



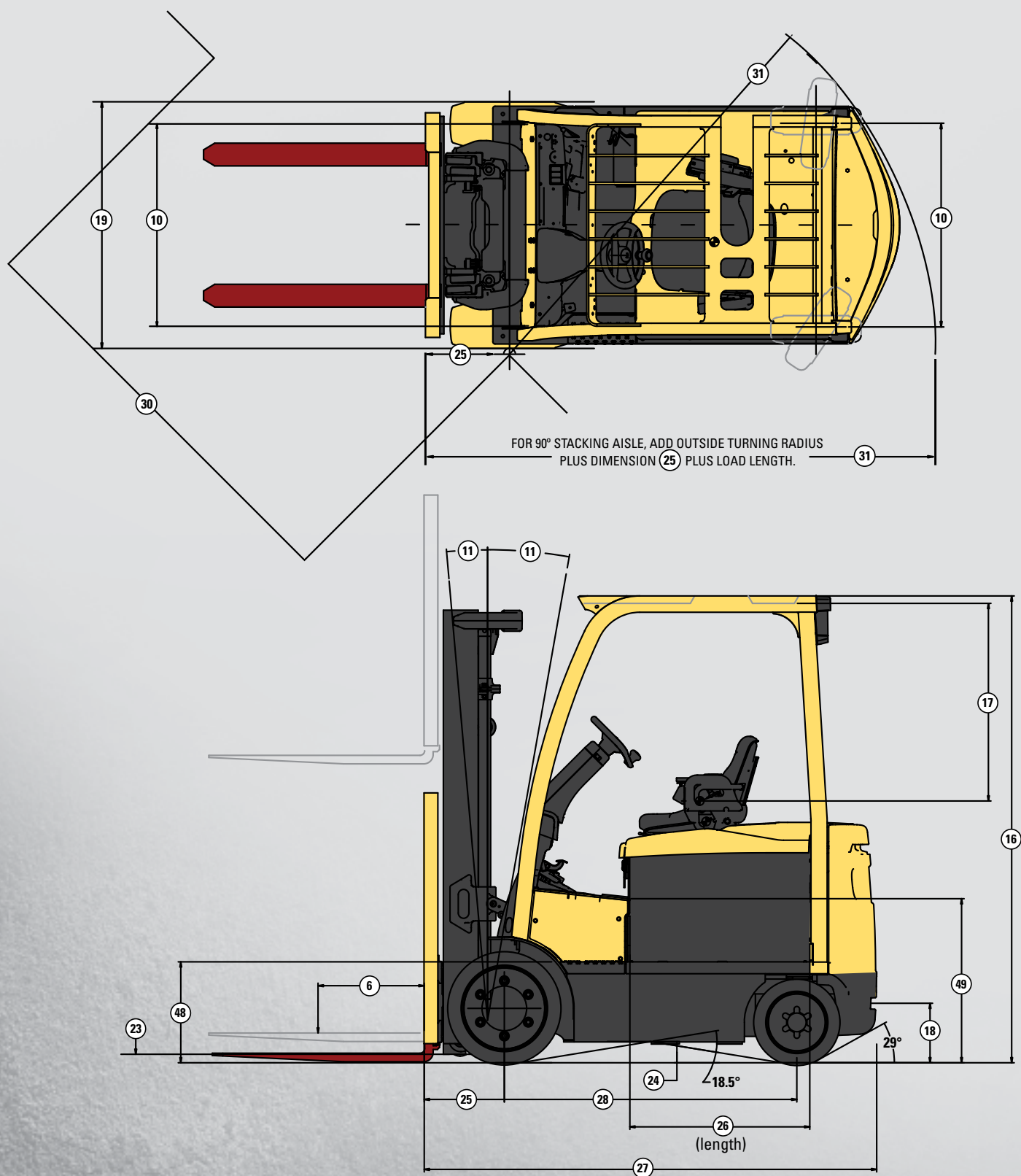
**STRONG PARTNERS.  
TOUGH TRUCKS.™**



## E45-70XN SERIES TECHNICAL GUIDE

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## ➤ E45-70XN DIMENSIONS



Circled dimensions correspond to the line numbers on the tabulated chart inside the Technical Guide. Dimensions are in inches (millimeters).

# E45XN SPECIFICATIONS

|             |    |                                                |                                      |                                                                                        |  |  |  |
|-------------|----|------------------------------------------------|--------------------------------------|----------------------------------------------------------------------------------------|--|--|--|
| GENERAL     | 1  | Manufacturer                                   |                                      | Hyster                                                                                 |  |  |  |
|             | 2  | Model Designation                              |                                      | E45XN                                                                                  |  |  |  |
|             | 3  | Power                                          |                                      | Electric                                                                               |  |  |  |
|             | 4  | Operation                                      |                                      | Sit                                                                                    |  |  |  |
|             | 5  | Rated Capacity                                 |                                      | 4500 (2041)                                                                            |  |  |  |
|             | 6  | Load Center                                    |                                      | 24 (610)                                                                               |  |  |  |
| TIRES       | 7  | Tire Type - Cushion, Solid, Pneumatic, etc.    |                                      | Cushion/Cushion                                                                        |  |  |  |
|             | 8  | Tire Size                                      |                                      | 21 x 7 x 15 / 16 x 5 x 10.5                                                            |  |  |  |
|             | 9  | Wheels - Number                                | X=Driven                             | 2X/2                                                                                   |  |  |  |
|             | 10 | Tread                                          | Std Dr/Wide Dr/Steer                 | 35.1/41.9/37 (892/1064/940)                                                            |  |  |  |
| DIMENSIONS  | 11 | Mast Tilt                                      |                                      | 5F/5B 10F/5B (5F/4B)                                                                   |  |  |  |
|             | 12 | Mast - Lowered Height                          |                                      | 83 (2085)                                                                              |  |  |  |
|             | 13 | Free Lift - Top of Fork                        | Std 2 Stg Limited Free Lift Mast     | 5 (140)                                                                                |  |  |  |
|             |    | Opt 2 Stg Full Free Lift Mast with/without LBR |                                      | 33/60 (860/1525)                                                                       |  |  |  |
|             | 14 | Lift Height - Top of Fork                      | Std 2 Stg Limited Free Lift Mast     | 125 (3192)                                                                             |  |  |  |
|             | 15 | Mast - Extended Height                         | Std Mast with/without LBR            | 174/148 (4415/3740)                                                                    |  |  |  |
|             | 16 | Overhead Guard Height                          | Std/Drive in Rack/Opt/Opt Flat Plate | 88.5/88.5/86.5/84.1 (2248/2248/2197/2137)                                              |  |  |  |
|             | 17 | SIP to Bottom Std OHG                          | Susp at Mid-Point Std/Susp/Swivel    | 38.3/37.4/37.3 (975/950/948)                                                           |  |  |  |
|             | 18 | Tow Pin Height                                 | Vertical Center of Pin               | 11 (280)                                                                               |  |  |  |
|             | 19 | Overall Width                                  | Standard Tread/Wide Tread            | 42.1/48.9 (1070/1242)                                                                  |  |  |  |
|             | 20 | Forks                                          | Thickness x Width x Length           | 1.6 x 3.9 x 42 (40 x 100 x 1067)                                                       |  |  |  |
|             | 21 | Standard Carriage Width                        | Class II                             | 38.5 (977)                                                                             |  |  |  |
|             | 22 | Floor to Top of Battery Rollers                |                                      | 17.2 (436)                                                                             |  |  |  |
|             | 23 | Ground Clearance                               | Lowest Point                         | 3.6/3.3 (91/85)                                                                        |  |  |  |
|             | 24 | Ground Clearance                               | Center of Truck                      | 3.9/3.6 (98/92)                                                                        |  |  |  |
|             | 25 | Load Distance                                  | Center of Wheel to Face of Forks     | 15.4 (390)                                                                             |  |  |  |
|             | 26 | Battery Compartment                            | Height                               | 23.9/23.3 (607/593)                                                                    |  |  |  |
|             |    |                                                | Width                                | 39.1 (992)                                                                             |  |  |  |
|             |    |                                                | Nominal                              | SIZE                                                                                   |  |  |  |
|             |    |                                                |                                      | 27" 30" 33"                                                                            |  |  |  |
|             |    | Length                                         | Actual                               | 27.6 (700) 30.9 (786) 33.3 (847)                                                       |  |  |  |
|             | 27 | Length to Face of Forks                        | Chassis Length                       | 79.4 (2016) 82 (2082) 84.3 (2143)                                                      |  |  |  |
|             | 28 | Wheelbase                                      |                                      | 48.4 (1230) 51.8 (1316) 54.2 (1377)                                                    |  |  |  |
|             | 29 | Right Angle Stack                              |                                      | 131.7 (3344) 135.2 (3434) 137.5 (3493)                                                 |  |  |  |
|             | 30 | Equal Aisle                                    | 90° Intersecting Aisle               | 71.7 (1822) 72.3 (1836) 73.1 (1858)                                                    |  |  |  |
|             | 31 | Outside Turning Radius                         |                                      | 68.3 (1735) 71.9 (1825) 74.2 (1884)                                                    |  |  |  |
| WT.         | 32 | Truck Weight                                   | Without Battery                      | 6620 (3003) 6240 (2830) 6280 (2849)                                                    |  |  |  |
|             | 33 | Axle Loading - Drive                           | Static w/ Max. Wt. Battery           | 3945/12102 (1789/5489) 4189/12107 (1900/5492) 4386/12152 (1989/5512)                   |  |  |  |
|             | 34 | Axle Loading - Steer                           | Static w/ Max. Wt. Battery           | 5968/2311 (2707/1048) 5556/2138 (2520/970) 5796/2529 (2629/1147)                       |  |  |  |
| PERFORMANCE |    |                                                |                                      | Standard Performance PowerPlus Performance                                             |  |  |  |
|             |    |                                                |                                      | VOLTS 36 48 48 80                                                                      |  |  |  |
|             | 36 | Travel Speed                                   | Extended Shift OFF                   | 10.9/9.9 (17.6/15.9) 11.3/11.3 (18.2/18.2) 12.3/12.8 (19.8/20.6) 12.3/12.5 (19.8/20.1) |  |  |  |
|             |    |                                                | Extended Shift ON                    | 9.8/8.8 (15.8/14.2) 10.7/9.9 (17.2/15.9) 12.2/12.4 (19.7/19.9) 12.2/12.3 (19.7/19.8)   |  |  |  |
|             | 37 | Lift Speed                                     | Std 2 Stg LFL Mast                   | 100/59 (0.51/0.3) 124/79 (0.63/0.4) 142/102 (0.72/0.52) 142/102 (0.72/0.52)            |  |  |  |
|             |    |                                                | Opt 2 Stg FFL Mast                   | 93/59 (0.47/0.3) 124/81 (0.63/0.41) 130/98 (0.66/0.5) 130/98 (0.66/0.5)                |  |  |  |
|             |    |                                                | Opt 3 Stg FFL Mast                   | 94/59 (0.48/0.3) 124/79 (0.63/0.4) 134/100 (0.68/0.51) 134/100 (0.68/0.51)             |  |  |  |
|             |    |                                                | Opt 4 Stg FFL Mast                   | 96/59 (0.49/0.3) 0.67/79 (0.63/0.4) 136/100 (0.69/0.51) 136/100 (0.69/0.51)            |  |  |  |
|             | 38 | Lower Speed                                    | Std 2 Stg LFL Mast                   | 100/112 (0.51/0.57)                                                                    |  |  |  |
|             |    |                                                | Opt 2 Stg FFL Mast                   | 91/102 (0.46/0.52)                                                                     |  |  |  |
|             |    |                                                | Opt 3 Stg FFL Mast                   | 93/106 (0.47/0.54)                                                                     |  |  |  |
|             |    |                                                | Opt 4 Stg FFL Mast                   | 77/89 (0.39/0.45)                                                                      |  |  |  |
|             | 39 | Gradeability                                   | 5 Minute Rating                      | 39/23 40/25 39/27 39/34                                                                |  |  |  |
|             |    |                                                | 60 Minute Rating                     | 14/8 15/9 25/16 32/20                                                                  |  |  |  |
| ELECTRIC    | 40 | Drawbar Pull                                   | 5 Minute Rating                      | 3373/3202 3486/3306 3773/3946 3773/4968                                                |  |  |  |
|             |    |                                                | 60 Minute Rating                     | 1317/1178 1402/1262 2545/2375 3208/3026                                                |  |  |  |
|             | 41 | Brake                                          | Method of Control                    | Hydraulic/Mechanical                                                                   |  |  |  |
|             |    |                                                | Method of Operation                  | Foot/Foot                                                                              |  |  |  |
| OTHER       | 42 | Battery                                        | Type                                 | Lead Acid                                                                              |  |  |  |
|             |    |                                                |                                      | Standard Performance PowerPlus Performance                                             |  |  |  |
|             |    |                                                |                                      | VOLTS 36 48 48 80                                                                      |  |  |  |
|             | 43 | Traction Motor                                 | 60 Minute Rating                     | 24.7 (18.4) 24.7 (18.4) 31.6 (23.6) 31.6 (23.6)                                        |  |  |  |
|             | 44 | Pump Motor                                     | 15% Rating                           | 16.6 (12.4) 22.4 (16.7) 31.8 (23.7) 32.2 (24)                                          |  |  |  |
|             | 45 | Traction Motor                                 | Type/Control Method                  | AC/Transistor                                                                          |  |  |  |
|             | 46 | Pump Motor                                     | Type/Control Method                  | AC/Transistor                                                                          |  |  |  |
|             | 47 | Number of Speeds                               | Traction/Pump                        | Infinitely Variable/Infinitely Variable                                                |  |  |  |
|             | 48 | Step Height                                    |                                      | 18.7 (475)                                                                             |  |  |  |
|             | 49 | Floor Height                                   | Lowest Point                         | 30.4 (772)                                                                             |  |  |  |
| OTHER       | 50 | Attachment Relief Pressure                     |                                      | 2250 (155)                                                                             |  |  |  |
|             | 51 | Auxiliary Oil Flow                             | 3rd and 4th Function                 | 11 (40)                                                                                |  |  |  |
|             | 52 | Sound Level                                    | Measured per ANSI B56.11.5           | 60 60 65 65                                                                            |  |  |  |

Above specifications, unless otherwise listed, are for a standard truck without optional equipment.

Right Angle Stack and Equal Intersecting Aisle dimensions provided with a 48" long and 40" wide pallet load, allowing zero clearance.



# E50XN SPECIFICATIONS

|             |                        |                                                |                                      |                                           |                                   |                                           |                        |                        |                       |
|-------------|------------------------|------------------------------------------------|--------------------------------------|-------------------------------------------|-----------------------------------|-------------------------------------------|------------------------|------------------------|-----------------------|
| GENERAL     | 1                      | Manufacturer                                   |                                      | Hyster                                    |                                   |                                           |                        |                        |                       |
|             | 2                      | Model Designation                              |                                      | E50XN                                     |                                   |                                           |                        |                        |                       |
|             | 3                      | Power                                          |                                      | Electric                                  |                                   |                                           |                        |                        |                       |
|             | 4                      | Operation                                      |                                      | Sit                                       |                                   |                                           |                        |                        |                       |
|             | 5                      | Rated Capacity                                 |                                      | lb (kg)                                   | 5000 (2268)                       |                                           |                        |                        |                       |
|             | 6                      | Load Center                                    |                                      | in (mm)                                   | 24 (610)                          |                                           |                        |                        |                       |
| TIRES       | 7                      | Tire Type - Cushion, Solid, Pneumatic, etc.    |                                      | Drive/Steer                               | Cushion / Cushion                 |                                           |                        |                        |                       |
|             | 8                      | Tire Size                                      |                                      | Drive/Steer                               | in<br>21 x 7 x 15 / 16 x 5 x 10.5 |                                           |                        |                        |                       |
|             | 9                      | Wheels - Number                                | X=Driven                             | Drive/Steer                               | 2X / 2                            |                                           |                        |                        |                       |
| DIMENSIONS  | 10                     | Tread                                          | Tires                                | Std Dr/Wide Dr/Steer                      | in (mm)                           | 35.1/41.9/37 (892/1064/940)               |                        |                        |                       |
|             | 11                     | Mast Tilt                                      |                                      | Std Opt Opt                               | degrees                           | 5F/5B 10F/5B (5F/4B)                      |                        |                        |                       |
|             | 12                     | Mast - Lowered Height                          |                                      | Std Mast                                  | in (mm)                           | 83 (2085)                                 |                        |                        |                       |
|             | 13                     | Free Lift - Top of Fork                        | Std 2 Stg Limited Free Lift Mast     |                                           | in (mm)                           | 5 (140)                                   |                        |                        |                       |
|             | 14                     | Opt 2 Stg Full Free Lift Mast with/without LBR |                                      | in (mm)                                   | 33/60 (860/1525)                  |                                           |                        |                        |                       |
|             | 15                     | Lift Height - Top of Fork                      | Std 2 Stg Limited Free Lift Mast     |                                           | in (mm)                           | 125 (3192)                                |                        |                        |                       |
|             | 16                     | Mast - Extended Height                         | Std Mast with/without LBR            |                                           | in (mm)                           | 174/148 (4415/3740)                       |                        |                        |                       |
|             | 17                     | Overhead Guard Height                          | Std/Drive in Rack/Opt/Opt Flat Plate |                                           | in (mm)                           | 88.5/88.5/86.5/84.1 (2248/2248/2197/2137) |                        |                        |                       |
|             | 18                     | SIP to Bottom Std OHG                          | Susp at Mid-Point                    | Std/Susp/Swivel                           | in (mm)                           | 38.3/37.4/37.3 (975/950/948)              |                        |                        |                       |
|             | 19                     | Tow Pin Height                                 | Vertical Center of Pin               |                                           | in (mm)                           | 11 (280)                                  |                        |                        |                       |
|             | 20                     | Overall Width                                  | Standard Tread/Wide Tread            |                                           | in (mm)                           | 42.1/48.9 (1070/1242)                     |                        |                        |                       |
|             | 21                     | Forks                                          | Thickness x Width x Length           |                                           | in (mm)                           | 1.6 x 3.9 x 42 (40 x 100 x 1067)          |                        |                        |                       |
|             | 22                     | Standard Carriage Width                        |                                      | Class II                                  | in (mm)                           | 38.5 (977)                                |                        |                        |                       |
|             | 23                     | Floor to Top of Battery Rollers                |                                      |                                           | in (mm)                           | 17.2 (436)                                |                        |                        |                       |
|             | 24                     | Ground Clearance                               | Lowest Point                         | NL/RL                                     | in (mm)                           | 3.6/3.3 (91/85)                           |                        |                        |                       |
|             | 25                     | Ground Clearance                               | Center of Truck                      | NL/RL                                     | in (mm)                           | 3.9/3.6 (98/92)                           |                        |                        |                       |
|             | 26                     | Load Distance                                  | Center of Wheel to Face of Forks     |                                           | in (mm)                           | 15.4 (390)                                |                        |                        |                       |
|             | 27                     | Battery Compartment                            | Height                               | Without/With Battery Rollers              | in (mm)                           | 23.9/23.3 (607/593)                       |                        |                        |                       |
|             | 28                     |                                                | Width                                |                                           | in (mm)                           | 39.1 (992)                                |                        |                        |                       |
|             | 29                     |                                                |                                      | Nominal                                   | SIZE                              | 27"                                       | 30"                    | 33"                    |                       |
|             | 30                     |                                                | Length                               | Actual                                    | in (mm)                           | 27.6 (700)                                | 30.9 (786)             | 33.3 (847)             |                       |
|             | 31                     | Length to Face of Forks                        | Chassis Length                       |                                           | in (mm)                           | 80.3 (2040)                               | 82.8 (2102)            | 84.3 (2143)            |                       |
|             | 32                     | Wheelbase                                      |                                      |                                           | in (mm)                           | 48.4 (1230)                               | 51.8 (1316)            | 54.2 (1377)            |                       |
|             | 33                     | Right Angle Stack                              |                                      |                                           | in (mm)                           | 132.5 (3366)                              | 135.2 (3434)           | 137.5 (3493)           |                       |
|             | 34                     | Equal Aisle                                    | 90° Intersecting Aisle               |                                           | in (mm)                           | 71.8 (1823)                               | 72.5 (1842)            | 73.1 (1858)            |                       |
| 35          | Outside Turning Radius |                                                |                                      | in (mm)                                   | 69.2 (1757)                       | 71.9 (1825)                               | 74.2 (1884)            |                        |                       |
| WT.         | 36                     | Truck Weight                                   | Without Battery                      | NL                                        | lb (kg)                           | 7030 (3189)                               | 6670 (3025)            | 6280 (2849)            |                       |
|             | 37                     | Axle Loading - Drive                           | Static w/ Max. Wt. Battery           | NL/RL                                     | lb (kg)                           | 3844/12907 (1744/5855)                    | 4114/12911 (1866/5856) | 4386/13015 (1989/5904) |                       |
|             | 38                     | Axle Loading - Steer                           | Static w/ Max. Wt. Battery           | NL/RL                                     | lb (kg)                           | 6477/2414 (2938/1095)                     | 6053/2255 (2746/1023)  | 5796/2166 (2629/982)   |                       |
| PERFORMANCE | 39                     |                                                |                                      |                                           | Standard Performance              |                                           |                        | PowerPlus Performance  |                       |
|             | 40                     |                                                |                                      |                                           | VOLTS                             | 36                                        | 48                     | 48                     | 80                    |
|             | 41                     | Travel Speed                                   | Extended Shift OFF                   | NL/RL                                     | mph (km/h)                        | 10.7/9.6 (17.3/15.4)                      | 11.3/11.3 (18.2/18.2)  | 12.3/12.8 (19.8/20.6)  | 12.3/12.5 (19.8/20.1) |
|             | 42                     |                                                | Extended Shift ON                    | NL/RL                                     | mph (km/h)                        | 9.7/8.7 (15.6/14)                         | 10.6/9.8 (17.1/15.8)   | 12.2/12.4 (19.7/19.9)  | 12.2/12.2 (19.7/19.7) |
|             | 43                     | Lift Speed                                     | Std 2 Stg LFL Mast                   | NL/RL                                     | ft/min (m/sec)                    | 100/55 (0.51/0.28)                        | 124/75 (0.63/0.38)     | 142/96 (0.72/0.49)     | 142/96 (0.72/0.49)    |
|             | 44                     |                                                | Opt 2 Stg FFL Mast                   | NL/RL                                     | ft/min (m/sec)                    | 93/57 (0.47/0.29)                         | 124/77 (0.63/0.39)     | 130/93 (0.66/0.47)     | 130/93 (0.66/0.47)    |
|             | 45                     |                                                | Opt 3 Stg FFL Mast                   | NL/RL                                     | ft/min (m/sec)                    | 94/57 (0.48/0.29)                         | 124/77 (0.63/0.39)     | 134/94 (0.68/0.48)     | 134/94 (0.68/0.48)    |
|             | 46                     |                                                | Opt 4 Stg FFL Mast                   | NL/RL                                     | ft/min (m/sec)                    | 96/57 (0.49/0.29)                         | 124/75 (0.63/0.38)     | 136/94 (0.69/0.48)     | 136/94 (0.69/0.48)    |
|             | 47                     | Lower Speed                                    | Std 2 Stg LFL Mast                   | NL/RL                                     | ft/min (m/sec)                    | 100/112 (0.51/0.57)                       |                        |                        |                       |
|             | 48                     |                                                | Opt 2 Stg FFL Mast                   | NL/RL                                     | ft/min (m/sec)                    | 91/106 (0.46/0.54)                        |                        |                        |                       |
|             | 49                     |                                                | Opt 3 Stg FFL Mast                   | NL/RL                                     | ft/min (m/sec)                    | 93/108 (0.47/0.55)                        |                        |                        |                       |
|             | 50                     |                                                | Opt 4 Stg FFL Mast                   | NL/RL                                     | ft/min (m/sec)                    | 77/91 (0.39/0.46)                         |                        |                        |                       |
|             | 51                     | Gradeability                                   | 5 Minute Rating                      | NL/RL                                     | %                                 | 35/20                                     | 36/21                  | 39/25                  | 39/33                 |
|             | 52                     |                                                | 60 Minute Rating                     | NL/RL                                     | %                                 | 13/7                                      | 14/8                   | 25/15                  | 32/19                 |
|             | 53                     | Drawbar Pull                                   | 5 Minute Rating                      | NL/RL                                     | lbf                               | 3358/3152                                 | 3464/3257              | 3773/3909              | 3773/4926             |
|             | 54                     |                                                | 60 Minute Rating                     | NL/RL                                     | lbf                               | 1295/1129                                 | 1380/1212              | 2545/2345              | 3208/2993             |
|             | 55                     | Brake                                          | Method of Control                    | Service/Parking                           | Hydraulic / Mechanical            |                                           |                        |                        |                       |
|             | 56                     |                                                | Method of Operation                  | Service/Parking                           | Foot / Foot                       |                                           |                        |                        |                       |
| ELECTRIC    | 57                     | Battery                                        | Type                                 | Lead Acid                                 |                                   |                                           |                        |                        |                       |
|             | 58                     |                                                |                                      | Standard Performance                      |                                   |                                           |                        |                        | PowerPlus Performance |
|             | 59                     |                                                |                                      | VOLTS                                     | 36                                | 48                                        | 48                     | 80                     |                       |
|             | 60                     | Traction Motor                                 | 60 Minute Rating                     | hp (kW)                                   | 24.7 (18.4)                       | 24.7 (18.4)                               | 31.6 (23.6)            | 31.6 (23.6)            |                       |
|             | 61                     | Pump Motor                                     | 15% Rating                           | hp (kW)                                   | 16.6 (12.4)                       | 22.4 (16.7)                               | 31.8 (23.7)            | 32.2 (24)              |                       |
|             | 62                     | Traction Motor                                 | Type/Control Method                  | AC / Transistor                           |                                   |                                           |                        |                        |                       |
| 63          | Pump Motor             | Type/Control Method                            | AC / Transistor                      |                                           |                                   |                                           |                        |                        |                       |
| 64          | Number of Speeds       | Traction/Pump                                  |                                      | Infinitely Variable / Infinitely Variable |                                   |                                           |                        |                        |                       |
| OTHER       | 65                     | Step Height                                    |                                      | in (mm)                                   | 18.7 (475)                        |                                           |                        |                        |                       |
|             | 66                     | Floor Height                                   | Lowest Point                         | in (mm)                                   | 30.4 (772)                        |                                           |                        |                        |                       |
|             | 67                     | Attachment Relief Pressure                     |                                      | psi (bar)                                 | 2250 (155)                        |                                           |                        |                        |                       |
|             | 68                     | Auxiliary Oil Flow                             | 3rd and 4th Function                 | gal/min (l/min)                           | 11 (40)                           |                                           |                        |                        |                       |
|             | 69                     | Sound Level                                    | Measured per ANSI B56.11.5           |                                           | dB (A)                            | 60                                        | 60                     | 65                     | 65                    |

Above specifications, unless otherwise listed, are for a standard truck without optional equipment.

Right Angle Stack and Equal Intersecting Aisle dimensions provided with a 48" long and 40" wide pallet load, allowing zero clearance.

# E55XN SPECIFICATIONS

|             |                  |                                                |                                      |                                           |                                |                                           |                        |                       |                       |
|-------------|------------------|------------------------------------------------|--------------------------------------|-------------------------------------------|--------------------------------|-------------------------------------------|------------------------|-----------------------|-----------------------|
| GENERAL     | 1                | Manufacturer                                   |                                      | Hyster                                    |                                |                                           |                        |                       |                       |
|             | 2                | Model Designation                              |                                      | E55XN                                     |                                |                                           |                        |                       |                       |
|             | 3                | Power                                          |                                      | Electric                                  |                                |                                           |                        |                       |                       |
|             | 4                | Operation                                      |                                      | Sit                                       |                                |                                           |                        |                       |                       |
|             | 5                | Rated Capacity                                 |                                      | lb (kg)                                   | 5500 (2495)                    |                                           |                        |                       |                       |
|             | 6                | Load Center                                    |                                      | in (mm)                                   | 24 (610)                       |                                           |                        |                       |                       |
| TIRES       | 7                | Tire Type - Cushion, Solid, Pneumatic, etc.    |                                      | Drive/Steer                               | Cushion / Cushion              |                                           |                        |                       |                       |
|             | 8                | Tire Size                                      |                                      | Drive/Steer                               | in 21 x 7 x 15 / 16 x 5 x 10.5 |                                           |                        |                       |                       |
|             | 9                | Wheels - Number                                | X=Driven                             | Drive/Steer                               | 2X / 2                         |                                           |                        |                       |                       |
| DIMENSIONS  | 10               | Tread                                          | Tires Std Dr/Wide Dr/Steer           | in (mm)                                   | 35.1/41.9/37 (892/1064/940)    |                                           |                        |                       |                       |
|             | 11               | Mast Tilt                                      |                                      | Std Opt Opt                               | degrees                        | 5F/5B 10F/5B (5F/4B)                      |                        |                       |                       |
|             | 12               | Mast - Lowered Height                          |                                      | Std Mast                                  | in (mm)                        | 83 (2085)                                 |                        |                       |                       |
|             | 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)                                   | 33/60 (860/1525)               |                                           |                        |                       |                       |
|             | 14               | Lift Height - Top of Fork                      | Std 2 Stg Limited Free Lift Mast     |                                           | in (mm)                        | 125 (3192)                                |                        |                       |                       |
|             | 15               | Mast - Extended Height                         | Std Mast with/without LBR            |                                           | in (mm)                        | 174/148 (4415/3740)                       |                        |                       |                       |
|             | 16               | Overhead Guard Height                          | Std/Drive in Rack/Opt/Opt Flat Plate |                                           | in (mm)                        | 88.5/88.5/86.5/84.1 (2248/2248/2197/2137) |                        |                       |                       |
|             | 17               | SIP to Bottom Std OHG                          | Susp at Mid-Point                    | Std/Susp/Swivel                           | in (mm)                        | 38.3/37.4/37.3 (975/950/948)              |                        |                       |                       |
|             | 18               | Tow Pin Height                                 | Vertical Center of Pin               |                                           | in (mm)                        | 11 (280)                                  |                        |                       |                       |
|             | 19               | Overall Width                                  | Standard Tread/Wide Tread            |                                           | in (mm)                        | 42.1/48.9 (1070/1242)                     |                        |                       |                       |
|             | 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                        |                                      | Class II                                  | in (mm)                        | 38.5 (977)                                |                        |                       |                       |
|             | 22               | Floor to Top of Battery Rollers                |                                      |                                           | in (mm)                        | 17.2 (436)                                |                        |                       |                       |
|             | 23               | Ground Clearance                               | Lowest Point                         | NL/RL                                     | in (mm)                        | 3.6/3.3 (91/85)                           |                        |                       |                       |
|             | 24               | Ground Clearance                               | Center of Truck                      | NL/RL                                     | in (mm)                        | 3.9/3.6 (98/92)                           |                        |                       |                       |
|             | 25               | Load Distance                                  | Center of Wheel to Face of Forks     |                                           | in (mm)                        | 15.4 (390)                                |                        |                       |                       |
|             | 26               | Battery Compartment                            | Height                               | Without/With Battery Rollers              | in (mm)                        | 23.9/23.3 (607/593)                       |                        |                       |                       |
|             |                  |                                                | Width                                |                                           | in (mm)                        | 39.1 (992)                                |                        |                       |                       |
|             |                  |                                                |                                      | Nominal                                   | SIZE                           | 33"                                       |                        |                       |                       |
|             |                  |                                                | Length                               | Actual                                    | in (mm)                        | 33.3 (847)                                |                        |                       |                       |
|             | 27               | Length to Face of Forks                        | Chassis Length                       |                                           | in (mm)                        | 85.1 (2163)                               |                        |                       |                       |
|             | 28               | Wheelbase                                      |                                      |                                           | in (mm)                        | 54.2 (1377)                               |                        |                       |                       |
|             | 29               | Right Angle Stack                              |                                      |                                           | in (mm)                        | 137.9 (3502)                              |                        |                       |                       |
|             | 30               | Equal Aisle                                    | 90° Intersecting Aisle               |                                           | in (mm)                        | 73.8 (1874)                               |                        |                       |                       |
|             | 31               | Outside Turning Radius                         |                                      |                                           | in (mm)                        | 74.5 (1893)                               |                        |                       |                       |
|             | WT.              | 32                                             | Truck Weight                         | Without Battery                           | NL                             | lb (kg)                                   | 6710 (3044)            |                       |                       |
|             |                  | 33                                             | Axle Loading - Drive                 | Static w/ Max. Wt. Battery                | NL/RL                          | lb (kg)                                   | 4313/13806 (1956/6262) |                       |                       |
| 34          |                  | Axle Loading - Steer                           | Static w/ Max. Wt. Battery           | NL/RL                                     | lb (kg)                        | 6289/2297 (2853/1042)                     |                        |                       |                       |
| PERFORMANCE |                  |                                                |                                      |                                           | Standard Performance           |                                           | PowerPlus Performance  |                       |                       |
|             |                  |                                                |                                      | VOLTS                                     | 36                             | 48                                        | 48                     | 80                    |                       |
|             | 36               | Travel Speed                                   | Extended Shift OFF                   | NL/RL                                     | mph (km/h)                     | 10.7/9.4 (17.3/15.1)                      | 11.3/11.3 (18.2/18.2)  | 12.3/12.8 (19.8/20.6) | 12.3/12.5 (19.8/20.1) |
|             |                  |                                                | Extended Shift ON                    | NL/RL                                     | mph (km/h)                     | 9.6/8.5 (15.5/13.7)                       | 10.5/9.6 (16.9/15.5)   | 12.2/12.4 (19.7/19.9) | 12.2/12.2 (19.7/19.7) |
|             | 37               | Lift Speed                                     | Std 2 Stg LFL Mast                   | NL/RL                                     | ft/min (m/sec)                 | 100/53 (0.51/0.27)                        | 124/71 (0.63/0.36)     | 142/93 (0.72/0.47)    | 142/93 (0.72/0.47)    |
|             |                  |                                                | Opt 2 Stg FFL Mast                   | NL/RL                                     | ft/min (m/sec)                 | 93/57 (0.47/0.29)                         | 124/75 (0.63/0.38)     | 130/89 (0.66/0.45)    | 130/89 (0.66/0.45)    |
|             |                  |                                                | Opt 3 Stg FFL Mast                   | NL/RL                                     | ft/min (m/sec)                 | 94/55 (0.48/0.28)                         | 124/73 (0.63/0.37)     | 134/91 (0.68/0.46)    | 134/91 (0.68/0.46)    |
|             |                  |                                                | Opt 4 Stg FFL Mast                   | NL/RL                                     | ft/min (m/sec)                 | 96/57 (0.49/0.29)                         | 124/75 (0.63/0.38)     | 136/94 (0.69/0.48)    | 136/94 (0.69/0.48)    |
|             | 38               | Lower Speed                                    | Std 2 Stg LFL Mast                   | NL/RL                                     | ft/min (m/sec)                 | 100/114 (0.51/0.58)                       |                        |                       |                       |
|             |                  |                                                | Opt 2 Stg FFL Mast                   | NL/RL                                     | ft/min (m/sec)                 | 91/108 (0.46/0.55)                        |                        |                       |                       |
|             |                  |                                                | Opt 3 Stg FFL Mast                   | NL/RL                                     | ft/min (m/sec)                 | 93/110 (0.47/0.56)                        |                        |                       |                       |
|             |                  |                                                | Opt 4 Stg FFL Mast                   | NL/RL                                     | ft/min (m/sec)                 | 77/91 (0.39/0.46)                         |                        |                       |                       |
|             | 39               | Gradeability                                   | 5 Minute Rating                      | NL/RL                                     | %                              | 34/19                                     | 34/20                  | 36/24                 | 36/30                 |
|             |                  |                                                | 60 Minute Rating                     | NL/RL                                     | %                              | 12/7                                      | 13/8                   | 24/14                 | 31/18                 |
|             | 40               | Drawbar Pull                                   | 5 Minute Rating                      | NL/RL                                     | lbf                            | 3350/3139                                 | 3456/3243              | 3715/3868             | 3715/4881             |
|             |                  |                                                | 60 Minute Rating                     | NL/RL                                     | lbf                            | 1287/1111                                 | 1373/1198              | 2535/2310             | 3198/2956             |
| ELECTRIC    | 41               | Brake                                          | Method of Control                    | Service/Parking                           | Hydraulic / Mechanical         |                                           |                        |                       |                       |
|             |                  |                                                | Method of Operation                  | Service/Parking                           | Foot / Foot                    |                                           |                        |                       |                       |
|             | 42               | Battery                                        | Type                                 |                                           | Lead Acid                      |                                           |                        |                       |                       |
|             |                  |                                                |                                      |                                           | Standard Performance           |                                           | PowerPlus Performance  |                       |                       |
|             |                  |                                                |                                      | VOLTS                                     | 36                             | 48                                        | 48                     | 80                    |                       |
|             | 43               | Traction Motor                                 | 60 Minute Rating                     | hp (kW)                                   | 24.7 (18.4)                    | 24.7 (18.4)                               | 31.6 (23.6)            | 31.6 (23.6)           |                       |
|             | 44               | Pump Motor                                     | 15% Rating                           | hp (kW)                                   | 16.6 (12.4)                    | 22.4 (16.7)                               | 31.8 (23.7)            | 32.2 (24)             |                       |
|             | 45               | Traction Motor                                 | Type/Control Method                  |                                           | AC / Transistor                |                                           |                        |                       |                       |
| 46          | Pump Motor       | Type/Control Method                            |                                      | AC / Transistor                           |                                |                                           |                        |                       |                       |
| 47          | Number of Speeds | Traction/Pump                                  |                                      | Infinitely Variable / Infinitely Variable |                                |                                           |                        |                       |                       |
| OTHER       | 48               | Step Height                                    |                                      | in (mm)                                   | 18.7 (475)                     |                                           |                        |                       |                       |
|             | 49               | Floor Height                                   | Lowest Point                         | in (mm)                                   | 30.4 (772)                     |                                           |                        |                       |                       |
|             | 50               | Attachment Relief Pressure                     |                                      | psi (bar)                                 | 2250 (155)                     |                                           |                        |                       |                       |
|             | 51               | Auxiliary Oil Flow                             | 3rd and 4th Function                 | gal/min (l/min)                           | 11 (40)                        |                                           |                        |                       |                       |
|             | 52               | Sound Level                                    | Measured per ANSI B56.11.5           | dB (A)                                    | 60                             | 60                                        | 65                     | 65                    |                       |

Above specifications, unless otherwise listed, are for a standard truck without optional equipment.

Right Angle Stack and Equal Intersecting Aisle dimensions provided with a 48" long and 40" wide pallet load, allowing zero clearance.

# E60XN SPECIFICATIONS

|             |    |                                             |                                      |                              |                                           |
|-------------|----|---------------------------------------------|--------------------------------------|------------------------------|-------------------------------------------|
| GENERAL     | 1  | Manufacturer                                |                                      |                              | Hyster                                    |
|             | 2  | Model Designation                           |                                      |                              | E60XN                                     |
|             | 3  | Power                                       |                                      |                              | Electric                                  |
|             | 4  | Operation                                   |                                      |                              | Sit                                       |
|             | 5  | Rated Capacity                              | lb (kg)                              |                              | 6000 (2722)                               |
|             | 6  | Load Center                                 | in (mm)                              |                              | 24 (610)                                  |
| TIRES       | 7  | Tire Type - Cushion, Solid, Pneumatic, etc. | Drive/Steer                          |                              | Cushion / Cushion                         |
|             | 8  | Tire Size                                   | Drive/Steer                          | in                           | 21 x 8 x 15 / 16 x 6 x 10.5               |
|             | 9  | Wheels - Number                             | X=Driven                             | Drive/Steer                  | 2X / 2                                    |
|             | 10 | Tread                                       | Tires                                | Std Dr/Wide Dr/Steer         | 35.6/40.9/36 (905/1039/915)               |
| DIMENSIONS  | 11 | Mast Tilt                                   | Std Opt Opt                          | degrees                      | 5F/5B 10F/5B (5F/4B)                      |
|             | 12 | Mast - Lowered Height                       | Std Mast                             | in (mm)                      | 83 (2085)                                 |
|             | 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)                      | 33/56 (855/1440)                          |
|             | 14 | Lift Height - Top of Fork                   | Std 2 Stg Limited Free Lift Mast     | in (mm)                      | 118 (3009)                                |
|             | 15 | Mast - Extended Height                      | Std Mast with/without LBR            | in (mm)                      | 167/144 (4235/3655)                       |
|             | 16 | Overhead Guard Height                       | Std/Drive in Rack/Opt/Opt Flat Plate | in (mm)                      | 88.5/88.5/86.5/84.1 (2248/2248/2197/2137) |
|             | 17 | SIP to Bottom Std OHG                       | Susp at Mid-Point                    | Std/Susp/Swivel              | 38.3/37.4/37.3 (975/950/948)              |
|             | 18 | Tow Pin Height                              | Vertical Center of Pin               | in (mm)                      | 11 (280)                                  |
|             | 19 | Overall Width                               | Standard Tread/Wide Tread            | in (mm)                      | 43.6/48.9 (1108/1242)                     |
|             | 20 | Forks                                       | Thickness x Width x Length           | in (mm)                      | 2 x 4.9 x 42 (50 x 125 x 1067)            |
|             | 21 | Standard Carriage Width                     | Class III                            | in (mm)                      | 38.5 (977)                                |
|             | 22 | Floor to Top of Battery Rollers             |                                      | in (mm)                      | 17.2 (436)                                |
|             | 23 | Ground Clearance                            | Lowest Point                         | NL/RL                        | 3.6/3.3 (91/85)                           |
|             | 24 | Ground Clearance                            | Center of Truck                      | NL/RL                        | 3.7/3.6 (94/92)                           |
|             | 25 | Load Distance                               | Center of Wheel to Face of Forks     | in (mm)                      | 15.8 (402)                                |
|             | 26 | Battery Compartment                         | Height                               | Without/With Battery Rollers | 23.9/23.3 (607/593)                       |
|             |    |                                             | Width                                |                              | 39.1 (992)                                |
|             |    |                                             |                                      | Nominal                      | SIZE                                      |
|             |    |                                             |                                      |                              | 33"                                       |
|             |    |                                             | Length                               | Actual                       | in (mm)                                   |
|             |    |                                             |                                      |                              | 33.3 (847)                                |
|             | 27 | Length to Face of Forks                     | Chassis Length                       | in (mm)                      | 86.5 (2199)                               |
|             | 28 | Wheelbase                                   |                                      | in (mm)                      | 54.2 (1377)                               |
|             | 29 | Right Angle Stack                           |                                      | in (mm)                      | 139.2 (3536)                              |
|             | 30 | Equal Aisle                                 | 90° Intersecting Aisle               | in (mm)                      | 74.2 (1885)                               |
|             | 31 | Outside Turning Radius                      |                                      | in (mm)                      | 75.4 (1915)                               |
| WT.         | 32 | Truck Weight                                | Without Battery                      | NL                           | lb (kg)                                   |
|             |    |                                             |                                      |                              | 7350 (3334)                               |
|             | 33 | Axle Loading - Drive                        | Static w/ Max. Wt. Battery           | NL/RL                        | lb (kg)                                   |
|             |    |                                             |                                      |                              | 4474/14882 (2029/6750)                    |
| PERFORMANCE | 34 | Axle Loading - Steer                        | Static w/ Max. Wt. Battery           | NL/RL                        | lb (kg)                                   |
|             |    |                                             |                                      |                              | 6769/2361 (3070/1071)                     |
|             |    |                                             |                                      |                              | Standard Performance                      |
|             |    |                                             |                                      |                              | 36                                        |
|             |    |                                             |                                      |                              | 48                                        |
|             |    |                                             |                                      |                              | 48                                        |
|             |    |                                             |                                      |                              | 80                                        |
|             | 36 | Travel Speed                                | Extended Shift OFF                   | NL/RL                        | mph (km/h)                                |
|             |    |                                             | Extended Shift ON                    | NL/RL                        | mph (km/h)                                |
|             | 37 | Lift Speed                                  | Std 2 Stg LFL Mast                   | NL/RL                        | ft/min (m/sec)                            |
|             |    |                                             | Opt 2 Stg FFL Mast                   | NL/RL                        | ft/min (m/sec)                            |
|             |    |                                             | Opt 3 Stg FFL Mast                   | NL/RL                        | ft/min (m/sec)                            |
|             |    |                                             | Opt 4 Stg FFL Mast                   | NL/RL                        | ft/min (m/sec)                            |
|             | 38 | Lower Speed                                 | Std 2 Stg LFL Mast                   | NL/RL                        | ft/min (m/sec)                            |
|             |    |                                             | Opt 2 Stg FFL Mast                   | NL/RL                        | ft/min (m/sec)                            |
|             |    |                                             | Opt 3 Stg FFL Mast                   | NL/RL                        | ft/min (m/sec)                            |
|             |    |                                             | Opt 4 Stg FFL Mast                   | NL/RL                        | ft/min (m/sec)                            |
|             | 39 | Gradeability                                | 5 Minute Rating                      | NL/RL                        | %                                         |
|             |    |                                             | 60 Minute Rating                     | NL/RL                        | %                                         |
|             | 40 | Drawbar Pull                                | 5 Minute Rating                      | NL/RL                        | lbf                                       |
|             |    |                                             | 60 Minute Rating                     | NL/RL                        | lbf                                       |
| ELECTRIC    | 41 | Brake                                       | Method of Control                    | Service/Parking              | Hydraulic / Mechanical                    |
|             |    |                                             | Method of Operation                  | Service/Parking              | Foot / Foot                               |
|             | 42 | Battery                                     | Type                                 |                              | Lead Acid                                 |
|             |    |                                             |                                      |                              | Standard Performance                      |
|             |    |                                             |                                      |                              | 36                                        |
|             |    |                                             |                                      |                              | 48                                        |
|             |    |                                             |                                      |                              | 48                                        |
|             |    |                                             |                                      |                              | 80                                        |
|             | 43 | Traction Motor                              | 60 Minute Rating                     | hp (kW)                      | 24.7 (18.4)                               |
|             | 44 | Pump Motor                                  | 15% Rating                           | hp (kW)                      | 16.6 (12.4)                               |
| OTHER       | 45 | Traction Motor                              | Type/Control Method                  |                              | AC / Transistor                           |
|             | 46 | Pump Motor                                  | Type/Control Method                  |                              | AC / Transistor                           |
|             | 47 | Number of Speeds                            | Traction/Pump                        |                              | Infinitely Variable / Infinitely Variable |
|             | 48 | Step Height                                 |                                      | in (mm)                      | 18.7 (475)                                |
|             | 49 | Floor Height                                | Lowest Point                         | in (mm)                      | 30.4 (772)                                |
|             | 50 | Attachment Relief Pressure                  |                                      | psi (bar)                    | 2250 (155)                                |
|             | 51 | Auxiliary Oil Flow                          | 3rd and 4th Function                 | gal/min (l/min)              | 11 (40)                                   |
|             | 52 | Sound Level                                 | Measured per ANSI B56.11.5           | dB (A)                       | 60                                        |
|             |    |                                             |                                      |                              | 60                                        |
|             |    |                                             |                                      |                              | 65                                        |
|             |    |                                             |                                      |                              | 65                                        |

Above specifications, unless otherwise listed, are for a standard truck without optional equipment.

Right Angle Stack and Equal Intersecting Aisle dimensions provided with a 48" long and 40" wide pallet load, allowing zero clearance.

# E65XN SPECIFICATIONS

|             |          |                                                |                                      |                              |                                           |                                           |                       |                        |                     |
|-------------|----------|------------------------------------------------|--------------------------------------|------------------------------|-------------------------------------------|-------------------------------------------|-----------------------|------------------------|---------------------|
| GENERAL     | 1        | Manufacturer                                   |                                      |                              | Hyster                                    |                                           |                       |                        |                     |
|             | 2        | Model Designation                              |                                      |                              | E65XN                                     |                                           |                       |                        |                     |
|             | 3        | Power                                          |                                      |                              | Electric                                  |                                           |                       |                        |                     |
|             | 4        | Operation                                      |                                      |                              | Sit                                       |                                           |                       |                        |                     |
|             | 5        | Rated Capacity                                 |                                      | lb (kg)                      | 6500 (2948)                               |                                           |                       |                        |                     |
|             | 6        | Load Center                                    |                                      | in (mm)                      | 24 (610)                                  |                                           |                       |                        |                     |
| TIRES       | 7        | Tire Type - Cushion, Solid, Pneumatic, etc.    |                                      | Drive/Steer                  | Cushion / Cushion                         |                                           |                       |                        |                     |
|             | 8        | Tire Size                                      |                                      | Drive/Steer                  | in                                        | 21 x 8 x 15 / 16 x 6 x 10.5               |                       |                        |                     |
|             | 9        | Wheels - Number                                | X=Driven                             | Drive/Steer                  | 2X / 2                                    |                                           |                       |                        |                     |
| DIMENSIONS  | 10       | Tread                                          | Tires                                | Std Dr/Wide Dr/Steer         | in (mm)                                   | 35.6/40.9/36 (905/1039/915)               |                       |                        |                     |
|             | 11       | Mast Tilt                                      |                                      | Std Opt Opt                  | degrees                                   | 5F/5B 10F/5B (5F/4B)                      |                       |                        |                     |
|             | 12       | Mast - Lowered Height                          |                                      | Std Mast                     | in (mm)                                   | 83 (2085)                                 |                       |                        |                     |
|             | 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)                                   | 33/56 (855/1440)                          |                       |                        |                     |
|             | 14       | Lift Height - Top of Fork                      | Std 2 Stg Limited Free Lift Mast     |                              | in (mm)                                   | 118 (3009)                                |                       |                        |                     |
|             | 15       | Mast - Extended Height                         | Std Mast with/without LBR            |                              | in (mm)                                   | 167/144 (4235/3655)                       |                       |                        |                     |
|             | 16       | Overhead Guard Height                          | Std/Drive in Rack/Opt/Opt Flat Plate |                              | in (mm)                                   | 88.5/88.5/86.5/84.1 (2248/2248/2197/2137) |                       |                        |                     |
|             | 17       | SIP to Bottom Std OHG                          | Susp at Mid-Point                    | Std/Susp/Swivel              | in (mm)                                   | 38.3/37.4/37.3 (975/950/948)              |                       |                        |                     |
|             | 18       | Tow Pin Height                                 | Vertical Center of Pin               |                              | in (mm)                                   | 11 (280)                                  |                       |                        |                     |
|             | 19       | Overall Width                                  | Standard Tread/Wide Tread            |                              | in (mm)                                   | 43.6/48.9 (1108/1242)                     |                       |                        |                     |
|             | 20       | Forks                                          | Thickness x Width x Length           |                              | in (mm)                                   | 2 x 4.9 x 42 (50 x 125 x 1067)            |                       |                        |                     |
|             | 21       | Standard Carriage Width                        |                                      | Class III                    | in (mm)                                   | 38.5 (977)                                |                       |                        |                     |
|             | 22       | Floor to Top of Battery Rollers                |                                      |                              | in (mm)                                   | 17.2 (436)                                |                       |                        |                     |
|             | 23       | Ground Clearance                               | Lowest Point                         | NL/RL                        | in (mm)                                   | 3.6/3.3 (91/85)                           |                       |                        |                     |
|             | 24       | Ground Clearance                               | Center of Truck                      | NL/RL                        | in (mm)                                   | 3.7/3.6 (94/92)                           |                       |                        |                     |
|             | 25       | Load Distance                                  | Center of Wheel to Face of Forks     |                              | in (mm)                                   | 15.8 (402)                                |                       |                        |                     |
|             | 26       | Battery Compartment                            | Height                               | Without/With Battery Rollers | in (mm)                                   | 23.9/23.3 (607/593)                       |                       |                        |                     |
|             |          |                                                | Width                                |                              | in (mm)                                   | 39.1 (992)                                |                       |                        |                     |
|             |          |                                                |                                      | Nominal                      | SIZE                                      | 36"                                       |                       | 40"                    |                     |
|             |          |                                                | Length                               | Actual                       | in (mm)                                   | 36.7 (933)                                |                       | 40 (1015)              |                     |
|             | 27       | Length to Face of Forks                        | Chassis Length                       |                              | in (mm)                                   | 90 (2285)                                 |                       | 92.2 (2343)            |                     |
|             | 28       | Wheelbase                                      |                                      |                              | in (mm)                                   | 57.6 (1463)                               |                       | 60.8 (1545)            |                     |
|             | 29       | Right Angle Stack                              |                                      |                              | in (mm)                                   | 142.9 (3629)                              |                       | 145.5 (3695)           |                     |
|             | 30       | Equal Aisle                                    | 90° Intersecting Aisle               |                              | in (mm)                                   | 76.1 (1933)                               |                       | 77 (1956)              |                     |
|             | 31       | Outside Turning Radius                         |                                      |                              | in (mm)                                   | 79.1 (2008)                               |                       | 81.7 (2074)            |                     |
| WT.         | 32       | Truck Weight                                   | Without Battery                      | NL                           | lb (kg)                                   | 7400 (3357)                               |                       | 7040 (3193)            |                     |
|             | 33       | Axle Loading - Drive                           | Static w/ Max. Wt. Battery           | NL/RL                        | lb (kg)                                   | 4640/15635 (2105/7092)                    |                       | 4914/15670 (2229/7108) |                     |
|             | 34       | Axle Loading - Steer                           | Static w/ Max. Wt. Battery           | NL/RL                        | lb (kg)                                   | 6853/2359 (3108/1070)                     |                       | 6514/2258 (2955/1024)  |                     |
|             |          |                                                |                                      |                              |                                           | Standard Performance                      |                       | PowerPlus Performance  |                     |
| PERFORMANCE |          |                                                |                                      | VOLTS                        | 36                                        |                                           | 48                    | 48                     | 80                  |
|             | 36       | Travel Speed                                   | Extended Shift OFF                   | NL/RL                        | mph (km/h)                                | 10.6/9.1 (17/14.6)                        | 11.3/11.3 (18.2/18.2) | 12.3/12.7 (19.8/20.4)  | 12.3/12.4 (19.8/20) |
|             |          |                                                | Extended Shift ON                    | NL/RL                        | mph (km/h)                                | 9.5/8.2 (15.3/13.2)                       | 10.4/9.3 (16.7/15)    | 12.2/12.1 (19.7/19.5)  | 12.2/11.8 (19.7/19) |
|             | 37       | Lift Speed                                     | Std 2 Stg LFL Mast                   | NL/RL                        | ft/min (m/sec)                            | 93/47 (0.47/0.24)                         | 116/63 (0.59/0.32)    | 124/79 (0.63/0.4)      | 124/79 (0.63/0.4)   |
|             |          |                                                | Opt 2 Stg FFL Mast                   | NL/RL                        | ft/min (m/sec)                            | 83/47 (0.42/0.24)                         | 108/63 (0.55/0.32)    | 116/77 (0.59/0.39)     | 116/77 (0.59/0.39)  |
|             |          |                                                | Opt 3 Stg FFL Mast                   | NL/RL                        | ft/min (m/sec)                            | 85/47 (0.43/0.24)                         | 112/63 (0.57/0.32)    | 118/77 (0.6/0.39)      | 118/77 (0.6/0.39)   |
|             |          |                                                | Opt 4 Stg FFL Mast                   | NL/RL                        | ft/min (m/sec)                            | 96/57 (0.49/0.29)                         | 124/75 (0.63/0.38)    | 136/94 (0.69/0.48)     | 136/94 (0.69/0.48)  |
|             | 38       | Lower Speed                                    | Std 2 Stg LFL Mast                   | NL/RL                        | ft/min (m/sec)                            | 91/112 (0.46/0.57)                        |                       |                        |                     |
|             |          |                                                | Opt 2 Stg FFL Mast                   | NL/RL                        | ft/min (m/sec)                            | 73/104 (0.37/0.53)                        |                       |                        |                     |
|             |          |                                                | Opt 3 Stg FFL Mast                   | NL/RL                        | ft/min (m/sec)                            | 79/106 (0.4/0.54)                         |                       |                        |                     |
|             |          |                                                | Opt 4 Stg FFL Mast                   | NL/RL                        | ft/min (m/sec)                            | 77/91 (0.39/0.46)                         |                       |                        |                     |
|             | 39       | Gradeability                                   | 5 Minute Rating                      | NL/RL                        | %                                         | 31/18                                     | 31/19                 | 37/21                  | 37/26               |
|             |          |                                                | 60 Minute Rating                     | NL/RL                        | %                                         | 12/6                                      | 12/7                  | 22/12                  | 28/16               |
|             | 40       | Drawbar Pull                                   | 5 Minute Rating                      | NL/RL                        | lbf                                       | 3335/3107                                 | 3440/3211             | 4084/3791              | 4084/4798           |
|             |          |                                                | 60 Minute Rating                     | NL/RL                        | lbf                                       | 1274/1083                                 | 1360/1167             | 2513/2245              | 3176/2886           |
|             | ELECTRIC | 41                                             | Brake                                | Method of Control            | Service/Parking                           | Hydraulic / Mechanical                    |                       |                        |                     |
|             |          |                                                | Method of Operation                  | Service/Parking              | Foot / Foot                               |                                           |                       |                        |                     |
| 42          |          | Battery                                        | Type                                 |                              | Lead Acid                                 |                                           |                       |                        |                     |
|             |          |                                                |                                      |                              | Standard Performance                      |                                           | PowerPlus Performance |                        |                     |
|             |          |                                                |                                      | VOLTS                        | 36                                        |                                           | 48                    | 48                     | 80                  |
| 43          |          | Traction Motor                                 | 60 Minute Rating                     | hp (kW)                      | 24.7 (18.4)                               | 24.7 (18.4)                               | 31.6 (23.6)           | 31.6 (23.6)            |                     |
| 44          |          | Pump Motor                                     | 15% Rating                           | hp (kW)                      | 16.6 (12.4)                               | 22.4 (16.7)                               | 31.8 (23.7)           | 32.2 (24)              |                     |
| 45          |          | Traction Motor                                 | Type/Control Method                  |                              | AC / Transistor                           |                                           |                       |                        |                     |
| 46          |          | Pump Motor                                     | Type/Control Method                  |                              | AC / Transistor                           |                                           |                       |                        |                     |
| 47          |          | Number of Speeds                               | Traction/Pump                        |                              | Infinitely Variable / Infinitely Variable |                                           |                       |                        |                     |
| OTHER       | 48       | Step Height                                    |                                      | in (mm)                      | 18.7 (475)                                |                                           |                       |                        |                     |
|             | 49       | Floor Height                                   | Lowest Point                         | in (mm)                      | 30.4 (772)                                |                                           |                       |                        |                     |
|             | 50       | Attachment Relief Pressure                     |                                      | psi (bar)                    | 2250 (155)                                |                                           |                       |                        |                     |
|             | 51       | Auxiliary Oil Flow                             | 3rd and 4th Function                 | gal/min (l/min)              | 11 (40)                                   |                                           |                       |                        |                     |
|             | 52       | Sound Level                                    | Measured per ANSI B56.11.5           | dB (A)                       | 60                                        | 60                                        | 65                    | 65                     |                     |

Above specifications, unless otherwise listed, are for a standard truck without optional equipment.

Right Angle Stack and Equal Intersecting Aisle dimensions provided with a 48" long and 40" wide pallet load, allowing zero clearance.

# E70XN SPECIFICATIONS

|             |     |                                             |                                      |                                           |  |  |  |
|-------------|-----|---------------------------------------------|--------------------------------------|-------------------------------------------|--|--|--|
| GENERAL     | 1   | Manufacturer                                |                                      | Hyster                                    |  |  |  |
|             | 2   | Model Designation                           |                                      | E70XN                                     |  |  |  |
|             | 3   | Power                                       |                                      | Electric                                  |  |  |  |
|             | 4   | Operation                                   |                                      | Sit                                       |  |  |  |
|             | 5   | Rated Capacity                              |                                      | 7000 (3175)                               |  |  |  |
|             | 6   | Load Center                                 |                                      | 24 (610)                                  |  |  |  |
| TIRES       | 7   | Tire Type - Cushion, Solid, Pneumatic, etc. |                                      | Cushion / Cushion                         |  |  |  |
|             | 8   | Tire Size                                   |                                      | 21 x 9 x 15 / 16 x 7 x 10.5               |  |  |  |
|             | 9   | Wheels - Number                             | X=Driven                             | 2X / 2                                    |  |  |  |
|             | 10  | Tread                                       | Std Dr/Wide Dr/Steer                 | 36.6/39.9/37 (929/1013/940)               |  |  |  |
|             | 11  | Mast Tilt                                   | Std Opt Opt                          | 5F/5B 10F/5B (5F/4B)                      |  |  |  |
| DIMENSIONS  | 12  | Mast - Lowered Height                       |                                      | 83 (2085)                                 |  |  |  |
|             | 13  | Free Lift - Top of Fork                     | Std 2 Stg Limited Free Lift Mast     | 5 (140)                                   |  |  |  |
|             | 14  | Opt 2 Stg Full Free Lift Mast               | with/without LBR                     | 33/56 (855/1440)                          |  |  |  |
|             | 15  | Lift Height - Top of Fork                   | Std 2 Stg Limited Free Lift Mast     | 118 (3009)                                |  |  |  |
|             | 16  | Mast - Extended Height                      | Std Mast with/without LBR            | 167/144 (4235/3655)                       |  |  |  |
|             | 17  | Overhead Guard Height                       | Std/Drive in Rack/Opt/Opt Flat Plate | 88.5/88.5/86.5/84.1 (2248/2248/2197/2137) |  |  |  |
|             | 18  | SIP to Bottom Std OHG                       | Susp at Mid-Point Std/Susp/Swivel    | 38.3/37.4/37.3 (975/950/948)              |  |  |  |
|             | 19  | Tow Pin Height                              | Vertical Center of Pin               | 11 (280)                                  |  |  |  |
|             | 20  | Overall Width                               | Standard Tread/Wide Tread            | 45.6/48.9 (1158/1242)                     |  |  |  |
|             | 21  | Forks                                       | Thickness x Width x Length           | 2 x 4.9 x 42 (50 x 125 x 1067)            |  |  |  |
|             | 22  | Standard Carriage Width                     | Class III                            | 38.5 (977)                                |  |  |  |
|             | 23  | Floor to Top of Battery Rollers             |                                      | 17.2 (436)                                |  |  |  |
|             | 24  | Ground Clearance                            | Lowest Point                         | 3.6/3.3 (91/85)                           |  |  |  |
|             | 25  | Ground Clearance                            | Center of Truck                      | 3.7/3.6 (94/92)                           |  |  |  |
|             | 26  | Load Distance                               | Center of Wheel to Face of Forks     | 15.8 (402)                                |  |  |  |
|             | 27  | Battery Compartment                         | Height Without/With Battery Rollers  | 23.9/23.3 (607/593)                       |  |  |  |
|             | 28  |                                             | Width                                | 39.1 (992)                                |  |  |  |
|             | 29  |                                             | Nominal                              | 40"                                       |  |  |  |
|             | 30  |                                             | Length                               | 40 (1015)                                 |  |  |  |
|             | 31  | Length to Face of Forks                     | Chassis Length                       | 93.1 (2367)                               |  |  |  |
|             | 32  | Wheelbase                                   |                                      | 60.8 (1545)                               |  |  |  |
|             | 33  | Right Angle Stack                           |                                      | 146.3 (3715)                              |  |  |  |
|             | 34  | Equal Aisle                                 | 90° Intersecting Aisle               | 77.4 (1965)                               |  |  |  |
|             | 35  | Outside Turning Radius                      |                                      | 82.4 (2094)                               |  |  |  |
| WT.         | 36  | Truck Weight                                | Without Battery                      | 7500 (3402)                               |  |  |  |
|             | 37  | Axle Loading - Drive                        | Static w/ Max. Wt. Battery           | 4868/16451 (2208/7462)                    |  |  |  |
|             | 38  | Axle Loading - Steer                        | Static w/ Max. Wt. Battery           | 7022/2439 (3185/1106)                     |  |  |  |
|             | 39  |                                             |                                      |                                           |  |  |  |
| PERFORMANCE | 40  |                                             |                                      | Standard Performance                      |  |  |  |
|             | 41  |                                             |                                      | PowerPlus Performance                     |  |  |  |
|             | 42  |                                             |                                      | VOLTS                                     |  |  |  |
|             | 43  |                                             |                                      | 36                                        |  |  |  |
|             | 44  |                                             |                                      | 48                                        |  |  |  |
|             | 45  |                                             |                                      | 48                                        |  |  |  |
|             | 46  |                                             |                                      | 80                                        |  |  |  |
|             | 47  | Travel Speed                                | Extended Shift OFF                   | 10.6/9 (17/14.5)                          |  |  |  |
|             | 48  |                                             | Extended Shift ON                    | 11.3/11.3 (18.2/18.2)                     |  |  |  |
|             | 49  | Lift Speed                                  | Std 2 Stg LFL Mast                   | 12.3/12.6 (19.8/20.3)                     |  |  |  |
|             | 50  |                                             | Opt 2 Stg FFL Mast                   | 12.3/12.3 (19.8/19.8)                     |  |  |  |
|             | 51  |                                             | Opt 3 Stg FFL Mast                   | 12.2/12.1 (19.7/19.4)                     |  |  |  |
|             | 52  |                                             | Opt 4 Stg FFL Mast                   | 12.2/11.9 (19.7/19.1)                     |  |  |  |
|             | 53  | Lower Speed                                 | Std 2 Stg LFL Mast                   | 93/45 (0.47/0.23)                         |  |  |  |
|             | 54  |                                             | Opt 2 Stg FFL Mast                   | 116/61 (0.59/0.31)                        |  |  |  |
| ELECTRIC    | 55  |                                             |                                      | 124/73 (0.63/0.37)                        |  |  |  |
|             | 56  |                                             |                                      | 116/73 (0.59/0.37)                        |  |  |  |
|             | 57  |                                             |                                      | 118/73 (0.6/0.37)                         |  |  |  |
|             | 58  |                                             |                                      | 118/73 (0.6/0.37)                         |  |  |  |
|             | 59  |                                             |                                      | 96/57 (0.49/0.29)                         |  |  |  |
|             | 60  |                                             |                                      | 124/75 (0.63/0.38)                        |  |  |  |
|             | 61  |                                             |                                      | 136/94 (0.69/0.48)                        |  |  |  |
|             | 62  |                                             |                                      | 91/114 (0.46/0.58)                        |  |  |  |
|             | 63  |                                             |                                      | 73/106 (0.37/0.54)                        |  |  |  |
|             | 64  |                                             |                                      | 79/0.5 (0.4/0.56)                         |  |  |  |
| OTHER       | 65  |                                             |                                      | 77/91 (0.39/0.46)                         |  |  |  |
|             | 66  | Gradeability                                | 5 Minute Rating                      | 29/17                                     |  |  |  |
|             | 67  |                                             | 60 Minute Rating                     | 29/18                                     |  |  |  |
|             | 68  | Drawbar Pull                                | 5 Minute Rating                      | 36/19                                     |  |  |  |
|             | 69  |                                             | 60 Minute Rating                     | 37/25                                     |  |  |  |
|             | 70  |                                             |                                      | 10/6                                      |  |  |  |
|             | 71  |                                             |                                      | 11/6                                      |  |  |  |
|             | 72  |                                             |                                      | 21/11                                     |  |  |  |
|             | 73  |                                             |                                      | 27/14                                     |  |  |  |
|             | 74  |                                             |                                      | 3329/3089                                 |  |  |  |
| ELECTRIC    | 75  |                                             |                                      | 3428/3201                                 |  |  |  |
|             | 76  |                                             |                                      | 4101/3744                                 |  |  |  |
|             | 77  |                                             |                                      | 4193/4745                                 |  |  |  |
|             | 78  |                                             |                                      | 1269/1072                                 |  |  |  |
|             | 79  |                                             |                                      | 1355/1149                                 |  |  |  |
|             | 80  |                                             |                                      | 2502/2204                                 |  |  |  |
|             | 81  |                                             |                                      | 3165/2842                                 |  |  |  |
|             | 82  | Brake                                       | Method of Control                    | Hydraulic / Mechanical                    |  |  |  |
|             | 83  |                                             | Method of Operation                  | Foot / Foot                               |  |  |  |
|             | 84  | Battery                                     | Type                                 | Lead Acid                                 |  |  |  |
| ELECTRIC    | 85  |                                             |                                      | Standard Performance                      |  |  |  |
|             | 86  |                                             |                                      | PowerPlus Performance                     |  |  |  |
|             | 87  |                                             |                                      | VOLTS                                     |  |  |  |
|             | 88  |                                             |                                      | 36                                        |  |  |  |
|             | 89  |                                             |                                      | 48                                        |  |  |  |
|             | 90  |                                             |                                      | 48                                        |  |  |  |
|             | 91  |                                             |                                      | 80                                        |  |  |  |
|             | 92  | Traction Motor                              | 60 Minute Rating                     | 24.7 (18.4)                               |  |  |  |
|             | 93  | Pump Motor                                  | 15% Rating                           | 31.6 (23.6)                               |  |  |  |
|             | 94  |                                             |                                      | 32.2 (24)                                 |  |  |  |
| OTHER       | 95  | Traction Motor                              | Type/Control Method                  | AC / Transistor                           |  |  |  |
|             | 96  | Pump Motor                                  | Type/Control Method                  | AC / Transistor                           |  |  |  |
|             | 97  | Number of Speeds                            | Traction/Pump                        | Infinitely Variable / Infinitely Variable |  |  |  |
|             | 98  | Step Height                                 |                                      | 18.7 (475)                                |  |  |  |
|             | 99  | Floor Height                                | Lowest Point                         | 30.4 (772)                                |  |  |  |
|             | 100 | Attachment Relief Pressure                  |                                      | 2250 (155)                                |  |  |  |
|             | 101 | Auxiliary Oil Flow                          | 3rd and 4th Function                 | 11 (40)                                   |  |  |  |
|             | 102 | Sound Level                                 | Measured per ANSI B56.11.5           | 60                                        |  |  |  |
|             | 103 |                                             |                                      | 60                                        |  |  |  |
|             | 104 |                                             |                                      | 65                                        |  |  |  |

Above specifications, unless otherwise listed, are for a standard truck without optional equipment.

Right Angle Stack and Equal Intersecting Aisle dimensions provided with a 48" long and 40" wide pallet load, allowing zero clearance.

## E45-55XN MAST DIMENSIONS

| Maximum Fork Height (TOF)                              | Overall Lowered Height | Overall Extended Height |                   | Free Lift (TOF)  |                   | Approx. Total Wt. of Standard Equipped Truck w/o Battery |             |             |
|--------------------------------------------------------|------------------------|-------------------------|-------------------|------------------|-------------------|----------------------------------------------------------|-------------|-------------|
|                                                        |                        | w/ Load Backrest        | w/o Load Backrest | w/ Load Backrest | w/o Load Backrest | E45XN                                                    | E50XN       | E55XN       |
| in (mm)                                                | in (mm)                | in (mm)                 | in (mm)           | in (mm)          | in (mm)           | lbs (kg)                                                 | lbs (kg)    | lbs (kg)    |
| <b>2-STAGE LIMITED FREE LIFT (LFL) VISTA®PLUS MAST</b> |                        |                         |                   |                  |                   |                                                          |             |             |
| 125 (3192)                                             | 83 (2085)              | 174 (4415)              | 147 (3749)        | 5 (140)          | 5 (140)           | 6860 (3112)                                              | 7270 (3298) | 6950 (3152) |
| 133 (3392)                                             | 86 (2185)              | 182 (4615)              | 155 (3949)        | 5 (140)          | 5 (140)           | 7060 (3202)                                              | 7470 (3388) | 7150 (3243) |
| 137 (3492)                                             | 88 (2235)              | 186 (4715)              | 159 (4049)        | 5 (140)          | 5 (140)           | 7160 (3248)                                              | 7570 (3434) | 7250 (3289) |
| <b>2-STAGE FULL FREE LIFT (FFL) VISTA® MAST</b>        |                        |                         |                   |                  |                   |                                                          |             |             |
| 126 (3202)                                             | 83 (2085)              | 175 (4425)              | 148 (3759)        | 33 (862)         | 60 (1528)         | 6960 (3157)                                              | 7370 (3343) | 7050 (3198) |
| 133 (3402)                                             | 86 (2185)              | 183 (4625)              | 155 (3959)        | 37 (964)         | 64 (1628)         | 7160 (3248)                                              | 7570 (3434) | 7250 (3289) |
| 137 (3502)                                             | 88 (2235)              | 186 (4725)              | 159 (4059)        | 39 (1012)        | 66 (1678)         | 7260 (3293)                                              | 7670 (3479) | 7350 (3334) |
| <b>3-STAGE FULL FREE LIFT (FFL) VISTA®PLUS MAST</b>    |                        |                         |                   |                  |                   |                                                          |             |             |
| 189 (4800)                                             | 83 (2085)              | 238 (6023)              | 210 (5399)        | 33 (862)         | 60 (1546)         | 7460 (3384)                                              | 7870 (3570) | 7550 (3425) |
| 194 (4950)                                             | 85 (2135)              | 243 (6173)              | 216 (5489)        | 36 (917)         | 62 (1596)         | 7480 (3393)                                              | 7890 (3579) | 7570 (3434) |
| 200 (5100)                                             | 88 (2235)              | 249 (6323)              | 222 (5639)        | 39 (1012)        | 66 (1696)         | 7530 (3416)                                              | 7940 (3602) | 7620 (3456) |
| 218 (5550)                                             | 94 (2385)              | 267 (6773)              | 239 (6089)        | 45 (1162)        | 72 (1846)         | 7610 (3452)                                              | 8020 (3638) | 7700 (3493) |
| 236 (6000)                                             | 102 (2585)             | 285 (7223)              | 257 (6539)        | 53 (1362)        | 80 (2046)         | 7690 (3488)                                              | 8100 (3674) | 7780 (3529) |
| <b>4-STAGE FULL FREE LIFT (FFL) VISTA® MAST</b>        |                        |                         |                   |                  |                   |                                                          |             |             |
| 240 (6098)                                             | 84 (2133)              | 289 (7321)              | 263 (6678)        | 35 (910)         | 61 (1553)         | 8000 (3629)                                              | 8410 (3815) | 8090 (3670) |
| 252 (6404)                                             | 88 (2235)              | 301 (7627)              | 275 (6984)        | 39 (1012)        | 65 (1655)         | 8070 (3660)                                              | 8480 (3846) | 8160 (3701) |
| 264 (6710)                                             | 92 (2336)              | 313 (7933)              | 287 (7290)        | 43 (1113)        | 69 (1756)         | 8140 (3692)                                              | 8550 (3878) | 8230 (3733) |

## E60-70XN MAST DIMENSIONS

| Maximum Fork Height (TOF)                              | Overall Lowered Height | Overall Extended Height |                   | Free Lift (TOF)  |                   | Approx. Total Wt. of Standard Equipped Truck w/o Battery |             |             |
|--------------------------------------------------------|------------------------|-------------------------|-------------------|------------------|-------------------|----------------------------------------------------------|-------------|-------------|
|                                                        |                        | w/ Load Backrest        | w/o Load Backrest | w/ Load Backrest | w/o Load Backrest | E60XN                                                    | E65XN       | E70XN       |
| in (mm)                                                | in (mm)                | in (mm)                 | in (mm)           | in (mm)          | in (mm)           | lbs (kg)                                                 | lbs (kg)    | lbs (kg)    |
| <b>2-STAGE LIMITED FREE LIFT (LFL) VISTA®PLUS MAST</b> |                        |                         |                   |                  |                   |                                                          |             |             |
| 118 (3009)                                             | 83 (2085)              | 167 (4237)              | 143 (3654)        | 5 (150)          | 5 (150)           | 7570 (3434)                                              | 7750 (3515) | 7850 (3561) |
| 126 (3209)                                             | 86 (2185)              | 175 (4437)              | 151 (3854)        | 5 (150)          | 5 (150)           | 7640 (3465)                                              | 7820 (3547) | 7920 (3592) |
| 130 (3309)                                             | 88 (2235)              | 179 (4537)              | 155 (3954)        | 5 (150)          | 5 (150)           | 7720 (3502)                                              | 7900 (3583) | 8000 (3629) |
| <b>2-STAGE FULL FREE LIFT (FFL) VISTA® MAST</b>        |                        |                         |                   |                  |                   |                                                          |             |             |
| 118 (3010)                                             | 83 (2085)              | 167 (4237)              | 144 (3655)        | 33 (857)         | 56 (1440)         | 7630 (3461)                                              | 7810 (3543) | 7910 (3588) |
| 126 (3210)                                             | 86 (2185)              | 175 (4437)              | 151 (3855)        | 37 (957)         | 60 (1540)         | 7670 (3479)                                              | 7850 (3561) | 7950 (3606) |
| 130 (3310)                                             | 88 (2235)              | 179 (4537)              | 155 (3955)        | 39 (1007)        | 62 (1590)         | 7810 (3543)                                              | 7990 (3624) | 8090 (3670) |
| <b>3-STAGE FULL FREE LIFT (FFL) VISTA®PLUS MAST</b>    |                        |                         |                   |                  |                   |                                                          |             |             |
| 175 (4468)                                             | 83 (2085)              | 225 (5696)              | 200 (5095)        | 33 (857)         | 57 (1458)         | 8050 (3651)                                              | 8230 (3733) | 8330 (3778) |
| 181 (4618)                                             | 85 (2135)              | 231 (5846)              | 206 (5245)        | 35 (907)         | 59 (1508)         | 8150 (3697)                                              | 8330 (3778) | 8430 (3824) |
| 187 (4768)                                             | 88 (2235)              | 237 (5996)              | 212 (5395)        | 39 (1007)        | 63 (1608)         | 8240 (3738)                                              | 8420 (3819) | 8520 (3865) |
| 205 (5218)                                             | 94 (2385)              | 254 (6446)              | 230 (5845)        | 45 (1157)        | 69 (1758)         | 8310 (3769)                                              | 8490 (3851) | 8590 (3896) |
| 223 (5668)                                             | 102 (2585)             | 272 (6896)              | 248 (6295)        | 53 (1357)        | 77 (1958)         | 8410 (3815)                                              | 8590 (3896) | 8690 (3942) |
| <b>4-STAGE FULL FREE LIFT (FFL) VISTA® MAST</b>        |                        |                         |                   |                  |                   |                                                          |             |             |
| 240 (6098)                                             | 84 (2133)              | 289 (7321)              | 263 (6678)        | 35 (910)         | 61 (1553)         | 8510 (3860)                                              | 8690 (3942) | 8790 (3987) |
| 252 (6404)                                             | 88 (2235)              | 301 (7627)              | 275 (6984)        | 39 (1012)        | 65 (1655)         | 8580 (3892)                                              | 8760 (3973) | 8860 (4019) |
| 264 (6710)                                             | 92 (2336)              | 313 (7933)              | 287 (7290)        | 43 (1113)        | 69 (1756)         | 8650 (3924)                                              | 8830 (4005) | 8930 (4051) |

## ➤ E45-70XN BATTERY SPECIFICATIONS

| BATTERY AND COMPARTMENT SPECIFICATIONS |            |            |            |            |             |            |       |              |                             |             |             |
|----------------------------------------|------------|------------|------------|------------|-------------|------------|-------|--------------|-----------------------------|-------------|-------------|
| Truck Model                            | Width      | Length     | Height     | "X"        | "Y"         | "Z"        | Volts | No. of Cells | Max Capacity<br>6 Hour Rate | Weight      |             |
|                                        |            |            |            |            |             |            |       |              |                             | Min         | Max         |
|                                        | in (mm)    |            |            |            |             |            |       |              | amp hr (kwh)                | lb (kg)     |             |
| E45-50XN<br>27" Compartment            | 39.1 (992) | 27.6 (700) | 23.9 (607) | 38.7 (983) | 27.2 (691)  | 23.5 (597) | 36    | 18           | 1100 (38.3)                 | 2300 (1050) | 3300 (1500) |
|                                        |            |            |            |            |             |            | 48    | 24           | 800 (37.2)                  |             |             |
|                                        |            |            |            |            |             |            | 80    | 40           | 375 (29.3)                  |             |             |
| E45-50XN<br>30" Compartment            | 39.1 (992) | 30.9 (786) | 23.9 (607) | 38.7 (983) | 30.6 (777)  | 23.5 (597) | 36    | 18           | 1200 (41.9)                 | 2500 (1150) | 3500 (1600) |
|                                        |            |            |            |            |             |            | 48    | 24           | 900 (42)                    |             |             |
|                                        |            |            |            |            |             |            | 80    | 40           | 400 (31.2)                  |             |             |
| E45-60XN<br>33" Compartment            | 39.1 (992) | 33.3 (847) | 23.9 (607) | 38.7 (983) | 33 (838)    | 23.5 (597) | 36    | 18           | 1300 (45.4)                 | 2900 (1320) | 3900 (1770) |
|                                        |            |            |            |            |             |            | 48    | 24           | 1000 (46.6)                 |             |             |
|                                        |            |            |            |            |             |            | 80    | 40           | 450 (35.1)                  |             |             |
| E65XN<br>36" Compartment               | 39.1 (992) | 36.7 (933) | 23.9 (607) | 38.7 (983) | 36.4 (924)  | 23.5 (597) | 36    | 18           | 1500 (52.4)                 | 3100 (1410) | 4100 (1860) |
|                                        |            |            |            |            |             |            | 48    | 24           | 1100 (51.1)                 |             |             |
|                                        |            |            |            |            |             |            | 80    | 40           | 600 (46.8)                  |             |             |
| E65-70XN<br>40" Compartment            | 39.1 (992) | 40 (1015)  | 23.9 (607) | 38.7 (983) | 39.6 (1006) | 23.5 (597) | 36    | 18           | 1600 (55.8)                 | 3400 (1550) | 4400 (2000) |
|                                        |            |            |            |            |             |            | 48    | 24           | 1200 (55.9)                 |             |             |
|                                        |            |            |            |            |             |            | 80    | 40           | 600 (46.8)                  |             |             |

Battery Type: "EO" (Without Cover)

Battery amp hr (kwh) capacity is max allowable per UL

Commercially available lead acid batteries may not necessarily reach these max limits

Battery Roller option reduces battery compartment height to 23.3" (593mm) & max battery height to 23.0" (583mm)

Battery Compartment Length is measured front to rear. Battery Compartment Width is measured across the truck.

### Battery Notes - Conventional Charging (Opt G26201)

Battery Connector: 36 volt - Gray SB®350 (Anderson Power Products® P/N 6320G1 or equivalent)

48 volt - Blue SB®350 (Anderson Power Products® P/N 6321G1 or equivalent)

80 volt - Black SBE®320 (Anderson Power Products® P/N E6363G1 or equivalent)

Battery Lead: Length 20" (508 mm), Position "B", 2/0 AWG

### Battery Notes - Rapid/Fast Charging (Opt G26202)

NOTE: A Site Survey is required to confirm your application is a candidate for Rapid Charge and to determine the Battery and Charger specifications required. Contact your Battery and Charger Supplier.

Battery Connector: Requires Dual Positive/Negative Cabling terminating in (2) Female EBC-320 DIN Connectors (Anderson Power Products® P/N A32503-0009 or equivalent)

Each individual DIN connector to include 1 Red Conductor to (+) and 1 black conductor to (-)

Battery Lead: Length 25" (635 mm), Position "B", Minimum Cable Size 3/0 AWG

## STANDARD EQUIPMENT

- 2-stage limited free lift (LFL) VISTA®PLUS mast\* with maximum fork height of 125" (3192mm) (E45-55XN) or 118" (4800mm) (E60-70XN)
- 5° forward and 5° back mast tilt
- 38.5" (980mm) wide Class II (E45-55XN) or Class III (E60-70XN) hook-type carriage with 38.5" (980 mm) high load backrest extension
- 42" (1067mm) long forks
- Smooth tread rubber drive tire and steer tire
- Battery compartment size
  - 27" (E45-50XN)
  - 33" (E55-60XN)
  - 36" (E65XN)
  - 40" (E70XN)
- Lift out battery extraction
- 36-volt electrical system
- Standard performance
- Standard construction
- UL Classification Type "E"
- 12" steering wheel with integral spinner knob
- Non-suspension vinyl seat
- Black, non-cinch seat belt with Emergency Locking Retractor
- Foot applied / hand released park brake
- Key switch start
- 88.5" grid style overhead guard
- MONOTROL® foot direction control
- 3-function hydraulic control valve with seatside mechanical levers
- AC traction and pump motors (completely brushless)
- Transistor drive and pump control
- Advanced VSM (vehicle system manager)
- Progressive thermal management system
- Fully integrated CANbus communication
- On-demand power steering
- Hyster Stability System (HSS®)
- Power assist braking
- Auto Deceleration System (ADS) with regenerative braking
- Multifunction display
  - Battery state of charge with low battery lift interrupt
  - Hour meter
  - Performance mode indicator
  - Fault indicator
  - 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
- Cushioned floormat
- Static strap
- Tow pin
- Seatside power disconnect button
- On-board software: program, test & diagnose; password protected
- Electronic horn with integral relay (long life / no adjustments)
- 24 month / 4,000 hour powertrain warranty
- 12 month / 2,000 hour full truck warranty
- Operating manual

## OPTIONAL EQUIPMENT

- Side extraction battery removal with rollers
- 48 or 80-volt electrical system
- PowerPlus Performance (N/A with 36-volt)
- Rapid / fast charge
- Cooler/freezer package—operating temp: -20°F to +120°F
- UL Classification Type "EE"
- 2-stage full free lift (FFL) VISTA® mast\*
- 3-stage full free lift (FFL) VISTA®PLUS mast\*
- 4-stage full free lift (FFL) VISTA® mast\*
- Carriage with integral sideshift
- Carriage with integral sideshifting fork positioner
- Attachment carriages
- Mast tilt option – 10° forward / 5° back
- Mast tilt option – 5° forward / 4° back
- Return to set tilt
- Accumulator
- TouchPoint electro-hydraulic mini-lever controls with fully adjustable armrest
- 4-function hydraulic control valve
- Non-marking, rubber, or lug tread tires
- Wide tread tires
- Non-suspension seat (cloth)
- Full-suspension seat (vinyl or cloth)
- Full-suspension swivel seat (vinyl or cloth)
- 86.5" grid style overhead guard
- 84.1" flat plate overhead guard
- 88.5" drive-in rack grid style overhead guard
- Keyless start (with auxiliary key switch)
- Seatside directional control
- Automatic electro-mechanical park brake
- Telescopic steering column with tilt memory
- LED and halogen work light packages
- LED dome / reading light
- Basic & premium LED brake/tail/back-up light packages
- Key switch controlled lights
- Audible alarm – reverse operation (manually adjustable to 87, 97 or 102 dB)
- Visible amber strobe light - continuous activated, overhead guard mounted
- Rear drive handle with integrated horn button
- Mirrors – rear view or panoramic
- Load weight indicator
- Impact monitor
- Operator password
- Operator daily checklist
- System monitor – hydraulic low fluid level indicator and hydraulic filter service indicator
- Hydraulic attachment extension tubes with quick disconnect fittings
- Fire extinguisher – 2.5 lb. dry chemical
- Synchronous steering
- Red, high-visibility, non-cinch seat belt with or without start interlock
- Low mount display



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Part No. E45-70XN/TG  
10/2017 Litho in U.S.A.

Visit us online at [www.hyster.com](http://www.hyster.com) or call us at **1-800-HYSTER-1**.

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*CERTIFICATION: Hyster 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. Certification of compliance with the applicable ANSI standards appears on the lift truck. Performance specifications/ratings are for truck equipped as described under Standard Equipment in this technical guide. Performance specifications are affected by the condition of the vehicle and how it is equipped, as well as by the nature and condition of the operating area. Specifications are subject to change and the proposed application should be discussed with your authorized Hyster Company dealer.*