

# W25-40ZC

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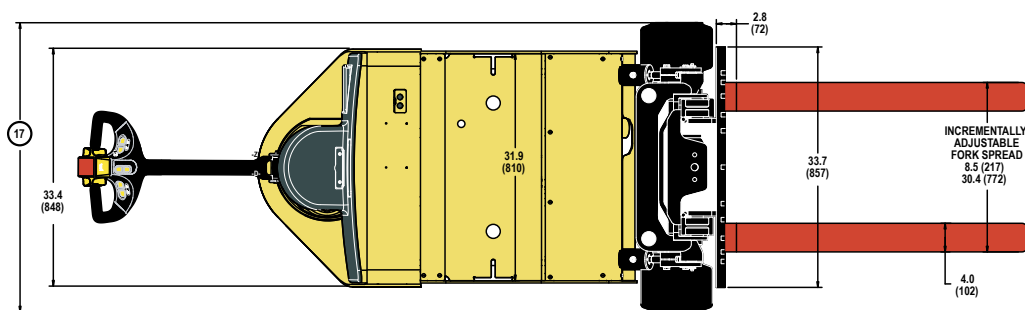


## WALKIE COUNTERBALANCE STACKER PRODUCT TECHNICAL GUIDE



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# W25-40ZC DIMENSIONS

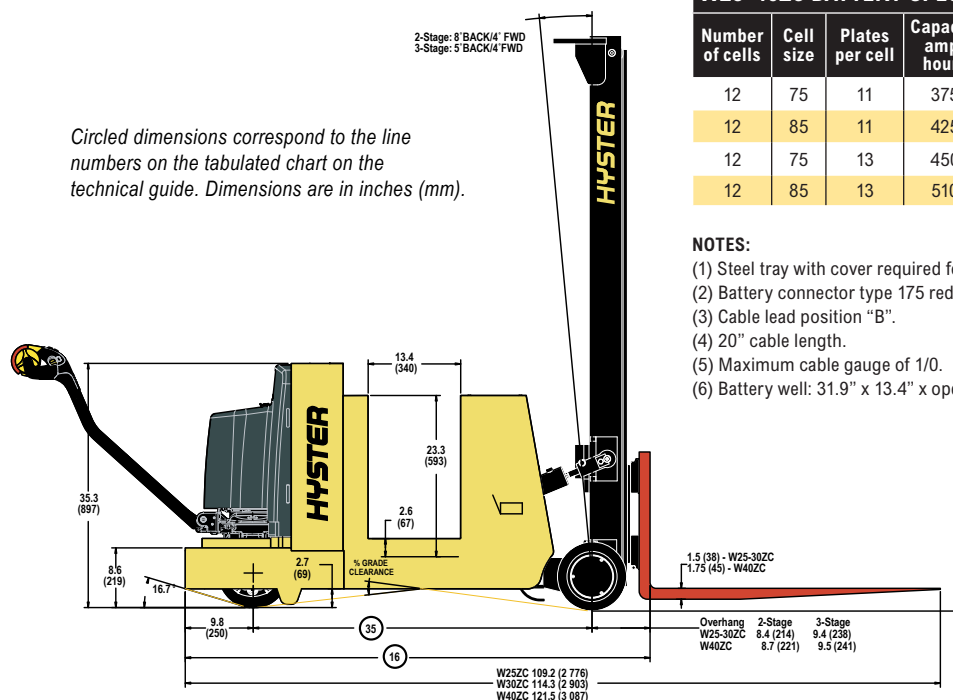


## W25-40ZC BATTERY SPECIFICATIONS

| Number of cells | Cell size | Plates per cell | Capacity amp-hours | KWH  | "X" dimension | "Y" dimension | "Z" dimension | Weight  |
|-----------------|-----------|-----------------|--------------------|------|---------------|---------------|---------------|---------|
| 12              | 75        | 11              | 375                | 8.7  | 26.5          | 13.0          | 23.3          | 825 lb  |
| 12              | 85        | 11              | 425                | 9.9  | 26.1          | 12.8          | 23.3          | 865 lb  |
| 12              | 75        | 13              | 450                | 10.5 | 30.9          | 13.0          | 23.3          | 987 lb  |
| 12              | 85        | 13              | 510                | 11.9 | 30.9          | 13.0          | 23.3          | 1035 lb |

### NOTES:

- (1) Steel tray with cover required for all batteries.
- (2) Battery connector type 175 red (gray is optional).
- (3) Cable lead position "B".
- (4) 20" cable length.
- (5) Maximum cable gauge of 1/0.
- (6) Battery well: 31.9" x 13.4" x open



## W25-30ZC MAST DIMENSIONS

| Maximum fork height (TOF) | Overall lowered height | Overall extended height |                   | Free-lift (TOF) | Mast weight |
|---------------------------|------------------------|-------------------------|-------------------|-----------------|-------------|
|                           |                        | w/load backrest         | w/o load backrest |                 |             |
| in (mm)                   | in (mm)                | in (mm)                 | in (mm)           | in (mm)         | lb (kg)     |

### 2-STAGE LIMITED FREE-LIFT (LFL) VISTA® MAST

|               |              |               |               |           |             |
|---------------|--------------|---------------|---------------|-----------|-------------|
| 104.0 (2,642) | 72.0 (1,829) | 152.0 (3,785) | 123.5 (3,140) | 6.0 (152) | 850 (386)   |
| 114.0 (2,896) | 77.0 (1,956) | 162.0 (4,039) | 133.5 (3,391) | 6.0 (152) | 900 (408)   |
| 126.0 (3,200) | 83.0 (2,108) | 174.0 (4,343) | 145.5 (3,696) | 6.0 (152) | 950 (431)   |
| 144.0 (3,658) | 92.0 (2,337) | 192.0 (4,801) | 163.5 (4,153) | 6.0 (152) | 1,050 (476) |
| 152.0 (3,861) | 96.0 (2,438) | 200.0 (5,080) | 171.5 (4,356) | 6.0 (152) | 1,100 (499) |

### 3-STAGE FULL FREE-LIFT (LFL) VISTA® MAST

|               |              |               |               |              |             |
|---------------|--------------|---------------|---------------|--------------|-------------|
| 157.0 (3,988) | 72.0 (1,829) | 205.0 (5,207) | 176.5 (4,483) | 50.0 (1,270) | 1,150 (522) |
| 172.0 (4,369) | 77.0 (1,956) | 220.0 (5,588) | 191.5 (4,864) | 55.0 (1,397) | 1,200 (544) |
| 190.0 (4,826) | 83.0 (2,108) | 238.0 (6,045) | 209.5 (5,321) | 61.0 (1,549) | 1,250 (567) |
| 217.0 (5,512) | 92.0 (2,337) | 265.0 (6,731) | 236.5 (6,007) | 70.0 (1,798) | 1,350 (612) |
| 229.0 (5,817) | 96.0 (2,438) | 277.0 (7,036) | 248.5 (6,312) | 74.0 (1,900) | 1,400 (635) |

## W40ZC MAST DIMENSIONS

| Maximum fork height (TOF) | Overall lowered height | Overall extended height |                   | Free-lift (TOF) | Mast weight |
|---------------------------|------------------------|-------------------------|-------------------|-----------------|-------------|
|                           |                        | w/load backrest         | w/o load backrest |                 |             |
| in (mm)                   | in (mm)                | in (mm)                 | in (mm)           | in (mm)         | lb (kg)     |

### 2-STAGE LIMITED FREE-LIFT (LFL) VISTA® MAST

|               |              |               |               |           |             |
|---------------|--------------|---------------|---------------|-----------|-------------|
| 100.0 (2,540) | 72.0 (1,829) | 148.0 (3,759) | 119.5 (3,035) | 6.0 (152) | 850 (386)   |
| 110.0 (2,794) | 77.0 (1,956) | 158.0 (4,013) | 129.5 (3,289) | 6.0 (152) | 900 (408)   |
| 122.0 (3,099) | 83.0 (2,108) | 170.0 (4,318) | 141.5 (3,594) | 6.0 (152) | 950 (431)   |
| 140.0 (3,556) | 92.0 (2,337) | 188.0 (4,775) | 159.5 (4,051) | 6.0 (152) | 1,050 (476) |
| 148.0 (3,759) | 96.0 (2,438) | 196.0 (4,978) | 167.5 (4,255) | 6.0 (152) | 1,100 (499) |

### 3-STAGE FULL FREE-LIFT (LFL) VISTA® MAST

|               |              |               |               |              |             |
|---------------|--------------|---------------|---------------|--------------|-------------|
| 153.0 (3,886) | 72.0 (1,829) | 201.0 (5,105) | 172.5 (4,382) | 47.0 (1,194) | 1,150 (522) |
| 168.0 (4,267) | 77.0 (1,956) | 216.0 (5,486) | 187.5 (4,763) | 52.0 (1,321) | 1,200 (544) |
| 186.0 (4,724) | 83.0 (2,108) | 234.0 (5,944) | 205.5 (5,220) | 58.0 (1,473) | 1,250 (567) |
| 213.0 (5,410) | 92.0 (2,337) | 261.0 (6,629) | 232.5 (5,906) | 67.0 (1,702) | 1,350 (612) |
| 225.0 (5,715) | 96.0 (2,438) | 273.0 (6,934) | 244.5 (6,210) | 71.0 (1,803) | 1,400 (635) |

† Lift heights over 157.0" (3,988 mm) maximum fork height require reduced capacity or restricted back tilt.

\* If load backrest extension is used on 3-stage FFL, add 28.5" (724 mm).

† Lift heights over 153.0" (3,886 mm) maximum fork height require reduced capacity or restricted back tilt.

\* If load backrest extension is used on 3-stage FFL, add 28.5" (724 mm).

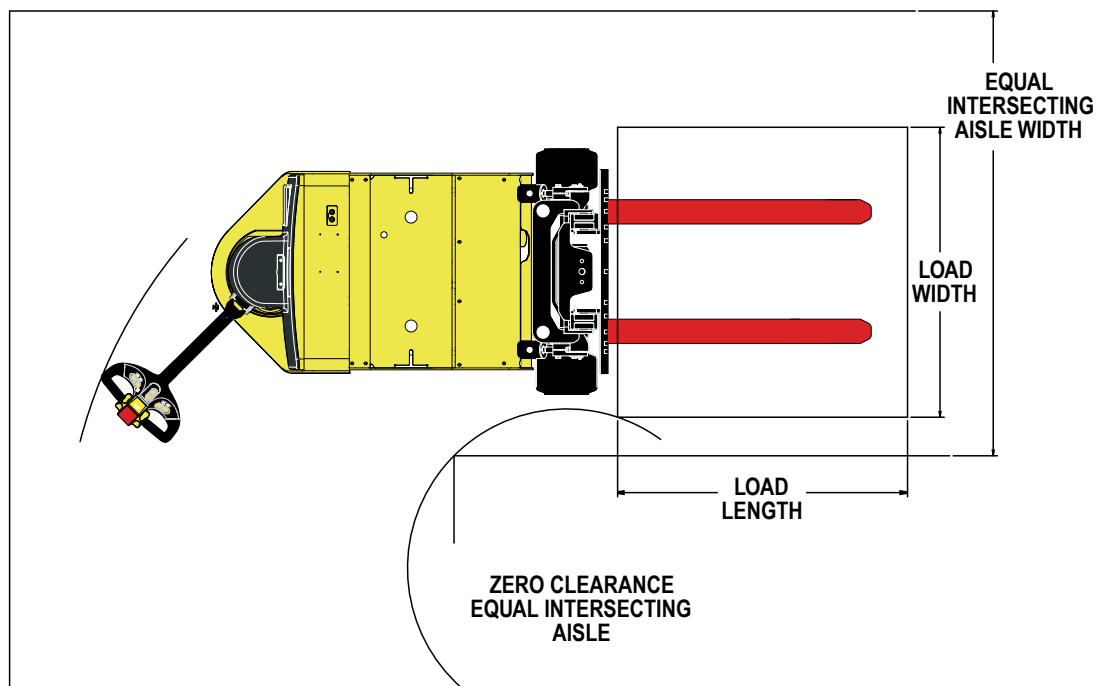
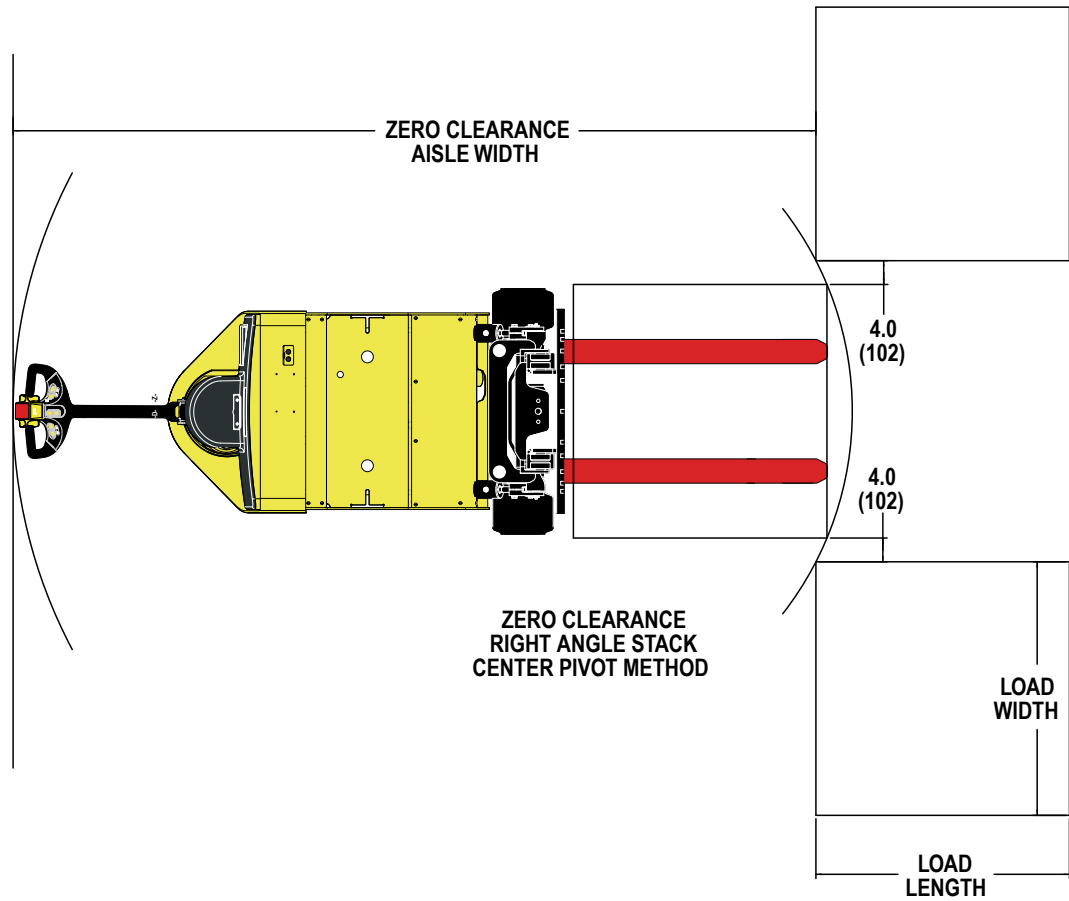
# W25-40ZC SPECIFICATIONS

| GENERAL        | 1  |                                              | Hyster Company | Hyster Company                      | Hyster Company                       |
|----------------|----|----------------------------------------------|----------------|-------------------------------------|--------------------------------------|
|                | 2  |                                              | W25ZC          | W30ZC                               | W40ZC                                |
|                | 3  |                                              | 2,500 (1,130)  | 3,000 (1,360)                       | 4,000 (1,820)                        |
|                | 4  |                                              | 24 (610)       | 24 (610)                            | 24 (610)                             |
|                | 5  |                                              | 24V - Electric | 24V - Electric                      | 24V - Electric                       |
|                | 6  |                                              | Pedestrian     | Pedestrian                          | Pedestrian                           |
|                | 7  |                                              | Cushion        | Cushion                             | Cushion                              |
|                | 8  |                                              | 1 / 2          | 1 / 2                               | 1 / 2                                |
| DIMENSIONS     | 10 | 2-stg. limited free lift (LFL) (TOF)         | in (mm)        | 126.0 (3,200)                       | 122.0 (3,099)                        |
|                | 11 | Standard free-lift (TOF)                     | in (mm)        | 6.0 (152)                           | 6.0 (152)                            |
|                | 12 | Maximum carriage width                       | in (mm)        | 33.7 (857)                          | 33.7 (857)                           |
|                | 13 | Forks, width / thickness / length            | in (mm)        | 4.0 (100) / 1.5 (40) / 42.0 (1,067) | 4.0 (100) / 1.75 (44) / 42.0 (1,067) |
|                | 14 | Fork spread (outside dimensions)             | in (mm)        | 30.4 (773)                          | 30.4 (773)                           |
|                | 15 | Tilt of mast - backward / forward            | degrees        | 5 / 4                               | 5 / 4                                |
|                | 16 | Length to face of forks                      | in (mm)        | 67.3 (1,709)                        | 79.5 (2,020)                         |
|                | 17 | Overall width (standard tires)               | in (mm)        | 38.3 (973)                          | 38.3 (973)                           |
|                | 18 | Lowered overall height (LOH)                 | in (mm)        | 83.0 (2,108)                        | 83.0 (2,108)                         |
|                | 19 | Maximum fork height (MFH)                    | in (mm)        | 126.0 (3,200)                       | 122 (3,099)                          |
|                | 21 | Turning radius, minimum outside              | in (mm)        | 58.7 (1,492)                        | 80.0 (1,803)                         |
|                | 22 | Overhang, C/L of load wheel to face of forks | in (mm)        | 8.4 (214)                           | 8.7 (221)                            |
|                | 23 | 90° stack aisle                              | in (mm)        | See chart                           | See chart                            |
|                | 24 | Equal intersecting aisle                     | in (mm)        | See chart                           | See chart                            |
| PERFORMANCE    |    | Stability (comply with ANSI?) *              | Yes            | Yes                                 | Yes                                  |
|                | 25 | Travel speed, no load                        | mph (km/h)     | 3.5 (5.6)                           | 3.1 (5.0)                            |
|                |    | Travel speed, rated load                     | mph (km/h)     | 3.4 (5.5)                           | 2.7 (4.3)                            |
|                | 26 | Lift speed, std. no load                     | ft/min (m/s)   | 36.0 (0.18)                         | 36.0 (0.18)                          |
|                |    | Lift speed, std. rated load                  | ft/min (m/s)   | 28.0 (0.14)                         | 22.0 (0.11)                          |
|                | 27 | Lowering speed, std. no load                 | ft/min (m/s)   | 60.0 (0.30)                         | 60.0 (0.30)                          |
| WT.            |    | Lowering speed, std. rated load              | ft/min (m/s)   | 74.0 (0.37)                         | 78.0 (.38)                           |
|                | 29 | Gradeability                                 | %              | 10.00                               | 10.00                                |
| WHEELS & TIRES | 31 | Total approximate weight without battery     | lb (kg)        | 4,194 (1,906)                       | 5,496 (2,493)                        |
|                | 32 | Axle load, no load drive                     | lb (kg)        | 2,239 (1,063)                       | 3,123 (1,420)                        |
|                |    | Axle load, load with minimum battery         | lb (kg)        | 2,455 (1,111)                       | 2,973 (1,351)                        |
|                | 33 | Size of tire, drive                          | in (mm)        | 10.0 x 5.0 / (254 x 127) Poly       | 10.0 x 5.0 / (254 x 127) Poly        |
|                | 34 | Size of tire, load                           | in (mm)        | 10.0 x 6.0 / (254 x 152) Poly       | 10.0 x 7.0 / (254 x 178) Poly        |
|                | 35 | Wheelbase                                    | in (mm)        | 49.0 (1,245)                        | 61.0 (1,549)                         |
| BATT.          | 37 | Ground clearance, no load lowest point       | in (mm)        | 0.6 (15)                            | 0.6 (15)                             |
|                | 38 | Ground clearance, no load center wheelbase   | in (mm)        | 2.8 (69)                            | 2.8 (69)                             |
| MOTOR          | 41 | Battery, type                                |                | Lead acid                           | Lead acid                            |
|                | 42 | Battery, volts / ampere hours                | V/ah           | 24 / 510                            | 24 / 510                             |
|                | 43 | Battery, minimum weight                      | lb (kg)        | 600 (273)                           | 600 (273)                            |
|                | 44 | Traction motor, 60 min. rating               | hp (kw)        | 2.3 (1.7)                           | 2.3 (1.7)                            |
|                |    | Pump motor, 15 min. rating                   | hp (kw)        | 4.0 (3.0)                           | 4.0 (3.0)                            |
|                | 45 | Traction motor control method                |                | Transistor                          | Transistor                           |
|                | 46 | Number of speeds                             |                | Infinitely variable                 | Infinitely variable                  |
|                | 47 | Relief pressure for attachments              | psi (kPA)      | 2,900 (19,995)                      | 2,900 (19,995)                       |
|                | 49 | Grade clearance 13.4" compartment            | %              | 22.7                                | 18.8                                 |

**CERTIFICATION:** These Hyster lift trucks meet design specifications of Part II ANSI B56.1-1969, as required by OSHA Section 1910.178(a)(2) and also comply with Part III ANSI B56.1-revision in effect at time of manufacture. Certification of compliance with the applicable ANSI standards appears on the lift truck.

† **NOTE:** Performance specifications 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.

W25-40ZC DIMENSIONS





## Zero Clearance/Right Angle Aisle Stacking/Intersecting Equal Aisle Stacking

To determine the correct dimension, take the larger sum of either the load or pallet dimensions for length and width. Add the dimension for optional configuration and the 6.0" to 12.0" operating clearance. All values are based on 4.0" spacing between loads. Please contact your local Hyster dealer for additional information on load spacing.

### Right angle stack

#### W25-40ZC Walkie Counterbalanced Stacker Truck

(Equipped with 2-stage VISTA mast and 13.5" battery compartment)

| Load width (inches) | W25ZC                |     |     |     |
|---------------------|----------------------|-----|-----|-----|
|                     | Load length (inches) |     |     |     |
|                     | 36                   | 40  | 42  | 48  |
|                     | 36                   | 125 | 130 | 132 |
|                     | 40                   | 125 | 130 | 132 |

| Load width (inches) | W30ZC                |     |     |     |
|---------------------|----------------------|-----|-----|-----|
|                     | Load length (inches) |     |     |     |
|                     | 36                   | 40  | 42  | 48  |
|                     | 36                   | 130 | 134 | 137 |
|                     | 40                   | 130 | 134 | 137 |

| Load width (inches) | W40ZC                |     |     |     |
|---------------------|----------------------|-----|-----|-----|
|                     | Load length (inches) |     |     |     |
|                     | 36                   | 40  | 42  | 48  |
|                     | 36                   | 137 | 142 | 144 |
|                     | 40                   | 137 | 142 | 144 |

### Intersecting Equal Aisle

#### W25-40ZC Walkie Counterbalanced Stacker Truck

(Equipped with 2-stage VISTA mast)

| Load width (inches) | W25ZC                |    |    |    |
|---------------------|----------------------|----|----|----|
|                     | Load length (inches) |    |    |    |
|                     | 36                   | 40 | 42 | 48 |
|                     | 36                   | 61 | 63 | 65 |
|                     | 40                   | 61 | 63 | 65 |

| Load width (inches) | W30ZC                |    |    |    |
|---------------------|----------------------|----|----|----|
|                     | Load length (inches) |    |    |    |
|                     | 36                   | 40 | 42 | 48 |
|                     | 36                   | 62 | 64 | 65 |
|                     | 40                   | 62 | 64 | 65 |

| Load width (inches) | W40ZC                |    |    |    |
|---------------------|----------------------|----|----|----|
|                     | Load length (inches) |    |    |    |
|                     | 36                   | 40 | 42 | 48 |
|                     | 36                   | 75 | 77 | 78 |
|                     | 40                   | 75 | 77 | 78 |



## W25-40ZC FEATURES AND OPTIONS

| PERFORMANCE                                       | STD | OPT |
|---------------------------------------------------|-----|-----|
| 24-volt                                           | X   |     |
| SEM traction control technology                   | X   |     |
| Energy efficient MOSFET traction/hoist controller | X   |     |
| Transistor hydraulics                             | X   |     |
| Auto deceleration system                          | X   |     |
| 3 user programmable performance modes             | X   |     |
| Creep speed control                               |     | X   |
| DRIVE                                             | STD | OPT |
| Drive tire                                        |     |     |
| - 10" x 5" press-on polyurethane                  | X   |     |
| - 10" x 5" siped polyurethane                     |     | X   |
| Load wheels                                       |     |     |
| - 10" x 6" polyurethane (W25-30ZC)                | X   |     |
| - 10" x 7" polyurethane (W40ZC)                   | X   |     |
| LIFT                                              | STD | OPT |
| Mast (W25-30ZC)                                   |     |     |
| - 104" MLH / 72" O LH 2-stage                     |     | X   |
| - 114" MLH / 77" O LH 2-stage                     |     | X   |
| - 126" MLH / 83" O LH 2-stage                     | X   |     |
| - 144" MLH / 92" O LH 2-stage                     |     | X   |
| - 152" MLH / 96" O LH 2-stage                     |     | X   |
| - 157" MLH / 72" O LH 3-stage                     |     | X   |
| - 172" MLH / 77" O LH 3-stage                     |     | X   |
| - 190" MLH / 83" O LH 3-stage                     |     | X   |
| - 217" MLH / 92" O LH 3-stage                     |     | X   |
| - 229" MLH / 96" O LH 3-stage                     |     | X   |
| Mast (W40ZC)                                      |     |     |
| - 100" MLH / 72" O LH 2-stage                     |     | X   |
| - 110" MLH / 77" O LH 2-stage                     |     | X   |
| - 122" MLH / 83" O LH 2-stage                     | X   |     |
| - 140" MLH / 92" O LH 2-stage                     |     | X   |
| - 148" MLH / 96" O LH 2-stage                     |     | X   |
| - 153" MLH / 72" O LH 3-stage                     |     | X   |
| - 168" MLH / 77" O LH 3-stage                     |     | X   |
| - 186" MLH / 83" O LH 3-stage                     |     | X   |
| - 213" MLH / 92" O LH 3-stage                     |     | X   |
| - 225" MLH / 96" O LH 3-stage                     |     | X   |
| Proportional lift/lowering                        | X   |     |

| HANDLING                                                                                   | STD | OPT |
|--------------------------------------------------------------------------------------------|-----|-----|
| 33.75" carriage                                                                            | X   |     |
| 34" hook type integral sideshift carriage                                                  |     | X   |
| 48" high load backrest extension                                                           | X   |     |
| Without load backrest                                                                      |     | X   |
| Forks (W25-30ZC)                                                                           |     |     |
| - 36" x 1.5" x 4.0" hook type - standard taper forks                                       |     | X   |
| - 42" x 1.5" x 4.0" hook type - standard taper forks                                       | X   |     |
| - 48" x 1.5" x 4.0" hook type - standard taper forks                                       |     | X   |
| Forks (W40ZC)                                                                              |     |     |
| - 36" x 1.75" x 4.0" hook type - standard taper forks                                      |     | X   |
| - 42" x 1.75" x 4.0" hook type - standard taper forks                                      | X   |     |
| - 48" x 1.75" x 4.0" hook type - standard taper forks                                      |     | X   |
| Without forks                                                                              |     | X   |
| ERGONOMICS                                                                                 | STD | OPT |
| Ergonomically designed composite control handle                                            | X   |     |
| Ergonomically designed cast aluminum control handle                                        |     | X   |
| OPERATION                                                                                  | STD | OPT |
| Key switch start                                                                           | X   |     |
| Keyless toggle start with auxiliary key switch                                             |     | X   |
| Battery connector                                                                          |     |     |
| - 175 amp red                                                                              | X   |     |
| - 175 amp grey                                                                             |     | X   |
| Multifunction display                                                                      |     |     |
| - Battery discharge indicator                                                              |     |     |
| - Hour meter                                                                               |     | X   |
| - Fault light                                                                              |     |     |
| - Lift interrupt                                                                           |     |     |
| Electric horn                                                                              | X   |     |
| Electro-magnetic park brake                                                                | X   |     |
| Traction reversing switch                                                                  | X   |     |
| CONSTRUCTION                                                                               | STD | OPT |
| UL Classification Type "E"                                                                 | X   |     |
| Application/environmental construction                                                     |     |     |
| - Standard environmental construction +32°F                                                | X   |     |
| - Cold storage/freezer package to -15°F                                                    |     | X   |
| 13.4" x 31.8" battery compartment                                                          | X   |     |
| Lift out battery removal                                                                   | X   |     |
| Side battery extraction (W40ZA)                                                            |     | X   |
| ENERGY SYSTEM                                                                              | STD | OPT |
| Set for flooded cell                                                                       | X   |     |
| Set for maintenance free                                                                   |     | X   |
| SUPPLEMENTAL                                                                               | STD | OPT |
| 12 months / no limit full truck warranty                                                   | X   |     |
| 36 months / 6,000 hours powertrain warranty                                                | X   |     |
| 60 months / 10,000 hour frame warranty                                                     | X   |     |
| 3 year 6,000 hour part A comprehensive parts and labor no deduct                           |     | X   |
| 5 year 10,000 hour part A comprehensive parts and labor no deduct                          |     | X   |
| 5 year 10,000 hour part B powertrain parts and labor no deduct                             |     | X   |
| HY-Shield - part A extension to 3 yrs / 6,000 hrs - part B extension to 5 yrs / 10,000 hrs |     | X   |
| Parts manual - CD or printed                                                               |     | X   |



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