



## **“Big Red” TEC-155H**

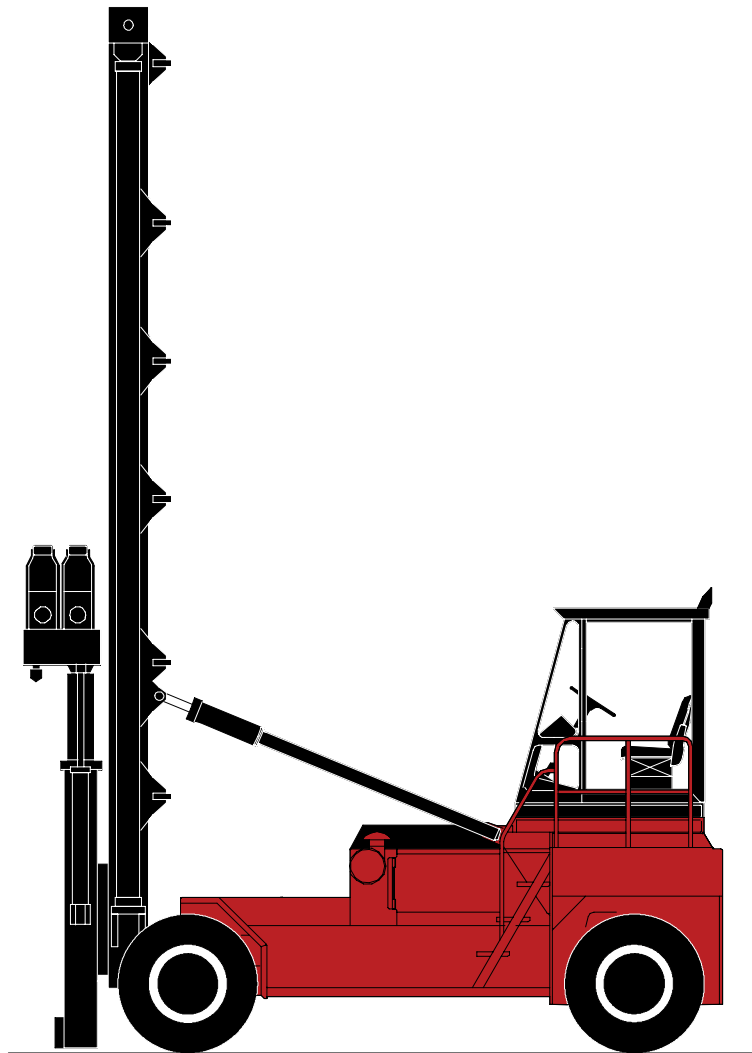
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### **Empty Container Handler Standard Specifications**

**Rated Capacity 15,000-lbs. (6,804 kg) / 5-high Stacking**

**96-in. (2,438 mm) Center Of Load**

**148-in. (3,759 mm) Wheelbase**



# “Big Red” TEC-155H Empty Container Handler

Manufacturer's Name		TAYLOR				
Manufacturer's Designation		TEC-155H Empty Container Handler				
		English		Metric		
Rated 5-high Stacking Capacity At 96-in. (2,438 mm) Center Of Load (Center Of Load To Center Of Axle)		lb (kg)	15,000		6,804	
Load Moment With Attachment		in-lb (m-kg)	1,440,000		16,591	
Tractive Effort At Stall		lb (kN)	27,460		122	
Weight Of Attachment (Approximate)		lb (kg)	14,500		6,577	
Vehicle Weight - Empty	Drive Axle	lb (kg)	44,000		19,958	
	Steer Axle	lb (kg)	23,160		10,505	
Gradeability At 0.9 Coef.	Empty	%	37.5			
	Loaded	%	29.7			
Grade Clearance	Center Of Truck	%	50			
	Rear Overhang	%	60			
Tires			12.00 x 20 - 18 PR			
<b>Machine Dimensions</b>						
1 - Width Across Counterweight		in (mm)	120		3,048	
2 - Tread Width, Drive Axle		in (mm)	99.4		2,525	
3 - Width Over Drive Tires		in (mm)	127.62		3,242	
4 - Outside Turn Radius (Tailswing)		in (mm)	204		5,182	
5 - Inside Turn Radius		in (mm)	17.75		451	
6 - Height To Top Of Cab		in (mm)	150		3,810	
7 - Height To Top Of Counterweight		in (mm)	63		1,600	
8 - Steer Axle CL To Rear Of Counterweight		in (mm)	28.75		730	
9 - Wheelbase		in (mm)	148		3,759	
10 - Underclearance, At Mast		in (mm)	12		305	
11 - Drive Axle CL To Attachment And Container Face		in (mm)	44.5		1,130	
12 - Overall Length		in (mm)	219		5,563	
<b>Attachment Dimensions</b>			<b>20-ft. (6.1 m) Container</b>		<b>40-ft. (12.2 m) Container</b>	
13 - Length Of Attachment (Nominal)	Expanded	in (mm)	N/A	N/A	480	12,192
	Retracted	in (mm)	240	6,096	N/A	N/A
14 - Turn Radius To Far Corner		in (mm)	247	6,274	351	8,915
15 - Turn Radius To Near Corner		in (mm)	148	3,759	214	5,436
16 - Pile Slope, End To End		in (mm)	10.5	267	21	533
17 - Side Shift ±		in (mm)	24	610	24	610
18 - Length Of Twistlock (Nominal)		in (mm)	4	102	4	102
<b>Travel And Lift Speeds</b>			<b>Empty</b>		<b>Loaded</b>	
Travel Speed (Max) - Forward And Reverse		mph (km/h)	12.1	19.5	11.7	18.8
Lift Speed (Max)		fpm (m/s)	72	0.36	70	0.35
<b>Upright Dimensions</b>			<b>Minimum</b>		<b>Maximum</b>	
A - Height Of Mast (Top Of Brackets)		in (mm)	337	8,560	577	14,656
B - Height To Top Of Attachment		in (mm)	122.5	3,112	629.5	15,989
C - Height To Tip Of Twistlock (Mast Lowered) *		in (mm)	83.875	2,130	110.875	2,816
D - Height To Tip Of Twistlock (Mast Raised) *		in (mm)	563.875	14,322	590.875	15,008

\* Variable minimum and maximum difference is achieved by extending both pile slope cylinders.

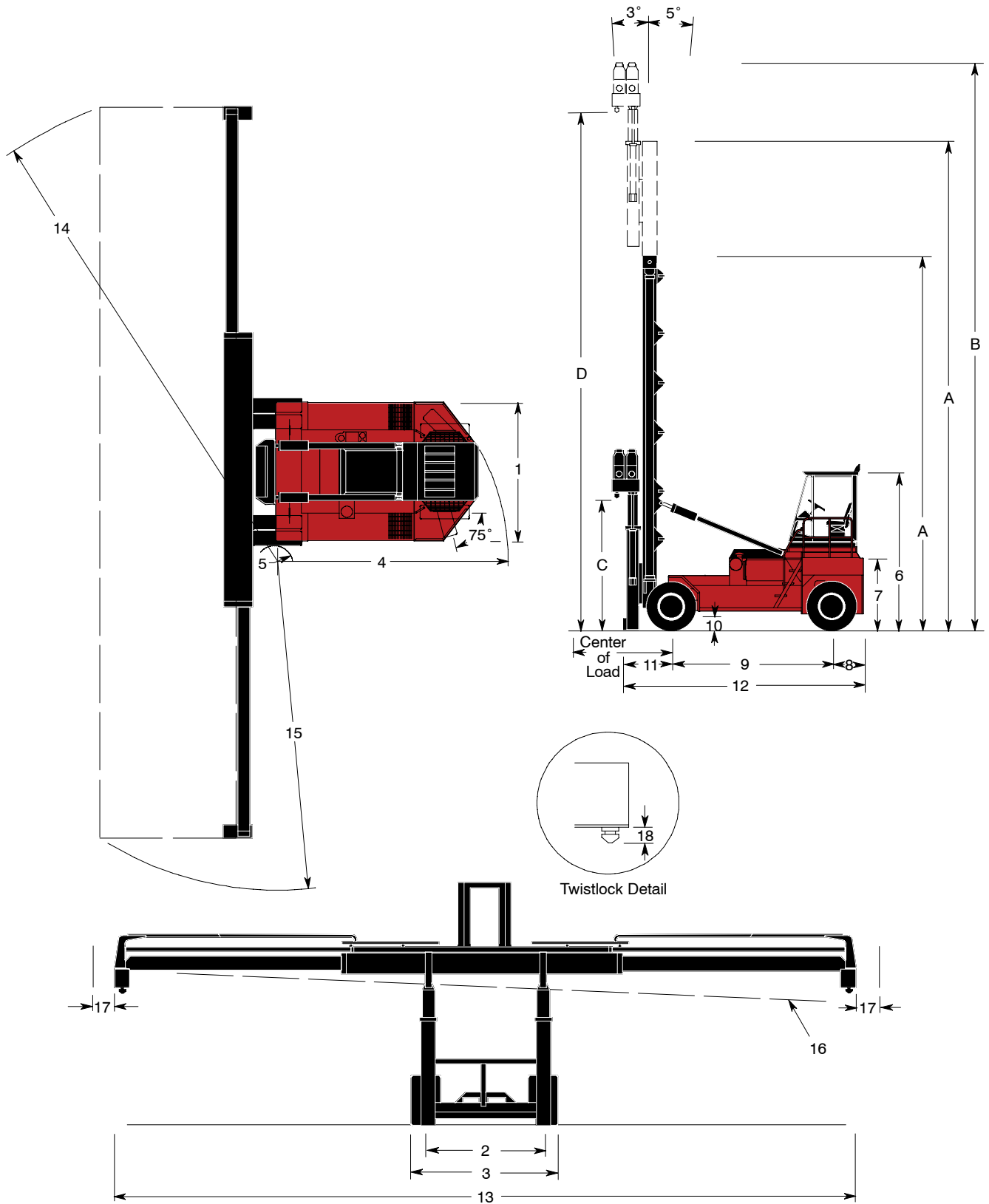
8.5-ft. (2.6 m) wide container corner castings must be on same center as 8-ft. (2.4 m) ISO container.

Containers more that 40-ft. (12.2 m) long, such as 45-ft., 48-ft., and 53-ft. (13.7 m, 14.6 m, 16.2 m), must have the standard 40-ft. (12.2 m) ISO pickup points.

For safe operation 5-high stacking requires smooth and level surfaces and wind velocities less than 30 mph (48.3 km/h).

**NOTE:** Performance specifications are for machines equipped as described on the back page of this specification sheet. Performance specifications are affected by the condition of the vehicle, its components, and the nature and condition of the operating area. If these specifications are critical, the proposed application should be discussed with your Taylor sales representative.

# "Big Red" TEC-155H Empty Container Handler



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## Engine

Cummins QSB6.7-C160 electronic turbocharged, charge air aftercooled (air to air) diesel, 6-cylinder diesel engine has 409 cu-in. (6.7 L) displacement. 4.09-in. (104 mm) bore x 5.2-in. (132 mm) stroke. Rated power of 160 (119 kW) horsepower at 2200 RPM. Maximum power of 165 horsepower (123 kW) at 2000 rpm. Peak torque 540 ft.-lbs. (732 N-m) at 1400rpm. (SAE J1995 Conditions). Standard features are electronic diagnostic and maintenance monitor, fuel/water separator and engine/transmission protection systems, fuel economy, and reduced emissions. Emission certification: US EPA Tier III, Carb Tier III, EU Stage III. The fuel tank capacity is 65 gallons (246 L).

## Air Cleaner

Donaldson dry air cleaner with safety element and restriction indicator.

## Cooling System

The extra large crossflow radiator is designed for maximum efficiency and low hood profile. Wide fin spacing reduces dirt build-up and provides optimum engine cooling.

## Electrical, Instrumentation, and Accessories

The one-piece instrument panel is pre-wired to accommodate heavy-duty accessories and flips down for easy servicing. All wiring is color coded.

The unit has a 12-volt electrical system. Standard equipment includes a key-type anti-restart ignition system, 175 amp-hour battery, 130-amp alternator, mechanical pressure gauges, thermal reset circuit breakers, lighted instruments, horn, key-switch actuated amber strobe light, forward alarm, reverse-actuated warning alarm, tilt steering, and 6 work lights, 4 front and 2 rear.

Gauges include fuel level, ammeter, hourmeter, air pressure, engine oil pressure, engine coolant temperature, transmission oil pressure, and transmission oil temperature.

## Transmission

The three-speed, fully reversing, modulated, powershift transmission has inching and electric shift control. Brakes behind inching. The filler pipe dipstick and large, heavy-duty, spin-on oil filter are easily accessible. Separate air-to-oil cooler.

## Drive Axle

The high-stability, wide stance, planetary axle utilizes a hypoid ring gear and pinion.

## Steer Axle

The steer axle is a single hydraulic cylinder design with heavy-duty links from the cylinder ram directly to tapered, roller-bearing-mounted spindles.

## Brake System

The single pedal, air, service brakes combine transmission inching with brake actuation; 16.5-in. (419 mm) diameter x 7-in. (178 mm) wide S-cam. The parking brake control is mounted on the instrument panel. The spring applied parking brake is mounted on the transmission output shaft.

## Power Steering

The fully hydrostatic, steer-on-demand, steering system provides constant response at all engine speeds.

## Chassis

All welded frame. The spring-assisted hood and hinged doors provide easy access to service points. The rear center mount cab is standard and includes 2 doors, one 40,000 BTU heater, one circulation fan, front and rear windshield wipers with variable slow speed / stop plus 2 speed wiper control switch, front windshield washer, dome light, and tinted glass.. The adjustable vinyl covered mechanical suspension seat with arm rests, orange seat belt and OPS switch is standard.

## Hydraulic System

The large capacity hydraulic tank has a spin-on tank breather, dual wire-mesh strainers, and a full-flow, 10-micron, return-line filter with a replaceable element in the tank. The filter condition indicator is mounted on the instrument panel. The hydraulic tank capacity is 65 gallons (246 L).

The hydraulic system utilizes a gear-type pump. Control valves are separate, stacked, spool-type. The tilt-lock valve prevents mast drift and reduces torsional stress.

Self-aligning, bearing-mounted, lift cylinders have chrome-plated rods and self-adjusting packing.

## Mast, Carriage, and Rollers

The 40-ft. (12.2 m) ULTRA-VU telescopic, nested-channel mast, with two multiple-leaf lift chains, is constructed of high-strength steel for minimum weight. The lift cylinders are nested to the rear of the mast rails for maximum visibility. Two lifting eyes and bolt-on caps permit safe, easy removal.

The carriage has a high strength-to-weight ratio.

The mast and carriage main rollers use shielded tapered roller bearings. Chain rollers use shielded ball bearings. Side rollers adjust to compensate for wear and the mast side rollers are serviceable without disassembly of the mast. All rollers may be lubricated.

## Empty Container Attachment

The attachment expands to top pick 20' through 53' empty ISO standard containers and empty reefer containers (containers more than 40' long must have the standard 40' ISO pickup points). The attachment is an integral part of the outer 48" side shift (24" each way) carriage; it has two ISO rear-corner twistlocks with height adjustment indicator and a twistlock engagement mechanical signaling devices. The attachment is equipped with a manual-adjust guide arm to handle 8' and 8'-6" wide containers. A twistlock safety interlock system ensures correct locking procedure.

Controls in the cab actuate lift and tilt circuits and energize valves on the attachment to operate side shift, left-hand and right-hand height adjustment/pile slope, twistlocks, expand and retract functions of the attachment frame.

The TEC-155H will stack empty ISO standard containers and empty reefer containers of variable heights (8' to 9'-6") and widths (8' to 8'-6"). The unit can handle empty 20' to 53' containers with a maximum weight of 15,000-lbs. for 5-high stacking.

This vehicle is certified to meet the applicable design and performance criteria required for Powered Industrial Trucks in OSHA Safety and Health Standards, Title 29 CFR, Part 1910.178, and the applicable design and performance requirements in ANSI B56.1 that were in effect at the time of manufacture. These standards also apply to the user and should be adhered to while operating this vehicle.

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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