

# VL series

4,500-7,000 lbs



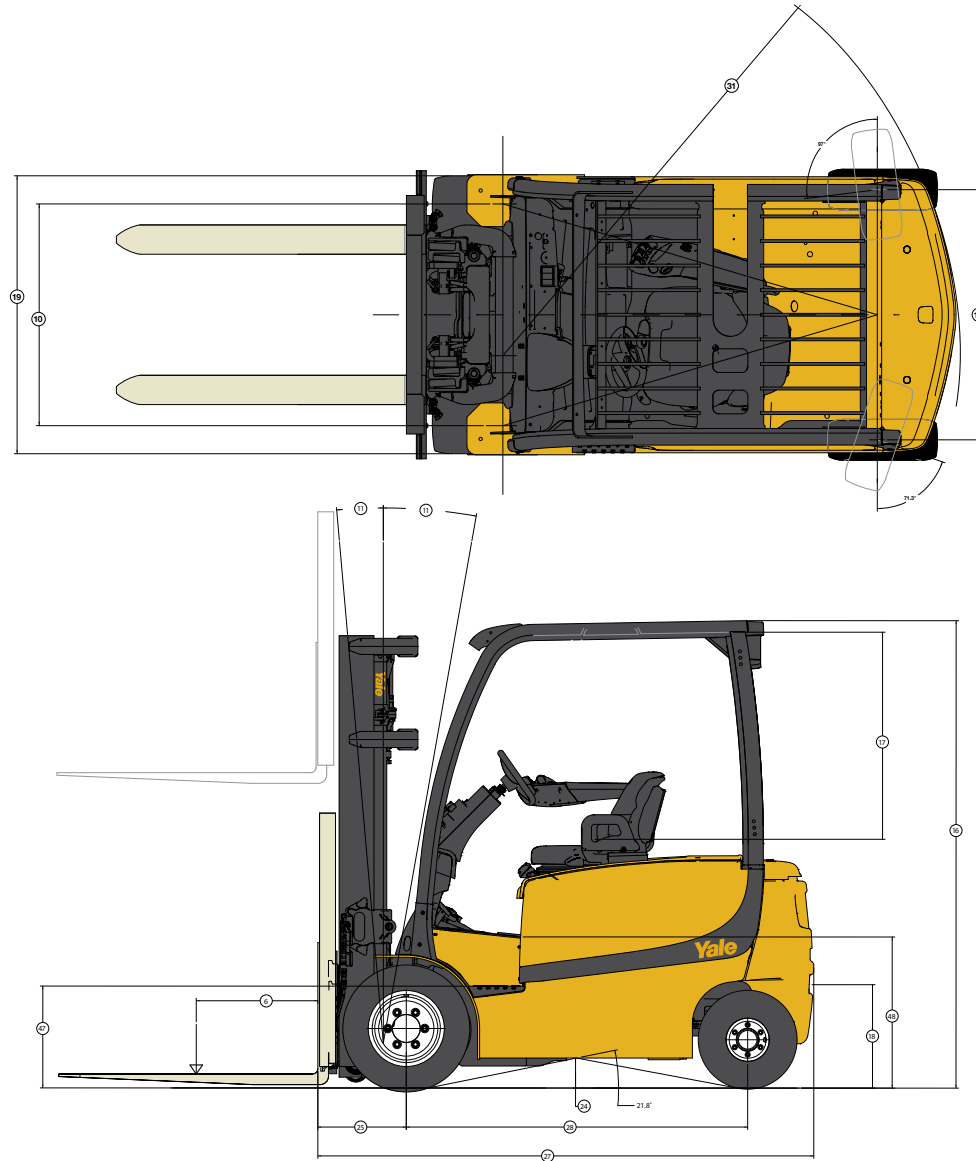
Electric Powered Pneumatic Tire Truck



## SPEC SHEET

Models: ERP045VL, ERP050VL, ERP060VL, ERP070VL

## TRUCK DIMENSIONS



## BATTERY AND COMPARTMENT SPECIFICATIONS

| Model                       |                               | Compartment Size |              |              | Battery Specifications |                 |                    |                    |                  |                  |                  |                 |                 |
|-----------------------------|-------------------------------|------------------|--------------|--------------|------------------------|-----------------|--------------------|--------------------|------------------|------------------|------------------|-----------------|-----------------|
|                             |                               |                  |              |              | Electrical             |                 |                    |                    | Size             |                  |                  | Weight          |                 |
|                             |                               | W<br>in (mm)     | L<br>in (mm) | H<br>in (mm) | Volts                  | No. of<br>Cells | Plates<br>per Cell | Max<br>Am Hr (kWh) | W Max<br>in (mm) | L Max<br>in (mm) | H Max<br>in (mm) | Min<br>lbs (kg) | Max<br>lbs (kg) |
| J45-50XN 28"<br>Compartment | Vertical Extract              | 40.7 (1034)      | 28.2 (717)   | 31.2 (792)   | 80                     | 40              | 9                  | 1000<br>(77.6)     | 40.5 (1028)      | 28.0 (711)       | 30.9 (784)       | 3700<br>(1886)  | 4100<br>(1878)  |
|                             | Horizontal Removal - Roller   | 40.7 (1034)      | 28.2 (717)   | 31.1 (789)   |                        |                 |                    |                    | 40.5 (1028)      | 28.0 (711)       | 30.8 (782)       |                 |                 |
|                             | Horizontal Removal - Forklift | 40.4 (1028)      | 28.0 (712)   | 31.3 (796)   |                        |                 |                    |                    | 40.4 (1026)      | 27.8 (706)       | 31.0 (788)       |                 |                 |
| 50-70XN 34"<br>Compartment  | Vertical Extract              | 40.7 (1034)      | 33.9 (861)   | 31.2 (792)   | 80                     | 40              | 11                 | 1000<br>(77.6)     | 40.5 (1028)      | 33.7 (855)       | 30.9 (784)       | 4500<br>(2021)  | 4900<br>(2233)  |
|                             | Horizontal Removal - Roller   | 40.7 (1034)      | 33.9 (861)   | 31.1 (789)   |                        |                 |                    |                    | 40.5 (1028)      | 33.7 (855)       | 30.8 (782)       |                 |                 |
|                             | Horizontal Removal - Forklift | 40.4 (1028)      | 33.7 (856)   | 31.3 (796)   |                        |                 |                    |                    | 40.4 (1026)      | 33.5 (850)       | 31.0 (788)       |                 |                 |

Battery Type: "EO" (Without Cover)  
 Battery amp hr (kwh) capacity is max allowable per UL  
 Commercially available Lead Acid or Lithium-Ion batteries may not necessarily reach these max limits  
 Battery Compartment Length is measured front to rear. Battery  
 Compartment Width is measured across the truck

Battery Notes - Conventional Charging (Option BCSSBC)  
 Battery Connector: 80 volt - Black (Anderson Power Products®  
 SBE®320 P/N 6363G1 or REMA® SRE 320 P/N 78350-05)  
 Battery Lead: Length 30" (762 mm), Position "A", 2/0 AWG

Battery Notes - Rapid / Fast Charging (Option BARFBC)  
 Battery Connector: Requires Positive / Negative Cabling  
 terminating in (1) Female EBC-320 DIN Connector  
 (Anderson Power Products® P/N E32503-00X9 or REMA® 95625-X1)  
 DIN connector to include 1 Red Conductor to (+) and 1 black conductor to (-)  
 Battery Lead: Length 36" (915 mm), Position "A", Minimum Cable Size 3/0 AWG

Battery Notes - Premium, Fully Integrated "Quick Connect" Rapid / Fast Charging  
 Battery Connector: Requires Positive / Negative Cabling  
 terminating in (1) Female EBC-320 DIN Connector  
 (Anderson Power Products® P/N E32503-00X9 or REMA® 95625-X1)  
 DIN connector to include 1 Red Conductor to (+) and 1 black conductor to (-)  
 Battery Lead: Length 36" (915 mm), Position "A", Minimum Cable Size 3/0 AWG

## GENERAL SPECIFICATIONS ERP045VL

|            |              |  |  |                                      |   |  |  |
|------------|--------------|--|--|--------------------------------------|---|--|--|
| GENERAL    | 1            | Manufacturer   |  |                                      | Yale®                                   |  |  |
|            | 2            | Model Designation                                      |  |                                      | ERP045VL                                |  |  |
|            | 3            | Power/Voltage  |  |                                      | Electric/80 Volts                       |  |  |
|            | 4            | Operation  |  |                                      | Sit                                     |  |  |
|            | 5            | Rated Capacity   |  | lb. (kg)                             | 4500 (2041)                             |  |  |
|            | 6            | Load Center  |  | in. (mm)                             | 24 (610)                                |  |  |
| TIRES      | 7            | Tire Type (Std/Opt)                                    |  |                                      | Pneumatic/Pneumatic Shaped Solid        |  |  |
|            | 8            | Tire Size (Drive/Steer)                                |  | in.                                  | 23 x 10 - 12/18 x 7 - 8                 |  |  |
|            | 9            | Wheels – Number X=Driven (Drive/Steer)                 |  | front/rear                           | 2X/2                                    |  |  |
|            | 10           | Tread  | Ctr. of Tires                                  | Std Dr/Wide Dr/Steer                 | in. (mm)                                | 36.9/41.5/39.1 (938/1054/992)                    |  |
| DIMENSIONS | 11           | Mast Tilt  | Std Opt Opt                                    |                                      | degrees                                 | 5F/5B 10F/5B 5F/6B                               |  |
|            | 12           | Mast - Lowered Height                                  | Std Mast                                       |                                      | in. (mm)                                | 87 (2192)  |  |
|            | 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)                                | 37/64 (962/1628)                                 |  |
|            | 14           | Lift Height - Top of Fork                              | Std 2 Stg Limited Free Lift Mast               |                                      | in. (mm)                                | 133 (3392)                                       |  |
|            | 15           | Mast - Extended Height                                 | Std Mast with/without LBR                      |                                      | in. (mm)                                | 182/156 (4622/3956)                              |  |
|            | 16           | Overhead Guard Height                                  | Without/With Battery Rollers                   |                                      | in. (mm)                                | 86.3/90.4 (2193/2297)                            |  |
|            | 17           | SIP to Bottom of OHG                                   | Seat Depressed                                 | Std/Susp/Swivel                      | in. (mm)                                | 38.8/39.4/38.9 (986/1001/989)                    |  |
|            | 18           | Tow Pin Height   | Vertical Center of Pin                         |                                      | in. (mm)                                | 10.3 (262)                                       |  |
|            | 19           | Overall Width  | Pneumatic Tires                                | Std/Wide Tread                       | in. (mm)                                | 46.9/51.5 (1192/1308)                            |  |
|            | PSS Tires    |  | Std/Wide Tread                                 | in. (mm)                             | 46.2/50.7 (1173/1289)                   |  |  |
|            | 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)                                | 42 (1067)  |  |
|            | 22           | Floor to Bottom of Battery (Vertical / Roller / Forks) |  |                                      | in. (mm)                                | 5.7 (145) / 10.2 (259) / 9.9 (252)               |  |
|            | 23           | Ground Clearance                                       | Lowest Point (NL/RL)                           |                                      | in. (mm)                                | 3.9/3.3 (98/83)                                  |  |
|            | 24           | Ground Clearance                                       | Center of Truck (NL/RL)                        |                                      | in. (mm)                                | 5.4/5.3 (137/135)                                |  |
|            | 25           | Load Distance  | Center of Wheel to Face of Forks               |                                      | in. (mm)                                | 16.5 (419)                                       |  |
|            |              |  |  | Nominal                              | SIZE                                    | 28"  |  |
|            | 27           | Length to Face of Forks                                | Chassis Length                                 |                                      | in. (mm)                                | 92.0 (2336)                                      |  |
|            | 28           | Wheelbase  |  |                                      | in. (mm)                                | 63.2 (1606)                                      |  |
|            | 29           | Right Angle Stack                                      |  |                                      | in. (mm)                                | 141.8 (3602)                                     |  |
|            | 30           | Equal Aisle  | 90° Intersecting Aisle                         |                                      | in. (mm)                                | 78.2 (1986)                                      |  |
|            | 31           | Outside Turning Radius                                 |  |                                      | in. (mm)                                | 76 (1931)  |  |
|            | WT.          | 32   | Truck Weight                                   | Without Battery (NL)                 |   | lb. (kg)   | 6360 (2885)                            |
|            |              | 33   | Axle Loading - Drive                           | Static with Max. Wt. Battery (NL/RL) |   | lb. (kg)   | 5266/12649 (2389/5737)                 |
|            |              | 34   | Axle Loading - Steer                           | Static with Max. Wt. Battery (NL/RL) |   | lb. (kg)   | 5236/2352 (2375/1067)                  |
|            | PERFORMANCE  |  |  |                                      |   | Standard Performance Premium Performance Package |  |
|            |              | 35   | Travel Speed                                   | (NL/RL)                              |   | mph (km/h)                                       | 11.2/11.2 (18/18) 13/13 (21/21)        |
|            |              | 36   | Lift Speed                                     | Std 2 Stg LFL Mast (NL/RL)           |   | ft/min (m/sec)                                   | 124/79 (0.63/0.40) 142/102 (0.72/0.52) |
|            |              |  |  | Opt 2 Stg FFL Mast (NL/RL)           |   | ft/min (m/sec)                                   | 124/81 (0.63/0.41) 130/98 (0.66/0.50)  |
|            |              |  |  | Opt 3 Stg FFL Mast (NL/RL)           |   | ft/min (m/sec)                                   | 124/79 (0.63/0.40) 134/100 (0.68/0.51) |
| 37         |              | Lower Speed  | Std 2 Stg LFL Mast (NL/RL)                     |                                      | ft/min (m/sec)                          | 100/112 (0.51/0.57)                              |  |
|            |              |  | Opt 2 Stg FFL Mast (NL/RL)                     |                                      | ft/min (m/sec)                          | 91/102 (0.46/0.52)                               |  |
|            |              |  | Opt 3 Stg FFL Mast (NL/RL)                     |                                      | ft/min (m/sec)                          | 93/106 (0.47/0.54)                               |  |
| 38         |              | Gradability  | 5 Minute Rating (NL/RL)                        |                                      | %                                       | 39/26 42/28                                      |  |
|            |              |  | 60 Minute Rating (NL/RL)                       |                                      | %                                       | 13/9 14/10                                       |  |
| 39         | Drawbar Pull | 5 Minute Rating (NL/RL)                                |  | lbf                                  | 4283/4057 4626/4462                     |  |  |
|            |              | 60 Minute Rating (NL/RL)                               |  | lbf                                  | 1298/1229 1402/1357                     |  |  |
| 40         | Brake        | Method of Control (Service/Parking)                    |  | Hydraulic/Mechanical                 |   |  |  |
|            |              | Method of Operation (Service/Parking)                  |  | Foot/Automatic                       |   |  |  |
| ELECTRIC   | 41           | Battery  | Type   |                                      | Lead Acid or Lithium-Ion                |  |  |
|            | 42           | Traction Motors (Dual)                                 | 60 Minute Rating (Each)                        |                                      | hp (kW)                                 | 13.4 (10) 13.4 (10)                              |  |
|            | 43           | Pump Motor   | 15 Minute Rating                               |                                      | hp (kW)                                 | 21.5 (16) 32.2 (24)                              |  |
|            | 44           | Traction Motors  | Type/Control Method                            |                                      | Dual AC/Transistor                      |  |  |
|            | 45           | Pump Motor   | Type/Control Method                            |                                      | AC/Transistor                           |  |  |
|            | 46           | Number of Speeds                                       | Traction/Pump                                  |                                      | Infinitely Variable/Infinitely Variable |  |  |
| OTHER      | 47           | Step Height  |  |                                      | in. (mm)                                | 18.7 (475)                                       |  |
|            | 48           | Floor Height   | Without/With Battery Rollers                   |                                      | in. (mm)                                | 27.8/31.9 (706/810)                              |  |
|            | 49           | Attachment Relief Pressure                             |  |                                      | psi (bar)                               | 2250 (155)                                       |  |
|            | 50           | Auxiliary Oil Flow                                     | 3rd and 4th Function                           |                                      | gal/min (l/min)                         | 11 (40)  |  |
|            | 51           | Sound Level  | Measured per ANSI B56.11.5                     |                                      | dB (A)                                  | 63 65  |  |

## GENERAL SPECIFICATIONS ERP050VL

|             |    |  |  |                      |                                  |  |
|-------------|----|--|--|----------------------|----------------------------------|--|
| GENERAL     | 1  | Manufacturer   |  |                      | Yale®                            |  |
|             | 2  | Model Designation                                      |  |                      | ERP050VL                         |  |
|             | 3  | Power/Voltage  |  |                      | Electric/80 Volts                |  |
|             | 4  | Operation  |  |                      | Sit                              |  |
|             | 5  | Rated Capacity   |  | lb. (kg)             | 5000 (2268)                      |  |
|             | 6  | Load Center  |  | in. (mm)             | 24 (610)                         |  |
| TIRES       | 7  | Tire Type (Std/Opt)                                    |  |                      | Pneumatic/Pneumatic Shaped Solid |  |
|             | 8  | Tire Size (Drive/Steer)                                |  | in.                  | 23 x 10 - 12/18 x 7 - 8          |  |
|             | 9  | Wheels - Number X=Driven (Drive/Steer)                 |  | front/rear           | 2X/2                             |  |
|             | 10 | Tread  | Ctr. of Tires                                  | Std Dr/Wide Dr/Steer | in. (mm)                         | 36.9/41.5/39.1 (938/1054/992)  |
| DIMENSIONS  | 11 | Mast Tilt  | Std Opt Opt                                    |                      | degrees                          | 5F/5B 10F/5B 5F/6B   |
|             | 12 | Mast - Lowered Height                                  | Std Mast                                       |                      | in. (mm)                         | 87 (2192)  |
|             | 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)                         | 37/64 (962/1628)   |
|             | 14 | Lift Height - Top of Fork                              | Std 2 Stg Limited Free Lift Mast               |                      | in. (mm)                         | 133 (3392)   |
|             | 15 | Mast - Extended Height                                 | Std Mast with/without LBR                      |                      | in. (mm)                         | 182/156 (4622/3956)  |
|             | 16 | Overhead Guard Height                                  | Without/With Battery Rollers                   |                      | in. (mm)                         | 86.3/90.4 (2193/2297)  |
|             | 17 | SIP to Bottom of OHG                                   | Seat Depressed                                 | Std/Susp/Swivel      | in. (mm)                         | 38.8/39.4/38.9 (986/1001/989)  |
|             | 18 | Tow Pin Height   | Vertical Center of Pin                         |                      | in. (mm)                         | 10.3 (262)   |
|             | 19 | Overall Width  | Pneumatic Tires                                | Std/Wide Tread       | in. (mm)                         | 46.9/51.5 (1192/1308)  |
|             |    |  | PSS Tires                                      | Std/Wide Tread       | in. (mm)                         | 46.2/50.7 (1173/1289)  |
|             | 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)                         | 42 (1067)  |
|             | 22 | Floor to Bottom of Battery (Vertical / Roller / Forks) |  |                      | in. (mm)                         | 5.7 (145) / 10.2 (259) / 9.9 (252)   |
|             | 23 | Ground Clearance                                       | Lowest Point (NL/RL)                           |                      | in. (mm)                         | 3.9/3.3 (98/83)  |
|             | 24 | Ground Clearance                                       | Center of Truck (NL/RL)                        |                      | in. (mm)                         | 5.4/5.3 (137/134)  |
|             | 25 | Load Distance  | Center of Wheel to Face of Forks               |                      | in. (mm)                         | 16.5 (419)   |
|             |    |  | Nominal  | SIZE                 |                                  | 28" 34"  |
|             | 27 | Length to Face of Forks                                | Chassis Length                                 |                      | in. (mm)                         | 92.0 (2336) 97.6 (2480)  |
|             | 28 | Wheelbase  |  |                      | in. (mm)                         | 63.2 (1606) 68.9 (1750)  |
|             | 29 | Right Angle Stack                                      |  |                      | in. (mm)                         | 141.8 (3602) 147.3 (3742)  |
|             | 30 | Equal Aisle  | 90° Intersecting Aisle                         |                      | in. (mm)                         | 78.2 (1986) 80.7 (2049)  |
|             | 31 | Outside Turning Radius                                 |  |                      | in. (mm)                         | 76 (1931) 81.6 (2073)  |
| WT.         | 32 | Truck Weight   | Without Battery (NL)                           |                      | lb. (kg)                         | 6360 (2885) 6560 (2976)  |
|             | 33 | Axle Loading - Drive                                   | Static with Max. Wt. Battery (NL/RL)           |                      | lb. (kg)                         | 5266/13470 (2389/6110) 5718/13659 (2594/6196)                                    |
|             | 34 | Axle Loading - Steer                                   | Static with Max. Wt. Battery (NL/RL)           |                      | lb. (kg)                         | 5236/2032 (2375/922) 5762/2821 (2614/1280)                                       |
| PERFORMANCE | 35 | Travel Speed   | (NL/RL)  |                      | mph (km/h)                       | Standard Performance 11.2/11.2 (18/18) Premium Performance Package 13/13 (21/21) |
|             | 36 | Lift Speed   | Std 2 Stg LFL Mast (NL/RL)                     |                      | ft/min (m/sec)                   | 124/75 (0.63/0.38) 142/96 (0.72/0.49)  |
|             |    |  | Opt 2 Stg FFL Mast (NL/RL)                     |                      | ft/min (m/sec)                   | 124/77 (0.63/0.39) 130/93 (0.66/0.47)  |
|             |    |  | Opt 3 Stg FFL Mast (NL/RL)                     |                      | ft/min (m/sec)                   | 124/77 (0.63/0.39) 134/94 (0.68/0.48)  |
|             | 37 | Lower Speed  | Std 2 Stg LFL Mast (NL/RL)                     |                      | ft/min (m/sec)                   | 100/112 (0.51/0.57)  |
|             |    |  | Opt 2 Stg FFL Mast (NL/RL)                     |                      | ft/min (m/sec)                   | 91/106 (0.46/0.54)   |
|             |    |  | Opt 3 Stg FFL Mast (NL/RL)                     |                      | ft/min (m/sec)                   | 93/108 (0.47/0.55)   |
|             | 38 | Gradability  | 5 Minute Rating (NL/RL)                        |                      | %                                | 35/24 38/26  |
|             |    |  | 60 Minute Rating (NL/RL)                       |                      | %                                | 12/8 13/9  |
|             | 39 | Drawbar Pull   | 5 Minute Rating (NL/RL)                        |                      | lbf                              | 4248/4148 4588/4480  |
|             |    |  | 60 Minute Rating (NL/RL)                       |                      | lbf                              | 1287/1257 1390/1357  |
|             | 40 | Brake  | Method of Control (Service/Parking)            |                      |                                  | Hydraulic/Mechanical   |
|             |    |  | Method of Operation (Service/Parking)          |                      |                                  | Foot/Automatic   |
| ELECTRIC    | 41 | Battery  | Type   |                      |                                  | Lead Acid or Lithium-Ion   |
|             | 42 | Traction Motors (Dual)                                 | 60 Minute Rating (Each)                        |                      | hp (kW)                          | 13.4 (10) 13.4 (10)  |
|             | 43 | Pump Motor   | 15 Minute Rating                               |                      | hp (kW)                          | 21.5 (16) 32.2 (24)  |
|             | 44 | Traction Motors  | Type/Control Method                            |                      |                                  | Dual AC/Transistor   |
|             | 45 | Pump Motor   | Type/Control Method                            |                      |                                  | AC/Transistor  |
|             | 46 | Number of Speeds                                       | Traction/Pump                                  |                      |                                  | Infinitely Variable/Infinitely Variable  |
| OTHER       | 47 | Step Height  |  |                      | in. (mm)                         | 18.7 (475)   |
|             | 48 | Floor Height   | Without/With Battery Rollers                   |                      | in. (mm)                         | 27.8/31.9 (706/810)  |
|             | 49 | Attachment Relief Pressure                             |  |                      | psi (bar)                        | 2250 (155)   |
|             | 50 | Auxiliary Oil Flow                                     | 3rd and 4th Function                           |                      | gal/min (l/min)                  | 11 (40)  |
|             | 51 | Sound Level  | Measured per ANSI B56.11.5                     |                      | dB (A)                           | 63 65  |

## GENERAL SPECIFICATIONS ERP060VL

|             |    |  |  |                      |                                  |  |
|-------------|----|--|--|----------------------|----------------------------------|--|
| GENERAL     | 1  | Manufacturer   |  |                      | Yale®                            |  |
|             | 2  | Model Designation                                      |  |                      | ERP060VL                         |  |
|             | 3  | Power/Voltage  |  |                      | Electric/80 Volts                |  |
|             | 4  | Operation  |  |                      | Sit                              |  |
|             | 5  | Rated Capacity   |  | lb. (kg)             | 6000 (2722)                      |  |
|             | 6  | Load Center  |  | in. (mm)             | 24 (610)                         |  |
| TIRES       | 7  | Tire Type (Std/Opt)                                    |  |                      | Pneumatic/Pneumatic Shaped Solid |  |
|             | 8  | Tire Size (Drive/Steer)                                |  | in.                  | 23 x 10 - 12/18 x 7 - 8          |  |
|             | 9  | Wheels - Number X=Driven (Drive/Steer)                 |  | front/rear           | 2X/2                             |  |
|             | 10 | Tread  | Ctr. of Tires                                  | Std Dr/Wide Dr/Steer | in. (mm)                         | 36.9/41.5/39.1 (938/1054/992)  |
| DIMENSIONS  | 11 | Mast Tilt  | Std Opt Opt                                    |                      | degrees                          | 5F/5B 10F/5B 5F/6B   |
|             | 12 | Mast - Lowered Height                                  | Std Mast                                       |                      | in. (mm)                         | 87 (2192)  |
|             | 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)                         | 37/60 (957/1540)   |
|             | 14 | Lift Height - Top of Fork                              | Std 2 Stg Limited Free Lift Mast               |                      | in. (mm)                         | 126 (3209)   |
|             | 15 | Mast - Extended Height                                 | Std Mast with/without LBR                      |                      | in. (mm)                         | 175/153 (4444/3861)  |
|             | 16 | Overhead Guard Height                                  | Without/With Battery Rollers                   |                      | in. (mm)                         | 86.3/90.4 (2193/2297)  |
|             | 17 | SIP to Bottom of OHG                                   | Seat Depressed                                 | Std/Susp/Swivel      | in. (mm)                         | 38.8/39.4/38.9 (986/1001/989)  |
|             | 18 | Tow Pin Height   | Vertical Center of Pin                         |                      | in. (mm)                         | 10.3 (262)   |
|             | 19 | Overall Width  | Pneumatic Tires                                | Std/Wide Tread       | in. (mm)                         | 46.9/51.5 (1192/1308)  |
|             |    |  | PSS Tires                                      | Std/Wide Tread       | in. (mm)                         | 46.2/50.7 (1173/1289)  |
|             | 20 | Forks  | Thickness x Width x Length                     |                      | in. (mm)                         | 2 x 4.9 x 42 (50 x 125 x 1067)   |
|             | 21 | Standard Carriage Width                                |  |                      | in. (mm)                         | 42 (1067)  |
|             | 22 | Floor to Bottom of Battery (Vertical / Roller / Forks) |  |                      | in. (mm)                         | 5.7 (145) / 10.2 (259) / 9.9 (252)   |
|             | 23 | Ground Clearance                                       | Lowest Point (NL/RL)                           |                      | in. (mm)                         | 3.9/3.3 (98/83)  |
|             | 24 | Ground Clearance                                       | Center of Truck (NL/RL)                        |                      | in. (mm)                         | 5.4/5.3 (137/134)  |
|             | 25 | Load Distance  | Center of Wheel to Face of Forks               |                      | in. (mm)                         | 17.0 (431)   |
|             |    |  |  | Nominal              | SIZE                             | 34"  |
|             | 27 | Length to Face of Forks                                | Chassis Length                                 |                      | in. (mm)                         | 98.1 (2492)  |
|             | 28 | Wheelbase  |  |                      | in. (mm)                         | 68.9 (1750)  |
|             | 29 | Right Angle Stack                                      |  |                      | in. (mm)                         | 147.3 (3742)   |
|             | 30 | Equal Aisle  | 90° Intersecting Aisle                         |                      | in. (mm)                         | 80.7 (2049)  |
|             | 31 | Outside Turning Radius                                 |  |                      | in. (mm)                         | 81.6 (2073)  |
| WT.         | 32 | Truck Weight   | Without Battery (NL)                           |                      | lb. (kg)                         | 6730 (3053)  |
|             | 33 | Axle Loading - Drive                                   | Static with Max. Wt. Battery (NL/RL)           |                      | lb. (kg)                         | 5930/15499 (2690/7030)   |
|             | 34 | Axle Loading - Steer                                   | Static with Max. Wt. Battery (NL/RL)           |                      | lb. (kg)                         | 5714/2145 (2592/973)   |
| PERFORMANCE | 35 | Travel Speed   | (NL/RL)  |                      | mph (km/h)                       | Standard Performance 11.2/10.6 (18/17) Premium Performance Package 13/12.1 (21/19.5) |
|             | 36 | Lift Speed   | Std 2 Stg LFL Mast (NL/RL)                     |                      | ft/min (m/sec)                   | 116/65 (0.59/0.33) 124/83 (0.63/0.42)  |
|             |    |  | Opt 2 Stg FFL Mast (NL/RL)                     |                      | ft/min (m/sec)                   | 108/65 (0.55/0.33) 116/81 (0.59/0.41)  |
|             |    |  | Opt 3 Stg FFL Mast (NL/RL)                     |                      | ft/min (m/sec)                   | 112/65 (0.57/0.33) 118/81 (0.60/0.41)  |
|             | 37 | Lower Speed  | Std 2 Stg LFL Mast (NL/RL)                     |                      | ft/min (m/sec)                   | 91/110 (0.46/0.56)   |
|             |    |  | Opt 2 Stg FFL Mast (NL/RL)                     |                      | ft/min (m/sec)                   | 73/102 (0.37/0.52)   |
|             |    |  | Opt 3 Stg FFL Mast (NL/RL)                     |                      | ft/min (m/sec)                   | 79/104 (0.4/0.53)  |
|             | 38 | Gradability  | 5 Minute Rating (NL/RL)                        |                      | %                                | 34/22 37/24  |
|             |    |  | 60 Minute Rating (NL/RL)                       |                      | %                                | 11/7 12/8  |
|             | 39 | Drawbar Pull   | 5 Minute Rating (NL/RL)                        |                      | lbf                              | 4146/4037 4477/4360  |
|             |    |  | 60 Minute Rating (NL/RL)                       |                      | lbf                              | 1256/1223 1357/1321  |
|             | 40 | Brake  | Method of Control (Service/Parking)            |                      |                                  | Hydraulic/Mechanical   |
|             |    |  | Method of Operation (Service/Parking)          |                      |                                  | Foot/Automatic   |
| ELECTRIC    | 41 | Battery  | Type   |                      |                                  | Lead Acid or Lithium-Ion   |
|             | 42 | Traction Motors (Dual)                                 | 60 Minute Rating (Each)                        |                      | hp (kW)                          | 13.4 (10) 13.4 (10)  |
|             | 43 | Pump Motor   | 15 Minute Rating                               |                      | hp (kW)                          | 21.5 (16) 32.2 (24)  |
|             | 44 | Traction Motors  | Type/Control Method                            |                      |                                  | Dual AC/Transistor   |
|             | 45 | Pump Motor   | Type/Control Method                            |                      |                                  | AC/Transistor  |
|             | 46 | Number of Speeds                                       | Traction/Pump                                  |                      |                                  | Infinitely Variable/Infinitely Variable  |
| OTHER       | 47 | Step Height  |  |                      | in. (mm)                         | 18.7 (475)   |
|             | 48 | Floor Height   | Without/With Battery Rollers                   |                      | in. (mm)                         | 27.8/31.9 (706/810)  |
|             | 49 | Attachment Relief Pressure                             |  |                      | psi (bar)                        | 2250 (155)   |
|             | 50 | Auxiliary Oil Flow                                     | 3rd and 4th Function                           |                      | gal/min (l/min)                  | 11 (40)  |
|             | 51 | Sound Level  | Measured per ANSI B56.11.5                     |                      | dB (A)                           | 63 65  |

## GENERAL SPECIFICATIONS ERP070VL

|            |             |  |  |                                      |                                  |   |   |
|------------|-------------|--|--|--------------------------------------|----------------------------------|---|---|
| GENERAL    | 1           | Manufacturer   |  |                                      | Yale®                            |   |   |
|            | 2           | Model Designation                                      |  |                                      | ERP070VL                         |   |   |
|            | 3           | Power/Voltage  |  |                                      | Electric/80 Volts                |   |   |
|            | 4           | Operation  |  |                                      | Sit                              |   |   |
|            | 5           | Rated Capacity   |  | lb. (kg)                             | 7000 (3175)                      |   |   |
|            | 6           | Load Center  |  | in. (mm)                             | 24 (610)                         |   |   |
| TIRES      | 7           | Tire Type (Std/Opt)                                    |  |                                      | Pneumatic/Pneumatic Shaped Solid |   |   |
|            | 8           | Tire Size (Drive/Steer)                                |  | in.                                  | 23 x 10 - 12/18 x 7 - 8          |   |   |
|            | 9           | Wheels – Number X=Driven (Drive/Steer)                 |  | front/rear                           | 2X/2                             |   |   |
|            | 10          | Tread  | Ctr. of Tires                                  | Std Dr/Wide Dr/Steer                 | in. (mm)                         | 36.9/41.5/39.1 (938/1054/992)           |   |
| DIMENSIONS | 11          | Mast Tilt  | Std Opt Opt                                    |                                      | degrees                          | 5F/5B 10F/5B 5F/6B                      |   |
|            | 12          | Mast - Lowered Height                                  | Std Mast                                       |                                      | in. (mm)                         | 87 (2192)                               |   |
|            | 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)                         | 37/60 (957/1540)                        |   |
|            | 14          | Lift Height - Top of Fork                              | Std 2 Stg Limited Free Lift Mast               |                                      | in. (mm)                         | 126 (3209)                              |   |
|            | 15          | Mast - Extended Height                                 | Std Mast with/without LBR                      |                                      | in. (mm)                         | 175/153 (4444/3861)                     |   |
|            | 16          | Overhead Guard Height                                  | Without/With Battery Rollers                   |                                      | in. (mm)                         | 86.3/90.4 (2193/2297)                   |   |
|            | 17          | SIP to Bottom of OHG                                   | Seat Depressed                                 | Std/Susp/Swivel                      | in. (mm)                         | 38.8/39.4/38.9 (986/1001/989)           |   |
|            | 18          | Tow Pin Height   | Vertical Center of Pin                         |                                      | in. (mm)                         | 10.3 (262)                              |   |
|            | 19          | Overall Width  | Pneumatic Tires                                | Std/Wide Tread                       | in. (mm)                         | 46.9/51.5 (1192/1308)                   |   |
|            | PSS Tires   |  | Std/Wide Tread                                 | in. (mm)                             | 46.2/50.7 (1173/1289)            |   |   |
|            | 20          | Forks  | Thickness x Width x Length                     |                                      | in. (mm)                         | 2 x 4.9 x 42 (50 x 125 x 1067)          |   |
|            | 21          | Standard Carriage Width                                |  |                                      | in. (mm)                         | 42 (1067)                               |   |
|            | 22          | Floor to Bottom of Battery (Vertical / Roller / Forks) |  |                                      | in. (mm)                         | 9.8 (250)                               |   |
|            | 23          | Ground Clearance                                       | Lowest Point (NL/RL)                           |                                      | in. (mm)                         | 3.9/3.3 (98/83)                         |   |
|            | 24          | Ground Clearance                                       | Center of Truck (NL/RL)                        |                                      | in. (mm)                         | 5.4/5.2 (137/132)                       |   |
|            | 25          | Load Distance  | Center of Wheel to Face of Forks               |                                      | in. (mm)                         | 17.0 (431)                              |   |
|            |             |  |  | Nominal                              | SIZE                             | 34"                                     |   |
|            | 27          | Length to Face of Forks                                | Chassis Length                                 |                                      | in. (mm)                         | 101.2 (2570)                            |   |
|            | 28          | Wheelbase  |  |                                      | in. (mm)                         | 68.9 (1750)                             |   |
|            | 29          | Right Angle Stack                                      |  |                                      | in. (mm)                         | 149.9 (3808)                            |   |
|            | 30          | Equal Aisle  | 90° Intersecting Aisle                         |                                      | in. (mm)                         | 81.8 (2078)                             |   |
|            | 31          | Outside Turning Radius                                 |  |                                      | in. (mm)                         | 84.2 (2139)                             |   |
|            | WT.         | 32   | Truck Weight                                   | Without Battery (NL)                 |                                  | lb. (kg)                                | 7420 (3366)   |
|            |             | 33   | Axle Loading - Drive                           | Static with Max. Wt. Battery (NL/RL) |                                  | lb. (kg)                                | 5814/16979 (2637/7702)  |
|            |             | 34   | Axle Loading - Steer                           | Static with Max. Wt. Battery (NL/RL) |                                  | lb. (kg)                                | 6525/2360 (2960/1070)   |
|            | PERFORMANCE | 35   | Travel Speed                                   | (NL/RL)                              |                                  | mph (km/h)                              | Standard Performance 11.2/9.9 (18/16) Premium Performance Package 13/11.2 (21/18) |
|            |             | 36   | Lift Speed                                     | Std 2 Stg LFL Mast (NL/RL)           |                                  | ft/min (m/sec)                          | 116/61 (0.59/0.31) 124/73 (0.63/0.37)   |
|            |             |  |  | Opt 2 Stg FFL Mast (NL/RL)           |                                  | ft/min (m/sec)                          | 108/61 (0.55/0.31) 116/73 (0.59/0.37)   |
|            |             |  |  | Opt 3 Stg FFL Mast (NL/RL)           |                                  | ft/min (m/sec)                          | 112/61 (0.57/0.31) 118/73 (0.60/0.37)   |
|            |             | 37   | Lower Speed                                    | Std 2 Stg LFL Mast (NL/RL)           |                                  | ft/min (m/sec)                          | 91/114 (0.46/0.58)  |
|            |             |  | Opt 2 Stg FFL Mast (NL/RL)                     |                                      | ft/min (m/sec)                   | 73/106 (0.37/0.54)                      |   |
|            |             |  | Opt 3 Stg FFL Mast (NL/RL)                     |                                      | ft/min (m/sec)                   | 79/110 (0.40/0.56)                      |   |
| 38         |             | Gradability  | 5 Minute Rating (NL/RL)                        |                                      | %                                | 32/20 35/22                             |   |
|            |             |  | 60 Minute Rating (NL/RL)                       |                                      | %                                | 10/6 11/7                               |   |
| 39         |             | Drawbar Pull   | 5 Minute Rating (NL/RL)                        |                                      | lbf                              | 4243/4064 4583/4389                     |   |
|            |             |  | 60 Minute Rating (NL/RL)                       |                                      | lbf                              | 1286/1232 1389/1330                     |   |
|            | 40          | Brake  | Method of Control (Service/Parking)            |                                      |                                  | Hydraulic/Mechanical                    |   |
|            |             | Method of Operation (Service/Parking)                  |  |                                      | Foot/Automatic                   |   |   |
| ELECTRIC   | 41          | Battery  | Type   |                                      |                                  | Lead Acid or Lithium-Ion                |   |
|            | 42          | Traction Motors (Dual)                                 | 60 Minute Rating (Each)                        |                                      | hp (kW)                          | 13.4 (10) 13.4 (10)                     |   |
|            | 43          | Pump Motor   | 15 Minute Rating                               |                                      | hp (kW)                          | 21.5 (16) 32.2 (24)                     |   |
|            | 44          | Traction Motors  | Type/Control Method                            |                                      |                                  | Dual AC/Transistor                      |   |
|            | 45          | Pump Motor   | Type/Control Method                            |                                      |                                  | AC/Transistor                           |   |
|            | 46          | Number of Speeds                                       | Traction/Pump                                  |                                      |                                  | Infinitely Variable/Infinitely Variable |   |
| OTHER      | 47          | Step Height  |  |                                      | in. (mm)                         | 18.7 (475)                              |   |
|            | 48          | Floor Height   | Without/With Battery Rollers                   |                                      | in. (mm)                         | 27.8/31.9 (706/810)                     |   |
|            | 49          | Attachment Relief Pressure                             |  |                                      | psi (bar)                        | 2250 (155)                              |   |
|            | 50          | Auxiliary Oil Flow                                     | 3rd and 4th Function                           |                                      | gal/min (l/min)                  | 11 (40)                                 |   |
|            | 51          | Sound Level  | Measured per ANSI B56.11.5                     |                                      | dB (A)                           | 63 65                                   |   |

## FEATURES LIST

| PERFORMANCE  | STD | OPT |
|--|-----|-----|
| 80 Volt electrical system  | •   |     |
| Standard performance   | •   |     |
| AC traction and pump motors (completely brushless)   | •   |     |
| Transistor drive and pump control  | •   |     |
| Advanced vsm (vehicle system manager)  | •   |     |
| Dual drive motors  | •   |     |
| Progressive thermal management system  | •   |     |
| Powerplus performance  |     | •   |
| DRIVE  | STD | OPT |
| Pneumatic drive tire and steer tire  | •   |     |
| Solid pneumatic tires  |     | •   |
| Wide tread tires   |     | •   |
| LIFT   | STD | OPT |
| 2-Stage limited free lift (lfl) Hi-Vis™ mast with maximum fork height of 133" (3392mm) (ERP045-50VL) or 126" (3209mm) (ERP060-70VL)  | •   |     |
| 5° Forward and 5° back mast tilt   | •   |     |
| Available with 2-stage limited free lift (lfl) and 2- or 3-stage full free lift (ffl) Hi-Vis™ masts  |     | •   |
| Mast tilt option – 10° forward / 5° back   |     | •   |
| Mast tilt option – 5° forward / 6° back  |     | •   |
| Return to set tilt   |     | •   |
| Accumulator  |     | •   |
| Load weight indicator  |     | •   |
| Tilt cylinder boots  |     | •   |
| HANDLING   | STD | OPT |
| 42" (1067mm) wide class ii (ERP045-50VL) or class iii (ERP060-70VL) hook-type carriage with 48" (1219mm) high load backrest extension  | •   |     |
| 42" (1067mm) long forks  | •   |     |
| Carriage with integral sideshift   |     | •   |
| Carriage with integral sideshifting fork positioner  |     | •   |
| ERGONOMICS   | STD | OPT |
| 12" Steering wheel with integral spinner knob  | •   |     |
| Non-suspension vinyl seat  | •   |     |
| Black, non-cinch seat belt with Emergency Locking Retractor  | •   |     |
| Foot Directional Control Pedal   | •   |     |
| Power assist braking   | •   |     |
| Multifunction display<br>–Battery state of charge with low battery lift interrupt<br>–Hour meter<br>–Performance mode indicator<br>–Fault indicator (audible & visible)<br>–4 Operator selectable, programmable performance modes" | •   |     |
| Easy ingress / egress with low step height and contoured handhold  | •   |     |
| Operator convenience station - storage areas, beverage & clipboard holders   | •   |     |
| Adjustable tilt steering column with low profile cowl for excellent visibility   | •   |     |
| Cushioned floor mat  | •   |     |
| Seatside power disconnect button   | •   |     |
| Accutouch hydraulic mini-levers with fully adjustable armrest  |     | •   |
| Non-suspension seat (cloth)  |     | •   |
| Full suspension seat (vinyl or cloth)  |     | •   |
| Swivel seat, full suspension (vinyl or cloth)  |     | •   |
| Seat side directional control  |     | •   |
| Telescopic steering column with tilt memory  |     | •   |
| Rear drive handle with integrated horn button  |     | •   |
| Mirrors – rear view or panoramic   |     | •   |
| Synchronous steering   |     | •   |
| Black ELR (Emergency Locking Retractor) non-cinch seat belt  |     | •   |
| Black ELR (Emergency Locking Retractor) non-cinch seat belt with start interlock   |     | •   |

| ERGONOMICS continued   |     |     |
|--|-----|-----|
| Low mount display  |     | •   |
| Oil-cooled wet disc brakes   | •   |     |
| Automatic park brake   | •   |     |
| ADS (Auto Deceleration System) with regenerative braking   | •   |     |
| Anti cinch operator restraint system   | •   |     |
| Operator presence system (ops)   | •   |     |
| Full steel cab: includes front panel with wiper / washer, rear panel with wiper / washer, steel doors, top panel with headliner and dome light |     | •   |
| Front and top cab panels: includes front panel with wiper / washer and top panel   |     | •   |
| Battery side covers  | •   |     |
| OPERATION  | STD | OPT |
| Battery compartment size: 28" (ERP45-50VL); 34" (ERP60-70VL)   | •   |     |
| IP54 sealed drive axle/motors with belly pan and side shields  |     | •   |
| Lift out battery extraction  | •   |     |
| Standard construction  | •   |     |
| UL classification type "E"   | •   |     |
| Key switch start   | •   |     |
| 86.3" Grid style overhead guard  | •   |     |
| Fully integrated canbus communication  | •   |     |
| On-demand power steering   | •   |     |
| Static strap   | •   |     |
| Tow pin  | •   |     |
| Side extraction battery removal with rollers   |     | •   |
| Rapid / fast charge  |     | •   |
| UL classification type "EE"  |     | •   |
| Continuous Stability System (CSS™)   | •   |     |
| 3 Function hydraulic control valve with seat side mechanical levers  | •   |     |
| On-board software<br>–Program, test & diagnose<br>–Password protected  | •   |     |
| "Zero turn" steer axle   | •   |     |
| 34" Battery compartment for the ERP050VL   |     | •   |
| 4 Function hydraulic control valve   |     | •   |
| Keyless start (with auxiliary key switch)  |     | •   |
| LED and halogen work light packages  |     | •   |
| LED dome / reading light   |     | •   |
| LED brake / tail / back-up light packages  |     | •   |
| Audible reverse activated alarm  |     | •   |
| Visible amber strobe light - continuous activated, overhead guard mounted  |     | •   |
| Impact monitor   |     | •   |
| Operator password  |     | •   |
| Operator daily checklist   |     | •   |
| System monitor – hydraulic low fluid level indicator and hydraulic filter service indicator  |     | •   |
| Hydraulic attachment extension tubes with or without quick disconnect fittings   |     | •   |
| Fire extinguisher – 2.5 Lb. Dry chemical   |     | •   |
| Integrated rapid charge  |     | •   |
| Front mud guards   |     | •   |
| Electronic horn with integral relay (long life / no adjustments)   | •   |     |
| Outdoor protection / wash-down package   |     | •   |
| Yale Reliant™  |     | •   |
| SUPPLEMENTAL   | STD | OPT |
| 36 Month / 6,000 hour powertrain warranty  | •   |     |
| 12 Month / 2,000 hour full truck warranty  | •   |     |
| Operating manual   | •   |     |

# 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

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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.