

# PDX20

**Power Drive  
All-Steel  
Straddle  
Trucks**



PDX20 Shown with flashing light option and custom straddles & fork tines for furnace loading applications.



# PDX20

## Power Drive All-Steel Straddle Trucks STANDARD EQUIPMENT

■ **Channel and I-Beam Mast.** High grade steel mast construction features interlocked channel and I-beam design with roller bearing surfaces. Mast and carriage is of fully-rolled construction for smooth, long-wearing performance. This type of construction accommodates high lifting stresses and maintains load stability.

■ **Direction Reversing "Belly-Button" Impact Switch.** A reversing switch, built into the control handle is designed to reverse truck direction on contact with the operator.

■ **Fully Protected Electrical System.** Fully fuse protected, heavy-duty 100 ampere industrial contactors are standard. All wiring is coded for easy servicing.

■ **Battery Charger.** Internally mounted fully automatic "smart" charger provides amount of charge necessary. Plugs into standard 110 volt AC outlet.

■ **Versatile Braking Systems.** Two-way mechanical brake in top and bottom 15° of handle arc actuates automotive-type disc brake proportional to handle movement, allowing operator complete control of braking from "feathering" through full emergency stop. When released, handle returns to upright position and applies the brake.

■ **Industrial Rated Batteries.** Built to withstand deep-discharge and recharging, industrial rated batteries contain heavy plates and separators. Externally mounted quick-release battery disconnect is readily accessible to remove all power from truck circuits in the event of an emergency. Removable compartment covers provide easy access to batteries for maintenance.

■ **High Strength Construction.** Unitized seam-welded steel frame resists operational stresses and provides a rugged housing to protect truck components.

■ **Chrome Plated Lift Cylinder.** Provides smooth lift/lower operation and maintenance-free long cylinder life.

■ **Pressure-Compensated Flow Control Valve.** Located at base of lift cylinder, regulates lowering speed (on telescopic models only).

■ **V-Boxed Load Wheels on Straddle Legs.** This improved straddle leg design not only protects load wheels, but its angular shape aids in pushing empty pallets or other obstructions to the side and away from the truck's work path.

## OPTIONS (other options available, consult factory)

■ **Adjustable Straddle Option.** Available for the straddle I.D. range of 38" to 50". Adjusts in 4" increments. Will allow the truck to work with a variety of pallet sizes. Ideal if future pallet requirements may change.

■ **Custom special application configurations.** The PDX20 can be outfitted with a wide range of accessories and attachments for die handling, furnace loading, transportation and placement of drums, coils, rolls and more.



## SPECIFICATIONS

<b>Lifting Capacity:</b>	2,000 lbs. at 24" load centers
<b>Lift Range:</b>	57" - 144"
<b>Power System:</b>	24 volt
<b>Turning Radius:</b>	56.2"
<b>Travel:</b>	Infinitely variable
<b>BATTERY:</b>	(2) 12v 85AH Deep Cycle AGM
<b>CHARGER:</b>	15A integral 120 vac automatic charger

**Fork Length x Width x Thickness:** 42" x 4" x 1 1/4"

**Fork Lowered Ht.:** 1.75" (A5 - A7) 2.5" (T8 - T12)  
**Fork ID Range:** 6" (A5 - A7), 10.1" (T8 - T12)  
**Fork OD:** 24"

**WHEELS:**  
**Drive (Standard):** 9" Dia. x 3" wide, polyurethane  
**Load:** 4" dia. x 3" wide polyurethane 4"

**Clearance:** 1 1/2" floor to bottom of straddle

**Free Lift:** 57 3/4" non-telescopic 12" telescopic

Performance:			
<b>Lift Speed (FPM)</b>			
<i>Empty</i>	39.0		
<i>Loaded</i>	25.4		
<b>Lowering Speed (FPM)</b>			
<i>Empty</i>	19.5		
<i>Loaded</i>	19.9		
<b>Travel Speed (MPH)</b>			
<i>Empty</i>	3.0		
<i>Loaded</i>	2.4		
<b>Gradeability</b>	10%		
<b>Grade Clearance</b>	10%	(8% with adjustable straddles)	

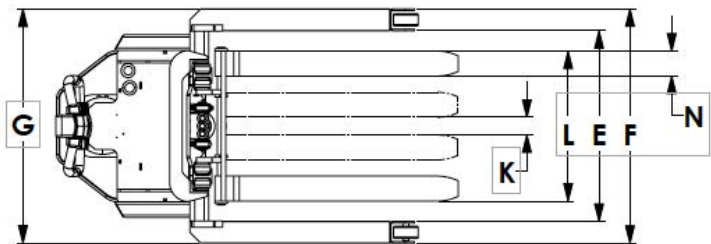
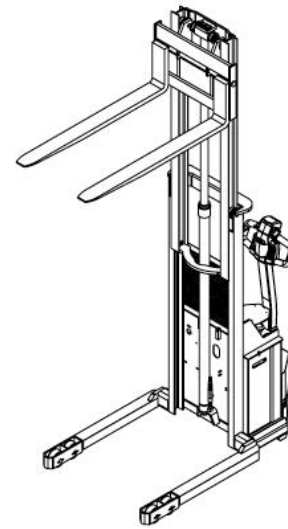
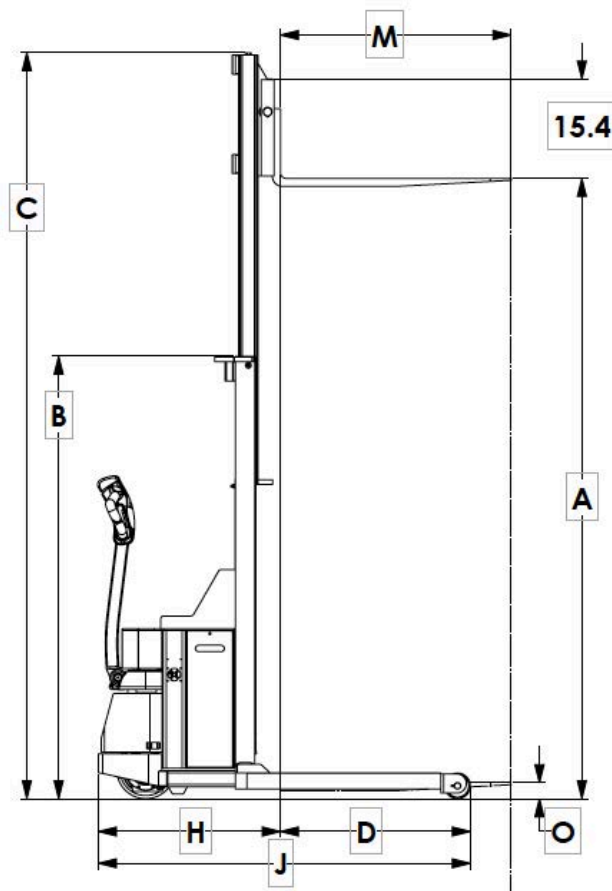
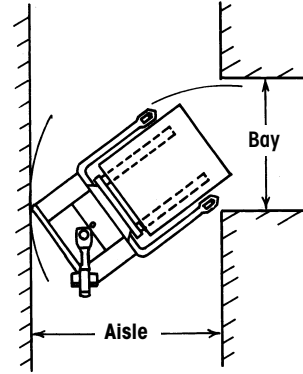


# DIMENSIONS

LOAD LENGTH	RIGHT ANGLE STACKING			
	LOAD WIDTH			
	36"	40"	42"	48"
36"	66"	66"	68"	69"
42"	66"	66"	68"	69"
48"	80"	66"	79"	77"

Aisle dimensions are zero clearance; 12" should be add for efficient operation.

Aisle dimensions assume bay width to be the straddle O.D. plus 12" (1" on each side) where straddle O.D. is the load width plus 10".



Model	Lift Height	Col Height (1)	Ext. Height (1)	Straddles			Cabinet Width	Power Head	Overall Length (4)	Turn Radius	Ship Weight
				Length (2)	ID (5)	OD					
	A	B	C	D	E	F	G	H	J		
<b>2000 Capacity @ 24" Load Center, (A) Adjustable Carriage, (T) Non-Telescopic</b>											
PDX20-2024-A5	57	74.8	76	29.9	26 or 42	34 or 50	29.5	27.9	58	56	1275
PDX20-2024-A6	69	86.8	88	29.9	26 or 42	34 or 50	29.5	27.9	58	56	1300
PDX20-2024-A7	81	98.8	100	29.9	26 or 42	34 or 50	29.5	27.9	58	56	1325
<b>2000 Capacity @ 24" Load Center, (R) Adjustable Carriage, (T) Telescopic</b>											
PDX20-2024-T8	96	69	116	29.4	30.5 or 42.5	38 or 50	29.5	28.6	58	56	1375
PDX20-2024-T9	108	75	128	29.4	30.5 or 42.5	39 or 50	29.5	28.6	58	56	1400
PDX20-2024-T10	120	81	140	29.4	42	50	29.5	28.6	58	56	1425
PDX20-2024-T11	132	87	152	29.4	42	50	29.5	28.6	58	56	1450
PDX20-2024-T12	144	93	164	29.4	42	50	29.5	28.6	58	56	1475

\*For adjustable straddles add 3<sup>5</sup>/<sub>8</sub>"

\*\*Face of fork to end of load wheels.

\*\*\*To face of fork.

# PDX20

## POWER DRIVE MEDIUM-DUTY STRADDLE TRUCKS

### TECHNICAL DATA

#### ELECTRICAL SYSTEM

All power is routed via an "SB" type connector (standard) to primary fuse protection, where power then is separated to drive, lift and control system subcircuits.

Modular drive control panel has premium, industrial-grade contactors with replaceable silver-alloy tips.

All cables and wiring are coded for easy servicing.

Hydraulic pump motor is specially selected for peak electrical efficiency at specific torque and rpm lift pump requirements.

Drive control circuits are routed to the control head via multiple conductor cable.

Control circuits are fuse-protected, numbered, and terminate in plug-in type connectors.

#### STRUCTURAL SYSTEM

Mast construction is interlocked channel and I-Beam, rolled specifically for lift truck use.

Fully rollered inner mast and lift carriage.

Unitized construction chassis, mast, and straddles form an integral, welded steel structure built to take operational stresses. All surfaces prone to receive accidental impact are heavy gauge steel. Continuous-seam welding is used throughout the chassis.

2000 lb. capacity forks — 1.50 thick x 4" wide alloy steel forged forks bottom taper of 14" and beveled fork tips.

#### DRIVE SYSTEM

The entire drive train steers the truck via a bearing-mounted pivot tube.

This arrangement multiplies the braking force by the 22:1 transmission ratio, providing effective stopping action.

Direct drive, full oil bath transmission, operates through 22:1 gear reduction in ductile-iron transmission case with heat-treated spur gears and premium industrial bearings.

#### HYDRAULIC SYSTEM

Gear pumps are mated to lift cylinders to provide efficient lift performance at modest power-draw levels.

Built-in relief valve protects system from overload.

Pressure-compensated flow control valve at base of lift cylinder regulates lowering speed.

Reservoir is removable, and comes equipped with foam-filter cap and dipstick.

#### SAFETY FEATURES

Automatic high-speed cut-off circuit locks out 3rd speed when forks are elevated above 18".

"Belly-button" switch provides operator protection when maneuvering. Upon body contact, switch activates low speed in the opposite direction.

Slip-resistant handgrips provide firm control of steering arm.

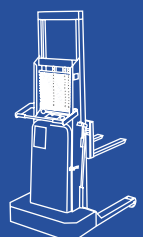
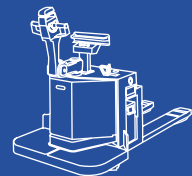
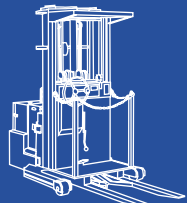
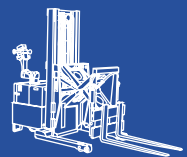
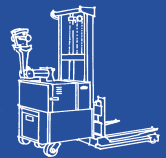
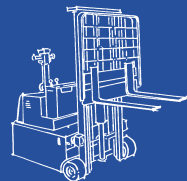
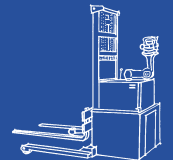
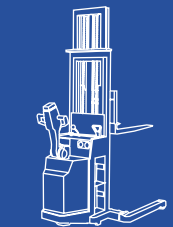
"Dead-man" braking occurs when spring loaded control handle is released and returns to upright position, turning off electrical power and applying disc brake.

Externally mounted battery disconnect is accessible to the operator for emergency power interrupt.

All power and control circuits are fuse-protected.

#### CERTIFICATION

ANSI B56.1



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