



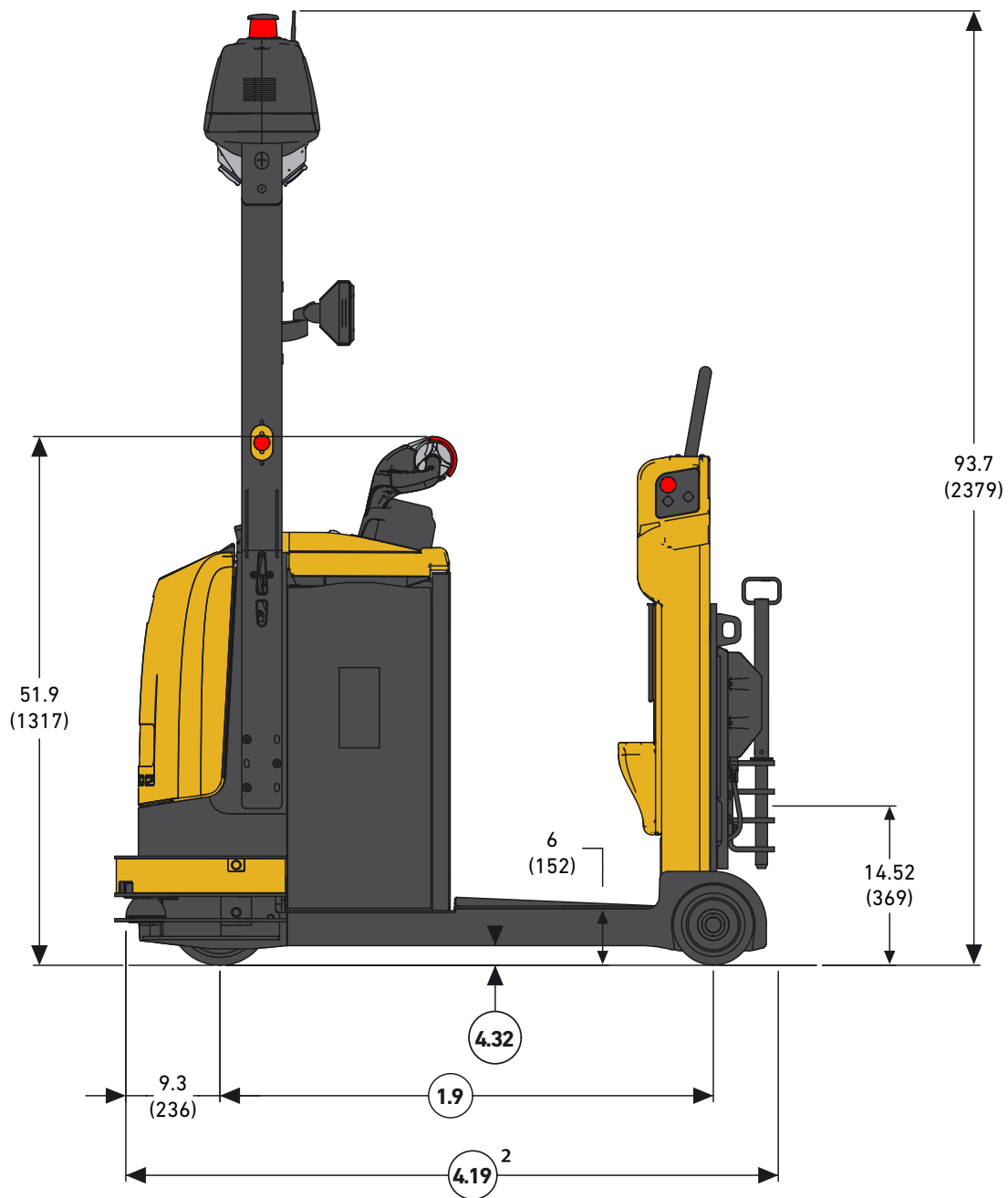
# MO 150TR

SPEC SHEET

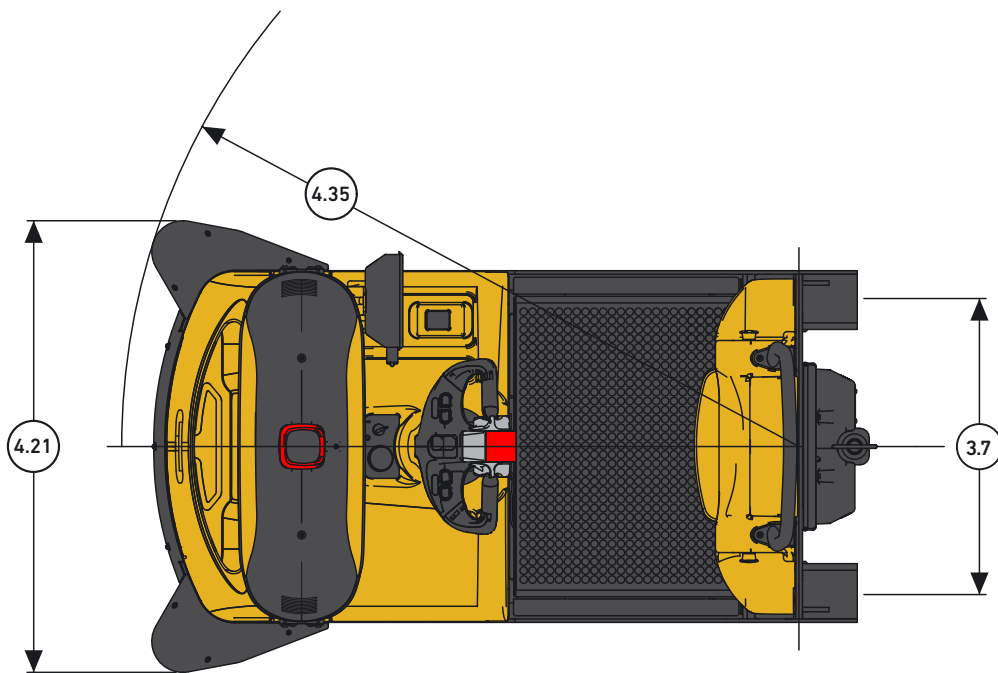
Automated  
tow tractor

---

15,000 lbs.



Circled truck dimensions correspond to the line numbers in the General Specifications chart. Dimensions are listed in inches (millimeters).



Circled truck dimensions correspond to the line numbers in the General Specifications chart. Dimensions are listed in inches (millimeters).

## GENERAL SPECIFICATIONS

|            |      |                                      |           |              |
|------------|------|--------------------------------------|-----------|--------------|
| GENERAL    | 1.1  | Manufacturer                         |           | Yale         |
|            | 1.2  | Model designation                    |           | M0150TR      |
|            | 1.3  | Power                                |           | Battery      |
|            | 1.4  | Operation                            |           | Tow Tractor  |
|            | 1.5  | Load capacity                        | lb (kg)   | 15000 (6800) |
| WT.        | 1.9  | Wheelbase                            | in (mm)   | 48.4 (1229)  |
|            | 2.1  | Service weight                       | lb (kg)   | 2895 (1313)  |
| DIMENSIONS | 3.7  | Track width, rear                    | in (mm)   | 27 (686)     |
|            | 4.12 | Coupling height <sup>1</sup>         | in (mm)   | 15 (370)     |
|            | 4.19 | Overall length <sup>2</sup>          | in (mm)   | 64 (1617)    |
|            | 4.21 | Overall width                        | in (mm)   | 42.7 (1085)  |
| PERF.      | 4.35 | Turning radius <sup>3</sup>          | in (mm)   | 60 (1524)    |
|            | 5.5  | Max. travel speed                    | mph (m/s) | 4.5 (2)      |
|            | 5.8  | Max. gradeability, with/without load | %         | 3.0 / 20.0   |

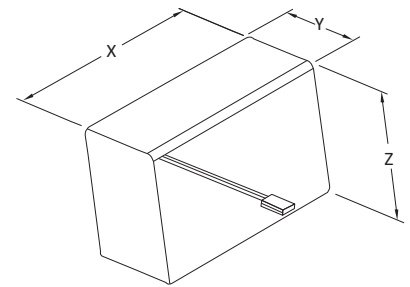
<sup>1</sup> Coupling height depends on style hitch used and is adjustable

<sup>2</sup> Overall length varies based on hitch style

<sup>3</sup> The turning radius of the automated tugger changes when a cart is attached. The exact turning radius depends on the width and type of the cart being used. Refer to the M0150T (base truck) specification sheet for additional details

## BATTERY AND COMPARTMENT SPECIFICATIONS - M0150T

| Battery type | Compartment dimensions |                 |                 | Battery dimensions |                   |                   | Auto charge | Capacity<br>6 hour rate |
|--------------|------------------------|-----------------|-----------------|--------------------|-------------------|-------------------|-------------|-------------------------|
|              | Width                  | Length          | Height          | "X"                | "Y"               | "Z"               |             | amp hr (kwh)            |
|              | in. (mm)               |                 |                 |                    |                   |                   |             |                         |
| Lithium-ion  | 31.2<br>(792.0)        | 14.1<br>(357.0) | 32.0<br>(814.0) | 30.75<br>(781.1)   | 12.88<br>(327.2)  | 24.01<br>(609.9)  | yes         | 525 (13.44)             |
| Lead acid    | 31.2<br>(792.0)        | 14.1<br>(357.0) | 32.0<br>(814.0) | 30.56<br>(776.22)  | 12.75<br>(323.85) | 26.25<br>(666.75) | no          | 600 (14.4)              |



### Certification:

Yale Relay™ automated lift trucks meet the design and construction requirements of B56.1-1969, per OSHA Section 1910.178(a)(2), and also comply with the B56.1 revision in effect at time of manufacture. Classified by Underwriters' Laboratories, Inc.

Yale Relay™ automated lift trucks meet the design and construction requirements of B56.5-2012, and also comply with the B56.5 revisions in effect at the time of manufacture.

Yale Relay™ automated lift trucks meet the design and construction requirements of ISO 3691-4:2020 (including ISO 3691-1:2015+A1:2020).

## FEATURES LIST

| PERFORMANCE  | STD | OPT |
|--|-----|-----|
| Coasting function forward/reverse  | ●   |     |
| Auto speed reduction on cornering  | ●   |     |
| DRIVE  | STD | OPT |
| Drive wheel - 10" x 3.5" NDIIthane <sup>1</sup>  | ●   |     |
| 8" x 4" NDIIthane load wheels <sup>1</sup>   | ●   |     |
| HANDLING   | STD | OPT |
| Multipurpose plate for coupling unit   | ●   |     |
| Auto hitch/unhitch   |     | ●   |
| Hook on multipurpose plate for coupling unit   |     | ●   |
| Removable hook on multipurpose plate for coupling unit                                   |     | ●   |
| ERGONOMICS   | STD | OPT |
| Handle above operator backrest   | ●   |     |
| Scooter control  | ●   |     |
| OPERATION  | STD | OPT |
| 31.18 x 14.05 x 32.04" (792 x 357 x 814 mm) battery compartment (for 620 Ah DIN battery) | ●   |     |
| Key switch start   | ●   |     |
| Multifunctional display  | ●   |     |
| Operator platform fixed  | ●   |     |
| Auto charge  |     | ●   |
| Side battery extraction - both sides   |     | ●   |
| Side battery extraction - left side  |     | ●   |
| Side battery extraction - right side   |     | ●   |
| Regenerative braking   | ●   |     |
| AC traction motor  | ●   |     |
| Brushless DC steer motor   | ●   |     |
| Dual-technology MOSFET combi controller  | ●   |     |
| Impact-resistant motor compartment cover   | ●   |     |
| Sealed combi controller (IP65 rating)  | ●   |     |
| Hall-effect sensors and switches (no wear, no adjustment)                                | ●   |     |
| CANbus communication system  | ●   |     |
| 1000 hours service intervals   | ●   |     |
| Electromagnetic braking  | ●   |     |
| Integrated system controls   | ●   |     |
| Stationary mounted traction motor  | ●   |     |
| Automotive-style sealed electrical connectors  | ●   |     |

| SUPPLEMENTAL   | STD | OPT |
|--|-----|-----|
| 18 months/unlimited hours full truck warranty, 42 months/6,000 hours robotics system warranty; see full Warranty Statement for additional details.   | ●   |     |
| English literature pack and labels   | ●   |     |
| Extended Protection Plan: 60 months/10,000 hours standard powertrain part B component coverage pays parts and labor only. Waives the deductible. Standard warranty exclusions and limitations remain unchanged.    |     | ●   |
| Extended Protection Plan: 36 months/6000 hours standard comprehensive part A component coverage pays parts and labor only. Waives the deductible. Standard warranty exclusions and limitations remain unchanged.   |     | ●   |
| Extended Protection Plan 3 years/6000 hours comprehensive Part A plus 5 years/10000 hours powertrain Part B. Pays parts & labor. No deductible. Standard warranty exclusions and limitations remain unchanged.     |     | ●   |
| Extended Protection Plan: 60 Months/10,000 Hours standard comprehensive part A component coverage pays parts and labor only. Waives the deductible. Standard warranty exclusions and limitations remain unchanged. |     | ●   |
| CONSTRUCTION   | STD | OPT |
| Standard construction  | ●   |     |
| VISIBILITY   | STD | OPT |
| Blue LED spot light  | ●   |     |
| Red line pedestrian awareness light  |     | ●   |
| ENERGY SYSTEM  | STD | OPT |
| 24-volt electrical system  | ●   |     |
| Lead acid  | ●   |     |
| Power Key™   |     | ●   |

<sup>1</sup> Other tire materials are available depending on application needs

# About Yale



Yale Lift Truck Technologies leverages over a century of material handling experience and substantial investment in innovation to bring the most advanced technology-driven lift truck solutions to market. The company offers a full line of award-winning lift trucks, including reach trucks, order pickers, turret trucks, pallet jacks and trucks, pallet stackers, tow tractors and counterbalanced forklifts, as well as powerful operator assist solutions, proven robotics and a wide range of power sources to help customers adapt to today's demanding supply chain. Yale and its independent dealer network support these solutions with comprehensive after-sales service, parts, financing and training.

## MATERIALS HANDLING FOR:

Third-party logistics (3PL)

Auto parts distribution

Beverage

Cold & frozen foods

Food distribution

Food processing

Furniture & furnishings

Government

Health & pharma

Home centers & durables

Retail & e-commerce

Yale Lift Truck Technologies  
P.O. Box 7367  
Greenville, NC 27835-7367  
U.S.A.


**yale.com**

For questions about Yale® automated lift trucks,  
contact [automation@yale.com](mailto:automation@yale.com) or call (844) 984-1758

**[www.yale.com/automation](http://www.yale.com/automation)**



EXPLORE MORE  
ONLINE.  
←

© 2025 Hyster-Yale Materials Handling, Inc. all rights reserved. YALE and  are trademarks of Hyster-Yale Materials Handling, Inc.

Trucks may be shown with optional equipment and/or features not available in all regions. Truck performance may be affected by the condition of the vehicle, how it is equipped and the application. Specifications are subject to change without notice. Consult your Yale® Dealer if any of the information shown is critical to your application.