

PDS

Power Drive Straddle Trucks

Short turning radius makes it an excellent choice for narrow aisles, tool rooms or street level loading

CAPACITY

2500 lbs (1134 kgs)

BATTERY—CH

24-volt industrial battery or battery pack. Minimum battery weight 480/590 lbs (218/268 kgs). AH capacity minimum/maximum 180/255. Open battery compartment with rollers, dimensions are 26.37" x 9.06" x open (670 mm x 230 mm x open). Connector is SB-175 Gray—A-11.

SPEED

ZAPI AC O travel controller

TRAVEL

Variable from 0 mph to 3.4 mph (0 kph to 5.5 kph) empty

Variable from 0 mph to 3.1 mph (0 kph to 5 kph) loaded

LIFT

Up to 33 fpm empty

Up to 25 fpm loaded—2500lbs (1134 kgs)

LOWERING

Up to 29 fpm empty

Up to 57 fpm loaded—2500 lbs (1134 kgs)

WEIGHT

1601 lbs (726 kgs) Chassis Only

TIRES / WHEELS

DRIVE 9" x 3" (229 mm x 76 mm) polyurethane

LOAD 4" x 2.75" (102 mm x 70 mm) polyurethane

HYDRAULICS

Lift cylinder is hard chrome. Pump unit including motor, gear pump, and solenoid. Actuated using a pressure compensated lowering valve regulates lowering speeds.

ELECTRICAL

ZAPI AC travel controller and AC drive motor provide high torque throughout entire drive range. Regenerative braking and brushless design drastically reduce maintenance. Travel speed remains constant relative to throttle position regardless of 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. Reduced travel speed when forks are above 12" fork height. Neutral braking-anti-roll back on ramps.

CONTROLS

Travel, lift, 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. Creep speed function while steer handle is at 1.5° back-tilt from vertical. This allows for easy maneuvering at reduced travel speeds in tight places.



TRANSMISSION

Vertically mounted drive motor is directly mounted to gear housing. Oil bathed ZF GK10 hypoid bevel gear drive-train transfers power to axle. State of the art optimized gear technology supplies advantages such as minimal envelope circle, zero maintenance, low noise level, high efficiency and high performance.

FRAME AND MAST

Bolt-on high visibility mast, I-beam construction, lift cylinders positioned in outer I-beam for best view through mast. Dual lifting chains. Three inch wide adjustable straddle legs allow ease of use in racked aisles. Straddle leg inside dimension (ID) can be set at 38" (965.2mm) to 50" (1270 mm) in 2" (51 mm) increments .

OUTRIGGER PRESETS:

ID: 38", 40", 42", 44", 46", 50" OD: 44", 46", 48", 50", 52", 56" (ID: 965 mm, 1016 mm, 1067 mm, 1118 mm, 1168 mm, 1270 mm OD: 1118 mm, 1168 mm, 1219 mm, 1270 mm, 1321 mm, 1422 mm)

Plexiglas safety screen, 36" (914 mm) tall load back rest. Class II ITA fork carriage. Forks are adjustable: 8" ID to 24" OD (203 mm to 610 mm)

BEARINGS

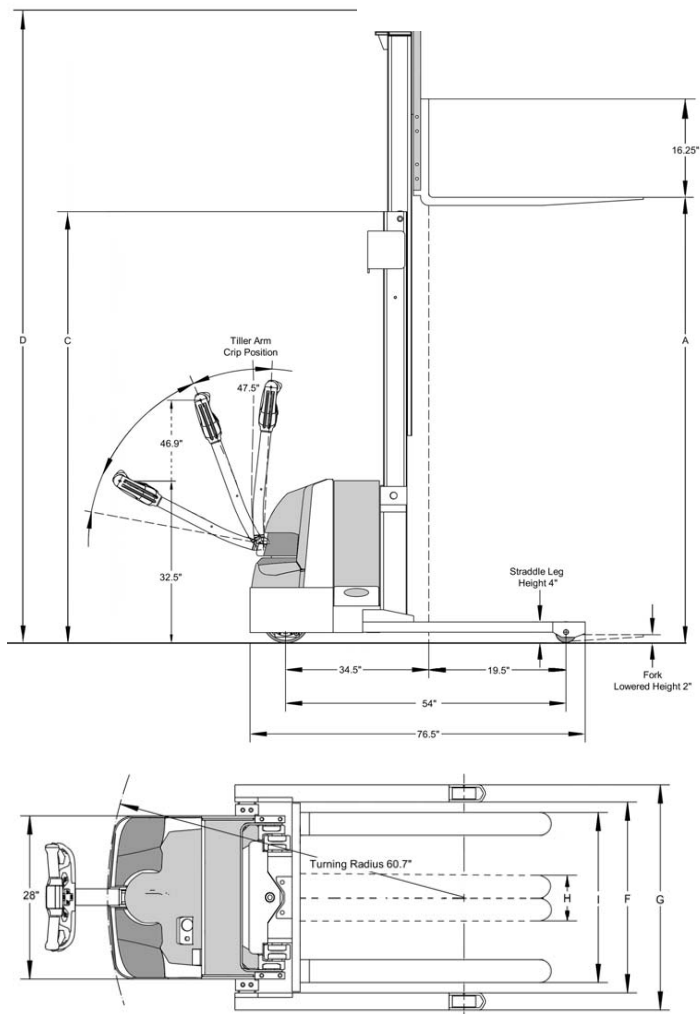
DRIVE WHEEL-Tapered roller bearings sealed in oil bath

LOAD WHEELS-Sealed ball bearings.

ACCESSIBILITY

Removal of two piece power head cover exposes major components for inspection and maintenance. Press on drive tire can be removed with one nut.



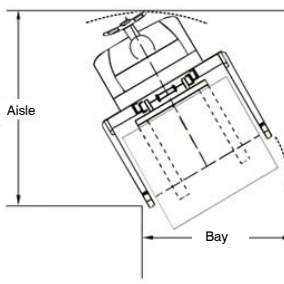


Right Angle Stacking Aisle Dimensions

Load Length	Load Width			
	36"	40"	42"	48"
36"	66"	66"	68"	69"
42"	66"	66"	68"	69"
48"	80"	80"	79"	77"

* For metric conversion multiply inches by 25.4.

- Aisle dimensions listed have zero clearance
- Add 12" for ease of use



Note: Aisle dimensions listed above assume the bay width to be straddle OD plus 2" (1" on each either side of straddle leg). Straddle OD is the load width plus 8".

* For metric conversion multiply inches by 25.4.

- ZAPI travel control
- ZF GK10 Drive
- Neutral braking
- Creep speed control
- Gas assist spring handle
- Steel wrap around bumper
- 3" wide adjustable straddle legs
- Low battery lift-interrupt
- Hour meter BDI combo gauge

* For metric conversion multiply inches by 25.4.

Model #	Lift Height	Col Height	Free Lift	Ext Height w/LBR	Adjustable Straddle Leg 2" Increments		Forks		Ship Weight w/o BAT
					ID	OD	ID	OD	
	A	C		D	F	G	H	I	
2,500 Capacity @ 24" Load Center ITA Class II Fork Carriage									
PDS 25-106	106	71	6	142	38 to 50	44 to 56	8	24	1351
PDS 25-130	130	83	6	165	38 to 50	44 to 56	8	24	1376
PDS 25-142	142	95	6	178	38 to 50	44 to 56	8	24	1401
PDS 25-157	157	71	50	193	38 to 50	44 to 56	8	24	1601

* For metric conversion multiply inches by 25.4.



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