



# PDS25

## Power Drive Straddle Truck

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



### CAPACITY

1200kg at 600mm load center

### BATTERY

Compartment: 670mm x 230mm x open.  
Anderson 175 Gray—A-11 Minimum battery weight 154kg

### SPEED

24-volt ZAPI ACO Travel Controller

### TRAVEL

Variable from 0 to 5.5 km/h empty  
Variable from 0 to 5 km/h loaded

### LIFT

Up to 0.16 m/s empty.  
Up to 0.1 m/s loaded

### LOWERING

Up to 0.1 m/s empty.  
Up to 0.1 m/s loaded

### WEIGHT

881kg Chassis Only

### TIRES / WHEELS

DRIVE 230x75 polyurethane

### DUAL LOAD

(2) 102x50 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 305mm 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.

76 mm wide adjustable straddle legs allow easy operation in racked aisles. Straddle leg inside dimension (ID) can be set at 970mm to 1270mm in 102mm increments; 1070mm to 1270mm with the triple stage mast

Class two ITA fork carriage with 915mm tall load back rest.

### BEARINGS

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

### ACCESSIBILITY

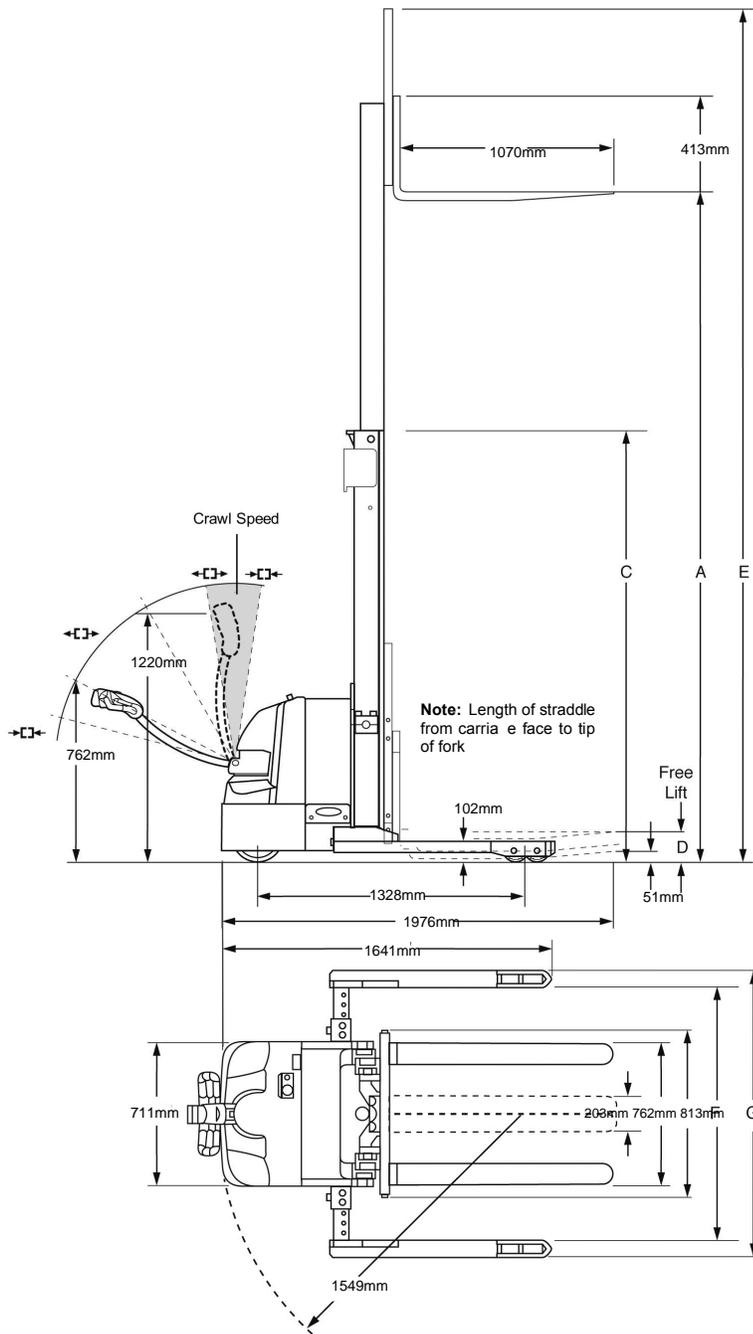
Removal of two piece power head cover exposes major components for inspection and maintenance. Drive wheel is removed with one nut.

### STANDARD EQUIPMENT

- Adjustable Straddle Legs
- 76mm 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

- 1220mm tall load backrest
- Cold conditioning
- Four Pack Power MF 224 AH / 5.4 kwh 240v plug-in charger
- Industrial Battery 255 AH 5.9 kwh

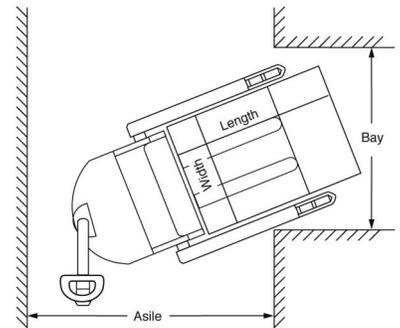


### Aisle Guide

PDS25 - Right Angle Stacking

| Load Width | Load Length |        |        |
|------------|-------------|--------|--------|
|            | 915mm       | 1016mm | 1220mm |
| 915mm      | 1613mm      | 1613mm | 1613mm |
| 1016mm     | 1638mm      | 1638mm | 1638mm |
| 1220mm     | 1765mm      | 1765mm | 1765mm |

For ease of use add 203mm to aisle dimension listed



Aisle dimensions listed above assume the minimum bay width to be straddle OD plus 127mm (64mm on each either side of straddle leg). Straddle OD is the load width plus 203mm. Truck performance may vary due to application requirements and changes in model design.

**Add: 51mm 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 102mm Increments |              | <sup>3</sup> Weight Chassis Only |
|---|----------------------|-------------|------------|-----------|------------------|--|--------------|----------------------------------|
|   |                      | A           | C          | D         | E                | F  | G            |                                  |
| <b>1200 Capacity @ 600mm Load Center ITA Class II Fork Carriage</b> |                      |             |            |           |                  |  |              |                                  |
| PDS 25-106  | Two Stage            | 2692        | 1803       | 152       | 3607             | 970 to 1270                              | 1118 to 1422 | 783                              |
| PDS 25-130  | Two Stage            | 3302        | 2108       | 152       | 4115             | 970 to 1270                              | 1118 to 1422 | 824                              |
| <sup>1</sup> PDS 25-157   | <sup>2</sup> TriMast | 3988        | 1829       | 1270      | 4902             | 1070 to 1270                             | 1220 to 1422 | 978                              |

<sup>1</sup>Derate 227kg above 3607mm

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

<sup>2</sup>Minimum straddle ID 1070mm

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