted on attachment, one on either side, to aid in handling containers during low visibility.

Cable Eyes
Twistlock-housing cable eyes (one at each corner) are for use in lifting sling-(cable) supported bundles of pipe, structural steel, etc., and to handle damaged containers. They can also be used for handling small quantities of odd-size or odd-twistlock containers with slings.

Quick Changeover
The container outer carriage can quickly be removed and replaced by a fork carriage. Hydraulic hoses and electrical cable leading to the attachment can have quick-disconnect couplings, and one man can easily perform all operations necessary for changing the carriage.

Maximum capacity at 52.5-in. Load Center			70,000 lbs
Load moment with attachment			7,560,000 in lbs
Tractive effort, @ stall			58,650 lbs
Weight of attachments	Spreader		17,100 lbs
	Outer carriage		13,500 lbs
	Inner carriage		7,800 lbs
	24 Ft. Mast		21,500 lbs
Vehicle weight	Empty	Drive axle	99,200 lbs
		Steer axle	48,000 lbs
	Loaded	Drive axle	202,800 lbs
		Steer axle	14,400 lbs
Gradeability at .9 coef.	Empty		37.8%
	Loaded		25%
Grade clearance	Center of truck		50%
	Rear overhang		78%

Tires

18.00 x 25–28 PR HRL (E-3 tread level)

Optional Tires

21.00 x 25-32 PR HRL (E-3 Tread Level)

		Empty	Loaded
Travel speed forward & reverse	1st	4.0 mile/h	3.9 mile/h
	2nd	7.7 mile/h	7.4 mile/h
	3rd	14.2 mile/h	11.7 mile/h
Lift speed		46 ft/min	32 ft/min

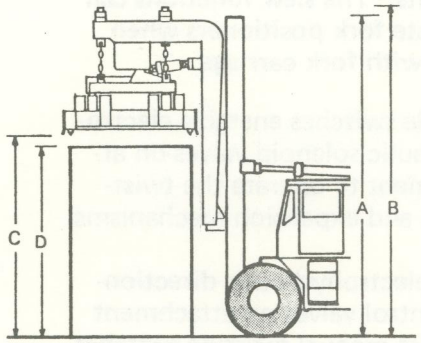
1–Width across counterweight	120 in
2–Tread width, drive axle	148.5 in
3–Width over tires	192 in
4–Outside turn radius (tail swing)	305 in
5–Inside turn radius	12 in
6–Height to top of A-frame	136 in
7–Height to top of counterweight	86 in
8–Steer axle CL to rear of counterweight	48 in
9–Wheelbase	225 in
10–Underclearance (mast)	12 in
11–Drive axle CL to carriage face	55.50 in
12–Overall length	328.5 in

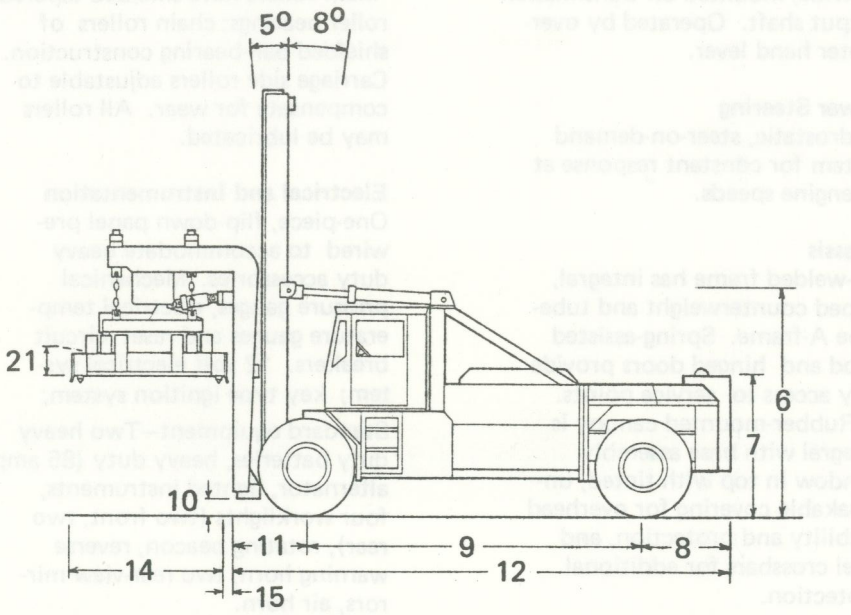
Upright Dimensions

		24-ft. Mast
A–Height to top of mast	Carriage lowered	246 in
	Carriage raised	390 in
B–Height to top of carriage	Min.	170 in
	Max.	458 in
C–Height to tip of twistlock	Min.	82 in
	Max.	370 in
D–Recommended working height (with 12 in. clearance to tip of twistlock)		358 in

Spreader Dimensions

		20-ft. Container	40-ft. Container
13–Length of spreader	Expanded	480 in	
	Retracted	240 in	
14–Width of spreader		96 in	
15–Carriage face to side of container	Minimum	4.50 in	
	Maximum	8.5 in	
16–Turn radius to far corner		276 in	381 in
17–Turn radius to near corner		156 in	204 in
18–Side shift		36 in (18 in. ea. direction)	
19–Slewing 3°		12.5 in	25 in
20–Pile slope,end to end		15.7 in	31.5 in
21–Pile slope, side to side		24 in	
22–Length of twistlock-ISO		4-1/8 in	
–Length of twistlock-ISO-Sealand		3-11/16 in	
23–CL to CL twistlocks-ISO		89 in	
–CL to CL twistlocks-ISO Sealand		89.5 in	

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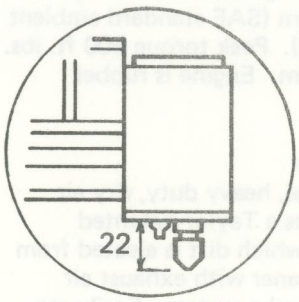
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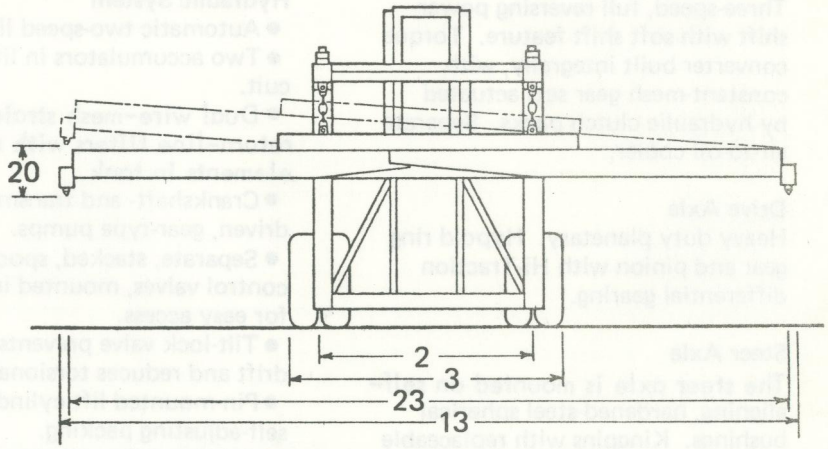
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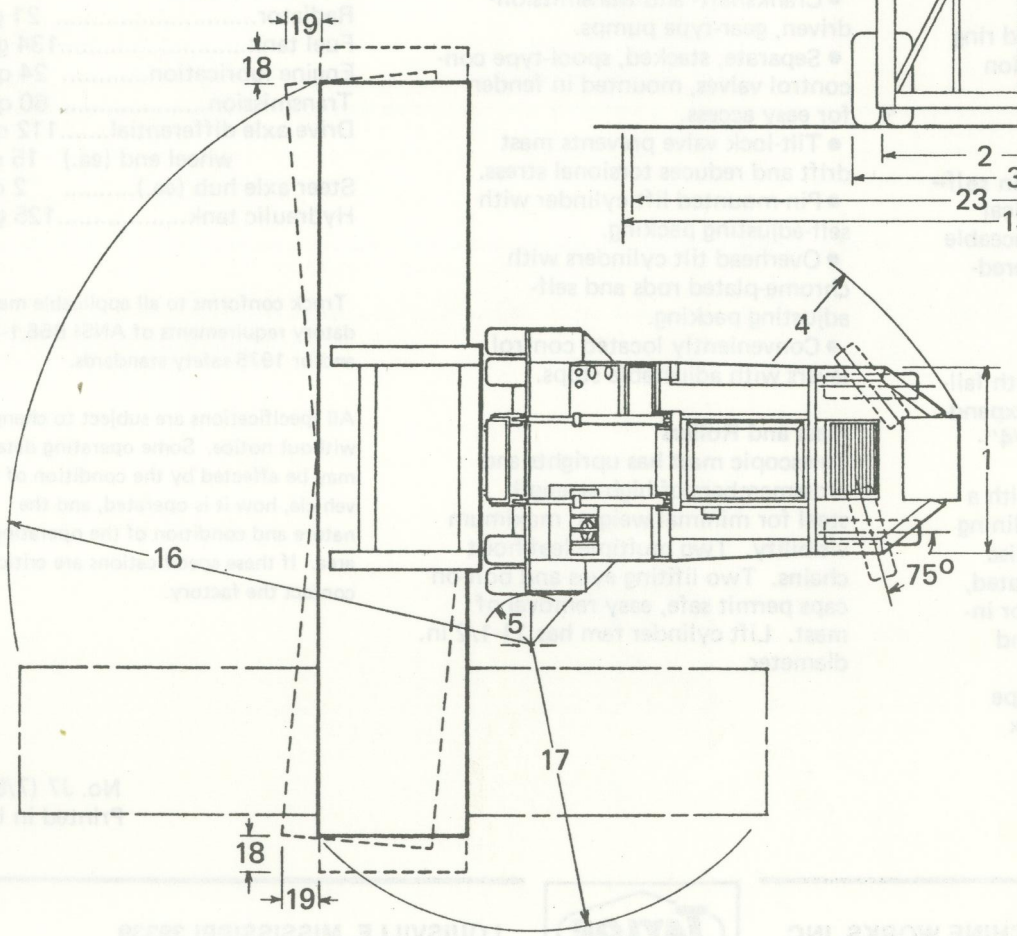
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Engine

DDA 6-71 diesel. 426 cubic in. displacement. 4.25-in. bore x 5.00-in. stroke. 228 gross brake horsepower at 2100 rpm (SAE standard ambient conditions). Peak torque 600 ft. lbs. at 1600 rpm. Engine is rubber mounted.

Air Cleaner

Farr 2-stage, heavy duty, dry air cleaner uses a Taylor-patented system in which dirt is ejected from the pre-cleaner with exhaust air from the brake system. Easily serviced.

Cooling System

Deaeration tank provides optimum engine cooling; has sight gauge for checking coolant level.

Transmission

Three-speed, full reversing power-shift with soft shift feature. Torque converter built integrally, with constant-mesh gear sets actuated by hydraulic clutch packs. Separate air-to-oil cooler.

Drive Axle

Heavy duty planetary. Hypoid ring gear and pinion with Hi-Traction differential gearing.

Steer Axle

The steer axle is mounted on self-aligning, hardened-steel spherical bushings. Kingpins with replaceable bushings are mounted on tapered-roller thrust bearings.

Brake Systems

Air-actuated service brakes with fail-safe system. Fixed anchor, expanding-shoe type with dual 20-1/4"-diameter x 5"-wide shoes in wheel ends. Supplemented with a 19.5"-diameter (94 sq. in. of lining contact) drive-line-mounted disc brake, air-over-hydraulic actuated, located on the input pinion for increased total braking effort and reliability.

Internal expanding-shoe-type parking brake, 12" diameter x 5" wide, mounted on transmission output shaft. Operated by over-center hand lever.

Power Steering

Hydrostatic, steer-on-demand system for constant response at all engine speeds.

Chassis

All-welded frame has integral, sloped counterweight and tube-type A-frame. Spring-assisted hood and hinged doors provide easy access to service points.

Rubber-mounted canopy is integral with base assembly. Window in top with tinted, unbreakable covering for overhead visibility and protection, and steel crossbars for additional protection.

Hydraulic System

- Automatic two-speed lift.
- Two accumulators in lift circuit.
- Dual wire-mesh strainers and return-line filters with replaceable elements in tank.
- Crankshaft- and transmission-driven, gear-type pumps.
- Separate, stacked, spool-type con-control valves, mounted in fender for easy access.
- Tilt-lock valve prevents mast drift and reduces torsional stress.
- Pin-mounted lift cylinder with self-adjusting packing.
- Overhead tilt cylinders with chrome-plated rods and self-adjusting packing.
- Conveniently located control levers with adjustable stops.

Mast and Rollers

Telescopic mast has uprights and crossmembers of high-strength steel for minimal weight, maximum visibility. Two multiple-leaf hoist chains. Two lifiting eyes and bolt-on caps permit safe, easy removal of mast. Lift cylinder ram has 11-1/2 in. diameter.

Main rollers have shielded tapered-roller bearings; chain rollers of shielded ball-bearing construction. Carriage side rollers adjustable to compensate for wear. All rollers may be lubricated.

Electrical and Instrumentation

One-piece, flip-down panel prewired to accommodate heavy duty accessories. Mechanical pressure gauges, electrical temperature gauges and reset circuit breakers. 12 volt electrical system; key type ignition system;

Standard equipment—Two heavy duty batteries, heavy duty (85 amp) alternator, lighted instruments, four worklights (two front, two rear), rotating beacon, reverse warning horn, two rear-view mirrors, air horn.

Gauges—Fuel level, ammeter, hourmeter, air pressure, engine oil pressure, engine coolant temperature, transmission oil pressure, transmission oil temperature.

Service Capacities

Radiator	21 gal.
Fuel tank	134 gal.
Engine lubrication	24 qts.
Transmission	60 qts.
Drive axle differential	112 qts.
wheel end (ea.)	15 qts.
Steer axle hub (ea.)	2 qts.
Hydraulic tank	125 gal.

Truck conforms to all applicable mandatory requirements of ANSI B56.1-1969 and/or 1975 safety standards.

All specifications are subject to change without notice. Some operating data may be affected by the condition of the vehicle, how it is operated, and the nature and condition of the operating area. If these specifications are critical, contact the factory.

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