



## “Big Red” TMHO-90

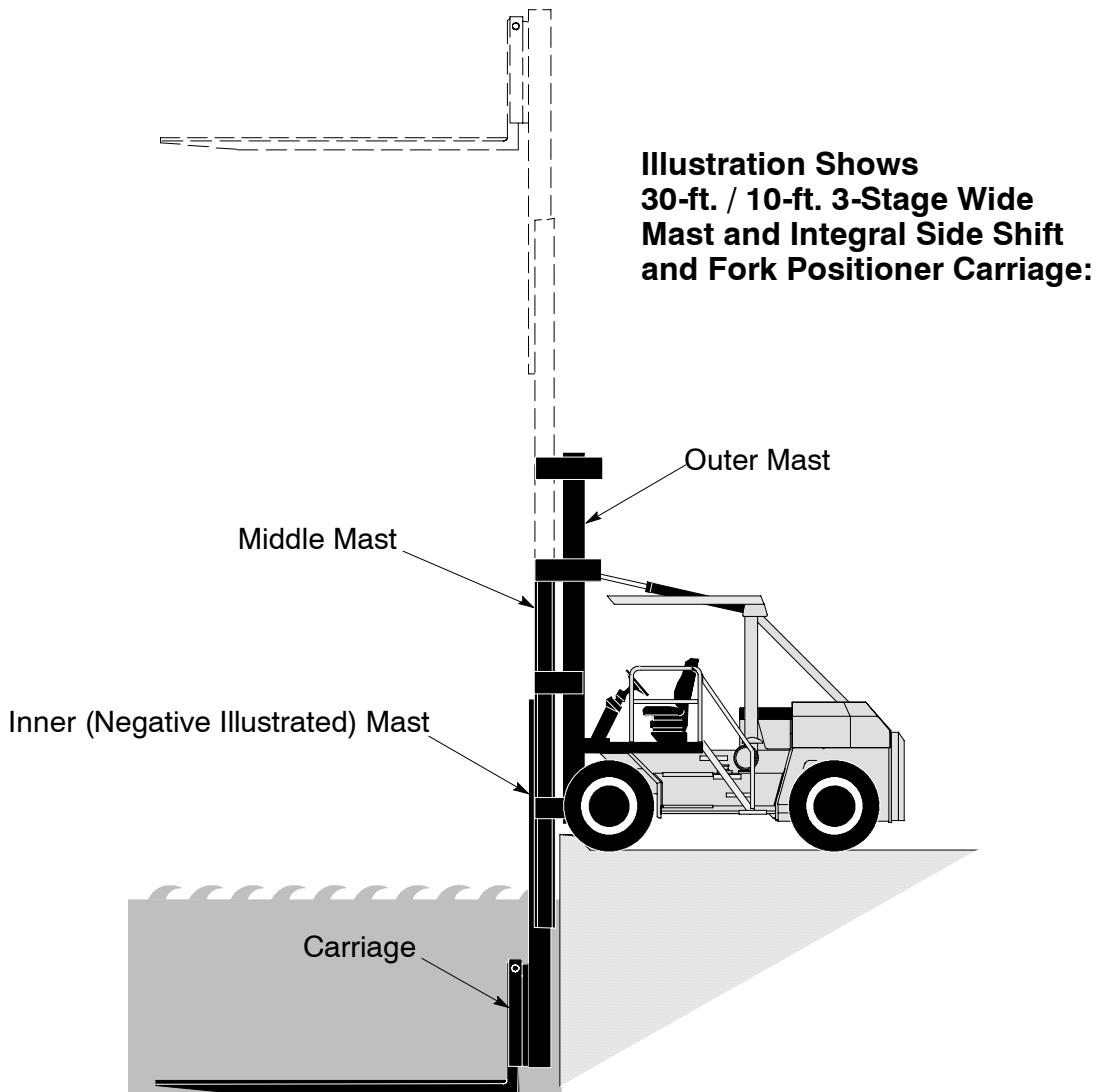
### Taylor Marina Truck Preliminary Specifications Offset Operator And Three Stage Mast

#### TMHO-90 Rated Capacities\*

9,000-lbs. (4,082 kg) Capacity to 30-ft. (9.14 m)  
10,500-lbs. (4,763 kg) Capacity to 20-ft. (6.10 m)  
15,000-lbs. (6,804 kg) Capacity to 10-ft. (3.04 m)

96-in. (2,438 mm) Load Center  
110-in. (2,794 mm) Wheelbase

\*See next page for explanation of capacity ratings with attachment options.

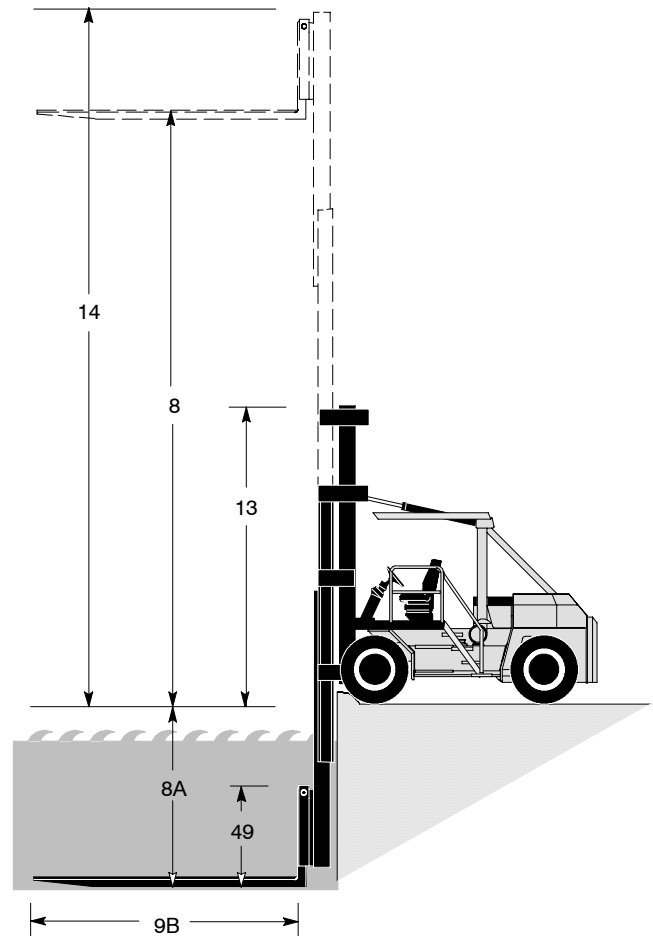
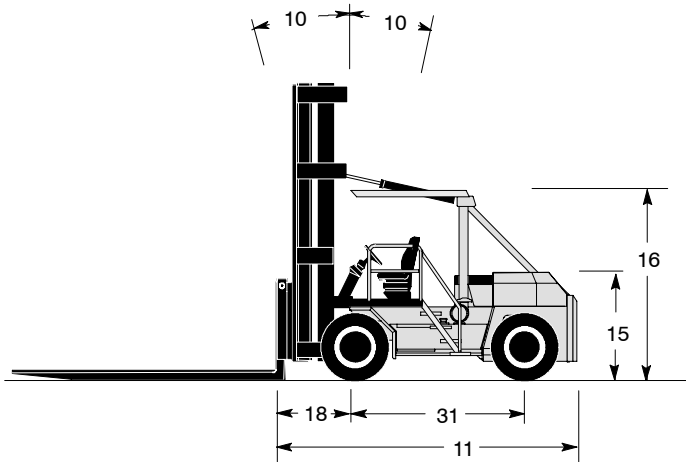
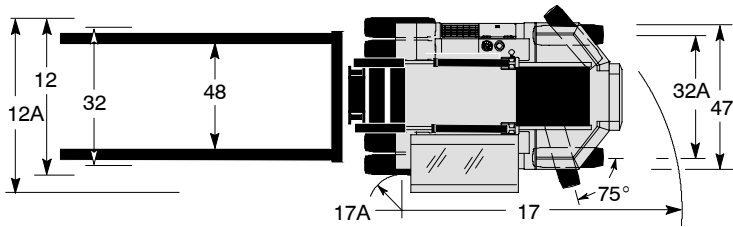


# "Big Red" TMHO-90 Marina Truck with Offset Operator and 3-Stage Mast

GENERAL	1.	Manufacturer	Manufacturer's Name	TAYLOR		
	2.	Model	Manufacturer's Designation	TMHO-90 w/3-stage Mast**		
DIMENSIONS	3.	Capacity	Rated Capacity to 30-ft. (9.14 m)	English	Metric	
						lb (kg)
			Rated Capacity to 20-ft. (6.10 m)	10,500	4,763	
			Rated Capacity to 10-ft. (3.04 m)	15,000	6,804	
	4.	Load Center	Distance	96	2,438	
	5.	Power Type	Gas, LPG, Or Diesel	Diesel		
	6.	Tire Type	Cushion, Pneumatic Front / Rear	Pneumatic / Pneumatic		
	7.	Wheels	Number (X = Driven) Front / Rear	4X / 2		
	8.	Upright Lift	Positive Lift (Top Of Fork) (Includes Fork Thickness)	368	9,347	
	8.A		Reach Below Ground Level (Negative Lower) (Bottom of Fork)	-120	-3,048	
	8.B		Free-Lift (Ground To Top of Fork)	128	3,251	
	9.	Forks	Thickness	8	203	
	9.A		Width	6	152	
	9.B		Length	216	5,486	
	10.	Tilt Angle	Standard Upright - Forward / Backward	2 / 5 deg.°		
	11.	Overall Dimensions	Length To Face Of Forks	196.5	4,991	
	12.		Width (Standard Tires)	103	2,616	
	12.A		Overall Width At Operator's Station	117	2,972	
	13.		Height, Upright Lowered	188	4,775	
	14.		Height, Upright Extended	428	10,871	
	15.		Height To Top Of Counterweight	70	1,778	
	16.		Height To Top Of Overhead Guard	129	3,277	
	17.	Turning Radius	Minimum Outside	171	4,343	
	17.A		Minimum Inside	11.5	292	
	18.	Load Distance	Center Of Wheel To Face Of Forks	53	1,346	
	19.	Aisle Width	(Add Load Length For 90° Stacking)	224	5,690	
	20.	Stability	Comply With ANSI?	Yes		
	PERFORMANCE	Speeds	Travel Speed - Maximum Forward	12 mph (km/h)	19.3	
			Lift Speed - No Load	75 fpm (m/s)	0.38	
			Lift Speed - With Load	70 fpm (m/s)	0.36	
			Lowering Speed - No Load / With Load	65 fpm (m/s)	0.33	
	24.	Drawbar Pull	Powershift (Maximum At Stall)	23,800 lb (kN)	106	
	†	Gradeability	Powershift (Maximum At Stall) No Load	34 %		
			Powershift (Maximum At Stall) With Load	31 %		
	WEIGHT	Axle Loading	Ttl. Apprx. Wt.	60,600 lb (kg)	27,488	
			Static With Rated Load - Front	68,800 lb (kg)	31,207	
			Static With Rated Load - Rear	6,800 lb (kg)	3,084	
			Static With No Load - Front	33,500 lb (kg)	15,196	
			Static With No Load - Rear	27,100 lb (kg)	12,292	
	WHEELS / TIRES	Tires	Number - Front / Rear	4 / 2		
			Size - Front	12.00 x 20 - 18 PR		
			Size - Rear	12.00 x 20 - 18 PR		
	31.	Wheelbase	Distance	110 in (mm)	2,794	
	32.	Tread	Center Of Outside (Dual) Tires - Front	90 in (mm)	2,286	
			Center Of Tires - Rear	80 in (mm)	2,032	
	33.	Ground Clearance	No Load At Lowest Point	9 in (mm)	229	
	34.		No Load At Center Of Wheelbase	16 in (mm)	406	
	35.	Brakes	Service / Parking - Method Of Control	Foot / Hand		
			Service / Parking - Method Of Operation	Air / Spring		
	37.	Battery	Volts / Ampere Hours (1 Battery)	V/Ah 12 / 1150		
	POWER UNIT / XMSN	Internal Combustion Engine	Make / Model	Cummins QSB5.9-30		
			Output - Intermittent Per SAE Standards	160 hp (kW)	119	
			Governed Speed - With Load	2,200 rpm		
			Cycle / Number Of Cylinders / Displacement	cu-in (L)	4 / 6 / 359	4 / 6 / 5.9
			42.	Clutch	Type	Inching
	43.	Gear Change	Type	Hand		
	44.	Transmission	Number Of Speeds - Forward / Reverse	3 / 3		
			Type	Powershift		
	46.	Relief Pressure	For Attachments	1,500 psi (bar)	103	
	47.		Width Across Counterweight	95.5 in (mm)	2,426	
	48.		Fork Spread(Inside) - Max. / Min. (Integral Style)	77.5 / 5.5 in (mm)	1,969 / 140	
	49.		Ground To Top Of Carriage	67.5 in (mm)	1,715	
	50.		Load Moment At Floor Level	2,235,000 in-lbs (m-kg)	25,750	

† NOTE: Performance specifications are for trucks 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" TMHO-90 Marina Truck with Offset Operator and 3-Stage Mast



Taylor Marina Lift Trucks are designed specifically for marina applications: for placing boats in dry storage facilities and retrieving them from dry storage facilities and placing them in the water.

The Taylor Marina Truck is shown with a three-stage mast that permits 30-ft. (9.14 m) of positive lift without sacrificing storage space near the ceiling and permitting passage through existing doors. The mast provides negative lower up to 10-ft. (3.05 m) and 120-in. (3,048 mm) "free-lift" to permit traveling with the boat at the carry position with no increase in collapsed height. The carriage is equipped with hydraulic side shifting capabilities and fork positioning or swing forks. Fork positioners or swing forks allow the operator to adjust the forks to precisely the proper spread needed for maximum support of any type hull; the side-shift feature enables the operator to position a boat in the rack without moving the truck.

Mast, fork carriage, and forks are controlled by independent levers assuring positive control at any position for maneuvering or placement of the load.

## Features:

- Turbocharged diesel engine
- Lockable fuel tank
- Dry air cleaner with safety element and restriction indicator
- 3-speed powershift transmission with inching control
- Heavy-duty battery (12 Volt)
- Straight air service brakes
- Spring-applied parking brake
- Offset operator station with pilot operated controls
- Overhead guard with high-mounted tilt cylinders
- Chrome-plated hydraulic cylinders
- Corrosion resistant coating on all painted surfaces
- Remote ground control pendant with coiled cord for in-water, unloaded fork height (lift / lower only) positioning
- Front splash guard
- Spray-on corrosion resistant coating to protect, mast, carriage, and forks.

## Options:

- Worklights
- Cold weather starting aid
- Engine protection system
- Fire extinguisher
- 3-stage mast with 30-ft. (9.14 m) positive and 10-ft. (3.05 m) negative lower, with either a Type "C" Carriage with integral side shift and fork positioners; or a Side Shift and Swing Fork Type Carriage.
- Forks with sectional white soft pads

**Grades in excess of 5° (9%) may require factory adjustment of backward tilt. Contact Taylor Engineering if this (or and) specification is critical.**

\*\* Capacities are with 3 stage 30-ft. (9.14 m) positive lift and 10-ft.. (3.05 m) negative lower, with either type carriage and 18-ft.. (5,385 mm) forks. For capacities with other attachments contact factory.

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# “Big Red” TMHO-90 Marina Truck with Offset Operator and 3-Stage Mast

## Engine

Cummins QSB5.9-30 electronic turbocharged diesel, 6-cylinder engine. 359 cu-in. (5.9 L) displacement. 4.02-in. (102 mm) bore x 4.72-in. (120 mm) stroke. Peak power 160 horsepower (119 kW) at 2000 rpm. Peak torque 440 ft.-lbs. (596 N-m) at 1500 rpm. (SAE J1995 Conditions)

Emission certification: US EPA Tier II, Carb Tier II, EU Stage II.

The fuel tank capacity is 50 gallons (189 L).

Includes engine and transmission protection system.

## Air Cleaner

The dry type air cleaner is equipped with a safety element and restriction indicator.

## Cooling System

The cooling system uses a conventional top / bottom tank radiator. Wide fin spacing reduces dirt build-up and provides optimum engine cooling.

## Electrical, Instrumentation, and Accessories

The unit has a 12 volt electrical system, heavy duty battery, 100 amp alternator, and all wiring is color coded.

Standard gauges are mechanical, eliminating potential corrosive effects of sea water on electrical instrumentation. The lighted gauges are: transmission oil pressure, transmission oil temperature, engine oil pressure, engine temperature, and air pressure.

An electrical fuel gauge and a single cluster of warning lights, which include low air, seat belt, parking brake, and battery indicator, along with a key-type anti-restart ignition switch, sealed light switch, forward alarm switch, air horn, keyswitch-actuated amber strobe light, reverse-actuated warning horn, circuit breakers, and relays have been removed from the steering console to a sealed, corrosive-proof fiberglass panel, mounted to the operator's right.

Unloaded fork carriage lift and lower functions may be controlled from the ground with a two-button electrical pendant on a 20-ft. coiled cord that conveniently stores on the left front fender.

The unit has tilt steering and rearview mirrors.

## Transmission

The three-speed, fully reversing, modulated, powershift transmission has a foot controlled inching pedal with brakes behind inching. The transmission has sealed electric shift controls and a separate air-to-oil cooler. The filler pipe dipstick and large, heavy-duty, spin-on oil filter are easily accessible.

## Drive Axle

The bolted heavy-duty planetary drive axle utilizes a hypoid ring gear and pinion.

## Steer Axle

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

## Brake System

The 16.5-in. (419 mm) diameter x 7-in. (178 mm) wide S-cam service brakes utilize a pedal to combine transmission inching / disconnect with brake actuation and a separate pedal for brake actuation. The parking brake is spring-applied with instrument panel mounted control.

## Power Steering

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

## Chassis

The all-welded frame has an integral counterweight and a bolt-on weight on the rear. The engine compartment has a spring-assisted hood for service access. The offset mounted operator station is positioned forward over the left front drive wheels for optimum visibility forward and rearward, with easy access from both sides of the machine. An overhead guard has a tough, tinted plastic skyview window. The vinyl-covered suspension seat (with an operator seat belt) is fully adjustable.

## Hydraulic System

The large capacity hydraulic tank has a spin-on tank breather, 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 tank refill capacity is 40 gallons (151 L).

The hydraulic system utilizes a gear-type pump. Control valves are separate, stacked, and 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. Pilot operated control levers are conveniently located.

## Optional Mast

The three-stage mast design provides low overall height of mast when lowered.

The optional mast has 30-ft. (9.14 m) positive lift and 10-ft (3.05 m) negative lower with one of the following carriages:

## Optional Carriages

- A. Type C Carriage with integral side shift and fork positioners; or
- B. Side Shift and Swing fork type carriage.

## Optional Forks

The pin-mounted, square tip, bottom tapered forks are fabricated. The standard fork size is 8-in. x 6-in. x 216-in. (203 mm x 152 mm x 5,486 mm).

Note: Illustrations of equipment may sometimes show optional equipment not included on a standard model.

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 operating area. If these specifications are critical, contact the factory.

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