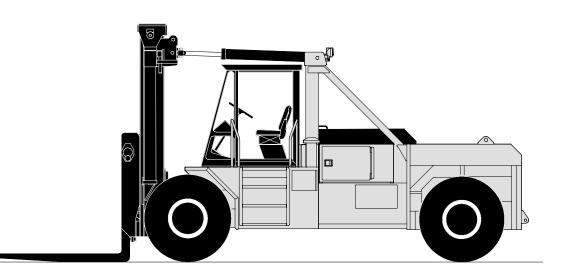


"Big Red" TE-520M

Taylor Industrial Truck Standard Specifications

Rated Capacity 52,000-lbs. (23,587 kg) 48-in. (1,219 mm) Load Center 170-in. (4,318 mm) Wheelbase



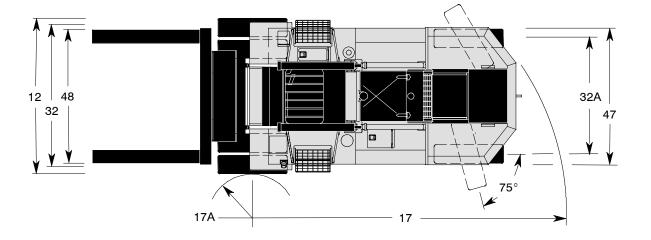
"Big Red" TE-520M

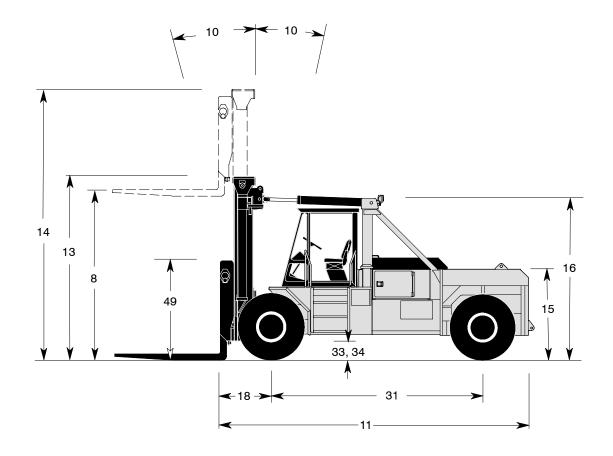
	1	Manufacturer	Manufacturer's Name		TAYL	OR
~	2	Model	Manufacturer's Designation		TE-52	
G E					English	Metric
Ν	3	Capacity	Rated Capacity	lb (kg)	52,000	23,587
E R	4	Load Center	Distance	in (mm)	48	1,219
A	5	Power Type	Gas, LPG, Or Diesel		Dies	el
L	6	Tire Type	Cushion, Pneumatic Front / Rear		Pneumatic / F	Pneumatic
	7	Wheels	Number (X = Driven) Front / Rear		4X /	2
	8	Upright Lift	Standard Lift (Top Of Fork)	in (mm)	137	3,480
	9		Thickness	in (mm)	5	127
	9A	Forks	Width	in (mm)	10	254
_	9B		Length	in (mm)	96	2,438
D	10	Tilt Angle	Standard Upright - Forward / Backward	deg.°	15 / 1	
М	11		Length To Face Of Forks	in (mm)	249.25	6,331
E N	12		Width (Standard Tires)	in (mm)	120	3,048
s	13	Overall	Height, Standard Upright Lowered	in (mm)	147	3,734
1	14	Dimensions	Height, Standard Upright Extended	in (mm)	213	5,410
N	15		Height To Top Of Counterweight	in (mm)	72	1,829
s	16		Height To Top Of A-Frame	in (mm)	129	3,277
	17	Turning Radius	Minimum Outside Minimum Inside	in (mm)	235	5,969
	17A 18	Load Distance	Minimum Inside Center of Wheel To Face Of Forks	in (mm)	42.25	660 1,073
		Aisle Width		in (mm)		
	19		(Add Load Length For 90° Stacking)	in (mm)	277.25	7,042
_	20	Stability	Comply With ANSI?		Yes	
P _	21		Travel Speed - Maximum Forward	mph (km/h)	15.7	25.3
E	22	Speeds	Lift Speed - No Load	fpm (m/s)	56	0.28
R	22A	-	Lift Speed - With Load	fpm (m/s)	49	0.25
F	23	Drawbar Pull	Lowering Speed - No Load / With Load	fpm (m/s)	Adjusta	
	24	Drawbar Puli	Powershift (Maximum At Stall)	lb (kN)	35,300	157
†	25	Gradeability	Powershift (Maximum At Stall) No Load	%	30.2	
	25A 26	Ttl. Apprx. Wt.	Powershift (Maximum At Stall) With Load Standard Truck	% lb (1(2)	28.4	33,476
		та. дрргл. ти.	Static With Rated Load - Front	lb (kg)	113,965	51,695
W T	27 27A		Static With Rated Load - Rear	lb (kg) lb (kg)	11,835	5,368
т	27B	Axle Loading	Static With No Load - Front	lb (kg)	34,350	15,581
	27C		Static With No Load - Rear	lb (kg)	39,350	17,849
	28		Number - Front / Rear		4/2	
w	29	Tires	Size - Front		14.00 x 25	
н	30		Size - Rear		14.00 x 25	
L	31	Wheelbase	Distance	in (mm)	170	4,318
S /	32		Center Of Outside (Dual) Tires - Front	in (mm)	86	2,184
Ť	32A	Tread	Center Of Tires - Rear	in (mm)	91	2,311
I R	33	Ground	No Load At Lowest Point	in (mm)	14.5	368
Е	34	Clearance	No Load At Center Of Wheelbase	in (mm)	18	457
s	35	Brakes	Service / Parking - Method Of Control		Foot / H	land
	36	Brakes	Service / Parking - Method Of Operation		Air / Sp	ring
Ρ	37	Battery	Volts / Ampere Hours (2 Batteries)	V/Ah	12 / 23	300
W	38		Make / Model		Cummins C	3.3-C215
R	39	Internal Combustion	Output - Intermittent Per SAE Standards	hp (kW)	215	160
U	40	Engine	Governed Speed - With Load	rpm	220)
N I	41	•	Cycle / Number Of Cylinders / Displacement	cu in (L)	4 / 6 / 504.5	4 / 6 / 8.3
Ť	42	Clutch	Туре		Declu	tch
/	43	Gear Change	Туре		Han	d
X M	44	Transmission	Number Of Speeds - Forward / Reverse		3/3	3
S	45	11011011001	Туре		Powers	shift
Ν	46	Relief Press.	For Attachments	psi (bar)	1500	103
	47		Width Across Counterweight	in (mm)	108	2,743
	48		Standard Fork Spread	in (mm)	100	2,540
	49		Ground To Top Of Carriage	in (mm)	79	2,007
	50		Load Moment	in-lbs (m-kg)	4,693,000	54,070

† 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" TE-520M

last Dimensions (inches / millimeters)						
	Optional Lift Height (8)		OAHL (13)		OAHR (14)	
2-Stage ULTRA-VU Telescopic Mast	English	Metric	English	Metric	English	Metric
	137	3,480	147	3,734	213	5,410
	161	4,089	159	4,039	237	6,020
	185	4,699	171	4,343	261	6,629
	221	5,613	189	4,801	297	7,544





"Big Red" TE-520M

Engine

Cummins C8.3-C215 turbo-charged diesel engine. 504.5 cu-in. (8.3 L) displacement. 4.49-in. (114 mm) bore x 5.32-in. (135 mm) stroke, 215 (160 kW) gross brake horsepower at 2200 rpm (all engine ratings are based on SAE J 1349 conditions). Peak torque is 642 ft-lbs. (870 N-m) at 1500 rpm. The engine is rubber mounted to increase noise control. The fuel tank capacity is 60 gallons.

Air Cleaner

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

Cooling System

Coolant recovery cooling system has an extra large down flow radiator for maximum efficiency. The wide fin spacing reduces dirt build-up and provides optimum engine cooling.

Electrical, Instrumentation, and Accessories

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

The unit has a 12-volt electrical system. Standard equipment includes a key-type anti-restart ignition system, 2 heavy-duty batteries, 100-amp alternator, mechanical pressure gauges, electrical temperature gauges, reset circuit breakers, lighted instruments, horn, work lights (two front, and two rear), key-switch actuated amber strobe light, reverse-actuated warning alarm and tilt steering.

Gauges include fuel level, ammeter, hourmeter, air pressure, engine oil pressure, engine coolant temperature, transmission oil pressure, and transmission oil temperature. Lights included are seat belt light, low air light, parking brake light, and step lights.

Transmission

The three-speed, fully reversing, modulated, powershift transmission has declutch and electric shift control. Brakes behind declutch. The filler pipe dipstick and large, heavy-duty, oil filter are easily accessible. Separate air-to-oil cooler. The integrally built torque converter has constant mesh gear sets actuated by hydraulic clutch packs. An automatic powershift control is standard.

Drive Axle

The heavy-duty planetary type drive axle housing is welded to the frame.

Steer Axle

The single hydraulic cylinder design steer axle, with heavy-duty links from the cylinder ram directly to tapered roller bearing mounted spindles, has tapered wheel and kingpin bearings. All joints are sealed, can be lubricated, and never need adjusting.

Brake System

The force cooled, wet disc, air/hydraulic actuated, service brakes are mounted on the drive axle. The transmission is equipped with a spring-applied drum brake for parking.

Chassis

The all welded frame has an integral, sloped, counterweight and tubular A-frame. A spring-assisted hood and hinged doors provide easy access to service points.

The canopy is integral with the operator station base. The center mount operator station is standard and can be optionally located offset to the left side of the vehicle. The tinted, unbreakable, Lexan top with steel crossbars provides maximum visibility and protection. The suspension seat with an operator seat belt is adjustable.

Hydraulic System

The large capacity hydraulic tank has a spin-on tank breather, suction strainers, return line filters, and replaceable elements in the tank. The hydraulic system utilizes transmission-driven gear type pumps. The tank refill capacity is 72 gallons (273 L). The tilt lock valve prevents mast drift and reduces torsional stress. Dual lift cylinders have chrome-plated rods and self-adjusting packing. Control levers are conveniently located. Valves are controlled with hydraulic remotes.

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 for minimum weight. The two lifting eyes and bolt-on caps permit safe, easy removal of the mast.

The "C" type carriage has a high strength-to-weight ratio. The forks are pin-mounted and fully adjustable from 100-in. (2,540 mm) outside to 2-in. (51 mm) inside the center brace.

Main rollers have shielded, tapered, roller bearings; chain rollers use shielded ball bearings. The carriage side rollers are adjustable to compensate for wear. All rollers can be lubricated.

Forks

The forks are hammer forged from heat treated alloy steel. Standard size: 5-in. x 10-in. x 96-in. (127 mm x 254 mm x 2438 mm).

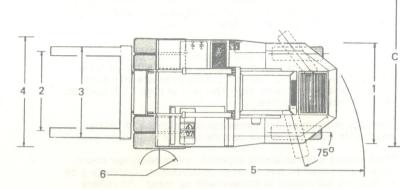
This vehicle is certified to meet the applicable design and performance criteria required for Powered Industrial Trucks in OSHA Safety and Health Standards, Title 29 CFR. Part 1910.178, and the applicable design and performance requirements in ANSI B56.1 that were in effect at the time of manufacture.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

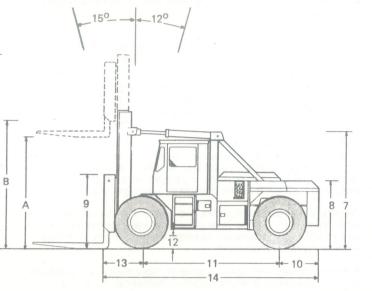
All specifications are subject to change without notice. Some operating data may be affected by the condition of the operating area. If these specifications are critical, contact the factory.



Lift Truck Specifications

Model TY-520M 52,000 lb. Capacity at 48-inch Load Center 167-inch Wheelbase





		dec 64 280	3		Alternational and a state of the second s		
I - Width across counterweight				108 in.			
2 - Tread width, drive axle			86 in.				
3 - Fork spread (standard)			100 in.				
4 - Width over tires		and an and a second second	118.50 in.				
5 - Outside turn radius (tai	I swing)		239.50 in. 25 in. 125.50 in.				
6 - Inside turn radius							
7 - Height to top of A-frame							
8 - Height to top of counter	weight		71.75 in.				
9 - Height to top of carriage				78 in.			
10 - Steer axle CL to rear or	fcounterweight			44.75 in			
11 - Wheelbase				167 in.			
12 - Underclearance (mast)				13 in.			
13 - Drive axle CL to carriag	<u> </u>		1.	41.25 in	• which a shirt the second second second		
14 - Overall length, less for	ks			253 in.			
Weight	Drive axle		32.750 lbs.				
	Steer axle	Steer axle		39.700 lbs.			
	Total	al 72,450 lbs		lbs.			
Load moment			4,641,000 inIbs.				
Tractive effort (maximum) a	at stall and .9 coef.		39,242 lbs.				
Minimum aisle for right ang	inimum aisle for right angle stacking (+ load length)			280.75 in.			
Gradeability at .9 coef.	Empty			40.7%			
	Loaded			29.5%			
Grade clearance	Center of truck		59%				
	Rear overhang		72%				
Tires	a to nother a state of the		14.00 x 24 - 20 PR				
	and subject in particular and so here a		C 1	Empty	Loaded		
Travel speed:	First			3.1 mph	3.1 mph		
forward and reverse	Second			6.4 mph	6.1 mph		
	Third		10.6 mph		10.0 mph		
	Fourth			17.7 mph	14.6 mph		
Lift speed			47 fpm		31 fpm		
			Telesco	pic Mast	Rigid Mast		
Upright dimensions	Opt. Lift Height (A)	OAH	L (B)	OAHR (C)	OAH		
A, B, and C (11-ft, Telescopic	132 in. (11 ft.)	146	in.	212 in.	210 in.		
ast, standard)	156 in. (13 ft.)	158 in.		236 in.	234 in.		
	180 in. (15 ft.)	170 in.		260 in.	258 in.		
	216 in. (18 ft.)	188	in.	296 in.	294 in.		

DDC 4-71 diesel. 4-valve, 2-cycle, 284 cubic inch displacement. 4.25-inch bore x 5-inch stroke. 157 basic rated horsepower at 2300 rpm (standard SAE conditions). Gross maximum torque 407 ft. lbs. at 1400 rpm. Engine is rubber mounted.

Air Cleaner

Farr 2-stage, heavy-duty cleaner using exhaust from brake system to remove dust from pre-cleaner panel.

Cooling System

Crossflow radiator for maximum efficiency and low hood profile. Deaeration tank provides optimum engine cooling; sight gauge for coolant level check (hood does not have to be raised).

Electrical and Instrumentation

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

Standard equipment includes two heavy-duty batteries, 55 amp alternator, lighted instruments, worklights (two front, two rear), rotating beacon, reverse warning horn, two rear view mirrors, and air horn.

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

Transmission

Four-speed powershift transmission with inching control. Single lever, roll shift, mounted on steering column. Separate air-to-oil transmission oil cooler. Filler pipe with dipstick and heavy-duty oil filter are easily accessible for servicing.

Drive Axle

Heavy-duty planetary. Hypoid ring gear and pinion with Hi-Traction® differential gearing. Axle housing is welded to frame.

Steer Axle

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

Air Brakes

Air-actuated S-cam service brakes with treadle valve and hand-operated spotting brake control. 20.25-inch diameter x 7-inch wide heavy-duty linings with cast steel drums.

10-inch diameter x 3-inch wide drum-type parking brake, mounted on transmission output shaft, is operated by overcenter 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 tubular A-frame. Spring-assisted hood and hinged doors provide easy access to service points. Rubber-mounted canopy, integral with base assembly, forms a one-piece operator's module which is offset to left-hand side. Tinted, unbreakable Lexan® top has steel crossbars for maximum visibility and protection.

Hydraulic System

Automatic 2-speed lift. One-gallon accumulator. 100-wire mesh strainers mounted in hydraulic tank. Separate returnline filter with replaceable spin-on element. Crankshaftdriven, gear-type pump with external pressure-check fittings. Separate, stacked, spool-type control valves mounted in fender for easy access. Tilt-lock valve prevents mast drift and reduces torsional stress. Pin-mounted lift cylinder with double, self-adjusting packing. Overhead tilt cylinders with chrome-plated rods and self-adjusting packing. Conveniently located control levers with adjustable stops.

Mast, Carriage and Rollers

Telescopic mast uprights and crossmembers are highstrength steel for minimum weight and maximum visibility. Two multiple-leaf hoist chains. Lifting eyes are standard. Bolt-on caps permit safe, easy removal of mast. Lift cylinder ram diameter is 9-inches.

Carriage is pin-type, high strength-to-weight ratio. Fully adjustable from 100-inches outside to 2-inches inside forks.

Main rollers have shielded, tapered, roller bearings; chain rollers are shielded ball bearing construction. Carriage side rollers are adjustable to compensate for wear. All rollers can be lubricated.

Forks

Forks are hammer forged from heat treated alloy steel; 96-inches long x 10-inches wide x 5-inches thick (standard).

Service Capacities

Radiator	42 quarts
Fuel tank	60 gallons
Engine lubrication	22 quarts
Transmission	36 quarts
Drive axle:	
Differential	16 quarts
Wheel end (each)	8 quarts
Steer axle hub (each)	1 quart
Hydraulic tank	72 gallons

This vehicle is certified to meet the design and performance criteria set forth by ANSI B56.1-1969 Part II safety standard for powered industrial trucks as required by Title 29 Part 1910.178 of the Occupational Safety and Health Standards. This truck also meets the revised safety standards of ANSI B56.1-1975, 1983-85. These standards apply to the use of this powered industrial truck and should be complied with in the use of this truck.

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.