



# PDS25

## Power Drive Straddle Truck

SHORT TURNING RADIUS MAKES THE PDS AN EXCELLENT CHOICE FOR NARROW AISLES, TOOL ROOMS OR STREET LOADING APPLICATIONS



### CAPACITY

2500 lbs. at 24" load center

### BATTERY

Compartment: 26.37" x 9.06" x open. Anderson 175 Gray—A-11 Minimum battery weight 340 lbs.

### SPEED

24-volt ZAPI ACO Travel Controller

### TRAVEL

Variable from 0 mph to 3.4 mph empty  
Variable from 0 mph to 3.1 mph loaded

### LIFT

Up to 30.9 fpm empty.  
Up to 17.6 fpm loaded

### LOWERING

Up to 18.4 fpm empty.  
Up to 17.8 fpm loaded

### WEIGHT

1943 lbs. Chassis Only

### TIRES / WHEELS

#### DRIVE

9" x 3" polyurethane

#### DUAL LOAD

(2) 3.9" x 2" polyurethane

### HYDRAULICS

Lift cylinder is hard chrome. Pump unit includes motor, gear pump, and solenoid. Pressure compensated lowering valves regulates lowering speeds.

### ELECTRICAL

ZAPI AC travel controller and AC drive motor provides high torque throughout the entire drive range. Regenerative braking and brushless design drastically reduces maintenance.

Travel speed remains constant relative to throttle position regardless of the load on truck. Automatic resetting circuit breaker and one piece micro switch design complete the system.

### BRAKES

Electromagnetic brake is mounted on motor armature shaft multiplying the braking power through the ZF GK10 transmission.

Brake is applied when control arm is in the vertical or horizontal handle position. Travel speed is reduced when forks are above 12" fork height. Position hold resists roll back on ramps.

### CONTROLS

Travel, lift, and lower functions are located in the ergonomic operator handle, designed to allow operation with either hand. Wrap around guard, reversing switch, thumb control, and horn are standard.

Crawl speed function while steer handle is slightly back-tilted from vertical. This allows for easy maneuvering at reduced travel speeds in tight places.

### TRANSMISSION

Vertically mounted drive motor is direct mounted to gear housing. Oil bathed bevel gear drive-train transfers power to axle. State of the art optimized gear technology supplies advantages such as zero maintenance, low noise level, high efficiency and high performance.

### FRAME AND MAST

Bolt-on high visibility I-beam construction, lift cylinders are positioned in outer I-beam for good operator visibility through mast. Dual lifting chains.

Three inch wide adjustable straddle legs allow easy operation in racked aisles. Straddle leg inside dimension (ID) can be set at 38" to 50" in 4" increments; 42" to 50" with the triple stage mast

Class two ITA fork carriage with 36" tall load back rest.

### BEARINGS

DRIVE WHEEL-Tapered roller bearings sealed in oil bath  
LOAD WHEELS-Sealed ball bearings

### ACCESSIBILITY

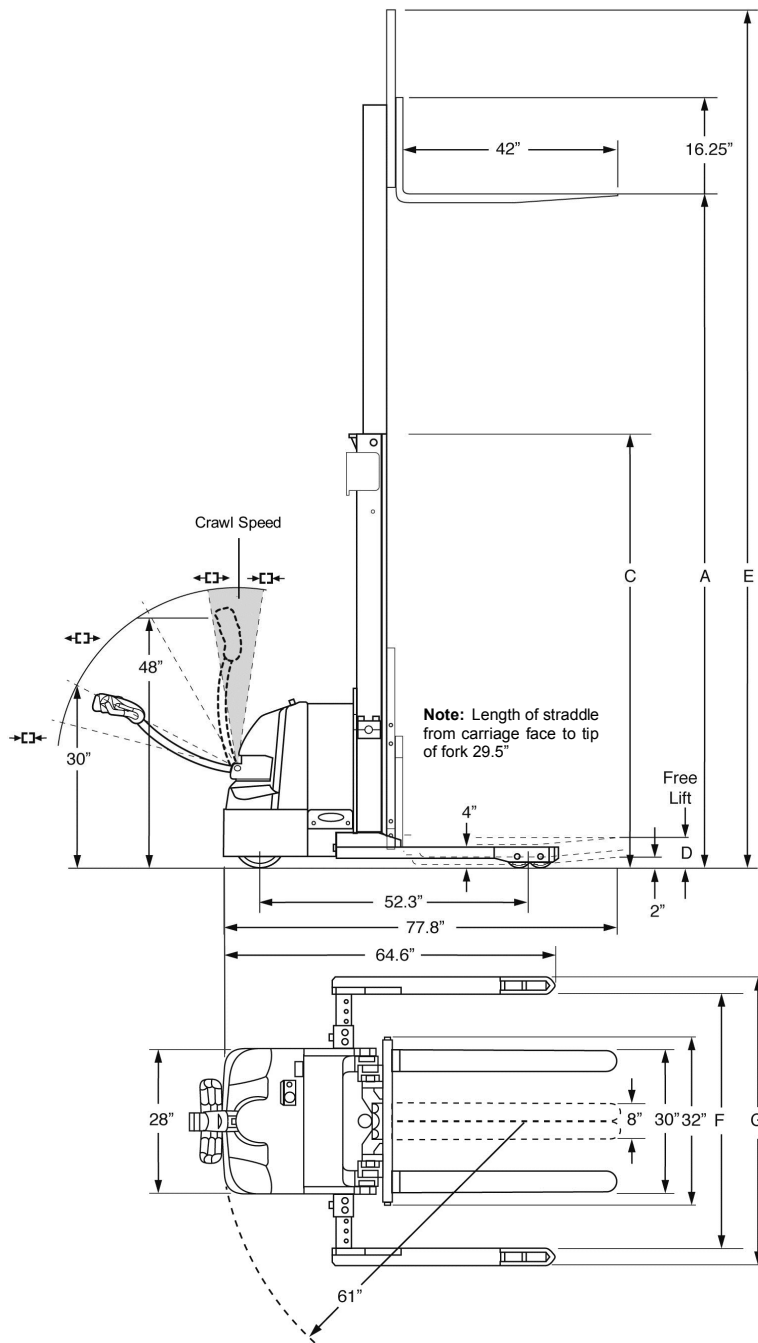
Removal of two piece power head cover exposes major components for inspection and maintenance. Drive wheel is removed with one nut.

### STANDARD EQUIPMENT

- Adjustable Straddle Legs
- 3" Wide Straddle Leg
- Regenerative Braking
- Creep Speed Handle Control
- Gas Assist Spring Handle
- Low Battery Interrupt
- Hour Meter BDI Combo Gauge
- Key Switch

### OPTIONAL EQUIPMENT

- 48" tall load backrest
- Cold conditioning
- Four Pack Power MF 224 AH / 5.4 kwh 110VAC plug-in charger
- Industrial Battery 255 AH 5.9 kwh

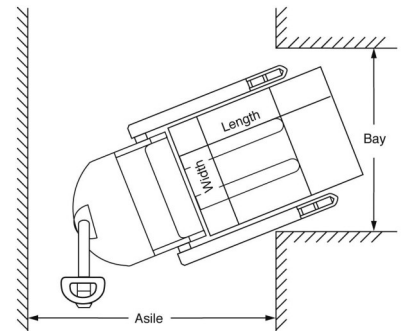


### Aisle Guide

PDS25 - Right Angle Stacking

| Load Width | Load Length |       |       |
|------------|-------------|-------|-------|
|            | 36"         | 40"   | 48"   |
| 36"        | 63.5"       | 63.5" | 63.5" |
| 40"        | 64.5"       | 64.5" | 64.5" |
| 48"        | 69.5"       | 69.5" | 69.5" |

For ease of use add 8" to aisle dimension listed



Aisle dimensions listed above assume the minimum bay width to be straddle OD plus 5" (2.5" on each either side of straddle leg). Straddle OD is the load width plus 8". Truck performance may vary due to application requirements and changes in model design.

Add: 2" to aisle for model PDS25-157 with triple stage mast.

| Model #   | Mast                 | Lift Height | Col Height | Free Lift | Ext Height w/LBR | Adjustable Straddle Leg 4" Increments |          | <sup>3</sup> Weight Chassis Only |
|---|----------------------|-------------|------------|-----------|------------------|---------------------------------------|----------|----------------------------------|
|   |                      | A           | C          | D         | E                | F                                     | G        |                                  |
| <b>2500 Capacity @ 24" Load Center ITA Class II Fork Carriage</b> |                      |             |            |           |                  |                                       |          |                                  |
| PDS 25-106  | Two Stage            | 106         | 71         | 6         | 142              | 38 to 50                              | 44 to 56 | 1726                             |
| PDS 25-130  | Two Stage            | 130         | 83         | 6         | 166              | 38 to 50                              | 44 to 56 | 1816                             |
| <sup>1</sup> PDS 25-157   | <sup>2</sup> TriMast | 157         | 72         | 50        | 193              | 42 to 50                              | 48 to 56 | 2156                             |

<sup>1</sup>Derate 500 lbs. above 142"

<sup>11</sup>Consult factory for derate

<sup>2</sup>Minimum straddle ID 42"

<sup>3</sup>Estimated shipping weight without battery



# PDS30

## Power Drive Straddle Truck

SHORT TURNING RADIUS MAKES THE PDS AN EXCELLENT CHOICE FOR NARROW AISLES, TOOL ROOMS OR STREET LOADING APPLICATIONS



### CAPACITY

3000 lbs. at 24" load center

### BATTERY

Compartment: 26.37" x 9.06" x open. Anderson 175 Gray—A-11 Minimum battery weight 480 lbs.

### SPEED

ZAPI travel controller

### TRAVEL

Variable from 0 mph to 3.4 mph empty  
Variable from 0 mph to 3.1 mph loaded

### LIFT

Up to 31 fpm empty.  
Up to 23 fpm loaded—3000lbs

### LOWERING

Up to 25 fpm empty.  
Up to 33fpm loaded—3000 lbs.

### TIRES / WHEELS

#### DRIVE

9" x 3" polyurethane

#### DUAL LOAD

(2) 4" x 2.9" polyurethane

### HYDRAULICS

Lift cylinder has hard chrome plated rods. Pump unit including motor, solenoid, gear pump, and pressure compensated lowering valve are mounted high in the power compartment for ease of service.

### ELECTRICAL

24-Volt ZAPI AC O inverter, travel control with matching drive motor provide high performance throughout the entire speed range. Travel speed remains constant relative to throttle position regardless of load. Separately fused power control circuits, quick disconnect EPD power cut off, and hour meter / battery discharge indicator combination gauge complete the system. Power configurations and diagnostic features are displayed with a ZAPI handheld console.

### BRAKES

Electromagnetic brake is mounted on the motor armature shaft multiplying the braking power through the transmission.

Brake is applied when the control arm is in the vertical or horizontal handle position. Travel speed is reduced when forks are above 12" fork height. Neutral braking resists roll back on ramps.

### CONTROLS

Travel, lift, and lower functions are located in the ergonomic operator handle. All operator controls are accessible without having to lift the hand from the handle.

Angle grips are designed to allow easy operation with either hand. Wrap around guard, reversing switch, thumb control, and horn are standard.

Top mounted tiller arm offers excellent operator comfort and minimum steering effort. Gas assisted spring gently returns handle to vertical position.

### TRANSMISSION

Vertically mounted drive motor is direct mounted to gear housing. Oil bathed bevel gear drive train with tapered roller bearings transfers power to axle. State of the art optimized gear technology supplies advantages such as zero maintenance, low noise level, high efficiency and high performance.

### FRAME AND MAST

Bolt-on high visibility mast, features I-beam construction, with lift cylinders positioned on the outer I-beam for best view through mast. Dual lift chains.

Straddle leg inside dimension (ID) can be set at 42" to 50" in 4" increments.

Class two ITA fork carriage with 36" tall load back rest. Forks are adjustable from 8" ID to 30" OD

### BEARINGS

DRIVE WHEEL-Tapered roller bearings sealed in oil bath

LOAD WHEELS-Sealed ball bearings

### ACCESSIBILITY

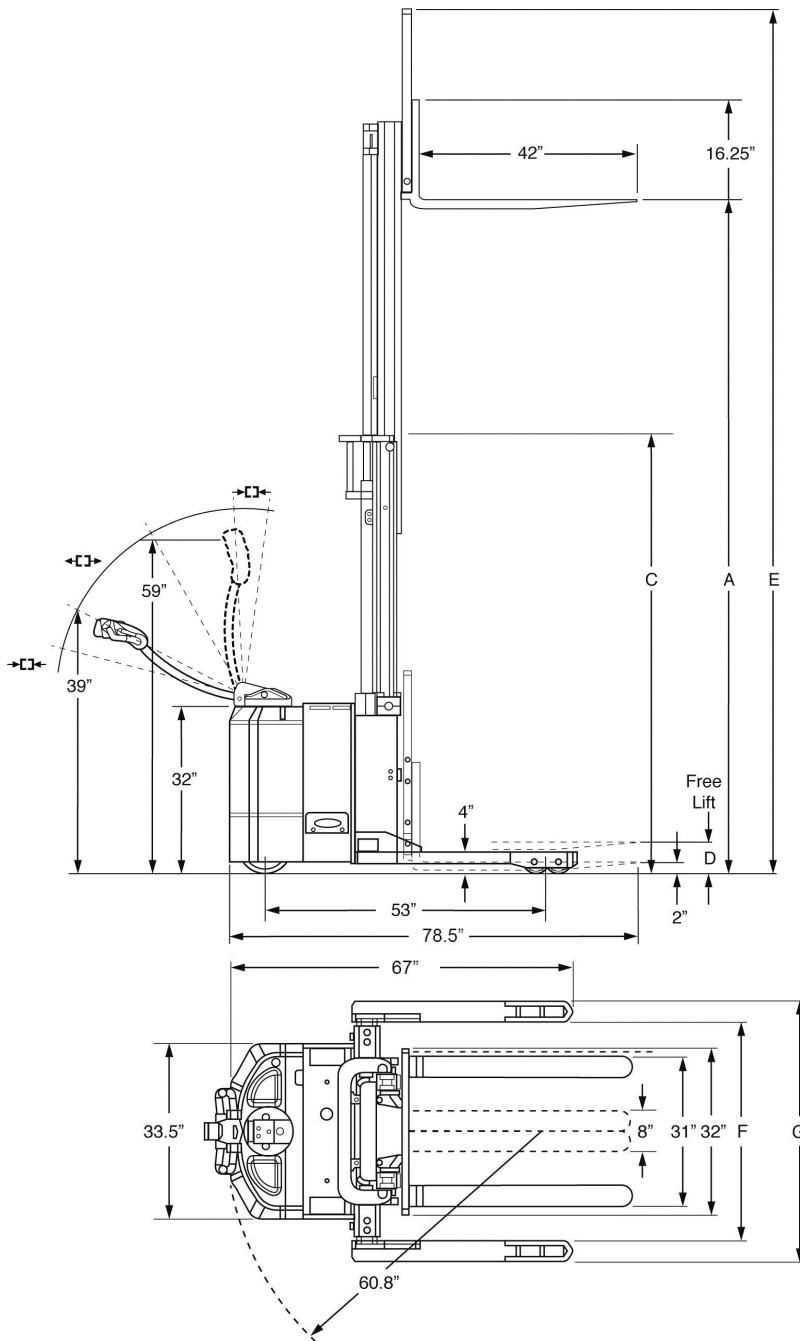
Removal of two piece power head cover exposes major components for inspection and maintenance

### STANDARD EQUIPMENT

- Adjustable Straddle Legs
- Regenerative Braking
- Creep Speed Handle Control
- Gas Assist Spring Handle
- Low Battery  Interrupt
- Hour Meter BDI Combo Gauge
- Key Switch

### OPTIONAL EQUIPMENT

- 48" tall load backrest
- Cold conditioning
- Side-Shifting Fork Carriage
- Four Pack Power MF 224 AH / 5.4 kwh 110VAC plug-in charger
- Industrial Battery 255 AH 5.9 kwh

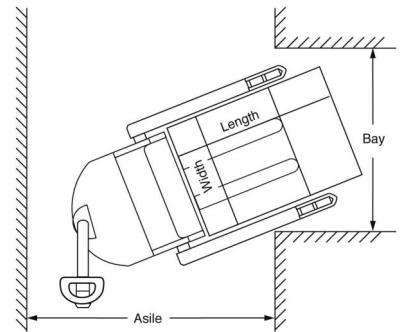


### Aisle Guide

PDS30 - Right Angle Stacking

| Load Width | Load Length |       |       |
|------------|-------------|-------|-------|
|            | 36"         | 40"   | 48"   |
| 36"        | 67.6"       | 67.6" | 67.6" |
| 40"        | 69.1"       | 69.1" | 69.1" |
| 48"        | 73.4"       | 73.4" | 73.4" |

For ease of use add 8" to aisle dimension listed. If sideshift option is used add 2".



Aisle dimensions listed above assume the minimum bay width to be straddle OD plus 5" (2.5" on each either side of straddle leg). Straddle OD is the load width plus 10". Truck performance may vary due to application requirements and changes in model design.

| Model # | Mast | Lift Height | Col Height | Free Lift | Ext Height w/LBR | <sup>2</sup> Adjustable Straddle Leg 4" Increments |    | <sup>3</sup> Weight Chassis Only |
|---------|------|-------------|------------|-----------|------------------|--|----|----------------------------------|
|         |      | A           | C          | D         | E                | ID   | OD |                                  |

### 3000 Capacity @ 24" Load Center ITA Class II Fork Carriage

|            |           |     |      |    |     |          |          |      |
|------------|-----------|-----|------|----|-----|----------|----------|------|
| PDS30-104  | Two Stage | 104 | 72.5 | 6  | 140 | 42 to 50 | 50 to 58 | 2042 |
| PDS30-126  | Two Stage | 126 | 83.5 | 6  | 162 | 42 to 50 | 50 to 58 | 2172 |
| PDS30-157  | TriMast   | 157 | 72   | 50 | 193 | 42 to 50 | 50 to 58 | 2444 |
| *PDS30-177 | TriMast   | 177 | 80   | 58 | 213 | 42 to 50 | 50 to 58 | 2539 |

\*Derates 1000 LBS above 162"

<sup>2</sup> Minimum inside dimension (ID) 42" Outside dimension = inside dimension + 8"

<sup>3</sup> Estimated shipping weight without battery





# PDS40

## Power Drive Straddle Truck

SHORT TURNING RADIUS MAKES  
THE PDS AN EXCELLENT CHOICE  
FOR NARROW AISLES, TOOL ROOMS  
OR STREET LOADING APPLICATIONS



### CAPACITY

4000 lbs. at 24" load center

### BATTERY

Compartment: 31.6" x 13.1" x open  
Anderson 175 Gray, position A-11  
Minimum battery weight 1090 lbs.

### SPEED

#### TRAVEL

Variable from 0 mph to 3.4 mph empty  
Variable from 0 mph to 3.1 mph loaded

#### LIFT

Up to 37 fpm empty.  
Up to 32 fpm loaded—4000lbs

#### LOWERING

Up to 29 fpm empty.  
Up to 56 fpm loaded—4000 lbs.

### WEIGHT

2624 lbs. Chassis Only

### TIRES / WHEELS

#### DRIVE

9" x 3" polyurethane

#### DUAL LOAD

(2) 4" x 2.9" polyurethane

### HYDRAULICS

Lift cylinder has hard chrome plated rods. Pump unit including motor, solenoid, gear pump, and pressure compensated lowering valve are mounted high in the power compartment for ease of service.

### ELECTRICAL

24-Volt ZAPI AC O inverter, travel control with matching drive motor provide high performance throughout the entire speed range. Travel speed remains constant relative to throttle position regardless of load. Separately fused power control circuits, quick disconnect EPD power cut off, and hour meter / battery discharge indicator combination gauge complete the system. Power configurations and diagnostic features are displayed with a ZAPI handheld console.

### BRAKES

Electromagnetic brake is mounted on the motor armature shaft multiplying the braking power through the drive transmission.

Brake is applied when the control arm is in the vertical or horizontal handle position. System features anti-roll back and neutral braking.

### CONTROLS

Travel, lift, and lower functions are located in the ergonomic operator handle. All operator controls are accessible without having to lift the hand from the handle.

Angle grips are designed to allow easy operation with either hand. Wrap around guard, reversing switch, thumb control, and horn are standard.

Top mounted tiller arm offers excellent operator comfort and minimum steering effort. Gas assisted spring gently returns handle to vertical position.

### TRANSMISSION

Vertically mounted drive motor is direct mounted to gear housing. Oil bathed bevel gear drive train with tapered roller bearings transfers power to axle. State of the art optimized gear technology supplies advantages such as zero maintenance, low noise level, high efficiency and high performance.

### FRAME AND MAST

Bolt-on high visibility mast, features I-beam construction, with lift cylinders positioned on the outer I-beam for best view through mast. Dual lifting chains.

Fixed straddle leg inside dimension (ID) can be set at 42" or 50". Four inch wide straddle legs = ID + 8"

Class two ITA fork carriage with 36" tall load back rest. Forks are adjustable from 8" ID to 31" OD

### BEARINGS

DRIVE WHEEL-Tapered roller bearings sealed in oil bath

LOAD WHEELS-Sealed ball bearings

### ACCESSIBILITY

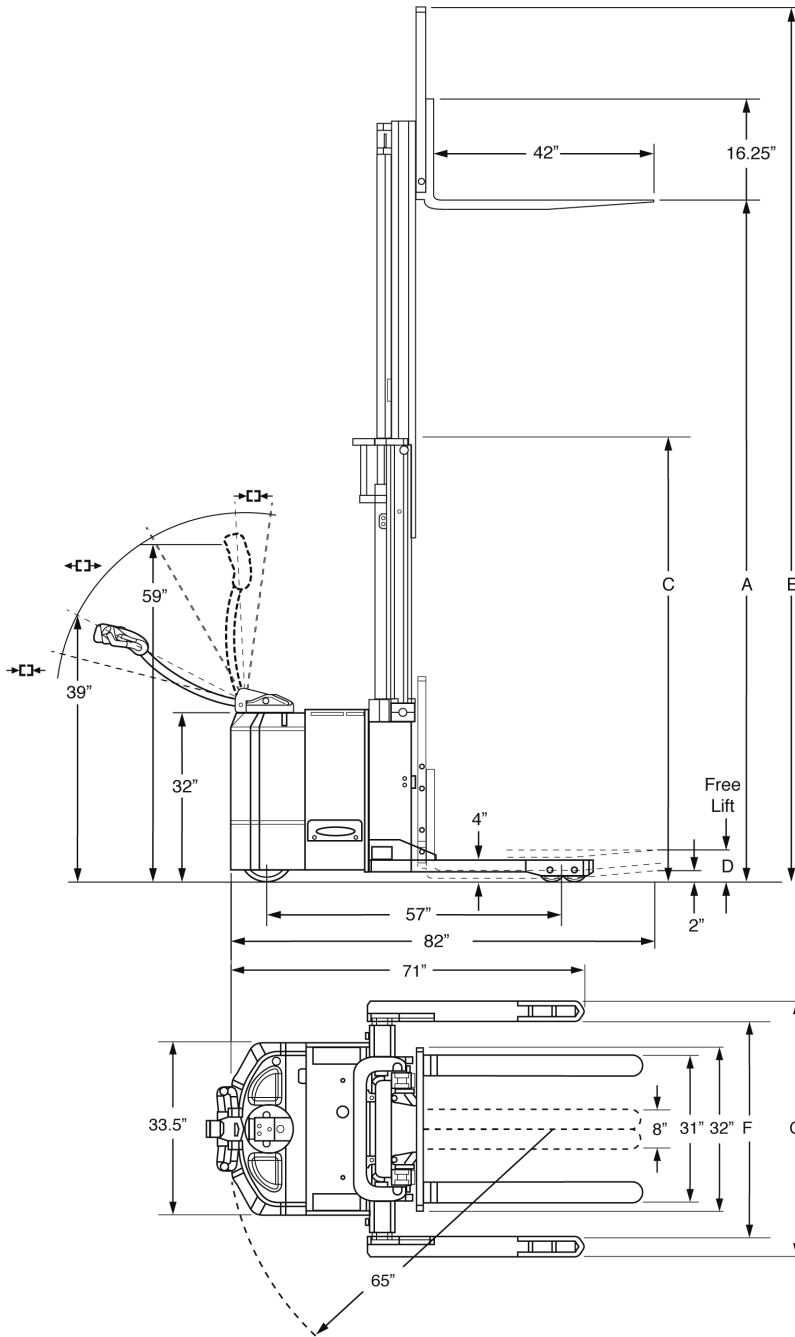
Removal of two piece power head cover exposes major components for inspection and maintenance

### STANDARD EQUIPMENT

- Regenerative Braking
- Creep Speed Handle Control
- Gas Assist Spring Handle
- Low Battery – Interrupt
- Hour Meter BDI Combo Gauge
- Key Switch

### OPTIONAL EQUIPMENT

- 48" tall load backrest
- Cold conditioning
- Side-Shifting Fork Carriage
- Battery 510 AH 11.9 kwh

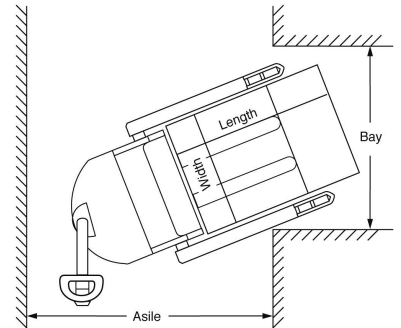


**Aisle Guide**

PDS40 - Right Angle Stacking

| Load Width | Load Length |       |       |
|------------|-------------|-------|-------|
|            | 36"         | 40"   | 48"   |
| 36"        | 79.5"       | 79.5" | 79.5" |
| 40"        | 80.5"       | 80.5" | 80.5" |
| 48"        | 80.5"       | 80.5" | 80.5" |

For ease of use add 8" to aisle dimension listed. If sideshift option is used add 2".



Aisle dimensions listed above assume the minimum bay width to be straddle OD plus 5" (2.5" on each either side of straddle leg). Straddle OD is the load width plus 10". Truck performance may vary due to application requirements and changes in model design.

| Model #              | Mast        | Lift Height | Col Height | Free Lift | Ext Height w/LBR | Fixed Straddle Leg |          | **Weight Chassis Only |
|----------------------|-------------|-------------|------------|-----------|------------------|--------------------|----------|-----------------------|
|                      |             | A           | C          | D         | E                | F                  | G        |                       |
| <b>4000 Capacity</b> |             |             |            |           |                  |                    |          |                       |
| PDS40-104            | Two Stage   | 104         | 72.5       | 6         | 140              | 42 or 50           | 50 or 58 | 2118                  |
| PDS40-126            | Two Stage   | 126         | 83.5       | 6         | 162              | 42 or 50           | 50 or 58 | 2238                  |
| PDS40-157            | Three Stage | 157         | 72         | 50        | 193              | 42 or 50           | 50 or 58 | 2514                  |
| PDS40-177*           | Three Stage | 177         | 80         | 58        | 213              | 42 or 50           | 50 or 58 | 2624                  |

\* Derates 1500 LBS above 162"

\*\* Estimated shipping weight without battery