



## **“Big Red” TECSP-157/8**

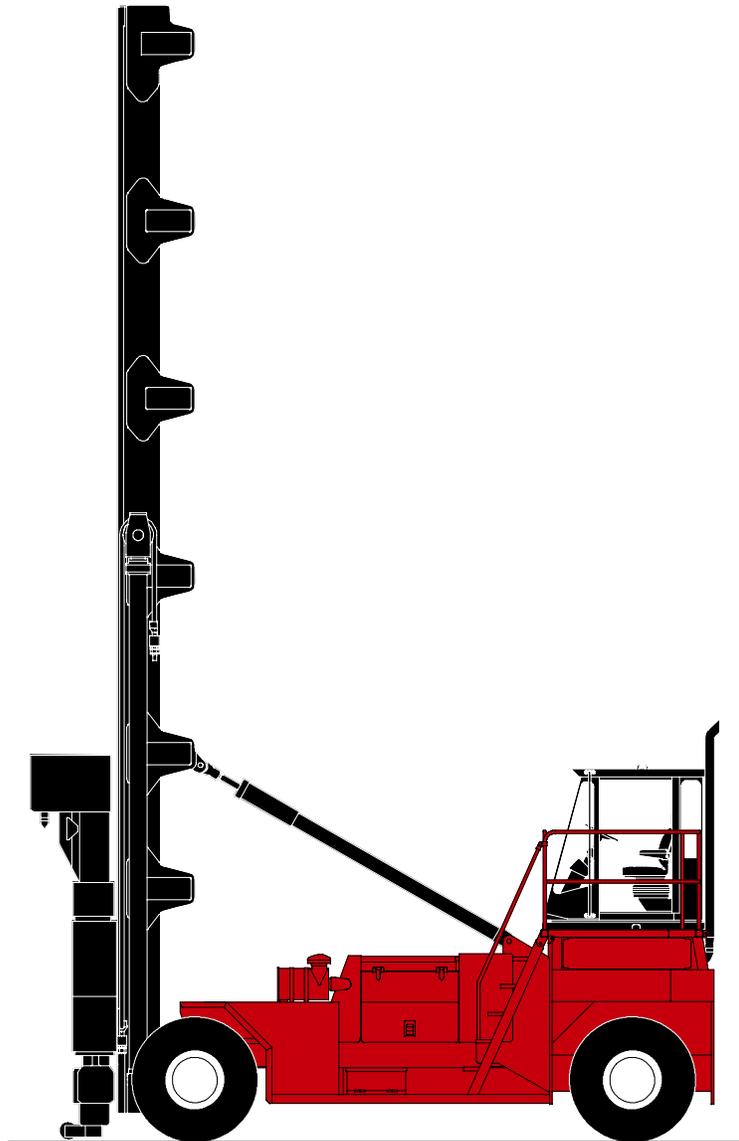
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### **Empty Container Handler Standard Specifications**

**Rated Capacity for 9.5-ft. (2.9 m) High Containers:**  
15,000-lbs. (6,804 kg) / 7-high Stacking

**Rated Capacity for 8.5-ft. (2.6 m) High Containers:**  
15,000-lbs. (6,804 kg) / 8-high Stacking

**102.75-in. (2,610 mm) Center Of Load**  
**180-in. (4,572 mm) Wheelbase**



# “Big Red” TECSP-157/8 Empty Container Handler

Manufacturer's Name		TAYLOR				
Manufacturer's Designation		TECSP-157/8 Empty Container Handler				
		English		Metric		
Rated 9.5-ft. (2.9 m) Container Capacity	1st Row 7-High 9.5-ft. (2.9 m) Stack Capacity At 102.75-in. (2,610 mm) Load Center (Center of load to center of axle)	lb (kg)	15,000	6,804		
Rated 8.5-ft. (2.6 m) Container Capacity	1st Row 8-High 8.5-ft. (2.6 m) Stack Capacity At 102.75-in. (2,610 mm) Load Center (Center of load to center of axle)	lb (kg)	15,000	6,804		
Load Moment With Attachment		in-lb (m-kg)	1,541,250	17,757		
Tractive Effort At Stall		lb (kN)	34,260	152		
Weight Of Attachment (Approximate)		lb (kg)	12,000	5,443		
Vehicle Weight - Empty	Drive Axle	lb (kg)	63,600	28,840		
	Steer Axle	lb (kg)	29,800	13,510		
Gradeability At 0.9 Coef.	Empty	%	N/A			
	Loaded	%	N/A			
Grade clearance	Center Of Truck	%	50			
	Rear Overhang	%	60			
Tires		14.00 x 24 - 20 PR				
<b>Machine Dimensions</b>						
1 - Width Across Counterweight		in (mm)	130	3,302		
2 - Tread Width, Drive Axle		in (mm)	129.125	3,280		
3 - Width Over Drive Tires		in (mm)	162.375	4,124		
4 - Outside Turn Radius (Tailswing)		in (mm)	258	6,553		
5 - Inside Turn Radius		in (mm)	17.8	452		
6 - Height To Top Of Cab (Add 13-in. for air conditioner)		in (mm)	158	4,013		
7 - Height To Top Of Counterweight		in (mm)	72	1,829		
8 - Steer Axle CL To Rear Of Counterweight		in (mm)	33	838		
9 - Wheelbase		in (mm)	180	4,572		
10 - Underclearance, Mast		in (mm)	12	305		
11 - Drive Axle CL To Attachment And Container Face		in (mm)	54.75	1,391		
12 - Overall Length		in (mm)	263.5	6,693		
<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)	266	5,232	371	9,423
15 - Turn Radius To Near Corner		in (mm)	152	3,861	206	5,232
16 - Maximum Vertical Travel of Post (Free Movement) (Pile Slope = 1° and 30')		in (mm)	6.2	157	6.2	157
17 - Side Shift ±		in (mm)	20	508	20	508
18 - Length Of Twistlock (Nominal)		in (mm)	4	102	4	102
<b>Travel And Lift Speeds</b>			<b>Empty</b>		<b>Loaded</b>	
Travel Speeds (Max) - Forward And Reverse		mph (km/h)	12.1	19.5	11.8	19
Lift Speed (Max)		fpm (m/s)	100	.51	100	.51
<b>Upright Dimensions</b>			<b>Minimum</b>		<b>Maximum</b>	
A - Height Of Mast (Top Of Brackets)		in (mm)	473	12,014	851	21,615
B - Height To Top Of Attachment		in (mm)	106	2,692	862	21,895
C - Height To Tip Of Twistlock Mast Lowered / Mast Raised		in (mm)	86.5	2,197	842.5	21,400

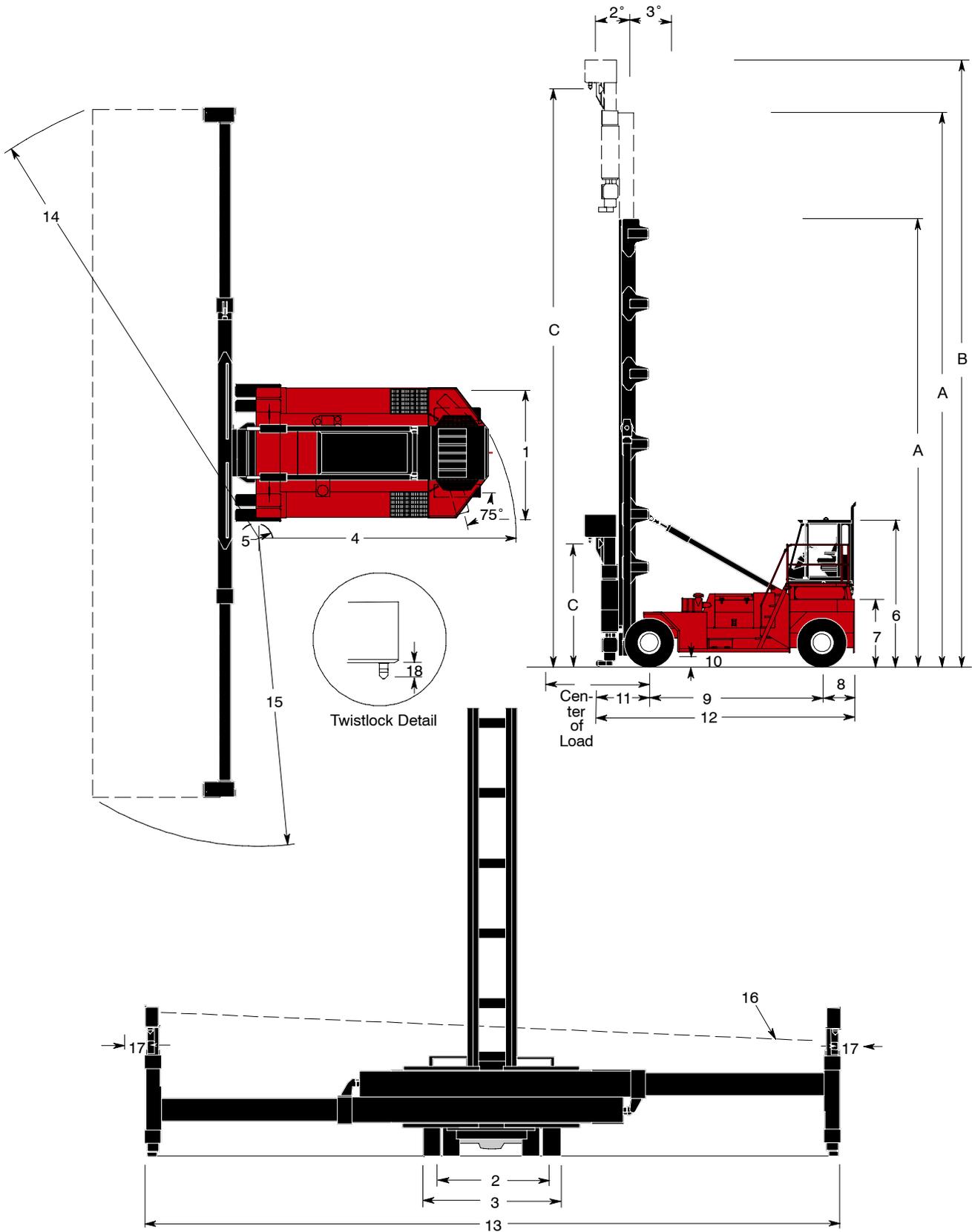
8.5-ft. (2.6 m) wide container corner castings must be on same center as 8-ft. ISO container.

Containers more than 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. ISO pickup points.

Safe 7- and 8-high stacking requires smooth and level surfaces.

**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" TECSP-157/8 Empty Container Handler



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## Engine

Cummins QSB6.7-C200, 6-cylinder turbocharged, charge air after cooled (air to air) diesel has 409cu-in. (6.7 L) displacement, 4.09-in. (104 mm) bore x 5.2-in. (132 mm) stroke. Rated power of 200-hp (149 kW) at 2100 rpm (all engine ratings are based on SAE standard ambient conditions). Peak torque is 546 ft-lbs. (740 N-m) at 1500 rpm.

Standard features are electronic diagnostic and maintenance monitor, fuel/water separator and engine/transmission protection systems, fuel economy, and reduced emissions. Emission certification: U.S. EPA Tier III, CARB Tier III, EU Stage III.

The fuel tank capacity is 130 gallons (492 L).

## Air Cleaner

The dry air cleaner has a safety element and restriction indicator.

## Cooling System

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 batteries, 100-amp alternator, main battery disconnect switch, mechanical pressure gauges, electrical temperature gauges, thermal reset circuit breakers, front electrical windshield wiper, cab access step lights, tilt steering, and lighted instruments.

Eight worklights (four front, two rear, two on the attachment), key-switch actuated amber strobe light, forward alarm, reverse-actuated warning alarm, rear-view mirror, air horn, and cab mounted signal lights are standard.

Gauges include engine coolant temperature, fuel level, air pressure, and hourmeter. Indicator lights include transmission temperature, seat belt, low air, brake fault, engine oil pressure, parking brake, check engine, and battery indicator.

## Transmission

The three-speed, fully reversing, modulated, powershift transmission has inching and an electric roll 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; 9-in. (229 mm) dia. 10-plate wet disc brakes. The parking brake control is mounted on the instrument panel. The parking brake is mounted on the transmission output shaft and has an 11.75-in. (298 mm) dia. x 0.5-in. (12 mm) thick disc.

## 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 access panels and hinged doors provide easy access to service points. The elevated, center mount operator and overhead guard with 2-doors. The cab has a dome light, tinted glass, front, rear and top windshield wipers, and a 38,000 BTU heater with front defroster. The adjustable mechanical suspension seat with vinyl cover has adjustable-angle armrests and an operator seat belt.

## Hydraulic System

The 130 gallon (492 L) 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 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 rods and self-adjusting packing.

Hydraulic oil is cooled through an air / oil cooler on the fan side of the radiator.

The self-aligning, bearing-mounted, lift cylinders have chrome plated rods and self-adjusting packing. The multi-function joystick and accessory controls are conveniently located. The lift and tilt valves are hydraulically controlled; all other functions are controlled with electric switches.

## Mast, Carriage, and Rollers

The 63-ft. (19.2 m) ULTRA-VU telescopic (4 to 1 ratio), nested-channel mast with four multiple-leaf lift chains is constructed of high-strength steel for minimum weight. Two lifting eyes and bolt-on caps permit safe, easy removal.

The carriage has 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. All rollers may be lubricated.

## Empty Side Post Container Attachment

The attachment expands to top pick 20-ft. (6.1 m) through 53-ft. (16.2 m) empty ISO standard containers and empty reefer containers (containers more than 40-ft. (12.2 m) long must have the standard 40-ft. (12.2 m) ISO pickup points). The attachment is an integral part of the 40-in. (1,016 mm) side shift carriage (20-in. (508 mm) each way); it has two ISO rear-corner twistlocks with twistlock engagement electrical signal light in cab and two worklights. The attachment is equipped with a manual-adjust guide arm to handle 8 and 8.5-ft. (2.4 m and 2.6 m) 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, twistlocks, expand and retract functions of the attachment frame.

The TECSP-157/8 will stack empty ISO standard containers and empty reefer containers of variable heights (8-ft. to 9.5-ft. (2.4 m to 2.9 m)) and widths (8-ft. to 8.5-ft. (2.4 m to 2.6 m)). The unit can handle empty 20-ft. to 53-ft. (6.1 m to 16.2 m) containers with a maximum weight of 15,000-lbs. (6,804 kg) for 7-high stacking of 9.5-ft. (2.9 m) high containers, and 8-high stacking of 8.5-ft. (2.6 m) high containers.

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.