



## **“Big Red” TE-900S/X**

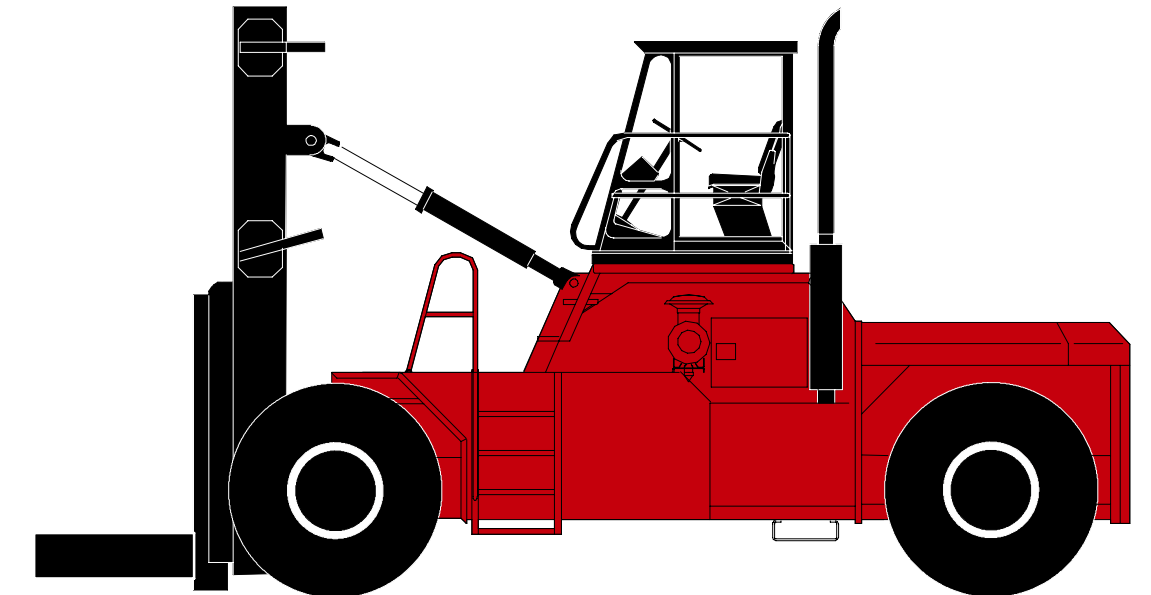
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### **Taylor Industrial Trucks Preliminary Specifications**

**Rated Capacity 90,000-lbs. (40,824 kg)**

**36-in. (914 mm) Load Center**

**190-in. (4,826 mm) Wheelbase**

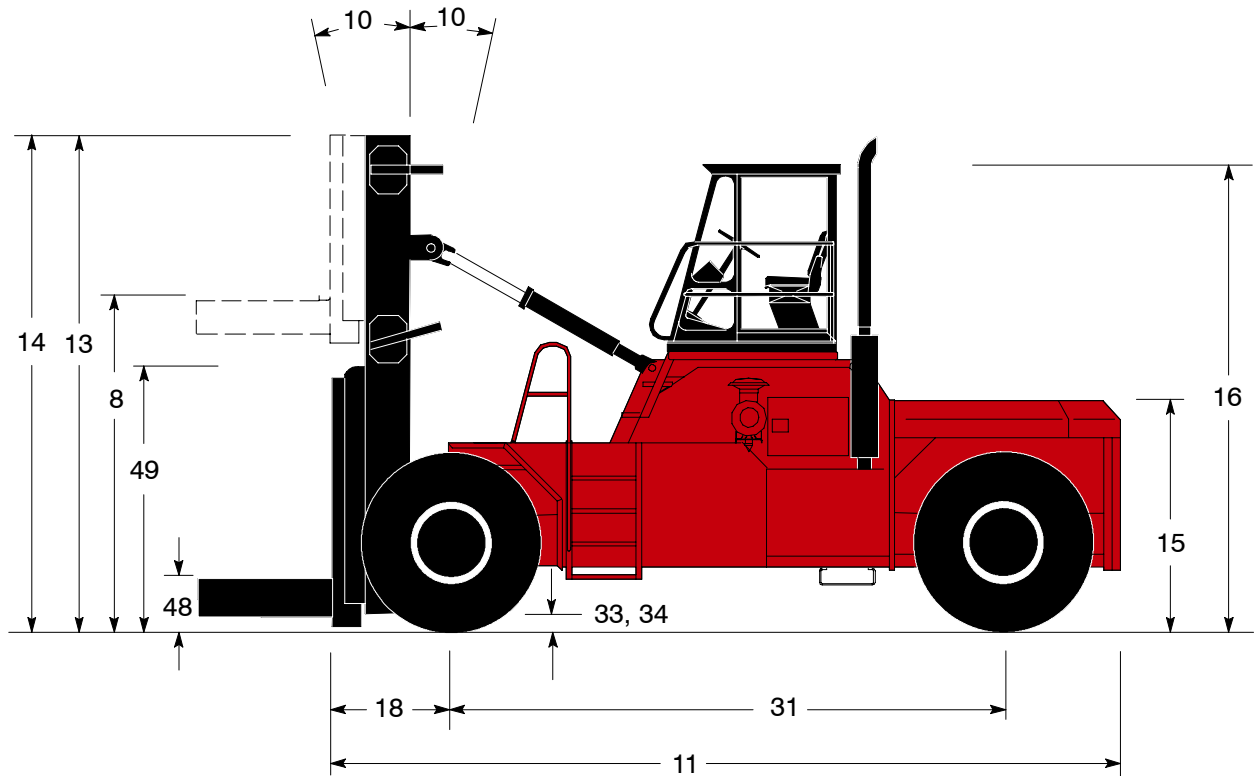
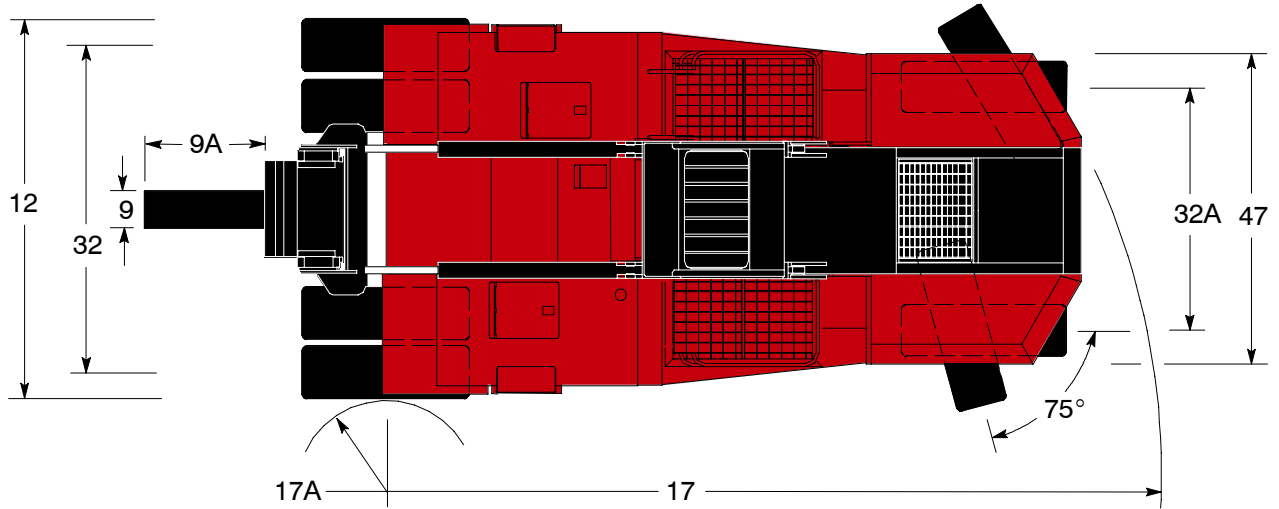


# "Big Red" TE-900S/X

| GENERAL            | 1              | Manufacturer                            | Manufacturer's Name                        | TAYLOR              |                             |
|--------------------|----------------|---|--|---------------------|-----------------------------|
|                    | 2              | Model                                   | Manufacturer's Designation                 | TE-900S/X           |                             |
|                    |                |   |  | English             | Metric                      |
|                    | 3              | Capacity                                | Rated Capacity                             | lb (kg)             | 90,000<br>40,824            |
|                    | 4              | Load Center                             | Distance                                   | in (mm)             | 36<br>914                   |
|                    | 5              | Power Type                              |  |                     | Diesel                      |
|                    | 6              | Tire Type                               | Front / Rear                               |                     | Pneumatic / Pneumatic       |
|                    | 7              | Wheels                                  | Number (X = Driven) Front / Rear           |                     | 4X / 2                      |
| DIMENSIONS         | 8              | Upright Lift                            | Standard Lift (Top of Ram)                 | in (mm)             | 150<br>3,810                |
|                    | 9              | Ram                                     | Outside Diameter                           | in (mm)             | 15<br>381                   |
|                    | 9A             |   | Length                                     | in (mm)             | 65<br>1,651                 |
|                    | 10             | Tilt Angle                              | Standard Upright - Forward / Backward      | deg.°               | 12 / 12                     |
|                    | 11             | Overall Dimensions                      | Length To Face Of Ram Carriage             | in (mm)             | 314<br>7,976                |
|                    | 12             |   | Width (Standard Tires)                     | in (mm)             | 147.5<br>3,746              |
|                    | 13             |   | Height, Standard Upright Lowered           | in (mm)             | 188<br>4,775                |
|                    | 14             |   | Height, Standard Upright Extended (Ram)    | in (mm)             | 188<br>4,775                |
|                    | 15             |   | Height To Top Of Counterweight             | in (mm)             | 81<br>2,057                 |
|                    | 16             |   | Height To Top Of Overhead Guard / Cab      | in (mm)             | 162<br>4,115                |
|                    | 17             | Turning Radius                          | Minimum Outside                            | in (mm)             | 258<br>6,553                |
| 17A                | Minimum Inside |   | in (mm)                                    | 0<br>0              |                             |
|                    | 18             | Load Distance                           | Center of Wheel To Face Of Ram Carriage    | in (mm)             | 45.31<br>1,151              |
|                    | 19             | Aisle Width                             | (Add Load Length For 90° Stacking)         | in (mm)             | 339.31<br>8,618             |
| PERFORMANCE        | 20             | Stability                               | Comply With ANSI?                          |                     | Yes                         |
|                    | 21             | Speeds                                  | Travel Speed - Maximum Forward             | mph (km/h)          | 14<br>22.5                  |
|                    | 22             |   | Lift Speed - No Load                       | fpm (m/s)           | 41<br>.21                   |
|                    | 22A            |   | Lift Speed - With Load                     | fpm (m/s)           | 39<br>.20                   |
|                    | 23             |   | Lowering Speed - No Load / With Load       | fpm (m/s)           | Adjustable                  |
|                    | 24             | Drawbar Pull                            | Powershift (Maximum At Stall)              | lb (kN)             | 39,580<br>176               |
| †                  | Gradeability   | Powershift (Maximum At Stall) No Load   | %  | 34.6                |                             |
| 25A                |                | Powershift (Maximum At Stall) With Load | %  | 19                  |                             |
| WEIGHT             | 26             | Ttl. Apprx. Wt.                         | Standard Truck                             | lb (kg)             | 107,350<br>48,694           |
|                    | 27             | Axle Loading                            | Static With Rated Load - Front             | lb (kg)             | 176,870<br>80,228           |
|                    | 27A            |   | Static With Rated Load - Rear              | lb (kg)             | 20,490<br>9,294             |
|                    | 27B            |   | Static With No Load - Front                | lb (kg)             | 48,350<br>21,932            |
|                    | 27C            |   | Static With No Load - Rear                 | lb (kg)             | 59,000<br>26,762            |
| WHEELS / TIRES     | 28             | Tires                                   | Number - Front / Rear                      |                     | 4 / 2                       |
|                    | 29             |   | Size - Front                               |                     | 18.00 x 25 - 32 PR          |
|                    | 30             |   | Size - Rear                                |                     | 18.00 x 25 - 32 PR          |
|                    | 31             | Wheelbase                               | Distance                                   | in (mm)             | 190<br>4,826                |
|                    | 32             | Tread                                   | Center Of Outside (Dual) Tires - Front     | in (mm)             | 127.5<br>3,238              |
|                    | 32A            |   | Center Of Tires - Rear                     | in (mm)             | 103<br>2,616                |
|                    | 33             | Ground Clearance                        | No Load At Lowest Point                    | in (mm)             | 6.75<br>172                 |
|                    | 34             |   | No Load At Center Of Wheelbase             | in (mm)             | -<br>-                      |
|                    | 35             | Brakes                                  | Service / Parking - Method Of Control      |                     | Foot / Hand                 |
|                    | 36             |   | Service / Parking - Method Of Operation    |                     | Air / Spring                |
| POWER UNITS / XMSN | 37             | Battery                                 | Volts / Ampere Hours (2 Batteries)         | V/Ah                | 12 / 2800                   |
|                    | 38             | Internal Combustion Engine              | Make / Model                               |                     | Cummins QSM11-335           |
|                    | 39             |   | Output - Intermittent Per SAE Standards    | hp (kW)             | 335<br>250                  |
|                    | 40             |   | Governed Speed - With Load                 | rpm                 | 2100                        |
|                    | 41             |   | Cycle / Number Of Cylinders / Displacement | cu in (L)           | 4 / 6 / 611<br>4 / 6 / 10.8 |
|                    | 42             |   | Clutch                                     | Type                |                             |
|                    | 43             | Gear Change                             | Type                                       |                     | Hand                        |
|                    | 44             | Transmission                            | Number Of Speeds - Forward / Reverse       |                     | 3 / 3                       |
|                    | 45             |   | Type                                       |                     | Powershift                  |
|                    | 46             | Relief Pressure                         | For Attachments                            | psi (bar)           | 1500<br>103                 |
| 47                 |                | Width Across Counterweight              | in (mm)                                    | 120<br>3,048        |                             |
| 48                 |                | Ground To Top Of Ram                    | in (mm)                                    | 20.5<br>521         |                             |
| 49                 |                | Ground To Top Of Carriage               | in (mm)                                    | 88<br>2,235         |                             |
| 50                 |                | Load Moment                             | in-lbs (m-kg)                              | 7,318,125<br>84,315 |                             |

† 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.

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## Engine

Cummins QSM11-C335 electronic turbocharged, charged air aftercooled (air to air) diesel engine. Rated power of 335-hp (250 kW) at 2100 rpm. Maximum power of 365-hp (272 kW) at 1800 rpm. The 4-cycle in-line 6 cylinder engine has 660 cubic in. (10.8 liter) displacement. The bore is 4.92 in. (125 mm) x 5.79 in. (147 mm) stroke. Peak torque is 1235 ft.-lbs (1674 N-m) at 1400 rpm (SAE J1349). This peak torque is maintained from 1000 to 1400 rpm.

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

The fuel tank capacity is 135 gallons (511 L).

## Air Cleaner

The 2-stage, heavy-duty, dry air cleaner with restriction indicator is easily serviced.

## Cooling System

Deaeration tank, with sight gauge for checking coolant level, 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, key-type anti-restart ignition system, two 220 amp-hour batteries, 100-amp alternator, main battery disconnect switch, mechanical pressure gauge, thermal reset circuit breakers, and lighted instruments.

Standard equipment includes six worklights (four front, two rear), rear-view mirror, horn, key-switch actuated amber strobe light, and reverse-actuated warning alarm.

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

## Transmission

The three-speed, fully reversing, modulated, powershift transmission has declutch with brakes behind the declutch feature and electric shift control. 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.

## Drive Axle

Heavy-duty planetary. Hypoid ring gear and pinion with differential gearing. Bolted to the frame.

## Steer Axle

Single cylinder design. Tapered wheel and kingpin bearings are fully sealed and never need adjusting.

## Brake System

Force cooled wet-disc air over hydraulic service brakes. Wheel brakes are supplemented by an additional drive line brake which is spring applied for parking.

## Power Steering

Hydrostatic steering system with excellent response at all engine speeds.

## Chassis

The all-welded frame has an integral sloped counterweight and tubular, pinned A-frame. Hinged doors provide easy access to service points. The elevated center mount operator and overhead guard w/2 door cab, 25,000 BTU heater, front and rear windshield wipers, dome light, tinted windows, and one fan tilts forward to aid in engine removal. The adjustable vynal covered mechanical suspension seat with flip-down, adjustable arm rests and orange seat belt.

## 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 tank refill capacity is 195 gallons (738 L).

The gear-type pumps are converter driven. Control valves are separate, stacked, spool-type. The tilt-lock valve prevents mast drift and torsional stress.

The self-aligning, bearing-mounted lift cylinders have chrome plated rods and self-adjusting packing. Control levers are conveniently located and the valves are controlled with hydraulic remotes.

## Mast, Carriage, and Rollers

Mast uprights and crossmembers are high-strength steel for minimum weight. 10-ft. (3 m) rigid mast with direct lift, telescopic lift cylinder for maximum visibility. Lifting eyes are standard. The mast can be safely and easily removed.

The ram carriage is constructed of high-strength steel and is designed for high visibility.

The ram carriage side rollers are adjustable to compensate for wear. All rollers may be lubricated.

## Coil Ram

The integral ram is 15-in. round x 65-in. long (381 mm x 1,651 mm) with a 30-in. (762 mm) to top of ram from the ground.

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.