

# ERP series

4,000 lbs



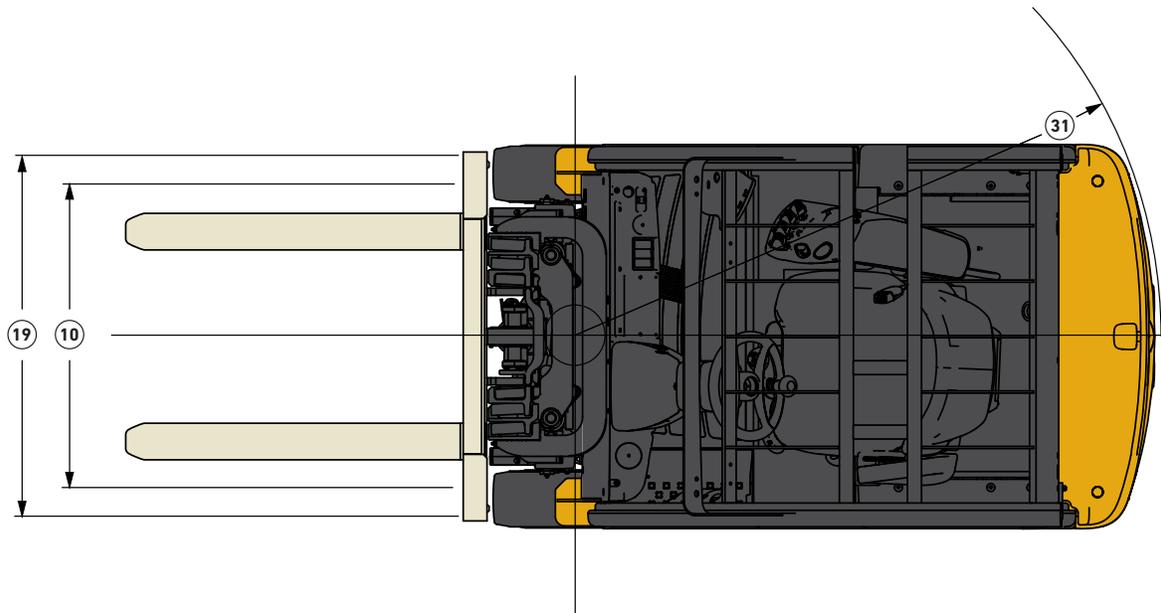
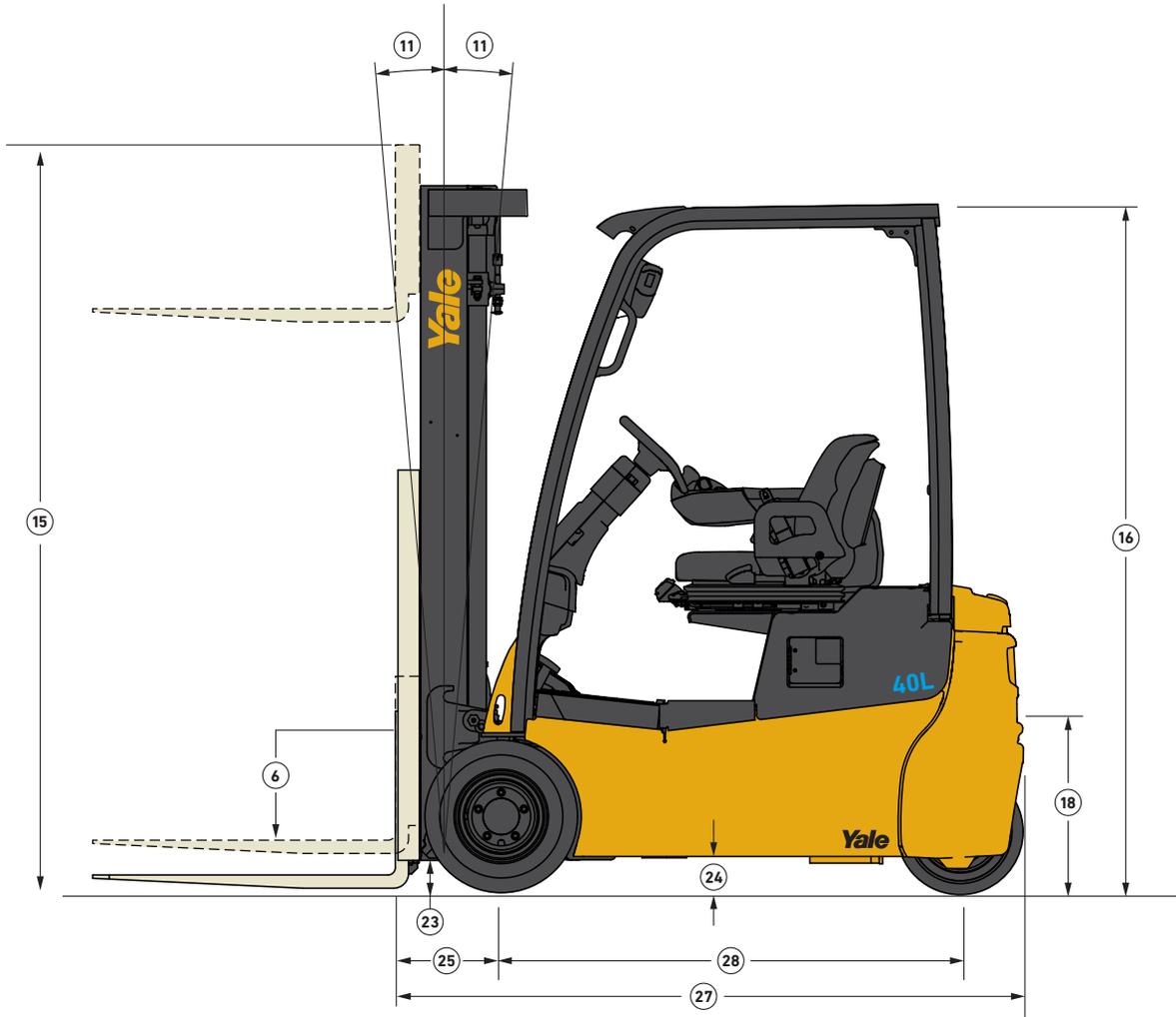
## 3-Wheel Electric Forklift



## SPEC SHEET

Model: ERP040VTL

# TRUCK DIMENSIONS - ERP040VTL



## GENERAL SPECIFICATIONS - ERP040VTL

|             |                        |   |  |   |   |                                      |
|-------------|------------------------|---|--|---|---|--------------------------------------|
| GENERAL     | 1                      | Manufacturer                            |  | Yale  |   |                                      |
|             | 2                      | Model Designation                       |  | ERP040VTL                                       |   |                                      |
|             | 3                      | Power                                   |  | Electric  |   |                                      |
|             | 4                      | Operation                               |  | Sit   |   |                                      |
|             | 5                      | Rated Capacity                          | lb. (kg)                                       | 4000 (1814)                                     |   |                                      |
|             | 6                      | Load Center                             | in. (mm)                                       | 24 (610)  |   |                                      |
| TIRES       | 7                      | Tire Type (Drive/Steer)                 |  | Pneumatic Shaped Solid / Pneumatic Shaped Solid |   |                                      |
|             | 8                      | Tire Size (Drive/Steer)                 |  | 200/50-10 / 15x4.5-8                            |   |                                      |
|             | 9                      | Wheels - Number X= Driven (Drive/Steer) |  | 2x / 2  |   |                                      |
|             | 10                     | Tread - Center of Tires (Drive/Steer)   |  | 35.7 / 7 (908 / 179)                            |   |                                      |
| DIMENSIONS  | 11                     | Mast Tilt                               | Std Opt Opt                                    | degrees   | 5F/5B 10F/5B 5F/4B                      |                                      |
|             | 12                     | Mast - Lowered Height                   | Std Mast                                       | in. (mm)  | 78 (1980)                               |                                      |
|             | 13                     | Free Lift - Top of Fork                 | Std 2 Stg Limited Free Lift Mast               | in. (mm)  | 5 (140)                                 |                                      |
|             |                        |   | Opt 2 Stg Full Free Lift Mast with/without LBR | in. (mm)  | 29 / 55 (750 / 1405)                    |                                      |
|             | 14                     | Lift Height - Top of Fork               | St 2 Stg Limited Free Lift Mast                | in. (mm)  | 119 (3032)                              |                                      |
|             | 15                     | Mast - Extended Height                  | Std Mast with/without LBR                      | in. (mm)  | 168 / 142 (4262 / 3606)                 |                                      |
|             | 16                     | Overhead Guard Height                   | Std/Flat Plate/Drive in Rack                   | in. (mm)  | 81.5 / 77.9 / 81.5 (2070 / 1979 / 2070) |                                      |
|             | 17                     | SIP to Bottom Std OHG                   | Nominal  | Std/Susp/Swivel                                 | in. (mm)                                | 38.9 / 39.2 / 38.7 (989 / 997 / 985) |
|             |                        |   |  |   |   |                                      |
|             | 18                     | Tow Pin Height                          | Vertical Center of Pin                         | in. (mm)  | 21.2 (540)                              |                                      |
|             | 19                     | Overall Width                           |  | in. (mm)  | 43.9 (1116)                             |                                      |
|             | 20                     | Forks                                   | Thickness x Width x Length                     | in. (mm)  | 1.6 x 3.9 x 42 (40 x 100 x 1067)        |                                      |
|             | 21                     | Standard Carriage Width                 |  | in. (mm)  | 38.5 (977)                              |                                      |
|             | 22                     | Ground Clearance                        | Lowest Point (NL/RL)                           | in. (mm)  | 2.8 / 2.8 (70 / 70)                     |                                      |
|             | 23                     | Ground Clearance                        | Center of Truck (NL/RL)                        | in. (mm)  | 3.7 / 3.5 (95 / 90)                     |                                      |
|             | 24                     | Load Distance                           | Center of Wheel to Face of Forks               | in. (mm)  | 12.6 (321)                              |                                      |
|             | 25                     | Length to Face of Forks                 | Chassis Length                                 | in. (mm)  | 74.9 (1903)                             |                                      |
|             | 26                     | Wheelbase                               |  | in. (mm)  | 54.6 (1386)                             |                                      |
|             | 27                     | Right Angle Stack                       |  | in. (mm)  | 122.7 (3117)                            |                                      |
| 28          | Equal Aisle            | 90 Intersecting Aisle                   | in. (mm)                                       | 71.5 (1816)                                     |   |                                      |
| 29          | Outside Turning Radius |   | in. (mm)                                       | 62.1 (1577)                                     |   |                                      |
| WT.         | 30                     | Truck Weight                            |  | lb. (kg)  | 7550 (3435)                             |                                      |
|             | 31                     | Axle Loading - Drive                    | Static (NL/RL)                                 | lb. (kg)  | 3675 (1665) / 10375 (4705)              |                                      |
|             | 32                     | Axle Loading - Steer                    | Static (NL/RL)                                 | lb. (kg)  | 3900 (1765) / 1200 (545)                |                                      |
| PERFORMANCE | 33                     | Travel Speed                            | Extended Shift Off (NL/RL)                     | mph (km/h)                                      | 9.8 / 9.8 (15.7 / 15.7)                 |                                      |
|             |                        |   | Extended Shift On (NL/RL)                      | mph (km/h)                                      | 8.7 / 8.7 (14.0 / 14.0)                 |                                      |
|             | 34                     | Lift Speed                              | Std 2 Stg LFL Mast (NL/RL)                     | ft/min (m/sec)                                  | 134 / 83 (0.68 / 0.42)                  |                                      |
|             |                        |   | Opt 2 Stg FFL Mast (NL/RL)                     | ft/min (m/sec)                                  | 120 / 81 (0.61 / 0.41)                  |                                      |
|             |                        |   | Opt 3 Stg FFL Mast (NL/RL)                     | ft/min (m/sec)                                  | 120 / 81 (0.61 / 0.41)                  |                                      |
|             |                        |   | Opt 4 Stg FFL Mast (NL/RL)                     | ft/min (m/sec)                                  | 126 / 89 (0.64 / 0.45)                  |                                      |
|             | 35                     | Lower Speed                             | Std 2 Stg LFL Mast (NL/RL)                     | ft/min (m/sec)                                  | 93 / 100 (0.47 / 0.51)                  |                                      |
|             |                        |   | Opt 2 Stg FFL Mast (NL/RL)                     | ft/min (m/sec)                                  | 77 / 93 (0.41 / 0.47)                   |                                      |
|             |                        |   | Opt 3 Stg FFL Mast (NL/RL)                     | ft/min (m/sec)                                  | 81 / 93 (0.41 / 0.47)                   |                                      |
|             |                        |   | Opt 4 Stg FFL Mast (NL/RL)                     | ft/min (m/sec)                                  | 94 / 98 (0.48 / 0.50)                   |                                      |
|             | 36                     | Gradability                             | 5 Minutes Rating (NL/RL)                       | %   | 34.0 / 21.0                             |                                      |
|             |                        |   | 60 Minue Rating (NL/RL)                        | %   | 9.2 / 5.6                               |                                      |
| 37          | Drawbar Pull           | 5 Minutes Rating                        | lbf.   | 2480 / 2410 (11025 / 10715)                     |   |                                      |
|             |                        | 60 Minue Rating (NL/RL)                 | lbf.   | 730 / 660 (3260 / 2950)                         |   |                                      |
| 38          | Brake                  | Method of Control (Service/Parking)     |  | Hydraulic / Mechanical                          |   |                                      |
|             |                        | Method of Operation (Service/Operation) |  | Foot / Automatic                                |   |                                      |
| ELECTRIC    | 39                     | Battery                                 | Type   | Lithium   |   |                                      |
|             | 40                     | Dual Voltage Battery                    | Size (Discharge / Charge)                      | 48V @ 420Ah / 96V @ 210Ah                       |   |                                      |
|             | 41                     | Traction Motors (Dual)                  | 60 Minute Rating (Each)                        | hp (kW)   | 6.7 (5.0)                               |                                      |
|             | 42                     | Pump Motor                              | 15 Minute Rating                               | hp (kW)   | 16.1 (12.0)                             |                                      |
|             | 43                     | Traction Motors                         | Type/Control Method                            | AC / Transistor                                 |   |                                      |
|             | 44                     | Pump Motor                              | Type/Control Method                            | AC / Transistor                                 |   |                                      |
| 45          | Number of Speeds       | Traction/Pump                           |  | Infinitely Variable / Infinitely Variable       |   |                                      |
| OTHER       | 46                     | Step Height                             | in. (mm)                                       | 19.1 (484)                                      |   |                                      |
|             | 47                     | Floor Height                            | Lowest Point                                   | in. (mm)  | 21.9 (557)                              |                                      |
|             | 48                     | Attachment Relief Pressure              |  | psi (bar)                                       | 2611 / 2248 (180 / 155)                 |                                      |
|             | 49                     | Auxiliary Oil Flow                      | 3rd and 4th Function                           | gal/min (l/min)                                 | 5.3 / 10.6 (20 / 40)                    |                                      |
|             | 50                     | Sound Level                             | Measured per ANSI B56.11.5                     | dB  | 69                                      |                                      |

## MAST DIMENSIONS - ERP040VTL

| Maximum Fork Height (TOF) +                 | Overall Lowered Ht. | Overall Extended Height |                   | Free-Lift (TOF) |                   |
|---|---------------------|-------------------------|-------------------|-----------------|-------------------|
|   |                     | w/Load Backrest         | w/o Load Backrest | w/Load Backrest | w/o Load Backrest |
| in. (mm)                                    | in. (mm)            | in. (mm)                | in. (mm)          | in. (mm)        | in. (mm)          |
| <b>2-STAGE LIMITED FREE-LIFT (LFL) MAST</b> |                     |                         |                   |                 |                   |
| 119 (3032)                                  | 78 (1980)           | 168 (4262)              | 142 (3606)        | 5 (140)         | 5 (140)           |
| 127 (3232)                                  | 82 (2080)           | 176 (4462)              | 150 (3806)        | 5 (140)         | 5 (140)           |
| <b>2-STAGE FULL FREE-LIFT (FFL) MAST</b>    |                     |                         |                   |                 |                   |
| 118 (3018)                                  | 78 (1980)           | 168 (4262)              | 143 (3613)        | 29 (750)        | 55 (1405)         |
| 126 (3218)                                  | 82 (2080)           | 176 (4462)              | 151 (3813)        | 33 (850)        | 59 (1505)         |
| <b>3-STAGE FULL FREE-LIFT (FFL) MAST</b>    |                     |                         |                   |                 |                   |
| 175 (4450)                                  | 78 (1980)           | 224 (5025)              | 198 (5025)        | 29 (750)        | 55 (1405)         |
| 187 (4750)                                  | 82 (2080)           | 236 (5325)              | 210 (5325)        | 33 (850)        | 59 (1505)         |
| 192 (4900)                                  | 84 (2130)           | 238 (5375)              | 212 (5375)        | 35 (900)        | 61 (1555)         |
| 198 (5050)                                  | 88 (2230)           | 248 (5625)              | 222 (5625)        | 39 (1000)       | 65 (1655)         |
| 216 (5500)                                  | 94 (2380)           | 265 (6075)              | 240 (6075)        | 45 (1150)       | 71 (1805)         |
| <b>4-STAGE FULL FREE-LIFT (FFL) MAST</b>    |                     |                         |                   |                 |                   |
| 241 (6121)                                  | 84 (2121)           | 291 (7380)              | 265 (6721)        | 34 (873)        | 59 (1511)         |
| 259 (6578)                                  | 90 (2273)           | 309 (7837)              | 283 (7179)        | 40 (1025)       | 65 (1663)         |

The below tables are a helpful guide to visualize the truck run time with different batteries in different applications. Charts are a guide only and not a replacement for a site survey and full power survey.

**Heavy** - high throughput, typically runs near full capacity, runs either attachments or has high lifts

**Medium** - high throughput, runs near capacity without attachments or high lifts

**Light** - lower throughput, runs less than rated capacity without attachments or high lifts

**Run time** is from 100% to Lift-Lock out.

**Charge time** is from Lift-Lock out to 100%.

### BATTERY RUN TIME - ERP040VTL

|             |        | Battery Size |
|-------------|--------|--------------|
|             |        | 20.1 kWh     |
| Application | Heavy  | 3h 45m       |
|             | Medium | 5h 15m       |
|             | Light  | 7h 15m       |

### BATTERY CHARGE TIME - ERP040VTL

|             |       | Battery Size |
|-------------|-------|--------------|
|             |       | 20.1 kWh     |
| Charge Size | 30 kW | 45m          |
|             | 20 kW | 1h 15m       |
|             | 15 kW | 1h 30m       |
|             | 10 kW | 2h 15m       |
|             | 5 kW  | 4h 15m       |

## FEATURES LIST - ERP040VTL

| PERFORMANCE  | STD        | OPT        | ERGONOMICS continued  | STD        | OPT        |
|--|------------|------------|---|------------|------------|
| 48-volt electrical system  | •          |            | Battery side covers   | •          |            |
| Dual Voltage Lithium Battery Technology  | •          |            | On-board software (Program, test & diagnose / password protected)                           | •          |            |
| AC tractions and pump motors (completely brushless)                            | •          |            | Electronic horn with integral relay (long life / no adjustments)                            | •          |            |
| Hydrostatic steer system   | •          |            | Non-suspension cloth seat   |            | •          |
| Transistor drive and pump control  | •          |            | Full-suspension seat (vinyl or cloth)   |            | •          |
| Advanced VSM (Vehicle System Manager)  | •          |            | Full-suspension swivel seat (vinyl or cloth)  |            | •          |
| Dual drive motors  | •          |            | Seatside directional control  |            | •          |
| Wet disc brakes  | •          |            | Telescopic steering column with tilt memory   |            | •          |
| Regenerative braking   | •          |            | LED and halogen work light packages   |            | •          |
| <b>DRIVE</b>   | <b>STD</b> | <b>OPT</b> | LED dome / reading light  |            | •          |
| Pneumatic-shaped solid drive tire and steer tire                               | •          |            | Rear dive handle with horn button   |            | •          |
| Rubber cushion smooth tread drive tire and steer tire                          |            | •          | Mirrors - dual rear view - LH & RH OHG side mounted   |            | •          |
| <b>LIFT</b>  | <b>STD</b> | <b>OPT</b> | Mirror - single panoramic - OHG mounted   |            | •          |
| 2-Stage limited free lift (LFL) mast with maximum fork height of 119"          | •          |            | low mount display   |            | •          |
| 5 forward / 5 back mast tilt   | •          |            | <b>OPERATION</b>  | <b>STD</b> | <b>OPT</b> |
| 2-Stage full free lift mast  |            | •          | Standard environmental construction   | •          |            |
| 3-Stage full free lift mast  |            | •          | Key switch start  | •          |            |
| 4-Stage full free lift mast  |            | •          | 81.5" grid style overhead guard   | •          |            |
| Mast tilt option - 10F / 5B  |            | •          | 3-function hydraulic valve  | •          |            |
| Mast tilt option - 5F / 4B   |            | •          | Full integrated CANbus communication  | •          |            |
| <b>HANDLING</b>  | <b>STD</b> | <b>OPT</b> | Cooler / Freezer package: operating temperature 0F to +120F                                 |            | •          |
| 38.5" wide Class II carriage with 48" high load backrest extension             | •          |            | SubZero freezer package: operating temperature -40F to +120F                                |            | •          |
| 42" (1067mm) long forks  | •          |            | 4-function hydraulic control valve  |            | •          |
| Carriage with integral sideshift   |            | •          | 77.9" flat plate overhead guard   |            | •          |
| Carriage with integral sideshifting forkpositioner                             |            | •          | 81.5" drive-in rack grid style overhead guard   |            | •          |
| Return to set tilt   |            | •          | Keyless start (with auxiliary key switch)   |            | •          |
| Hydraulic attachment extension tubes with or without quick disconnect fittings |            | •          | Basic and premium LED brake / tail / back-up light packages                                 |            | •          |
| Load weight indicator  |            | •          | Key switch controlled lights  |            | •          |
| <b>ERGONOMICS</b>  | <b>STD</b> | <b>OPT</b> | Audible alarm - reverse operation (manually adjustable to 87, 97 or 102 dB)                 |            | •          |
| MONOTROL foot direction control  | •          |            | Visible amber strobe light - continuous activated, overhead guard mounted                   |            | •          |
| TouchPoint hydraulic mini-levers   | •          |            | Fire extinguisher - 2.5lb dry chemical  |            | •          |
| 12" steering wheel with integral spinner knob and tilt column                  | •          |            | impact monitor  |            | •          |
| Vinyl non-suspension seat  | •          |            | operator password start interlock   |            | •          |
| Black, non-cinch seat belt with Emergency Locking Retractor (ELR)              | •          |            | operator daily checklist  |            | •          |
| Automatic park brake   | •          |            | system monitor - hydraulic low fluid level indicator and hydraulic filter service indicator |            | •          |
| Power assist braking   | •          |            | Programmable maintenance reminder   |            | •          |
| On-demand hydrostatic power-assist steering                                    | •          |            | Synchronous steering  |            | •          |
| Auto Deceleration System (ADS)   | •          |            | Red, high-visibility, non-cinch seat belt with or without start interlock                   |            | •          |
| Multifunction display (and all its sub features)                               | •          |            | Yale Reliant™   |            | •          |
| Easy ingress/egress with low step height and contoured handhold                | •          |            | <b>SUPPLEMENTAL</b>   | <b>STD</b> | <b>OPT</b> |
| Operator convenience station   | •          |            | 84 month / 12,000 hour lithium-ion battery warranty   | •          |            |
| Adjustable tilt steering column with low profile cowl                          | •          |            | Operating manual  | •          |            |
| Operator Presence System (OPS)   | •          |            | 12 month / 2,000 hour full truck warranty   | •          |            |
| Cushioned floormat   | •          |            | 36 month / 6,000 hour powertrain warranty   | •          |            |
| Static strap   | •          |            |   |            |            |
| Tow pin  | •          |            |   |            |            |
| Seatside power disconnect button   | •          |            |   |            |            |

# About Yale®



Yale Materials Handling Corporation is one of the oldest manufacturers of lift trucks in the world. We've been in the business of lifting since 1875 and we apply that experience to help customers solve materials handling challenges. Our full line of lift trucks range in capacity from 2,000 to 36,000 pounds and are powered by internal combustion engines or electric options. Yale also offers robotic solutions, telemetry, fleet management, parts, financing and training. From traditional lift truck equipment to emerging technologies, our goal, every day, is to work with our nationwide dealer network to continually improve and provide the solutions you need, when and how you need them.

## MATERIALS HANDLING FOR:



3PL



Auto Parts  
Distribution



Beverage



Cold & Frozen  
Foods



Food  
Distribution



Food  
Processing



Furniture &  
Furnishings



Government



Health &  
Pharma



Home  
Centers



Retail &  
E-Commerce

## Yale Materials Handling Corporation

P.O. Box 7367  
Greenville, NC 27835-7367  
U.S.A.

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

Yale, and PEOPLE. PRODUCTS. PRODUCTIVITY are trademarks of Hyster-Yale Group, Inc.  is a registered copyright of Hyster-Yale Group, Inc. © Yale Materials Handling Corporation 2021. All rights reserved.

Trucks may be shown with optional equipment. 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.

CERTIFICATION: Yale 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.

