

## **“Big Red” THD-280M / THD-300M / THD-330M**

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### **Taylor Industrial Trucks Standard Specifications**

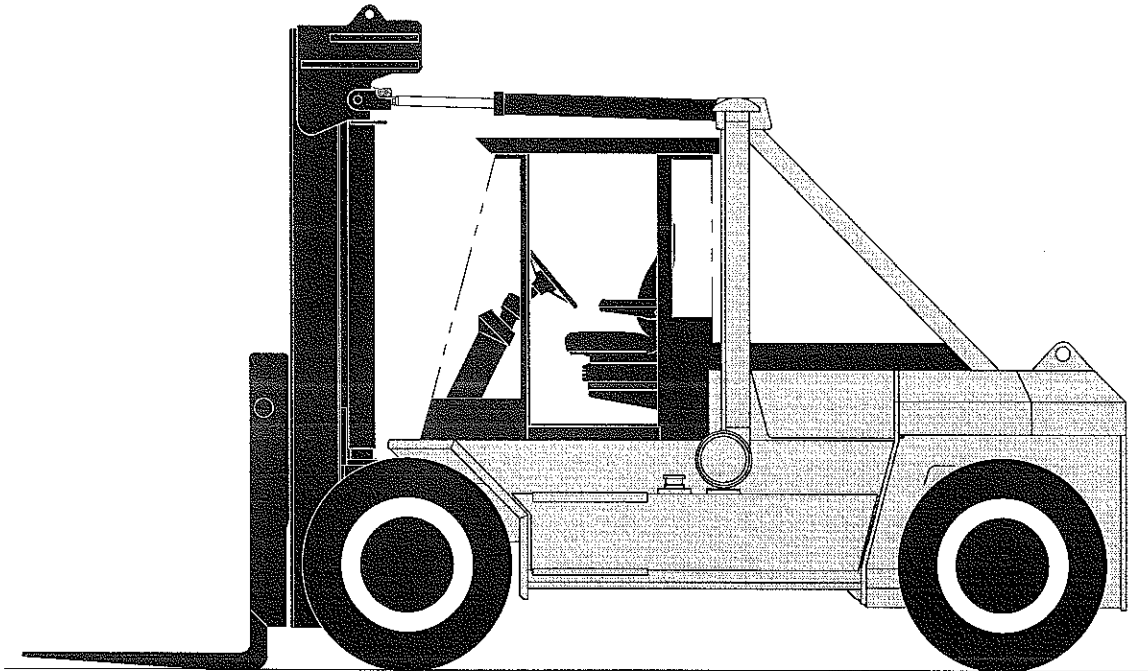
**THD-280M Rated Capacity 28,000-lbs. (12,710 kg)**

**THD-300M Rated Capacity 30,000-lbs. (13,620 kg)**

**THD-330M Rated Capacity 33,000-lbs. (14,980 kg)**

**24-in. (610 mm) Load Center**

**125-in. (3,175 mm) Wheelbase**



# "Big Red" THD-280M / THD-300M / THD-330M

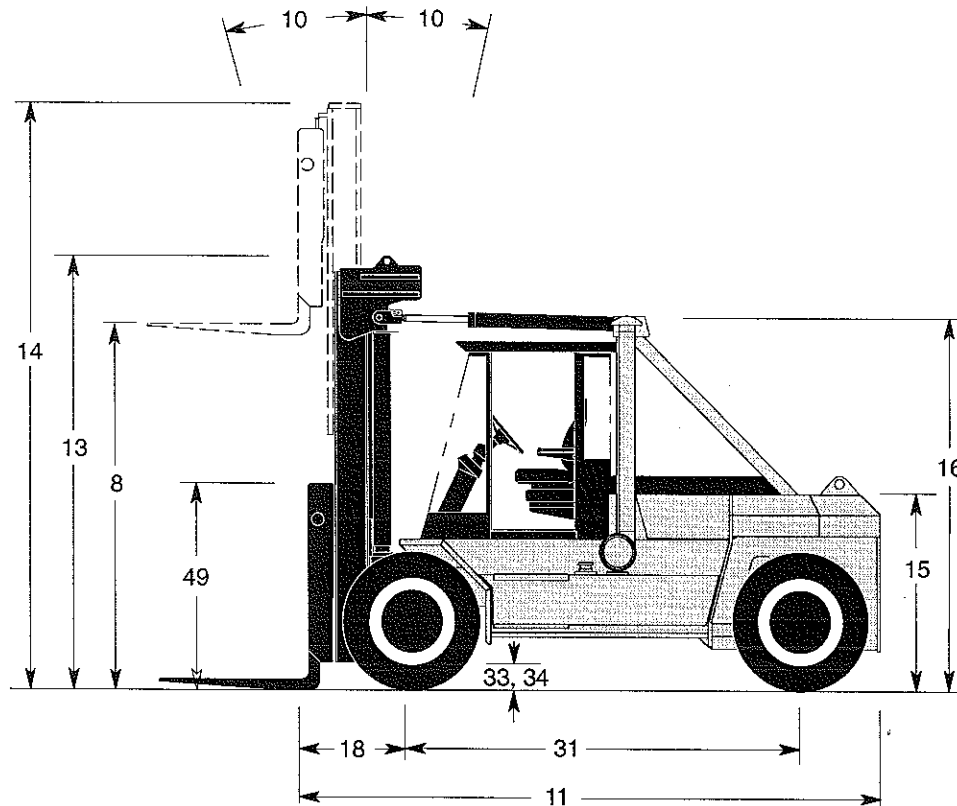
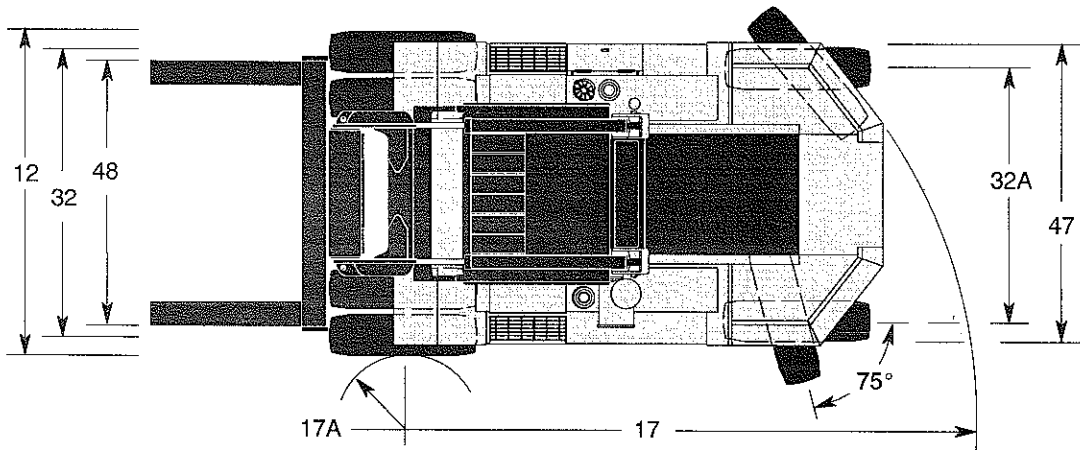
GENERAL	1	Manufacturer	Manufacturer's Name		TAYLOR		TAYLOR		TAYLOR	
	2	Model	Manufacturer's Designation		THD-280M		THD-300M		THD-330M	
					English	Metric	English	Metric	English	Metric
	3	Capacity	Rated Capacity	lb (kg)	28,000	12,710	30,000	13,620	33,000	14,980
	4	Load Center	Distance	in (mm)	24	610	24	610	24	610
	5	Power Type	Gas, LPG, Or Diesel		Diesel		Diesel		Diesel	
	6	Tire Type	Cushion, Pneumatic Front / Rear		Pneumatic / Pneumatic		Pneumatic / Pneumatic		Pneumatic / Pneumatic	
	7	Wheels	Number (X = Driven) Front / Rear		4X / 2		4X / 2		4X / 2	
DIMENSIONS	8	Upright Lift	Standard Lift (Top Of Fork)	in (mm)	135.5	3,442	135.5	3,442	135.5	3,442
	9	Forks	Thickness	in (mm)	3.5	89	3.5	89	3.5	89
	9A		Width	in (mm)	8	203	8	203	8	203
	9B		Length	in (mm)	48	1,219	48	1,219	48	1,219
	10	Tilt Angle	Standard Upright - Forward / Backward		deg.°		15 / 12		15 / 12	
	11	Overall Dimensions	Length To Face Of Forks	in (mm)	188.5	4,790	188.5	4,790	191.5	4,865
	12		Width (Standard Tires)	in (mm)	103	2,615	103	2,615	103	2,615
	13		Height, Standard Upright Lowered	in (mm)	143	3,632	143	3,632	143	3,632
	14		Height, Standard Upright Extended	in (mm)	209	5,308	209	5,308	209	5,308
	15		Height To Top Of Counterweight	in (mm)	63	1,600	63	1,600	63	1,600
	16		Height To Top Of A-Frame	in (mm)	118	3,000	118	3,000	118	3,000
	17	Turning Radius	Minimum Outside	in (mm)	178	4,520	178	4,520	180	4,570
	17A		Minimum Inside	in (mm)	18	460	18	460	18	460
	18	Load Distance	Center Of Wheel To Face Of Forks	in (mm)	32	813	32	813	32.5	825
	19	Aisle Width	(Add Load Length For 90° Stacking)	in (mm)	209.5	5,320	209.5	5,320	210.5	5,350
PERFORMANCE	20	Stability	Comply With ANSI?		Yes		Yes		Yes	
	21	Speeds	Travel Speed - Maximum Forward	mph (km/h)	17	27	17	27	17	27
	22		Lift Speed - No Load	fpm (m/s)	68	.35	68	.35	68	.35
	22A		Lift Speed - With Load	fpm (m/s)	65	.33	65	.33	65	.33
	23		Lowering Speed - No Load / With Load	fpm (m/s)	70 / 75	.36 / .38	70 / 75	.36 / .38	70 / 75	.36 / .38
	24	Drawbar Pull	Powershift (Maximum At Stall)	lb (kN)	24,250	108	24,150	107	24,000	107
	25	Gradeability	Powershift (Maximum At Stall) No Load	%	33.2		33.5		32.9	
25A	Powershift (Maximum At Stall) With Load		%	40.2		36.8		32.8		
WT	26	Ttl. Apprx. Wt.	Standard Truck	lb (kg)	37,000	16,800	40,000	18,160	44,000	19,980
	27	Axle Loading	Static With Rated Load - Front	lb (kg)	59,760	24,090	64,290	29,190	70,610	32,060
	27A		Static With Rated Load - Rear	lb (kg)	5,330	2,420	5,710	2,590	6,390	2,900
	27B		Static With No Load - Front	lb (kg)	19,240	8,735	20,970	9,520	22,700	10,310
	27C		Static With No Load - Rear	lb (kg)	17,760	8,065	19,030	8,640	21,300	9,670
WHEELS / TIRES	28	Tires	Number - Front / Rear		4 / 2		4 / 2		4 / 2	
	29		Size - Front	12.00 x 20 - 18 PR		12.00 x 20 - 18 PR		12.00 x 20 - 18 PR		
	30		Size - Rear	12.00 x 20 - 18 PR		12.00 x 20 - 18 PR		12.00 x 20 - 18 PR		
	31	Wheelbase	Distance	in (mm)	125	3,175	125	3,175	125	3,175
	32	Tread	Center Of Outside (Dual) Tires - Front	in (mm)	90	2,280	90	2,280	90	2,280
	32A		Center Of Tires - Rear	in (mm)	80	2,030	80	2,030	80	2,030
	33	Ground Clearance	No Load At Lowest Point	in (mm)	9	230	9	230	9	230
	34		No Load At Center Of Wheelbase	in (mm)	16	410	16	410	16	410
35	Brakes	Service / Parking - Method Of Control		Foot / Hand		Foot / Hand		Foot / Hand		
36		Service / Parking - Method Of Operation		Air / Spring		Air / Spring		Air / Spring		
PWR UNIT / XMSN	37	Battery	Volts / Ampere Hours (1 Battery)	V/Ah	12 / 1150		12 / 1150		12 / 1150	
	38	Internal Combustion Engine	Make / Model		Cummins B5.9C-160		Cummins B5.9C-160		Cummins B5.9C-160	
	39		Output - Intermittent Per SAE Standards	hp (kW)	160	119	160	119	160	119
	40		Governed Speed - With Load	rpm	2200		2200		2200	
	41		Cycle / Number Of Cylinders / Displacement	cu-in (L)	4 / 6 / 359	4 / 6 / 5.9	4 / 6 / 359	4 / 6 / 5.9	4 / 6 / 359	4 / 6 / 5.9
	42	Clutch	Type	Inching		Inching		Inching		
	43	Gear Change	Type	Hand		Hand		Hand		
44	Number Of Speeds - Forward / Reverse		3 / 3		3 / 3		3 / 3			
45	Transmission	Type	Powershift		Powershift		Powershift			
46	Relief Pressure	For Attachments	psi (bar)	2,000	138	2,000	138	2,000	138	
47		Width Across Counterweight	in (mm)	95.5	2,426	95.5	2,426	95.5	2,426	
48		Standard Fork Spread	in (mm)	84	2,134	84	2,134	84	2,134	
49		Ground To Top Of Carriage	in (mm)	64.5	1,638	64.5	1,638	64.5	1,638	
50		Load Moment	in-lbs (m-kg)	1,568,000	18,066	1,680,000	19,356	1,864,500	21,496	

† 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" THD-280M / THD-300M / THD-330M

Mast Dimensions (inches / millimeters)

2-Stage ULTRA-VU Telescopic Mast	Optional Lift Height (8)*		OAHL (13)		OAHR (14)	
	English	Metric	English	Metric	English	Metric
	135.5	3,442	143	3,632	209	5,308
	159.5	4,051	155	3,937	233	5,918
	183.5	4,661	167	4,242	257	6,528
*Includes Fork Thickness	219.5	5,575	185	4,699	293	7,442



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## "Big Red" THD-280M / THD-300M / THD-330M

### Engine

Cummins B5.9-C160 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. 160 gross brake horsepower (119 kW) at 2200 rpm (SAE standard ambient conditions). Peak torque 440 ft-lbs. (596 N-m) at 1600 rpm. The fuel tank capacity is 50 gallons (189 L).

### Air Cleaner

The dry type air cleaner has a safety element, restriction indicator and vertical air intake extension.

### Cooling System

The conventional top / bottom tank radiator has wide fin spacing to reduce dirt build-up and provide optimum engine cooling.

### Electrical, Instrumentation, and Accessories

The one-piece instrument panel is pre-wired to accommodate heavy-duty accessories. All wiring is color coded.

The unit has a 12-volt electrical system with circuit breakers. Standard equipment includes a key-type anti-restart ignition switch system, 100-amp alternator, heavy-duty battery, mechanical pressure gauges, lighted instruments, electric horn, keyswitch-actuated amber strobe light, forward alarm, and a reverse-actuated warning horn.

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.

The unit has tilt steering and rear view mirrors.

### Transmission

The three-speed, fully reversing, modulated powershift transmission has inching, electric roll shift control, and a separate air-to-oil cooler. The filler pipe dipstick and large, heavy-duty oil filter are easily accessible.

### Drive Axle

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

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

### Power Steering

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

### Chassis

The all-welded frame has an integral, sloped, counterweight. The hood is spring assisted. The rubber-mounted, center mount overhead guard is integral with the base assembly. The suspension seat with an operator seat belt is adjustable.

### Hydraulic System

The high capacity hydraulic tank has a spin-on tank breather, wire-mesh strainers, and full-flow 10-micron return-line filters with a replaceable element in the tank. The tank refill capacity is 45 gallons (170 L).

The hydraulic system utilizes a gear-type pump and sectional control valves. A tilt-lock valve reduces mast drift and torsional stress. The lift cylinders have self-adjusting packing. The standard dual pilot operated control levers are conveniently located.

### Mast, Carriage, and Rollers

The 11-ft. (3.4 m) ULTRA-VU telescopic, nested-channel mast, with two multiple-leaf lift chains, is constructed of high-strength steel. The double-acting lift cylinders are nested to the rear of the mast rails. Two lifting eyes and bolt-on caps permit safe, easy removal.

Pin-type 84-in. (2134 mm) wide "C" carriage.

The mast and carriage main rollers are common and use shielded roller bearings. Chain rollers use sealed ball bearings. Side bearings are adjustable to compensate for wear.

### Forks

The forks are pin-mounted and fully adjust from the outer carriage plates to the center brace. They are forged from heat treated steel, and have square tips and bottom tapers.

Size: 3.5-in. x 8-in. x 48-in. (89 mm x 203 mm x 1,219 mm)

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.

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

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