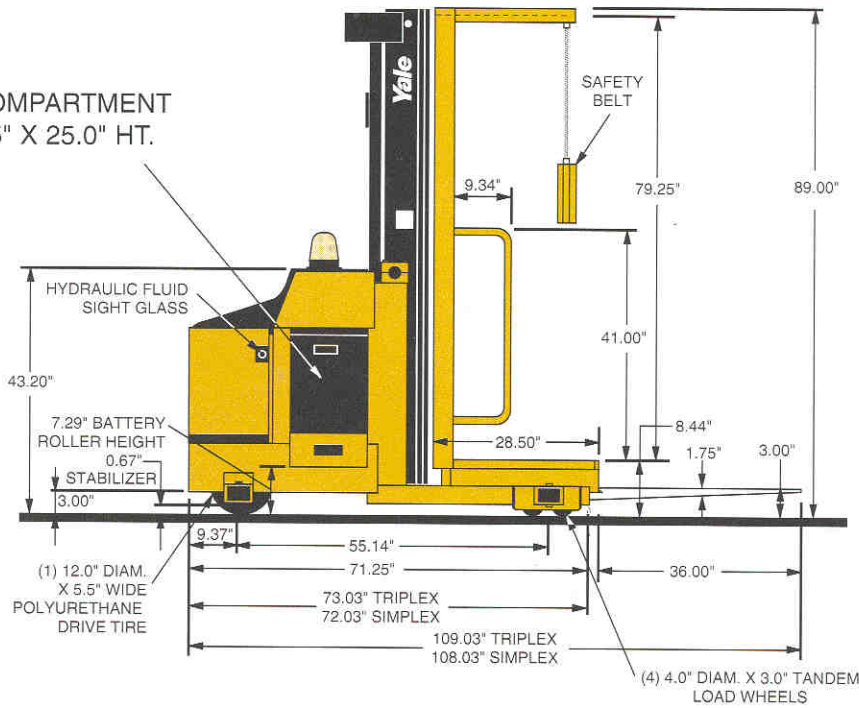


Weights*	
Simplex	- 3866 Lb
Triplex	- 4165 lb

*Less Battery.

BATTERY COMPARTMENT
35.5" X 13.5" X 25.0" HT.



Lower Speed		
	Empty	Loaded
Simplex	42 ft./min.	42 ft./min.
Triplex	52 ft./min.	48 ft./min.

Lift Speed — 24 Volts		
	Empty	Loaded
Simplex	40 ft./min.	25 ft./min.
Triplex	42 ft./min.	26 ft./min.

Travel Speed — 24 Volts	
Empty	Loaded
	6.0 MPH
	5.5 MPH

Note: All speeds subject to tolerance of ±10%. Unloaded travel speeds are reduced by 1 MPH for every 22.5" in increased fork height between the heights of 60" and 150". Loaded travel speeds decrease at a rate of approximately 1 MPH per 25.7" of fork height between 60" and 150". The loaded travel speed at fork heights from 0" to 60" is 5.5 MPH ± 10%. Total travel cutout occurs at 150" fork height. Travel with fork height higher than 150" available with capacity reduction.

Lift Specifications — Simplex		
Overall Height	Maximum Fork Height	Overhead Guard Height
89"	135"	221"
95"	147"	233"
105"	165"	251"

Lift Specifications — Triplex		
Overall Height	Maximum Fork Height	Overhead Guard Height
89"	195"	281"
95"	213"	299"
101"	228"	313.8"
105"	240"	326"

Recommended Yale Batteries				
Model	A•h	Kwh	Size	Weight
12-85C-15	595	13.9	35.06"x12.88"x22.50"	1075
12-95C-13	570	13.4	30.69"x12.81"x23.25"	1009

Anderson SB-175 gray connector in position "B" on 16" long leads is standard

Yale OS-EC industrial fork lift trucks excel in situations that require operator order selecting, picking and handling of various items in multi-level, narrow aisle applications. The trucks feature 24 volt power, state-of-the-art technology with infinitely variable travel speeds, excellent visibility, ergonomic controls and operator comfort. These features combine for high truck performance and greater operator productivity.

CANbus Communications

Controller Area Network (CANbus) streamlines communications between the truck's systems through one main controller located on the operator's platform. The OS-EC has replaced most switches with light-based communication devices such as encoders that make no direct contact with other moving parts. As a result, the OS-EC has fewer parts to service and replace. The CANbus control system also simplifies diagnostics. Error codes are identified on the dash display and then stored for recall by the service technician. The Curtis handset can still be used for diagnostics of the traction control system.

Drive unit

Drive unit is totally enclosed, with double reduction, direct gear drive. Gears operate adjustment-free in a common oil bath. During steering, motor remains stationary as drive wheel turns. All rotating parts are mounted on precision ball bearings for longer life and quiet performance. Integral turntable bearing is designed to resist shock.

Drive control

The OS-EC utilizes Separately Excited Motor (SEM) control technology featuring built-in regenerative braking and electronic field control (field weakening) resulting in fewer components, improved acceleration and longer shift life. The forward and reverse contactors have been eliminated. This standard solid state transistorized control conserves battery power and provides smooth step-less acceleration. The OS-EC offers Smart-Glide™ speed control as standard equipment. Smart-Glide™, a continuous height sensing system, provides step-less speed control by optimizing the maximum travel speed at various fork heights. The resulting benefits are faster travel speeds, improved acceleration, and increased productivity. Travel power is interrupted completely above 150" fork height.

Hoist motor

Series wound, high starting torque-type, equipped with precision ball bearings. Motor is ventilated-type. Motor and gear pump directly coupled as an integral unit.

Direction, speed and lift controls

Yale's multifunction control handle is adjustable to three positions and designed to control the lift/lower function as well as the forward/reverse drive functions and horn actuation. Lifting and lowering are controlled by a thumb actuated knob, increasing productivity. The travel function is actuated by moving the

handle in the direction of the desired movement. The operator controls are standard with six inches of vertical adjustability, reducing operator fatigue.

Steering

Electronic on-demand power steering is standard. Multi-turn steering wheel, with spinner knob, is positioned for left-hand operation. A direction indicator, located on the dash, indicates the steering tire angle. Optional Smart-Steer™ provides automatic return-to-center when released and is recommended for rail guided operation.

Brakes

Electric disc brake facilitates brake service and relining. Spring applied and electrically released, it's mounted on the drive motor shaft for maximum accessibility. Brakes are controlled by the footswitch on operator's platform. Release of switch plugs the truck to a stop and then applies the brake.

Hydraulic components

Pump – High efficiency gear-type, needle bearing equipped for long, trouble-free service.

Dual hoist cylinders – Designed to provide smooth, stepless lifting action. Built-in flow control valve regulates maximum rate of lowering under any system condition.

Unique lift cylinder design reduces lowering speed as the operator platform comes within two feet of ground level. Hydraulic accumulator provides cushioned lowering at all fork heights.

Oil reservoir – Capacity, 3.9 gallons. Tank helps dissipate heat for increased system efficiency. Reservoir contains an in-tank, 25 Micron filter and has an exterior sight glass for visual Hydraulic fluid level check.

Mast

Hi-Vis Triplex mast, trunnion-mounted, fabricated of large section interlocking, hot rolled steel I-beam sections for greater strength. Mast sections have precision roller bearings top and bottom, with adjustable wear buttons. Mast rails are widely spaced and the zero free lift mast provides maximum unobstructed visibility. Forks are heat-treated, forged steel.

Frame

Heavy gauge plate and bar stock electrically welded for maximum strength and rigidity. Battery compartment is an integral part of frame with removable battery restraints. Large diameter rollers allow for fast, easy battery check or removal. Rollers can be individually removed and replaced. Bearings are teflon-sealed for longer life.

Operator's platform

Integral roller carriage, operator's platform and overhead guard are welded into one rugged structure. All controls are conveniently located for maximum operator comfort and efficiency. The platform is covered with a 1" thick padded rubber mat to fight operator fatigue throughout long stand-up shifts.

Stationary side rails, vertically adjustable console, tether safety belt, two pockets for records or pick tickets, and a removable trash receptacle are standard.

Standard features

- Amber strobe light
- Dash display with combined discharge indicator, hour meter and text messages
- Electronic horn
- Slack chain indicator
- Smart-Glide™ (continuous height sensing)
- Safety glass windshield
- Multi-turn steering w/steer direction indicator
- Multi-function control handle w/single speed lift/lower
- Lubrication – fill and drain plugs are provided. Drive unit mounting race, axle shafts and all lubrication points are equipped with high pressure grease fittings
- Vertically adjustable operator controls
- On board truck control system diagnostic
- Stationary side rails
- Automatic pallet clamp
- Battery compartment rollers
- Emergency power disconnect switch
- Emergency lowering valve
- Paint – gold and black
- Battery compartment (36"x13.5"x25")

Options

- Side guide rollers
- Electronic wire guidance
- Wire mesh window screen
- 48" OAW outriggers
- Light packages – includes dome lights, 2 speed fans and two spotlights
- Various fork lengths
- Retractable operator tether with full body harness
- Freezer conditioning to -15° F
- Smart-Steer™
- 2 speed fan for full body ventilation
- Swing-up side rails
- Various simplex & triplex masts
- Lift and lower limits
- Travel above 150" with 10° restricted steer

Truck performance may be affected by the condition of the vehicle, how it is equipped and the application. Consult your Yale Industrial truck dealer if any of the information shown is critical to your application. Specifications are subject to change without notice.

This truck meets all applicable mandatory requirements to ANSI B56.1 Safety Standard for Powered Industrial Trucks and Underwriters' Laboratories, Inc. requirements for Type "E" classification as to fire and electric shock hazard at the time of manufacture.