

# HIGH-CAPACITY ELECTRIC CUSHION



15000 - 40000 LBS.

SPECIFICATIONS



THDE1500-4000-24 | THDE3000-4000-30

CLASS

1

ELECTRIC MOTOR RIDERS

[ToyotaForklift.com](http://ToyotaForklift.com)

## HIGH-CAPACITY ELECTRIC CUSHION

**CAPACITY**  
15000 - 40000 LBS.

**WHEELBASE**  
75 - 92 IN.

**LOAD CENTER**  
24 - 30 IN.

### INDUSTRIES



Factory



Beverage



Food Processing



Food Storage



General Manufacturing



Retail

## STANDARD FEATURES

### DURABILITY

- Heavy duty planetary drive axle provides extended service life and reduced maintenance
- Heavy duty mast rails provide superior capacity retention
- Large drum-type brakes
- High visibility carriage with integral side thrust rollers
- 72/80 volt electrical system
- 2 stage wide visible mast (V)
- Rigidly constructed, welded frame
- Hook-type forks

### SUPPORT

- Electrical horn
- Bolt-on overhead guard
- Operator Restraint System seat
- Orange forks
- Operator Presence Sensing System (OPSS)

### PERFORMANCE

- Drive and pump motors digitally controlled by AC inverter with regenerative braking and CAN-bus interface
- Load sensing, on-demand hydraulic system
- 2-function hydraulic control valve (lift/tilt)
- Full hydraulic power steering
- Tilt lock valve only allows the tilt function to operate when the truck is running
- Flow limiters in the cylinders provide controlled lowering in the event of sudden loss of pressure
- Dual brake pedals
- 7" touch-screen multi-function display
- Battery Discharge Indicator
- Hour meter
- Drive/pump motor indicators
- Inverter temperature indicators
- Estimated load weight indicator
- Service and operator manuals
- Pre-operation checklist (upon request)<sup>1</sup>
- Pin code entry system

### ERGONOMICS

- Mast mounted LED Headlights (2)
- LED rear combination lights (2)
- Fully sealed headlights and auxiliary lights
- Fingertip hydraulic controls
- Tilt steering column
- Hood mounted clipboard and cup holder
- Left-hand shift lever
- Long operator assist grips
- Vinyl adjustable semi-suspension seat
- Hand-actuated disc type parking brake
- Low-height non-skid steps
- Padded floor cover
- Rubber mounted cab, isolated from frame to reduce noise and vibration
- 12V power inverter

### SERVICEABILITY

- Hydraulic pump, hoses, tubes, and wiring harness are accessible and easy to inspect
- Easy access pump motor
- Easy access filters
- Hydraulic multi-gauge
- Wire harness loom
- Flip-open hood
- Drive motor easily accessible through removal of 4 bolts in the floor plate
- Hinged side door panel provides easy access to components

<sup>1</sup> Consult your local, authorized Toyota Dealer for customization options and pricing.

## OPTIONAL EQUIPMENT

### MASTS

- Wide Visible Mast (V)
- Full-Free Lift Two-Stage Mast (FV)
- Full-Free Lift Three-Stage Mast (FSV)

### TIRE

- Poly Drive Tires
- Grooved Poly Drive Tires

### CHASSIS OPTIONS

- Bellypan
- Anti-Static Straps

### CARRIAGE

- Carriage Bumper Blocks
- Class IV Carriage
- Class V Carriage
- Pin-Type Carriage
- Integral Side Shifting Fork Positioner
- Hang-on Fork Positioner

- Hang-on Side Shifting Fork Positioner
- Hang-on Sideshifter, Class IV
- Hang-on Sideshifter, Class V
- Tilt Control (Forward)
- Tilt Control (Rearward)
- Tilt Control (Forward & Rearward)

- Tilt Level Indicator
- Forks (Standard Taper)
- Coil Contour Forks
- Polypad, Forks

### CABIN/OVERHEAD GUARD

- Operator Compartment Fan
- Lexan, Front
- Lexan, Top

- Cloth Semi-Suspension Seat
- Air Ride Seat
- Orange Seatbelt

- Steering Wheel w/ Knob
- Rear View Mirrors

### BATTERY

- Battery Compartment, Top Cover
- Battery Compartment, Lock Bars
- Battery Compartment, Sliding Door
- Battery Compartment, Slides
- Battery Compartment, Roller Plate

- Battery Compartment, Tray
- Battery Connector, SB Blue
- Battery Connector, SB Green
- Battery Connector, SBX Gray
- Battery Connector, SBX Blue

- Battery Connector, SBX Green
- Battery Connector, Euro
- Battery Discharge Indicator/Hour meter w/ Interrupt

### LIGHTS/ALARMS

- Amber Strobe Light
- Blue Strobe Light
- Red Strobe Light
- Clear Strobe Light
- Amber Strobe Light (Additional)
- Blue Strobe Light (Additional)
- Red Strobe Light (Additional)
- Clear Strobe Light (Additional)

- Strobe Light Guard
- Forward Facing Blue Light\*
- Rear Facing Blue Light\*
- Forward & Rear Facing Blue Light\*
- Forward Facing Red Light\*
- Rear Facing Red Light\*
- Forward & Rear Facing Red Light\*
- Side Mount 'Red Zone' Pedestrian Light

- Turn Signal Light Kit
- Single Forward Facing LED Worklight (Additional)
- Single Rear Facing LED Worklight
- Extra Work Lights- LED Forward Facing (pair)
- Extra Work Lights- LED Rearward Facing (pair)

### HYDRAULIC

- Low Nitrogen Warning System, Steer/Brake Accumulator

- Lift Accumulator

- Tilt Accumulator

### INDICATORS & MISC.

- Rear Pillar Assist Grip w/ Horn Button
- Forward Camera System Visibility Aid
- Rear Camera System Visibility Aid

- Dual Camera System Visibility Aid
- Overload Warning System
- 5 lb. Fire Extinguisher

- Back-up alarm

\* Key Switch Activated.  
Not all options are available together or available on all models.  
Please contact your local, authorized Toyota Dealer for a complete list of available options.

# HIGH-CAPACITY ELECTRIC CUSHION

## TRUCK SPECIFICATIONS

### MODEL NUMBERS

| GENERAL DATA   |                                 |                           |              | THDE1500-24                               | THDE1800-24                               | THDE2000-24                               | THDE2200-24                               |
|--|---------------------------------|---------------------------|--------------|---|---|---|---|
| Load Capacity  | lb (kg)                         |                           |              | 15000 (6804)                              | 18000 (8165)                              | 20000 (9072)                              | 22000 (9979)                              |
| Load Center  | in (mm)                         |                           |              | 24 (610)                                  | 24 (610)                                  | 24 (610)                                  | 24 (610)                                  |
| Power Type   |                                 |                           |              | Battery                                   | Battery                                   | Battery                                   | Battery                                   |
| Operator Position  |                                 |                           |              | Seated Rider / Center Seat                | Seated Rider / Center Seat                | Seated Rider / Center Rider               | Seated Rider / Center Seat                |
| Tire Type  | Front/Rear                      |                           |              | Cushion / Cushion                         | Cushion / Cushion                         | Cushion / Cushion                         | Cushion / Cushion                         |
| Wheels (x = driven)  | Front / Rear                    |                           |              | 2x/2                                      | 2x/2                                      | 2x/2                                      | 2x/2                                      |
| EXTERIOR DIMENSIONS  |                                 |                           |              | THDE1500-24                               | THDE1800-24                               | THDE2000-24                               | THDE2200-24                               |
| <b>A</b> Maximum Fork Height (top of forks)                                | in (mm)                         |                           |              | 118.40 (3007.4)                           | 118.40 (3007.4)                           | 98.82 (2510.0)                            | 98.82 (2510.0)                            |
| <b>B</b> Free Lift (top of forks)  | in (mm)                         |                           |              | 0 (0)                                     | 0 (0)                                     | 0 (0)                                     | 0 (0)                                     |
| <b>C</b> Fork Size (T x W x L)   | in (mm)                         |                           |              | 2.50 (63.5) x<br>6.00 (152.4) x 48 (1219) | 2.50 (63.5) x<br>6.00 (152.4) x 48 (1219) | 3.00 (76.2) x<br>7.00 (177.8) x 48 (1219) | 3.00 (76.2) x<br>7.00 (177.8) x 48 (1219) |
| <b>D</b> Fork Spread Max. / Min. (outer edge to edge) <sup>1</sup>         | in (mm)                         |                           |              | 48.52 (1232.4) / 13.09 (332.4)            | 49.31 (1252.4) / 14.66 (372.4)            | 50.31 (1277.9) / 15.66 (397.8)            | 50.31 (1277.9) / 15.66 (397.8)            |
| <b>E</b> Tilt Range (forward / backward)                                   | deg                             |                           |              | 6/8                                       | 6/8                                       | 6/8                                       | 6/8                                       |
| <b>F</b> Length to Fork Face   | in (mm)                         |                           |              | 125.93 (3198.6)                           | 128.86 (3273.0)                           | 129.72 (3294.9)                           | 129.72 (3294.9)                           |
| <b>G</b> Overall Width   | in (mm)                         |                           |              | 62.99 (1600.0)                            | 62.99 (1600.0)                            | 62.99 (3294.9)                            | 62.99 (1600.0)                            |
| <b>H</b> Mast Lowered Height   | in (mm)                         |                           |              | 98.00 (2489.2)                            | 98.00 (2489.2)                            | 98.00 (2489.0)                            | 98.00 (2489.2)                            |
| <b>I</b> Mast Extended Height (top of load backrest)                       | in (mm)                         |                           |              | 166.03 (4217.2)                           | 166.03 (4217.2)                           | 156.13 (3965.7)                           | 156.13 (3965.7)                           |
| <b>J</b> Overhead Guard Height   | in (mm)                         |                           |              | 93.57 (2376.7)                            | 93.57 (2376.7)                            | 93.57 (2376.7)                            | 93.57 (2376.7)                            |
| <b>K</b> Turning Radius (outside)  | in (mm)                         |                           |              | 109.87 (2790.7)                           | 114.26 (2902.2)                           | 114.26 (2902.2)                           | 114.26 (2902.2)                           |
| <b>L</b> Load Distance <sup>2</sup>  | in (mm)                         |                           |              | 24.14 (613.2)                             | 24.95 (633.7)                             | 25.80 (65.3)                              | 25.80 (655.3)                             |
| <b>M</b> Basic Right-Angle Stacking Aisle Width <sup>3</sup>               | in (mm)                         |                           |              | 134.01+Load (3403.9+Load)                 | 139.21+Load (3535.9+Load)                 | 140.06+Load (3557.5+Load)                 | 140.06+Load (3557.5+Load)                 |
| PERFORMANCE DATA   |                                 |                           |              | THDE1500-24                               | THDE1800-24                               | THDE2000-24                               | THDE2200-24                               |
| Speeds   | Maximum Travel (fwd. / rev.)    | Full Load                 | mph (km/h)   | 5.2 (8.4)                                 | 5.0 (8.0)                                 | 4.7 (7.6)                                 | 4.6 (7.4)                                 |
|  |                                 | No Load                   | mph (km/h)   | 6.5 (10.5)                                | 6.3 (10.1)                                | 5.9 (9.5)                                 | 5.7 (9.2)                                 |
|  | Lifting                         | Full Load                 | fpm (mm/sec) | 39.5 (201)                                | 39.5 (201)                                | 34.5 (176)                                | 34.5 (176)                                |
|  |                                 | No Load                   | fpm (mm/sec) | 52 (264)                                  | 52 (264)                                  | 45.3 (230)                                | 45.3 (230)                                |
|  | Lowering                        | Full Load                 | fpm (mm/sec) | 60 (305)                                  | 60 (305)                                  | 54 (275)                                  | 54 (275)                                  |
|  |                                 | No Load                   | fpm (mm/sec) | 45 (228)                                  | 45 (228)                                  | 38 (193)                                  | 38 (193)                                  |
| Drawbar Pull   | Maximum                         | Full Load                 | lb (kg)      | 5792 (25.8)                               | 5703 (25.4)                               | 5624 (25.0)                               | 5568 (24.8)                               |
|  |                                 | No Load                   | lb (kg)      | 6017 (26.8)                               | 5973 (26.6)                               | 5924 (26.3)                               | 5898 (26.2)                               |
| Gradeability @ .9 Coef <sup>4</sup>  | Maximum                         | Full Load                 | %            | 25.5                                      | 22.5                                      | 19.9                                      | 18.7                                      |
|  |                                 | No Load                   | %            | 15  | 12.8                                      | 11.3                                      | 10.4                                      |
| TRUCK WEIGHTS  |                                 |                           |              | THDE1500-24                               | THDE1800-24                               | THDE2000-24                               | THDE2200-24                               |
| Total Weight (empty)   |                                 | lb (kg)                   |              | 23600 (10705)                             | 26500 (12020)                             | 29800 (13517)                             | 31500 (14288)                             |
| Weight Distribution (w/ min. battery)                                      | Full Load                       | Front                     | lb (kg)      | 36190 (16415)                             | 41560 (18851)                             | 46470 (21078)                             | 49840 (22607)                             |
|  |                                 | Rear                      | lb (kg)      | 2410 (1095)                               | 2940 (1333)                               | 3330 (1510)                               | 3660 (1660)                               |
|  | No Load                         | Front                     | lb (kg)      | 11540 (5235)                              | 11800 (5352)                              | 13140 (5960)                              | 13170 (5974)                              |
|  |                                 | Rear                      | lb (kg)      | 12060 (5470)                              | 14700 (6668)                              | 16660 (7557)                              | 18330 (8314)                              |
| TIRES  |                                 |                           |              | THDE1500-24                               | THDE1800-24                               | THDE2000-24                               | THDE2200-24                               |
| Tires  | Number (front / rear)           |                           |              | 2/2                                       | 2/2                                       | 2/2                                       | 2/2                                       |
|  | Size (OD x W x ID)              | Front                     |              | 28 X 14 X 22                              | 28 X 14 X 22                              | 28 X 14 X 22                              | 28 X 14 X 22                              |
| Rear   |                                 |                           | 22 X 8 X 16  | 22 X 8 X 16                               | 22 X 8 X 16                               | 22 X 8 X 16                               |   |
| <b>N</b> Wheelbase   | in (mm)                         |                           |              | 75.00 (1905.0)                            | 75.00 (1905.0)                            | 75.00 (1905.0)                            | 75.00 (1905.0)                            |
| Tread Width  | <b>O</b> Front                  | in (mm)                   |              | 46.25 (1174.8)                            | 46.25 (1214.6)                            | 46.25 (1174.8)                            | 46.25 (1174.8)                            |
|  | <b>P</b> Rear                   | in (mm)                   |              | 47.82 (1214.6)                            | 47.82 (1214.6)                            | 47.82 (1214.6)                            | 47.82 (1214.6)                            |
| Underclearance (full load)   | <b>Q</b> Minimum with Load      | in (mm)                   |              | 4.25 (108.0)                              | 4.25 (108.0)                              | 4.25 (108.0)                              | 4.25 (108.0)                              |
|  | <b>R</b> Center of Wheelbase    | in (mm)                   |              | 4.75 (120.7)                              | 4.75 (120.7)                              | 4.75 (120.7)                              | 4.75 (120.7)                              |
| Brake  | Service (foot) / Parking        |                           |              | Hydraulic/Mechanical                      | Hydraulic/Mechanical                      | Hydraulic/Mechanical                      | Hydraulic/Mechanical                      |
| POWER SYSTEM   |                                 |                           |              | THDE1500-24                               | THDE1800-24                               | THDE2000-24                               | THDE2200-24                               |
| Batteries  | Number                          |                           |              | 2   | 2   | 2   | 2   |
| Battery (5-hour ratings)   | Voltage/Capacity                | V/Ah                      |              | 36/1125                                   | 36 / 1125                                 | 36 / 1125                                 | 36 / 1125                                 |
|  | Min. Weight                     | lb                        |              | 4380 (1986.7)                             | 4380 (1986.7)                             | 4800 (2177.2)                             | 6200 (2812.3)                             |
| Electric Motors  | Traction Motor (60 min. rating) | hp (kW)                   |              | 42.5 (31.7)                               | 42.5 (31.7)                               | 42.5 (31.7)                               | 42.5 (31.7)                               |
|  | Pump Motor (15 min. rating)     | hp (kW)                   |              | 32.2 (24.0)                               | 32.2 (24.0)                               | 32.2 (24.0)                               | 32.2 (24.0)                               |
| Auxiliary Hydraulic Function Specifications (for attachments) <sup>4</sup> | Max. Operating Pressure         | psi (kg/cm <sup>2</sup> ) |              | 2250 (158.2)                              | 2,250 (158.2)                             | 2,250 (158)                               | 2250 (158.2)                              |
|  | Maximum Flow Rate               | gpm (lpm)                 |              | 20.6 (78)                                 | 20.6 (78)                                 | 20.6 (78)                                 | 20.6 (78)                                 |

<sup>0</sup> Computed values.

<sup>1</sup> Measured with standard forks.

<sup>2</sup> Centerline of front axle to front face of forks.

<sup>3</sup> Add load length and clearance.

<sup>4</sup> Values taken at hydraulic control valve. Does not take into consideration losses through mast plumbing (hosing, fittings, QD's, etc.).

**MODEL NUMBERS**

| GENERAL DATA   |                                 |                           |                            | THDE3000-24                            | THDE3500-24                            | THDE4000-24                             |                      |
|--|---------------------------------|---------------------------|----------------------------|--|--|---|----------------------|
| Load Capacity  | lb (kg)                         |                           |                            | 30000 (13608)                          | 35000 (15875)                          | 40000 (18143)                           |                      |
| Load Center  | in (mm)                         |                           |                            | 24 (610)                               | 24 (610)                               | 24 (610)                                |                      |
| Power Type   |                                 |                           | Battery                    |  | Battery                                | Battery                                 |                      |
| Operator Position  |                                 |                           | Seated Rider / Center Seat |  | Seat Rider / Center Seat               | Seated Rider / Center Rider             |                      |
| Tire Type  | Front/Rear                      |                           |                            | Cushion / Cushion                      |  | Cushion / Cushion                       |                      |
| Wheels (x = driven)  | Front / Rear                    |                           |                            | 2x/2                                   |  | 2x/2                                    |                      |
| EXTERIOR DIMENSIONS  |                                 |                           |                            | THDE3000-24                            | THDE3500-24                            | THDE4000-24                             |                      |
| <b>A</b> Maximum Fork Height (top of forks)                                | in (mm)                         |                           |                            | 103.50 (2628.9)                        | 103.50 (2628.9)                        | 108.75 (2762.3)                         |                      |
| <b>B</b> Free Lift (top of forks)  | in (mm)                         |                           |                            | 0 (0)                                  | 0 (0)                                  | 0 (0)                                   |                      |
| <b>C</b> Fork Size (T x W x L)   | in (mm)                         |                           |                            | 3.50 (88.9) x 7.00 (177.8) x 48 (1219) | 3.50 (88.9) x 7.00 (177.8) x 48 (1219) | 4.00 (101.6) x 7.00 (177.8) x 48 (1219) |                      |
| <b>D</b> Fork Spread Max. / Min. (outer edge to edge) <sup>1</sup>         | in (mm)                         |                           |                            | 54.00 (1371.6) / 14.00 (355.6)         | 54.00 (1371.6) - 14.00 (355.6)         | 57.50 (1460.5) - 14.00 (355.6)          |                      |
| <b>E</b> Tilt Range (forward / backward)                                   | deg                             |                           |                            | 6/7                                    | 6/7                                    | 8/6                                     |                      |
| <b>F</b> Length to Fork Face   | in (mm)                         |                           |                            | 136.59 (3569.4)                        | 139.59 (3545.6)                        | 155.59 (3952.0)                         |                      |
| <b>G</b> Overall Width   | in (mm)                         |                           |                            | 64.57 (1640.1)                         | 64.57 (1640.1)                         | 72.44 (1840.0)                          |                      |
| <b>H</b> Mast Lowered Height   | in (mm)                         |                           |                            | 112.75 (2863.9)                        | 112.75 (2863.9)                        | 120.00 (3048.0)                         |                      |
| <b>I</b> Mast Extended Height (top of load backrest)                       | in (mm)                         |                           |                            | 162.75 (2863.9)                        | 162.75 (4133.9)                        | 172.38 (4378.4)                         |                      |
| <b>J</b> Overhead Guard Height   | in (mm)                         |                           |                            | 102.56 (2605.0)                        | 102.56 (2605.0)                        | 102.56 (2605.0)                         |                      |
| <b>K</b> Turning Radius (outside)  | in (mm)                         |                           |                            | 123.18 (3128.8)                        | 125.68 (3192.3)                        | 138.86 (3527.0)                         |                      |
| <b>L</b> Load Distance <sup>2</sup>  | in (mm)                         |                           |                            | 30.67 (799.0)                          | 30.67 (799.0)                          | 34.69 (881.1)                           |                      |
| <b>M</b> Basic Right-Angle Stacking Aisle Width <sup>3</sup>               | in (mm)                         |                           |                            | 153.85+Load (3907.8+Load)              | 156.35+Load (3971.3+Load)              | 173.55+Load (4408.2+Load)               |                      |
| PERFORMANCE DATA   |                                 |                           |                            | THDE3000-24                            | THDE3500-24                            | THDE4000-24                             |                      |
| Speeds   | Maximum Travel (fwd. / rev.)    | Full Load                 | mph (km/h)                 | 4.1 (6.6)                              | 4.0 (6.4)                              | 3.7 (6.0)                               |                      |
|  |                                 | No Load                   | mph (km/h)                 | 5.1 (8.2)                              | 4.8 (7.7)                              | 4.6 (7.4)                               |                      |
|  | Lifting                         | Full Load                 | fpm (mm/sec)               | 24 (122)                               | 24 (122)                               | 16 (81)                                 |                      |
|  |                                 | No Load                   | fpm (mm/sec)               | 31.5 (160)                             | 31.5 (160)                             | 21 (106)                                |                      |
|  | Lowering                        | Full Load                 | fpm (mm/sec)               | 43 (218)                               | 43 (218)                               | 25 (127)                                |                      |
|  |                                 | No Load                   | fpm (mm/sec)               | 24 (122)                               | 24 (122)                               | 18 (91)                                 |                      |
| Drawbar Pull   | Maximum                         | Full Load                 | lb (kg)                    | 5267 (23.4)                            | 5136 (22.8)                            | 4982 (22.2)                             |                      |
|  |                                 | No Load                   | lb (kg)                    | 5717 (25.4)                            | 5661 (25.2)                            | 5582 (24.8)                             |                      |
| Gradeability @ .9 Coef*  | Maximum                         | Full Load                 | %                          | 13.1                                   | 12                                     | 10.6                                    |                      |
|  |                                 | No Load                   | %                          | 7.1                                    | 6.2                                    | 5.4                                     |                      |
| TRUCK WEIGHTS  |                                 |                           |                            | THDE3000-24                            | THDE3500-24                            | THDE4000-24                             |                      |
| Total Weight (empty)   |                                 | lb (kg)                   |                            |  | 41600 (18869)                          | 45300 (20548)                           | 52600 (23859)        |
| Weight Distribution  | Full Load                       | Front                     | lb (kg)                    | 66470 (30150)                          | 74310 (33706)                          | 86210 (39104)                           |                      |
|  |                                 | Rear                      | lb (kg)                    | 5130 (2327)                            | 5990 (2717)                            | 6390 (2898)                             |                      |
|  | No Load                         | Front                     | lb (kg)                    | 15940 (7230)                           | 15360 (6967)                           | 20670 (9376)                            |                      |
|  |                                 | Rear                      | lb (kg)                    | 25660 (11639)                          | 29940 (13580)                          | 31930 (14483)                           |                      |
| TIRES  |                                 |                           |                            | THDE3000-24                            | THDE3500-24                            | THDE4000-24                             |                      |
| Tires  | Number (front / rear)           |                           |                            |  | 2/2                                    | 2/2                                     | 4/2                  |
|  | Size (OD x W x ID)              | Front                     |                            |  | 28 X 16 X 22                           | 28 X 16 X 22                            | 28 X 10 X 22         |
| Rear   |                                 |                           |                            | 22 X 10 X 16                           | 22 X 10 X 16                           | 22 X 12 X 16                            |                      |
| <b>N</b> Wheelbase   |                                 | in (mm)                   |                            |  | 80.00 (2032.0)                         | 80.00 (2032.0)                          | 92.00 (2336.8)       |
| Tread Width  | <b>Q</b> Front                  | in (mm)                   |                            |  | 48.25 (1255.6)                         | 48.25 (1225.6)                          | 52.27 (1327.7)       |
|  | <b>P</b> Rear                   | in (mm)                   |                            |  | 50.28 (1277.1)                         | 50.28 (1277.1)                          | 52.28 (1327.9)       |
| Underclearance (full load)   | <b>Q</b> Minimum with Load      | in (mm)                   |                            |  | 4.25 (108.0)                           | 4.25 (108.0)                            | 4.25 (108.0)         |
|  | <b>R</b> Center of Wheelbase    | in (mm)                   |                            |  | 4.75 (120.7)                           | 4.75 (120.7)                            | 4.75 (120.7)         |
| Brake  | Service (foot) / Parking        |                           |                            |  | Hydraulic/Mechanical                   | Hydraulic/Mechanical                    | Hydraulic/Mechanical |
| POWER SYSTEM   |                                 |                           |                            | THDE3000-24                            | THDE3500-24                            | THDE4000-24                             |                      |
| Batteries  | Number                          |                           |                            |  | 2                                      | 2                                       | 2                    |
| Battery (5-hour ratings)   | Voltage/Capacity                | V/Ah                      |                            |  | 36 / 1250                              | 36 / 1250                               | 36 / 1250            |
|  | Min. Weight                     | lb                        |                            |  | 6400 (2903.0)                          | 6400 (2903.0)                           | 6400 (2903.0)        |
| Electric Motors  | Traction Motor (60 min. rating) | hp (kW)                   |                            |  | 42.5 (31.7)                            | 42.5 (31.7)                             | 42.5 (31.7)          |
|  | Pump Motor (15 min. rating)     | hp (kW)                   |                            |  | 32.2 (24.0)                            | 32.2 (24.0)                             | 32.2 (24.0)          |
| Auxiliary Hydraulic Function Specifications (for attachments) <sup>4</sup> | Max. Operating Pressure         | psi (kg/cm <sup>2</sup> ) |                            |  | 2250 (158.2)                           | 2250 (158.2)                            | 2250 (158.2)         |
|  | Maximum Flow Rate               | gpm (lpm)                 |                            |  | 20.6 (78)                              | 20.6 (78)                               | 20.6 (78)            |

\* Computed values.  
1 Measured with standard forks.  
2 Centerline of front axle to front face of forks.  
3 Add load length and clearance.  
4 Values taken at hydraulic control valve. Does not take into consideration losses through mast plumbing (hosing, fittings, QD's, etc.).

# HIGH-CAPACITY ELECTRIC CUSHION

## TRUCK SPECIFICATIONS

| GENERAL DATA   |                                 |                           |  | THDE3000-30                             | THDE3500-30                             | THDE4000-30          |
|--|---------------------------------|---------------------------|--|---|---|----------------------|
| Load Capacity  | lb (kg)                         |                           | 30000 (13608)                          | 35000 (15875)                           | 40000 (18143)                           |                      |
| Load Center  | in (mm)                         |                           | 30 (762)                               | 30 (762)                                | 30 (762)                                |                      |
| Power Type   |                                 |                           | Battery                                | Battery                                 | Battery                                 |                      |
| Operator Position  |                                 |                           | Seated Rider / Center Seat             | Seat Rider / Center Seat                | Seat Rider / Center Seat                |                      |
| Tire Type  | Front/Rear                      |                           | Cushion / Cushion                      | Cushion / Cushion                       | Cushion / Cushion                       |                      |
| Wheels (x = driven)  | Front / Rear                    |                           | 2x/2                                   | 2x/2                                    | 2x/2                                    |                      |
| EXTERIOR DIMENSIONS  |                                 |                           |  | THDE3000-30                             | THDE3500-30                             | THDE4000-30          |
| <b>A</b> Maximum Fork Height (top of forks)                                | in (mm)                         |                           | 103.50 (2628.9)                        | 108.75 (2762.3)                         | 108.75 (2762.3)                         |                      |
| <b>B</b> Free Lift (top of forks)  | in (mm)                         |                           | 0 (0)                                  | 0 (0)                                   | 0 (0)                                   |                      |
| <b>C</b> Fork Size (T x W x L)   | in (mm)                         |                           | 3.50 (88.9) x 7.00 (177.8) x 60 (1524) | 4.00 (101.6) x 7.00 (177.8) x 60 (1524) | 4.00 (101.6) x 7.00 (177.8) x 60 (1524) |                      |
| <b>D</b> Fork Spread Max. / Min. (outer edge to edge) <sup>1</sup>         | in (mm)                         |                           | 54.00 (1371.6) - 14.00 (355.6)         | 57.50 (1460.5) - 14.00 (355.6)          | 57.50 (1460.5) - 14.00 (355.6)          |                      |
| <b>E</b> Tilt Range (forward / backward)                                   | deg                             |                           | 6/7                                    | 8/6                                     | 8/6                                     |                      |
| <b>F</b> Length to Fork Face   | in (mm)                         |                           | 139.59 (3545.6)                        | 155.59 (3952.0)                         | 155.59 (3952.0)                         |                      |
| <b>G</b> Overall Width   | in (mm)                         |                           | 64.57 (1640.1)                         | 72.44 (1840.0)                          | 72.44 (1840.0)                          |                      |
| <b>H</b> Mast Lowered Height   | in (mm)                         |                           | 112.75 (2863.9)                        | 120.00 (3048.0)                         | 120.00 (3048.0)                         |                      |
| <b>I</b> Mast Extended Height (top of load backrest)                       | in (mm)                         |                           | 162.75 (4133.9)                        | 172.38 (4378.4)                         | 172.38 (4378.4)                         |                      |
| <b>J</b> Overhead Guard Height   | in (mm)                         |                           | 102.56 (2605.0)                        | 102.56 (2605.0)                         | 102.56 (2605.0)                         |                      |
| <b>K</b> Turning Radius (outside)  | in (mm)                         |                           | 125.68 (3192.3)                        | 138.86 (3527.0)                         | 138.86 (3527.0)                         |                      |
| <b>L</b> Load Distance <sup>2</sup>  | in (mm)                         |                           | 30.67 (779.0)                          | 34.69 (881.1)                           | 34.69 (881.1)                           |                      |
| <b>M</b> Basic Right-Angle Stacking Aisle Width <sup>3</sup>               | in (mm)                         |                           | 156.35+Load (3971.3+Load)              | 173.55+Load (4408.2+Load)               | 173.55+Load (4408.2+Load)               |                      |
| PERFORMANCE DATA   |                                 |                           |  | THDE3000-30                             | THDE3500-30                             | THDE4000-30          |
| Speeds   | Maximum Travel (fwd. / rev.)    | Full Load                 | mph (km/h)                             | 4.1 (6.6)                               | 3.9 (6.3)                               | 3.7 (6.0)            |
|  |                                 | No Load                   | mph (km/h)                             | 5.0 (8.0)                               | 4.7 (7.6)                               | 4.5 (7.2)            |
|  | Lifting                         | Full Load                 | fpm (mm/sec)                           | 24 (122)                                | 16 (81)                                 | 16 (81)              |
|  |                                 | No Load                   | fpm (mm/sec)                           | 31.5 (160)                              | 21 (106)                                | 21 (106)             |
|  | Lowering                        | Full Load                 | fpm (mm/sec)                           | 43 (218)                                | 25 (127)                                | 25 (127)             |
|  |                                 | No Load                   | fpm (mm/sec)                           | 24 (122)                                | 18 (91)                                 | 18 (91)              |
| Drawbar Pull   | Maximum                         | Full Load                 | lb (kg)                                | 5237 (23.3)                             | 5070 (22.6)                             | 4932 (21.9)          |
|  |                                 | No Load                   | lb (kg)                                | 5687 (25.3)                             | 5595 (24.9)                             | 5532 (24.6)          |
| Gradeability @ .9 Coef*  | Maximum                         | Full Load                 | %                                      | 12.5                                    | 10.8                                    | 9.9                  |
|  |                                 | No Load                   | %                                      | 6                                       | 5.9                                     | 5.1                  |
| TRUCK WEIGHTS  |                                 |                           |  | THDE3000-30                             | THDE3500-30                             | THDE4000-30          |
| Total Weight (empty)   |                                 | lb (kg)                   |  | 43600 (19777)                           | 51700 (23451)                           | 55900 (25356)        |
| Weight Distribution  | Full Load                       | Front                     | lb (kg)                                | 67910 (30803)                           | 80530 (36528)                           | 88850 (40302)        |
|  |                                 | Rear                      | lb (kg)                                | 5690 (2581)                             | 6170 (2799)                             | 7050 (3198)          |
|  | No Load                         | Front                     | lb (kg)                                | 15130 (6863)                            | 20900 (9480)                            | 20700 (9389)         |
|  |                                 | Rear                      | lb (kg)                                | 28470 (12914)                           | 30800 (13971)                           | 35200 (15966)        |
| TIRES  |                                 |                           |  | THDE3000-30                             | THDE3500-30                             | THDE4000-30          |
| Tires  | Number (front / rear)           |                           |  | 2/2                                     | 4/2                                     | 4/2                  |
|  | Size (OD x W x ID)              | Front                     |  | 28 X 16 X 22                            | 28 X 10 X 22                            | 28 X 10 X 22         |
| Rear   |                                 |                           | 22 X 10 X 16                           | 22 X 12 X 16                            | 22 X 12 X 16                            |                      |
| <b>N</b> Wheelbase   |                                 | in (mm)                   |  | 80.00 (2032.0)                          | 92.00 (2336.8)                          | 92.00 (2336.8)       |
| Tread Width  | <b>Q</b> Front                  | in (mm)                   |  | 48.25 (1225.6)                          | 52.27 (1327.7)                          | 52.27 (1327.7)       |
|  | <b>P</b> Rear                   | in (mm)                   |  | 50.28 (1277.1)                          | 52.28 (1327.9)                          | 52.28 (1327.9)       |
| Underclearance (full load)   | <b>Q</b> Minimum with Load      | in (mm)                   |  | 4.25 (108.0)                            | 4.25 (108.0)                            | 4.25 (108.0)         |
|  | <b>R</b> Center of Wheelbase    | in (mm)                   |  | 4.75 (120.7)                            | 4.75 (120.7)                            | 4.75 (120.7)         |
| Brake  | Service (foot) / Parking        |                           |  | Hydraulic/Mechanical                    | Hydraulic/Mechanical                    | Hydraulic/Mechanical |
| POWER SYSTEM   |                                 |                           |  | THDE3000-30                             | THDE3500-30                             | THDE4000-30          |
| Batteries  | Number                          |                           |  | 2                                       | 2                                       | 2                    |
| Battery (5-hour ratings)   | Voltage/Capacity                | V/Ah                      |  | 36 / 1250                               | 36 / 1250                               | 36 / 1250            |
|  | Min. Weight                     | lb                        |  | 6400 (2903.0)                           | 6400 (2903.0)                           | 6400 (2903.0)        |
| Electric Motors  | Traction Motor (60 min. rating) | hp (kW)                   |  | 42.5 (31.7)                             | 42.5 (31.7)                             | 42.5 (31.7)          |
|  | Pump Motor (15 min. rating)     | hp (kW)                   |  | 32.2 (24.0)                             | 32.2 (24.0)                             | 32.2 (24.0)          |
| Auxiliary Hydraulic Function Specifications (for attachments) <sup>4</sup> | Max. Operating Pressure         | psi (kg/cm <sup>2</sup> ) |  | 2250 (158.2)                            | 2250 (158.2)                            | 2250 (158.2)         |
|  | Maximum Flow Rate               | gpm (lpm)                 |  | 20.6 (78)                               | 20.6 (78)                               | 20.6 (78)            |

\* Computed values.

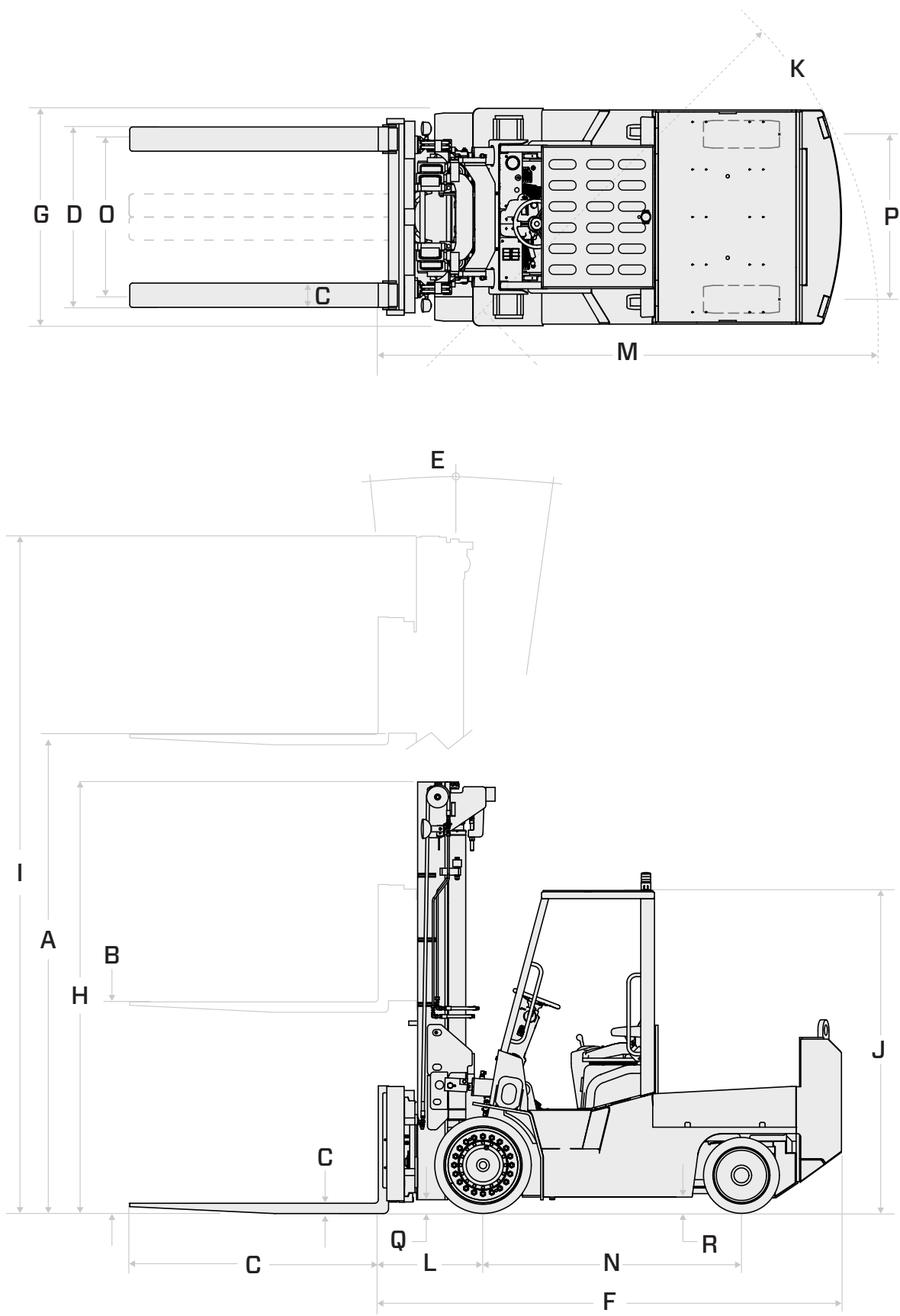
1 Measured with standard forks.

2 Centerline of front axle to front face of forks.

3 Add load length and clearance.

4 Values taken at hydraulic control valve. Does not take into consideration losses through mast plumbing (hosing, fittings, QD's, etc.).

# EXTERIOR DIMENSIONS



# HIGH-CAPACITY ELECTRIC CUSHION

## MAST SPECIFICATIONS

| MAST TYPE                    | MAXIMUM FORK HEIGHT (TOP OF FORKS) | OVERALL HEIGHT |              | FREE-LIFT WITH STANDARD LOAD BACKREST | TILT RANGE |              | LOAD CAPACITY AT 24 IN. (610 MM) LOAD CENTER |
|------------------------------|------------------------------------|----------------|--------------|---------------------------------------|------------|--------------|--|
|                              |                                    | LOWERED        |              |                                       | FWD        | BWD          |  |
|                              |                                    | in (mm)        | in (mm)      | in (mm)                               | deg        | deg          | lb (kg)                                      |
| <b>THDE1500-24</b>           |                                    |                |              |                                       |            |              |  |
| Wide Visible (V)             | 82.75 (2102)                       | 80 (2032)      | 0            | 6                                     | 8          | 15000 (6803) |  |
|                              | 93 (2362)                          | 85.25 (2165)   | 0            | 6                                     | 8          | 15000 (6803) |  |
|                              | 118.4 (3007)                       | 98 (2489)      | 0            | 6                                     | 8          | 15000 (6803) |  |
|                              | 145.5 (3696)                       | 111.5 (2832)   | 0            | 6                                     | 8          | 15000 (6803) |  |
|                              | 176.4 (4481)                       | 137 (3480)     | 0            | 6                                     | 8          | TSDR*        |  |
| Full Free-Lift 2-Stage (FV)  | 73.25 (1861)                       | 85.25 (2165)   | 36.8 (935)   | 6                                     | 8          | 15000 (6803) |  |
|                              | 74 (1880)                          | 88 (2235)      | 29.5 (749)   | 6                                     | 8          | 15000 (6803) |  |
|                              | 92.7 (2355)                        | 95 (2413)      | 36.5 (927)   | 6                                     | 8          | 15000 (6803) |  |
|                              | 98.75 (2508)                       | 98 (2489)      | 39.5 (1003)  | 6                                     | 8          | 15000 (6803) |  |
|                              | 125 (3175)                         | 111.5 (2832)   | 53 (1346)    | 6                                     | 8          | 15000 (6803) |  |
|                              | 131.69 (3345)                      | 114.5 (2908)   | 56 (1422)    | 6                                     | 8          | 15000 (6803) |  |
|                              | 177 (4496)                         | 137 (3480)     | 78.5 (1994)  | 6                                     | 8          | TSDR*        |  |
|                              | 200 (5080)                         | 150 (3810)     | 91.5 (2316)  | 6                                     | 8          | TSDR*        |  |
| Full Free-Lift 3-Stage (FSV) | 130 (3302)                         | 83 (2108)      | 36.9 (937)   | 6                                     | 8          | 15000 (6803) |  |
|                              | 140.5 (3568)                       | 85.5 (2172)    | 39.4 (1001)  | 6                                     | 8          | 15000 (6803) |  |
|                              | 142.38 (3616)                      | 87 (2210)      | 40.9 (1039)  | 6                                     | 8          | 15000 (6803) |  |
|                              | 154.16 (3915)                      | 90 (2286)      | 43.9 (1115)  | 6                                     | 8          | 15000 (6803) |  |
|                              | 178.75 (4540)                      | 98 (2489)      | 51.9 (1318)  | 6                                     | 8          | TSDR*        |  |
|                              | 219.5 (5575)                       | 111.5 (2832)   | 65.4 (1661)  | 6                                     | 8          | TSDR*        |  |
|                              | 275.5 (6997)                       | 137 (3480)     | 90.9 (2309)  | 6                                     | 8          | TSDR*        |  |
|                              | 296.5 (7531)                       | 144 (3658)     | 97.9 (2487)  | 6                                     | 8          | TSDR*        |  |
|                              | 303.3 (7703)                       | 146.3 (3716)   | 100.2 (2545) | 6                                     | 8          | TSDR*        |  |

| MAST TYPE                    | MAXIMUM FORK HEIGHT (TOP OF FORKS) | OVERALL HEIGHT |              | FREE-LIFT WITH STANDARD LOAD BACKREST | TILT RANGE |              | LOAD CAPACITY AT 24 IN. (610 MM) LOAD CENTER |
|------------------------------|------------------------------------|----------------|--------------|---------------------------------------|------------|--------------|--|
|                              |                                    | LOWERED        |              |                                       | FWD        | BWD          |  |
|                              |                                    | in (mm)        | in (mm)      | in (mm)                               | deg        | deg          | lb (kg)                                      |
| <b>THDE1800-24</b>           |                                    |                |              |                                       |            |              |  |
| Wide Visible (V)             | 82.75 (2102)                       | 80 (2032)      | 0            | 6                                     | 8          | 18000 (8164) |  |
|                              | 93 (2362)                          | 85.25 (2165)   | 0            | 6                                     | 8          | 18000 (8164) |  |
|                              | 118.4 (3007)                       | 98 (2489)      | 0            | 6                                     | 8          | 18000 (8164) |  |
|                              | 145.5 (3696)                       | 111.5 (2832)   | 0            | 6                                     | 8          | 18000 (8164) |  |
|                              | 176.4 (4481)                       | 137 (3480)     | 0            | 6                                     | 8          | TSDR*        |  |
| Full Free-Lift 2-Stage (FV)  | 73.25 (1861)                       | 85.25 (2165)   | 36.8 (935)   | 6                                     | 8          | 18000 (8164) |  |
|                              | 74 (1880)                          | 88 (2235)      | 29.5 (749)   | 6                                     | 8          | 18000 (8164) |  |
|                              | 92.7 (2355)                        | 95 (2413)      | 36.5 (927)   | 6                                     | 8          | 18000 (8164) |  |
|                              | 98.75 (2508)                       | 98 (2489)      | 39.5 (1003)  | 6                                     | 8          | 18000 (8164) |  |
|                              | 125 (3175)                         | 111.5 (2832)   | 53 (1346)    | 6                                     | 8          | 18000 (8164) |  |
|                              | 131.69 (3345)                      | 114.5 (2908)   | 56 (1422)    | 6                                     | 8          | 18000 (8164) |  |
|                              | 177 (4496)                         | 137 (3480)     | 78.5 (1994)  | 6                                     | 8          | TSDR*        |  |
|                              | 200 (5080)                         | 150 (3810)     | 91.5 (2316)  | 6                                     | 8          | TSDR*        |  |
| Full Free-Lift 3-Stage (FSV) | 130 (3302)                         | 83 (2108)      | 36.9 (937)   | 6                                     | 8          | 18000 (8164) |  |
|                              | 140.5 (3568)                       | 85.5 (2172)    | 39.4 (1001)  | 6                                     | 8          | 18000 (8164) |  |
|                              | 142.38 (3616)                      | 87 (2210)      | 40.9 (1039)  | 6                                     | 8          | 18000 (8164) |  |
|                              | 154.16 (3915)                      | 90 (2286)      | 43.9 (1115)  | 6                                     | 8          | 18000 (8164) |  |
|                              | 178.75 (4540)                      | 98 (2489)      | 51.9 (1318)  | 6                                     | 8          | TSDR*        |  |
|                              | 219.5 (5575)                       | 111.5 (2832)   | 65.4 (1661)  | 6                                     | 8          | TSDR*        |  |
|                              | 275.5 (6997)                       | 137 (3480)     | 90.9 (2309)  | 6                                     | 8          | TSDR*        |  |
|                              | 296.5 (7531)                       | 144 (3658)     | 97.9 (2487)  | 6                                     | 8          | TSDR*        |  |
|                              | 303.3 (7703)                       | 146.3 (3716)   | 100.2 (2545) | 6                                     | 8          | TSDR*        |  |

\*TSDR required to determine capacity to maximum fork height.



| MAST TYPE                    | MAXIMUM FORK HEIGHT (TOP OF FORKS) | OVERALL HEIGHT |             | FREE-LIFT WITH STANDARD LOAD BACKREST | TILT RANGE |              | LOAD CAPACITY AT 24 IN. (610 MM) LOAD CENTER |
|------------------------------|------------------------------------|----------------|-------------|---------------------------------------|------------|--------------|--|
|                              |                                    | LOWERED        |             |                                       | FWD        | BWD          |  |
|                              |                                    | in (mm)        | in (mm)     | in (mm)                               | deg        | deg          |  |
| <b>THDE2000-24</b>           |                                    |                |             |                                       |            |              |  |
| Wide Visible (V)             | 69 (1753)                          | 83 (2108)      | 0           | 6                                     | 8          | 20000 (9071) |  |
|                              | 73.4 (1864)                        | 85.5 (2172)    | 0           | 6                                     | 8          | 20000 (9071) |  |
|                              | 98.8 (2512)                        | 98 (2489)      | 0           | 6                                     | 8          | 20000 (9071) |  |
|                              | 125.9 (3198)                       | 111.5 (2832)   | 0           | 6                                     | 8          | 20000 (9071) |  |
|                              | 147.4 (3744)                       | 122.3 (3106)   | 0           | 6                                     | 8          | 20000 (9071) |  |
|                              | 156.8 (3983)                       | 137 (3480)     | 0           | 6                                     | 8          | 20000 (9071) |  |
|                              | 162.9 (3376)                       | 140 (3556)     | 0           | 6                                     | 8          | 20000 (9071) |  |
|                              | 198.5 (5042)                       | 154 (3912)     | 0           | 6                                     | 8          | TSDR*        |  |
| 275 (6985)                   | 190 (4826)                         | 0              | 6           | 8                                     | TSDR*      |              |  |
| Full Free-Lift 2-Stage (FV)  | 73.25 (1861)                       | 85.25 (2165)   | 26.8 (681)  | 6                                     | 8          | 20000 (9071) |  |
|                              | 74 (1880)                          | 88 (2235)      | 29.5 (749)  | 6                                     | 8          | 20000 (9071) |  |
|                              | 92.7 (2355)                        | 95 (2113)      | 36.5 (927)  | 6                                     | 8          | 20000 (9071) |  |
|                              | 98.75 (2508)                       | 98 (2489)      | 39.5 (1003) | 6                                     | 8          | 20000 (9071) |  |
|                              | 125 (3175)                         | 111.5 (2832)   | 53 (1346)   | 6                                     | 8          | 20000 (9071) |  |
|                              | 131.69 (3345)                      | 114.5 (2908)   | 56 (1422)   | 6                                     | 8          | 20000 (9071) |  |
|                              | 177 (4496)                         | 137 (3480)     | 78.5 (1994) | 6                                     | 8          | TSDR*        |  |
|                              | 200 (5080)                         | 150 (3810)     | 91.5 (2324) | 6                                     | 8          | TSDR*        |  |
| Full Free-Lift 3-Stage (FSV) | 108.75 (2762)                      | 85.5 (2172)    | 27 (686)    | 6                                     | 8          | 20000 (9071) |  |
|                              | 122.5 (3112)                       | 90 (2286)      | 31.5 (800)  | 6                                     | 8          | 20000 (9071) |  |
|                              | 146.75 (3727)                      | 98 (2489)      | 39.5 (1003) | 6                                     | 8          | 20000 (9071) |  |
|                              | 150.5 (3823)                       | 98 (2489)      | 39.5 (1003) | 6                                     | 8          | 20000 (9071) |  |
|                              | 187.38 (4759)                      | 111.5 (2832)   | 53 (1346)   | 6                                     | 8          | TSDR*        |  |
|                              | 243.88 (6195)                      | 137 (3480)     | 78.5 (1994) | 6                                     | 8          | TSDR*        |  |
|                              | 264 (6706)                         | 137 (3480)     | 78.5 (1994) | 6                                     | 8          | TSDR*        |  |
|                              | 274 (6960)                         | 147 (3734)     | 88.5 (2248) | 6                                     | 8          | TSDR*        |  |
| 327 (8306)                   | 165 (4191)                         | 106.5 (2705)   | 6           | 8                                     | TSDR*      |              |  |

| MAST TYPE                    | MAXIMUM FORK HEIGHT (TOP OF FORKS) | OVERALL HEIGHT |             | FREE-LIFT WITH STANDARD LOAD BACKREST | TILT RANGE |              | LOAD CAPACITY AT 24 IN. (610 MM) LOAD CENTER |
|------------------------------|------------------------------------|----------------|-------------|---------------------------------------|------------|--------------|--|
|                              |                                    | LOWERED        |             |                                       | FWD        | BWD          |  |
|                              |                                    | in (mm)        | in (mm)     | in (mm)                               | deg        | deg          |  |
| <b>THDE2200-24</b>           |                                    |                |             |                                       |            |              |  |
| Wide Visible (V)             | 69 (1753)                          | 83 (2108)      | 0           | 6                                     | 8          | 22000 (9979) |  |
|                              | 73.4 (1864)                        | 85.5 (2172)    | 0           | 6                                     | 8          | 22000 (9979) |  |
|                              | 98.8 (2512)                        | 98 (2489)      | 0           | 6                                     | 8          | 22000 (9979) |  |
|                              | 125.9 (3198)                       | 111.5 (2832)   | 0           | 6                                     | 8          | 22000 (9979) |  |
|                              | 147.4 (3744)                       | 122.3 (3106)   | 0           | 6                                     | 8          | 22000 (9979) |  |
|                              | 156.8 (3983)                       | 137 (3480)     | 0           | 6                                     | 8          | 22000 (9979) |  |
|                              | 162.9 (3376)                       | 140 (3556)     | 0           | 6                                     | 8          | 22000 (9979) |  |
|                              | 198.5 (5042)                       | 154 (3912)     | 0           | 6                                     | 8          | TSDR*        |  |
| 275 (6985)                   | 190 (4826)                         | 0              | 6           | 8                                     | TSDR*      |              |  |
| Full Free-Lift 2-Stage (FV)  | 73.25 (1861)                       | 85.25 (2165)   | 26.8 (681)  | 6                                     | 8          | 22000 (9979) |  |
|                              | 74 (1880)                          | 88 (2235)      | 29.5 (749)  | 6                                     | 8          | 22000 (9979) |  |
|                              | 92.7 (2355)                        | 95 (2113)      | 36.5 (927)  | 6                                     | 8          | 22000 (9979) |  |
|                              | 98.75 (2508)                       | 98 (2489)      | 39.5 (1003) | 6                                     | 8          | 22000 (9979) |  |
|                              | 125 (3175)                         | 111.5 (2832)   | 53 (1346)   | 6                                     | 8          | 22000 (9979) |  |
|                              | 131.69 (3345)                      | 114.5 (2908)   | 56 (1422)   | 6                                     | 8          | 22000 (9979) |  |
|                              | 177 (4496)                         | 137 (3480)     | 78.5 (1994) | 6                                     | 8          | TSDR*        |  |
|                              | 200 (5080)                         | 150 (3810)     | 91.5 (2324) | 6                                     | 8          | TSDR*        |  |
| Full Free-Lift 3-Stage (FSV) | 108.75 (2762)                      | 85.5 (2172)    | 27 (686)    | 6                                     | 8          | 22000 (9979) |  |
|                              | 122.5 (3112)                       | 90 (2286)      | 31.5 (800)  | 6                                     | 8          | 22000 (9979) |  |
|                              | 146.75 (3727)                      | 98 (2489)      | 39.5 (1003) | 6                                     | 8          | 22000 (9979) |  |
|                              | 150.5 (3823)                       | 98 (2489)      | 39.5 (1003) | 6                                     | 8          | 22000 (9979) |  |
|                              | 187.38 (4759)                      | 111.5 (2832)   | 53 (1346)   | 6                                     | 8          | TSDR*        |  |
|                              | 243.88 (6195)                      | 137 (3480)     | 78.5 (1994) | 6                                     | 8          | TSDR*        |  |
|                              | 264 (6706)                         | 137 (3480)     | 78.5 (1994) | 6                                     | 8          | TSDR*        |  |
|                              | 274 (6960)                         | 147 (3734)     | 88.5 (2248) | 6                                     | 8          | TSDR*        |  |
| 327 (8306)                   | 165 (4191)                         | 106.5 (2705)   | 6           | 8                                     | TSDR*      |              |  |

## HIGH-CAPACITY ELECTRIC CUSHION

### MAST SPECIFICATIONS

| MAST TYPE                      | MAXIMUM FORK HEIGHT<br>(TOP OF FORKS) | OVERALL HEIGHT |           | FREE-LIFT<br>WITH STANDARD<br>LOAD BACKREST | TILT RANGE |               | LOAD CAPACITY AT<br>24 IN. (610 MM)<br>LOAD CENTER |
|--------------------------------|---------------------------------------|----------------|-----------|---|------------|---------------|--|
|                                |                                       | LOWERED        |           |   | FWD        | BWD           |  |
|                                | in (mm)                               | in (mm)        | in (mm)   | deg   | deg        | lb (kg)       |  |
| <b>THDE3000-24</b>             |                                       |                |           |   |            |               |  |
| Wide Visible<br>(V)            | 103.5 (2629)                          | 112.75 (2864)  | 0         | 9   | 9          | 30000 (13607) |  |
|                                | 114 (2896)                            | 118 (2997)     | 0         | 9   | 9          | 30000 (13607) |  |
|                                | 119.25 (3029)                         | 120.63 (3064)  | 0         | 9   | 9          | 30000 (13607) |  |
|                                | 126.5 (3213)                          | 124.25 (3156)  | 0         | 9   | 9          | 30000 (13607) |  |
|                                | 148 (3759)                            | 135 (3429)     | 0         | 9   | 9          | 30000 (13607) |  |
|                                | 160 (4064)                            | 141 (3581)     | 0         | 9   | 9          | TSDR*         |  |
| Full Free-Lift 2-Stage<br>(FV) | 171 (4343)                            | 146.5 (3721)   | 0         | 9   | 9          | TSDR*         |  |
|                                | 86.5 (2197)                           | 93 (2362)      | 56 (1422) | 9   | 9          | 30000 (13607) |  |
|                                | 110.75 (2813)                         | 103 (2616)     | 46 (1168) | 9   | 9          | 30000 (13607) |  |

| MAST TYPE                      | MAXIMUM FORK HEIGHT<br>(TOP OF FORKS) | OVERALL HEIGHT |           | FREE-LIFT<br>WITH STANDARD<br>LOAD BACKREST | TILT RANGE |               | LOAD CAPACITY AT<br>24 IN. (610 MM)<br>LOAD CENTER |
|--------------------------------|---------------------------------------|----------------|-----------|---|------------|---------------|--|
|                                |                                       | LOWERED        |           |   | FWD        | BWD           |  |
|                                | in (mm)                               | in (mm)        | in (mm)   | deg   | deg        | lb (kg)       |  |
| <b>THDE3500-24</b>             |                                       |                |           |   |            |               |  |
| Wide Visible<br>(V)            | 103.5 (2629)                          | 112.75 (2864)  | 0         | 9   | 9          | 35000 (15875) |  |
|                                | 114 (2896)                            | 118 (2997)     | 0         | 9   | 9          | 35000 (15875) |  |
|                                | 119.25 (3029)                         | 120.63 (3064)  | 0         | 9   | 9          | 35000 (15875) |  |
|                                | 126.5 (3213)                          | 124.25 (3156)  | 0         | 9   | 9          | 35000 (15875) |  |
|                                | 148 (3759)                            | 135 (3429)     | 0         | 9   | 9          | 35000 (15875) |  |
|                                | 160 (4064)                            | 141 (3581)     | 0         | 9   | 9          | TSDR*         |  |
| Full Free-Lift 2-Stage<br>(FV) | 171 (4343)                            | 146.5 (3721)   | 0         | 9   | 9          | TSDR*         |  |
|                                | 92.5 (2350)                           | 99 (2515)      | 41 (1041) | 9   | 9          | 35000 (15875) |  |
|                                | 102.5 (2603)                          | 105 (2667)     | 47 (1194) | 9   | 9          | 35000 (15875) |  |
|                                | 139.5 (3543)                          | 120 (3048)     | 50 (1270) | 9   | 9          | 35000 (15875) |  |

| MAST TYPE                      | MAXIMUM FORK HEIGHT<br>(TOP OF FORKS) | OVERALL HEIGHT |           | FREE-LIFT<br>WITH STANDARD<br>LOAD BACKREST | TILT RANGE |               | LOAD CAPACITY AT<br>24 IN. (610 MM)<br>LOAD CENTER |
|--------------------------------|---------------------------------------|----------------|-----------|---|------------|---------------|--|
|                                |                                       | LOWERED        |           |   | FWD        | BWD           |  |
|                                | in (mm)                               | in (mm)        | in (mm)   | deg   | deg        | lb (kg)       |  |
| <b>THDE4000-24</b>             |                                       |                |           |   |            |               |  |
| Wide Visible<br>(V)            | 108.75 (2762)                         | 120 (3048)     | 0         | 9   | 9          | 40000 (18143) |  |
|                                | 120.75 (3067)                         | 126 (3200)     | 0         | 9   | 9          | 40000 (18143) |  |
| Full Free-Lift 2-Stage<br>(FV) | 124 (3150)                            | 120 (3048)     | 50 (1270) | 9   | 9          | 40000 (18143) |  |
|                                | 140 (3556)                            | 120 (3048)     | 50 (1270) | 9   | 9          | 40000 (18143) |  |

\*TSDR required to determine capacity to maximum fork height.

| MAST TYPE                   | MAXIMUM FORK HEIGHT (TOP OF FORKS) | OVERALL HEIGHT | FREE-LIFT                   | TILT RANGE |     | LOAD CAPACITY AT 30 IN. (900 MM) LOAD CENTER |
|-----------------------------|------------------------------------|----------------|-----------------------------|------------|-----|--|
|                             |                                    | LOWERED        | WITH STANDARD LOAD BACKREST | FWD        | BWD |  |
|                             |                                    | in (mm)        | in (mm)                     | deg        | deg |  |
| <b>THDE3000-30</b>          |                                    |                |                             |            |     |  |
| Wide Visible (V)            | 103.5 (2629)                       | 112.75 (2864)  | 0                           | 6          | 7   | 30000 (13607)                                |
|                             | 114 (2896)                         | 118 (2997)     | 0                           | 6          | 7   | 30000 (13607)                                |
|                             | 119.25 (3029)                      | 120.63 (3064)  | 0                           | 6          | 7   | 30000 (13607)                                |
|                             | 126.5 (3213)                       | 124.25 (3156)  | 0                           | 6          | 7   | 30000 (13607)                                |
|                             | 148 (3759)                         | 135 (3429)     | 0                           | 6          | 7   | 30000 (13607)                                |
|                             | 160 (4064)                         | 141 (3581)     | 0                           | 6          | 7   | TSDR*  |
| Full Free-Lift 2-Stage (FV) | 171 (4343)                         | 146.5 (3721)   | 0                           | 6          | 7   | TSDR*  |
|                             | 92.5 (2350)                        | 99 (2515)      | 41 (1041)                   | 6          | 7   | 30000 (13607)                                |
|                             | 102.5 (2603)                       | 105 (2667)     | 47 (1194)                   | 6          | 7   | 30000 (13607)                                |
|                             | 139.5 (3543)                       | 120 (3048)     | 50 (1270)                   | 6          | 7   | 30000 (13607)                                |

| MAST TYPE                   | MAXIMUM FORK HEIGHT (TOP OF FORKS) | OVERALL HEIGHT | FREE-LIFT                   | TILT RANGE |     | LOAD CAPACITY AT 30 IN. (900 MM) LOAD CENTER |
|-----------------------------|------------------------------------|----------------|-----------------------------|------------|-----|--|
|                             |                                    | LOWERED        | WITH STANDARD LOAD BACKREST | FWD        | BWD |  |
|                             |                                    | in (mm)        | in (mm)                     | deg        | deg |  |
| <b>THDE3500-30</b>          |                                    |                |                             |            |     |  |
| Wide Visible (V)            | 108.75 (2762)                      | 120 (3048)     | 0                           | 8          | 6   | 35000 (15875)                                |
|                             | 120.75 (3067)                      | 126 (3200)     | 0                           | 8          | 6   | 35000 (15875)                                |
| Full Free-Lift 2-Stage (FV) | 124 (3150)                         | 120 (3048)     | 0                           | 8          | 6   | 35000 (15875)                                |
|                             | 140 (3556)                         | 120 (3048)     | 0                           | 8          | 6   | 35000 (15875)                                |

| MAST TYPE                   | MAXIMUM FORK HEIGHT (TOP OF FORKS) | OVERALL HEIGHT | FREE-LIFT                   | TILT RANGE |     | LOAD CAPACITY AT 30 IN. (900 MM) LOAD CENTER |
|-----------------------------|------------------------------------|----------------|-----------------------------|------------|-----|--|
|                             |                                    | LOWERED        | WITH STANDARD LOAD BACKREST | FWD        | BWD |  |
|                             |                                    | in (mm)        | in (mm)                     | deg        | deg |  |
| <b>THDE4000-30</b>          |                                    |                |                             |            |     |  |
| Wide Visible (V)            | 108.75 (2762)                      | 120 (3048)     | 0                           | 8          | 6   | 40000 (18143)                                |
|                             | 120.75 (3067)                      | 126 (3200)     | 0                           | 8          | 6   | 40000 (18143)                                |
| Full Free-Lift 2-Stage (FV) | 124 (3150)                         | 120 (3048)     | 0                           | 8          | 6   | 40000 (18143)                                |
|                             | 140 (3556)                         | 120 (3048)     | 0                           | 8          | 6   | 40000 (18143)                                |

\*TSDR required to determine capacity to maximum fork height.

Some product features described herein are optional. Please consult your dealer for specifications.  
Details of specifications and equipment are based on information available at time of printing and may  
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