



PDX30

Power Drive
All-Steel
Straddle
Trucks



PDX30

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-rollered 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. Hinged battery 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.

■ **Advanced Handle Control.** Models come equipped with the industry’s most versatile control handle. Speed may be controlled with twist grip or thumb control. Includes 3-speed forward and reverse detent action speed control; thumb control of horn and lift / lower.

■ **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.

■ **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 PDX30 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

Lifting Capacity:	3,000 lbs. at 24” load centers
Lift Range:	60” - 154”
Power System:	24 volt
Turning Radius:	From 58”
Travel:	Infinitely variable
BATTERY:	(2) 12v 200AH
CHARGER:	15 amp integral 120 vac automatic charger

Fork Length x Width x Thickness:

36” or 42” x 4” x 1 1/4”
36” or 42” x 4” x 1 1/2”

Fork Lowered Ht.: 2” (min.)
Fork OD Range: 6” (min.), 28” (max.)

WHEELS:

Drive (Standard): 10” Dia. x 4” wide, rubber

Load: Dual 4” dia. x 2 3/4” wide polyurethane
Caster: 4” dia. x 2” wide polyurethane

Clearance: 1 1/2” floor to bottom of straddle

Free Lift: 57 3/4” non-telescopic 12” telescopic

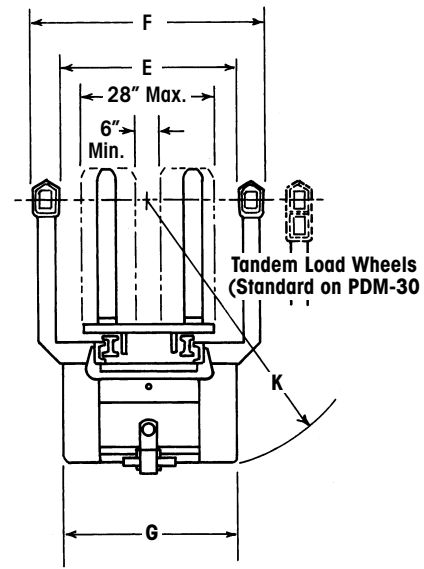
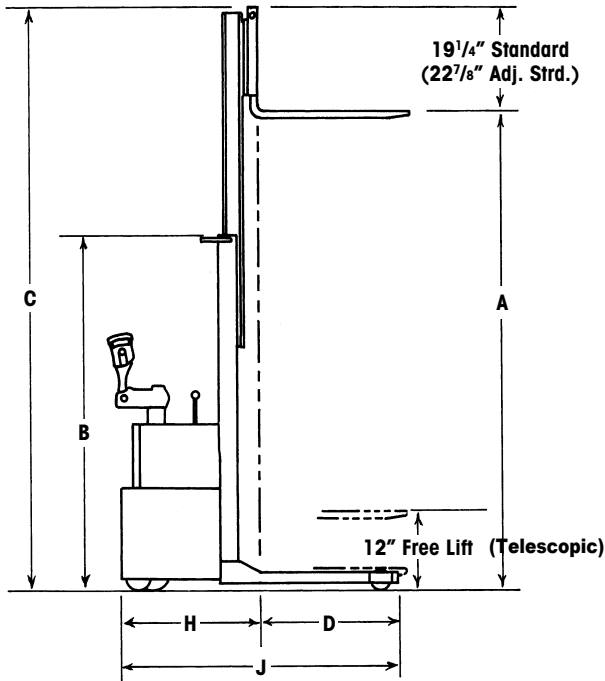
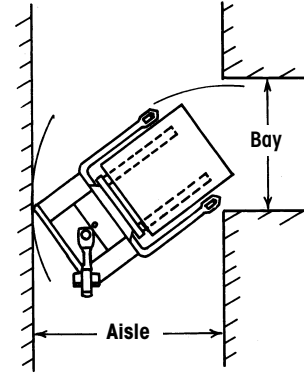
Performance:	PDM20	PDM25	PDM30
Lift Speed (FPM)			
<i>Empty</i>	26.6	26.6	26.6
<i>Loaded</i>	16.5	14.9	12.8
Lowering Speed (FPM)			
<i>Empty</i>	27.5	27.5	27.5
<i>Loaded</i>	32.5	34.9	36.3
Travel Speed (MPH)			
<i>Empty</i>	2.8	2.8	2.8
<i>Loaded</i>	2.4	2.3	2.2
Gradeability	10%	10%	10%
Grade Clearance	11%	11%	10%

DIMENSIONS

LOAD LENGTH	RIGHT ANGLE STACKING			
	LOAD WIDTH			
	36"	40"	42"	48"
36"	70"	71"	72"	74"
42"	70"	71"	72"	74"
48"	70"	71"	72"	74"

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 NO.	CAPACITY AT 24" LOAD CENTER	LIFT HT. A	COLL. HT. * B	EXT. HT. * C	STRADDLES			POWER HEAD WIDTH G	POWER HEAD LENGHT *** H	OVERALL LENGHT J	TURN RADIUS K	APPROXIMATE SHPG. WEIGHT W/BATTERIES
					LENGTH ** D	ID E	OD F					

PDX30 SERIES

NON-TELESCOPIC

PDX30-60	3000	60	77	79 1/4	28 5/8	42	50	36	29 3/8	58	58	1555
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TELESCOPIC

PDX30-106	3000	106	71.2	125 1/4	28 5/8	42	50	36	29 3/8	59.7	58.4	1905
PDX30-130	3000	130	83.2	149 1/4	28 5/8	42	50	36	29 3/8	59.7	58.4	1985
PDX30-154	3000	154	95.2	173 1/4	28 5/8	42	50	36	29 3/8	59.7	58.4	2065

*For adjustable straddles add 3 5/8" **Face of fork to end of load wheels. ***To face of fork.

PDX30

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.

All cables and wiring are coded for easy servicing.

High-torque, class H insulated drive motor has copper-graphitic brushes for peak electrical efficiency and long life.

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

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.

3000 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. Coil-spring suspension provides constant traction. Heavy-duty casters support variable weight for consistent steering effort regardless of pay-load size.

Disc brake is mounted to drive motor armature. 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

Infinitely variable ball-type lowering valve provides full-range operator control and no-drift, positive system check in neutral.

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

Full system filtration is provided on the intake side of the pump which prevents foreign matter from entering the system.

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 activates 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.

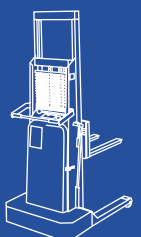
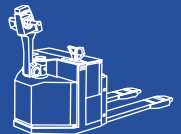
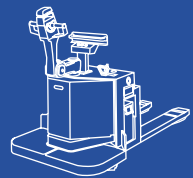
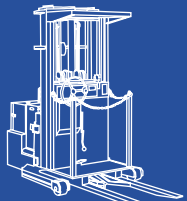
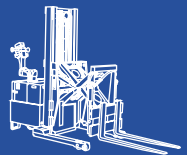
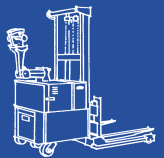
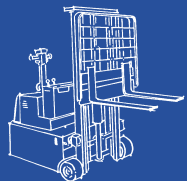
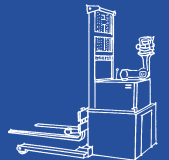
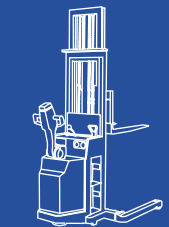
"Dead-man" braking occurs when spring loaded control handle is released and returns to upright position, turning off electrical power and applying disc brake.

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

All power and control circuits are fuse-protected.

CERTIFICATION

Designed and tested to ANSI B56 standards



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