

POWERWORKERS



# Walkie & Walkie/Rider Pallet Trucks Electric 24 Volt

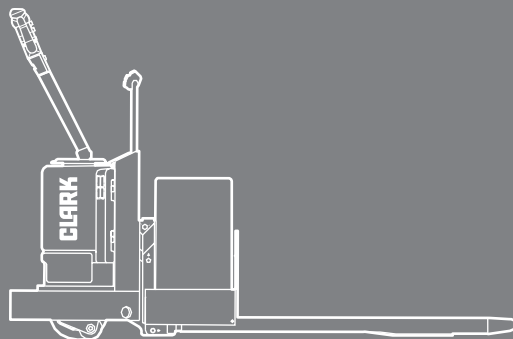
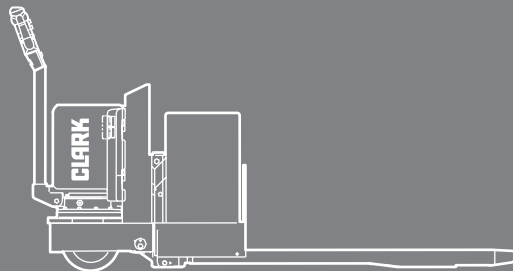
PWD/HWD30<sup>SE</sup>

6,000 lbs 2725 kg

PWD/HWD40<sup>SE</sup>

8,000 lbs 3635 kg

# PWD30/40<sup>SE</sup> HWD30/40<sup>SE</sup>



CLARK THE FORKLIFT

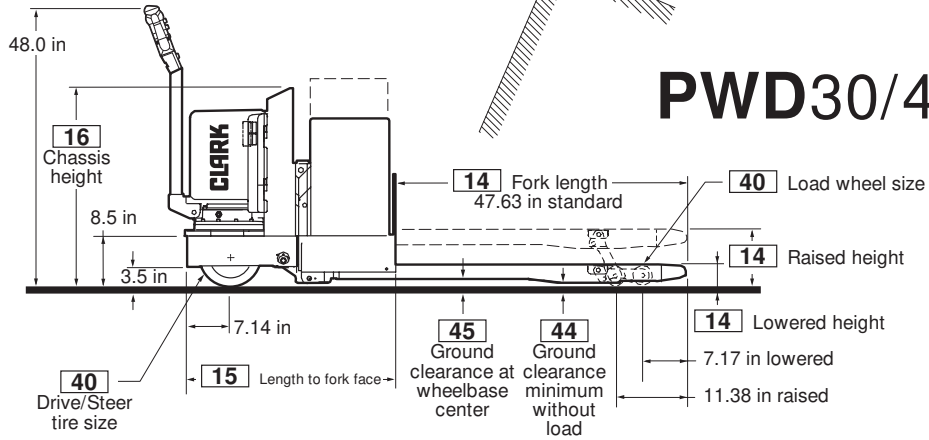
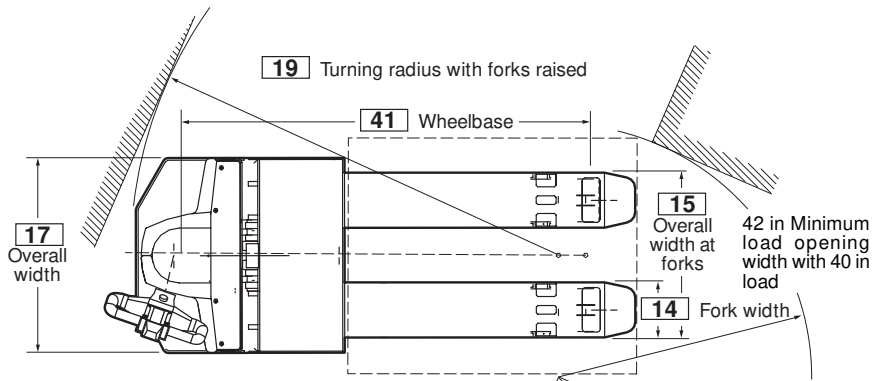
North America

Germany

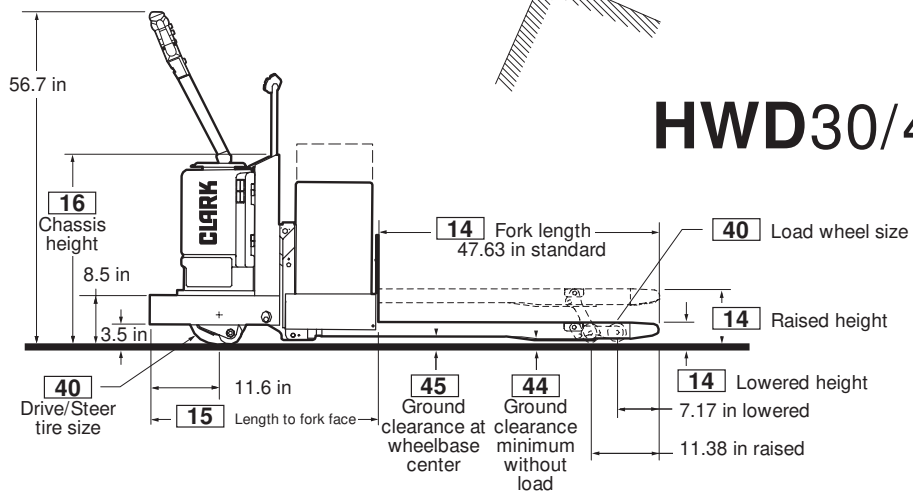
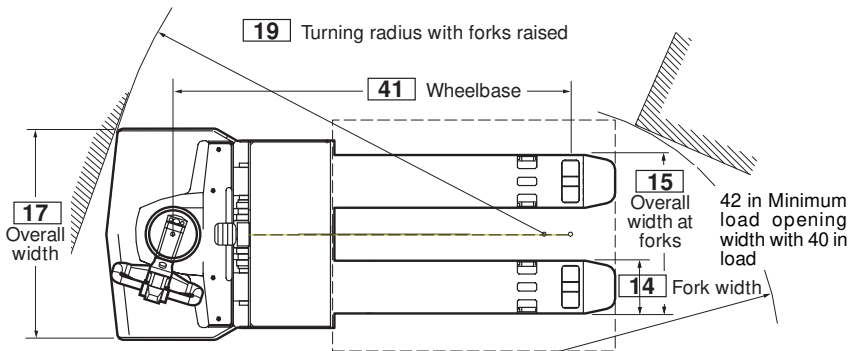
Korea

w w w . c l a r k m h c . c o m

For corresponding data see Specification Chart.



**PWD30/40<sup>SE</sup>**



**HWD30/40<sup>SE</sup>**

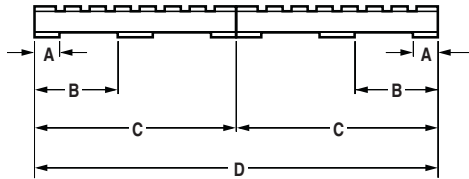
DIMENSIONS

# PWD30/40<sup>SE</sup>

## Battery Compartment Dimensions

	Width (W) inches	Length (L) inches	Height (H) inches
Small	35.5	7.0	All
Large	31.4	13.6	All

## Fork Lengths and Pallet Dimensions (in)



- A - Bottom board width
- B - Minimum clearance for wheel drop from end of pallet
- C - Pallet length
- D - Double load length

For Single Pallet Handling Fork Length	A	B	C	D
35.63	6	15	36	36
41.63	6	15	42	42
47.63	6	15	48	48
53.63	6	15	54	54
59.63	6	15	60	60
71.63	6	15	72	72
95.63	6	15	96	96

For Double Pallet Handling Fork Length	A	B	C	D
84/93/96	6	15	48	96

## Available Equipment

Available equipment for both PWD and HWD models includes: Battery discharge indicator, battery discharge indicator with lift lock-out, hour meter, load backrests, polyurethane drive tire, battery compartment rollers and right hand exit gate, U.L. EE rating (PWD/HWD 30 only), cold storage protection, corrosion protection, convenience tray (for large battery compartment only), and "T" style dual load wheels. Standard fork options include 22" fork width, 60", 72" and 96" standard fork lengths, and first opening second pallet 84", 93", and 96" extended tip forks. Available for HWD: Side mounted order picking button, coast control, operator compartment padding.

### Notes

Performance may vary +5% and -10% due to motor and system efficiency tolerance. The performance shown represents nominal values which may be obtained under typical operating conditions.

Clark products and specifications are subject to change without notice.  
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### ANSI/ASME and Insurance Classification

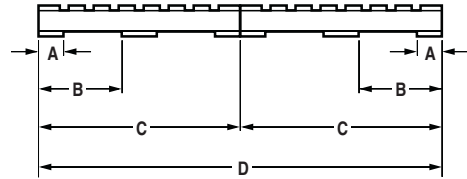
Standard truck meets all applicable mandatory requirements of Part II ASME-B56.1 Safety Standard for Powered Industrial Trucks and Underwriters

# HWD30/40<sup>SE</sup>

## Battery Compartment Dimensions

	Width (W) inches	Length (L) inches	Height (H) inches
Small	35.5	7.0	All
Large	31.4	13.6	All

## Fork Lengths and Pallet Dimensions (in)



- A - Bottom board width
- B - Minimum clearance for wheel drop from end of pallet
- C - Pallet length
- D - Double load length

For Single Pallet Handling Fork Length	A	B	C	D
35.63	6	15	36	36
41.63	6	15	42	42
47.63	6	15	48	48
53.63	6	15	54	54
59.63	6	15	60	60
71.63	6	15	72	72
95.63	6	15	96	96

For Double Pallet Handling Fork Length	A	B	C	D
84/93/96	6	15	48	96

Laboratories requirements as to fire and electrical shock hazard for "E" classification. For further information contact a Clark representative.

## For Your Safety

- Do not operate motorized hand trucks unless you are trained and authorized. Read and understand the operator's manual before operating.
- Do not operate a damaged or faulty truck. Do not attempt repairs unless you are trained and authorized.
- Keep hands on designated grips and feet away from truck. Do not operate truck with wet or greasy hands or shoes.
- Enter confined areas with load end first. Be very careful when operating in confined areas to avoid being pinned.
- Avoid uneven or slippery surfaces and loose materials.
- Travel slowly and with caution on slopes and do not turn. Always travel with load end down grade.
- Do not load truck over capacity on nameplate. Do not handle unstable loads. Be very careful when handling long, high, or wide loads.
- Do not exceed floor weight limits.

# SPECIFICATIONS

General Information	1	Manufacturer		Clark	Clark	
	2	Model	Manufacturer's Designation	PWD30	PWD40	
	3	Load Capacity		lbs(kg)	6000 (2725)	8000 (3635)
	4	Load Center	Fork Face Load CG	in(mm)	24 (600)	24 (600)
	5	Power Unit	Electric		24 volt	24 volt
	6	Operator Type			Walk/low lift/pallet	Walk/low lift/pallet
	7	Tire Type	Drive/Steer - load		Rubber/Urethane	Rubber/Urethane
	8	Wheels (x=driven)	Front/Rear		1x / 2	1x / 2
Basic Dimensions	14	Fork	Lift height to top of fork	in(mm)	9.25 (235)	9.25 (235)
			Lowered height at heel/toe	in(mm)	3.50/3.25 (89/83)	3.50/3.25 (89/83)
			Thickness	in(mm)	2.38 (60)	2.38 (60)
			Width <sup>1</sup>	in(mm)	9.0 (229)	9.0 (229)
			Usable length <sup>2</sup>	in(mm)	47.63 (1210)	47.63 (1210)
	15	Overall Dimensions	Length to Fork Face <sup>3</sup>	in(mm)	28.27/34.27 (718/870)	28.27/34.27 (718/870)
			Overall width, forks	in(mm)	27.0 (686)	27.0 (686)
	16		Height	in(mm)	32.39 (823)	32.39 (823)
	17		Width	in(mm)	36.0/32.0 (914/813)	36.0/32.0 (914/813)
	19	Turning Radius	With 48Lx40W pallet raised <sup>3</sup>	in(mm)	64.6/70.6 (1641/1793)	64.6/70.6 (1641/1793)
With 48Lx40W pallet lowered <sup>3</sup>			in(mm)	69.1/75.1 (1755/1908)	69.1/75.1 (1755/1908)	
22	Right Angle Stack Aisle (Add 6-8" Operating Clearance)	With 48Lx40W pallet raised <sup>3</sup>	in(mm)	69.4/75.4 (1763/1915)	69.4/75.4 (1763/1915)	
		With 48Lx40W pallet lowered <sup>3</sup>	in(mm)	73.2/79.2 (1859/2012)	73.2/79.2 (1859/2012)	
Wt Perf	24	Speeds	Travel Speed, Max w/ Load	mph(kph)	3.3 (5.3)	3.0 (4.8)
	25		Travel Speed, Max w/o Load	mph(kph)	4.0 (6.4)	4.0 (6.4)
Wt	34	Service weight	Including battery <sup>3</sup>	lbs(kg)	1350/1760 (614/800)	1420/1830 (645/832)
Chassis	39	Tires	Number, Front/Rear		1 / 2	1 / 2
	40		Size, Front	in(mm)	10.0 x 4.75 x 6.5 (254 x 121 x 165)	10.0 x 4.75 x 6.5 (254 x 121 x 165)
			Size, Rear	in(mm)	3.25 x 5.75 (83 x 146)	3.25 x 5.75 (83 x 146)
	41	Wheelbase	With forks lowered <sup>3</sup>	in(mm)	61.6/67.6 (1565/1717)	61.6/67.6 (1565/1717)
	44	Ground Clearance	Minimum without Load	in(mm)	.125 (3)	.125 (3)
	45		At center of wheelbase	in(mm)	0.88 (22)	0.88 (22)
	46	Service Brake	Type		Drum and Shoe	Drum and Shoe
47	Parking Brake	Actuation		Spring applied	Spring applied	
Drive Line	48	Battery	Type		Lead acid	Lead acid
			Max. capacity (6 hr. rate) <sup>3</sup>	kWh	7.7 / 21.5	7.7 / 21.5
			Weight, minimum <sup>3</sup>	lbs(kg)	456/821 (207/373)	456/821 (207/373)
			Weight, maximum <sup>3</sup>	lbs(kg)	575/1461 (261/664)	575/1461 (261/664)
	49	Motors, Controls	Drive motor, diameter	in(mm)	6.63 (168)	6.63 (168)
			Hydraulic motor, diameter	in(mm)	4.5 (114)	4.5 (114)
			Drive motor control		Separately Excited	Separately Excited
			Speed control		Solid state	Solid state
			Hydraulic motor control		Contactactor	Contactactor
			58	Hydraulic Pressure	For lift	psi

- Notes:**
- 1 Forks longer than 54 in. (small compartment) and 48 in. (large compartment) are 9.13 in. wide.
  - 2 Other fork lengths available, see general data.
  - 3 Specifications shown for small/large battery compartment models.

# SPECIFICATIONS

General Information	1	Manufacturer		Clark	Clark	
	2	Model	Manufacturer's Designation	HWD30	HWD40	
	3	Load Capacity		lbs(kg)	6000 (2725)	8000 (3635)
	4	Load Center	Fork Face Load CG	in(mm)	24 (600)	24 (600)
	5	Power Unit	Electric		24 volt	24 volt
	6	Operator Type			Ride-walk/low lift/pallet	Ride-walk/low lift/pallet
	7	Tire Type	Drive/Steer - load		Rubber/Urethane	Rubber/Urethane
	8	Wheels (x=driven)	Front/Rear		1x / 2	1x / 2
Basic Dimensions	14	Fork	Lift height to top of fork	in(mm)	9.25 (235)	9.25 (235)
			Lowered height at heel/toe	in(mm)	3.50/3.25 (89/83)	3.50/3.25 (89/83)
			Thickness	in(mm)	2.38 (60)	2.38 (60)
			Width <sup>1</sup>	in(mm)	9.0 (229)	9.0 (229)
			Usable length <sup>2</sup>	in(mm)	47.63 (1210)	47.63 (1210)
	15	Overall Dimensions	Length to Fork Face <sup>3</sup>	in(mm)	32.8/38.8 (833/986)	32.8/38.8 (833/986)
			Overall width, forks	in(mm)	27.0 (686)	27.0 (686)
	16		Height	in(mm)	32.39 (823)	32.39 (823)
	17		Width	in(mm)	36.0/32.0 (914/813)	36.0/32.0 (914/813)
	19	Turning Radius	With 48Lx40W pallet raised <sup>3</sup>	in(mm)	68.9/74.9 (1750/1902)	68.9/74.9 (1750/1902)
		With 48Lx40W pallet lowered <sup>3</sup>	in(mm)	73.3/79.3 (1862/2014)	73.3/79.3 (1862/2014)	
22	Right Angle Stack Aisle	With 48Lx40W pallet raised <sup>3</sup>	in(mm)	75.9/81.9 (1928/2080)	75.9/81.9 (1928/2080)	
	(Add 6-8" Operating Clearance)	With 48Lx40W pallet lowered <sup>3</sup>	in(mm)	81.8/87.8 (2078/2230)	81.8/87.8 (2078/2230)	
Wt Perf	24	Speeds	Travel Speed, Max w/ Load	mph(kph)	6.2 (10.0)	5.5 (8.9)
	25		Travel Speed, Max w/o Load	mph(kph)	8.2 (13.2)	8.2 (13.2)
34	Service weight	Including battery <sup>3</sup>	lbs(kg)	1770/2000 (805/909)	1830/2250 (832/1023)	
Chassis	39	Tires	Number, Front/Rear		1 / 2	1 / 2
	40		Size, Front	in(mm)	10.0 x 4.75 x 6.5 (254 x 121 x 165)	10.0 x 4.75 x 6.5 (254 x 121 x 165)
			Size, Rear	in(mm)	3.25 x 5.75 (83 x 146)	3.25 x 5.75 (83 x 146)
			Size, stabilizing casters	in(mm)	4.0 x 2.5 (102 x 64)	4.0 x 2.5 (102 x 64)
	41	Wheelbase	With forks lowered <sup>3</sup>	in(mm)	61.6/67.6 (1565/1717)	61.6/67.6 (1565/1717)
	44	Ground Clearance	Minimum without Load	in(mm)	.125 (3)	.125 (3)
	45		At center of wheelbase	in(mm)	0.88 (22)	0.88 (22)
	46	Service Brake	Type		Drum and Shoe	Drum and Shoe
47	Parking Brake	Actuation		Spring applied	Spring applied	
	Steering	Type		Pivot arm	Pivot arm	
Drive Line	48	Battery	Type		Lead acid	Lead acid
			Max. capacity (6 hr. rate) <sup>3</sup>	kWh	7.7 / 21.5	7.7 / 21.5
			Weight, minimum <sup>3</sup>	lbs(kg)	456/821 (207/373)	456/821 (207/373)
			Weight, maximum <sup>3</sup>	lbs(kg)	575/1461 (261/664)	575/1461 (261/664)
	49	Motors, Controls	Drive motor, diameter	in(mm)	6.63 (168)	6.63 (168)
			Hydraulic motor, diameter	in(mm)	4.5 (114)	4.5 (114)
			Drive motor control		Separately Excited	Separately Excited
			Speed control		Solid state	Solid state
		Hydraulic motor control		Contactator	Contactator	
58	Hydraulic Pressure	For lift	psi	2300	2300	

- Notes:**
- 1 Forks longer than 54 in. (small compartment) and 48 in. (large compartment) are 9.13 in. wide.
  - 2 Other fork lengths available, see general data.
  - 3 Specifications shown for small/large battery compartment models.

Clark PWD 30/40SE series electric walkie and HWD30/40SE series electric walkie/rider pallet trucks are durable and dependable, engineered to maximize uptime, energy efficiency and productivity. PWD and HWD models are designed for demanding warehousing and distribution applications, and will provide reliable, superior performance with reduced maintenance and operational costs.

#### Operator Comfort/Convenience

- Enclosed handle with safety reverse switch
- All controls at fingertips
- Two position brake

The ergonomically innovative HWD and PWD enclosed handles provide optimum operator protection and control. Both provide excellent hand protection and are equipped with a spring-loaded, safety reversing switch designed to override the directional control, automatically reversing the truck if it comes in contact with the operator.

The butterfly type control of the PWD and the twist grip control of the HWD both control direction and infinitely variable travel speed with either hand. The shape coded control buttons are conveniently located in the center of the handles for easy fingertip access. The HWD high speed hand rail is rubber padded for non-slip gripping and has center-mounted raise, lower, high speed and horn buttons for increased operator productivity. Optional order picking button and coast control feature increases order picking efficiency and the low 8.5" step height of the rider platform allows easy on/off access of the HWD.

#### Motors

- Separately excited
- Class "H" insulation
- Vertically mounted

Drive motor is 6.63" diameter, ventilated, and equipped with sealed ball bearings for long life. The separately excited design improves vehicle performance and delivers high start-up as well as mid-range torque, while the increased horsepower of the HWD motor provides faster travel speeds. Class "H" insulation means better thermal capabilities and increased motor life. Drive motor is integral with the drive line to assure positive alignment, and its vertical mount allows easy access for service.

The hydraulic motor is 4.5" diameter, Class"H" insulated, vertically mounted and integral with the hydraulic pump and reservoir.

#### Electrical System

- 24 volt electrical system
- Separately excited controls
- Eliminates forward, reverse and I-A contactors

The PWD/HWD electrical system is 24 volt and UL listed type "E". Standard on all models are Curtis PMC separately excited, programmable controls. These controls offer many advantages that greatly reduce maintenance costs while providing high energy efficiency and infinite speed control. Also incorporated in the system is a solid state throttle with only one moving part, resulting in maximum reliability and ease of service.

Curtis PMC features include an enclosed design for protection from contaminants; ramp start; anti-tiedown; variable neutral braking and high operating frequency for cool and quiet truck operation.

#### Drive Line

- Double reduction helical spur and spiral bevel gears
- Totally enclosed with lubricating oil bath

Power from the vertically mounted drive motor is transmitted through double reduction helical spur and spiral bevel gears to the drive wheel. All gears are within a sealed gear case and operate in an oil bath, for quiet, maintenance free operation. Power is transferred to the floor by the standard 10" diameter x 4.75" wide cushion rubber drive tire. The drive wheel is mounted via a five bolt pattern for simple removal and drive tire replacement.

#### Brakes

- Double acting drum and shoe type
- Spring applied - cam actuated release

Movement of the control handle up or down from the standard operating position applies the brake. Cam actuation allows brake feathering for smooth stops. The drum and shoe type brake assembly is mounted on top of the drive motor on the armature shaft to take advantage of full gear reduction to increase braking torque. A switch cuts out current to the drive motor when the brake is applied. The spring loaded control handle returns to the upright brake on position when released to allow the service brake to also act as the parking brake. Brake assembly mounting position allows excellent serviceability access.

#### Hydraulic System

- Integral motor-pump-reservoir assembly
- Center mounted, piston type lift cylinder

The vertically mounted heavy duty pump-motor reservoir assembly is an integral system. The assembly also incorporates a control valve and pressure relief valve for controlled lowering and system overload protection. The closed system has no breather cap which would allow contaminants to enter the system. Center mounted, piston type lift cylinder, has a hard chrome plated ram for long life. A limit switch shuts off the lift motor at top of lift stroke. An adjusting nut on top of the lift cylinder allows for fork heel adjustment.

#### Steering

- Low pivot mount on PWD
- Top mount on HWD

A large 12" diameter greaseable heavy duty ball bearing allows for easy drive unit rotation 90° to the right or left. The structural steel tubing of the steer control handle allows for maximum strength and durability. Its low mounting point on the drive unit of the PWD provides increased leverage with minimal steer effort. The top mount on the HWD model improves foot room clearance and truck control.

#### Frame and Forks

- Formed steel plate with bar steel reinforcements
- Square section solid steel pull rods
- Elevating bracket with 3 lug mounting design

The truck frame and load forks are fabricated from plate and bar steel, formed and electrically welded into structure units providing maximum strength and rigidity. The fork assembly has formed steel toes with pallet entry and exit rollers and tapered entry and exit ramps. A steel wear plate welded across fork heels provides increased strength and durability. Truck lift linkage provides a full 6" of lift for maximum underclearance when working on dock plates and dock boards. Solid steel square section pull rods provide maximum strength and three lug design elevating bracket ensures maximum pin and bushing life. All linkage pivot points are easily greaseable and feature steel backed high density polymer bushings, (phosphorous bronze on 8,000 lb. units). Standard yoke style elevating bracket/load wheel design allows quick and simple load wheel change-outs. Standard load wheels are single 3.25" diameter x 5.75" wide polyurethane (vulkalon on PWD/HWD 40's) with sealed bearings.

HWD standard stability casters are Clark designed, all steel, spring loaded, greaseable, re-buildable, and durable. Standard caster wheels are 4" diameter x 2.5" wide polyurethane.

PWD/HWD - Standard features include: Curtis PMC Control System, high/low speed selection, full 6" lift height, horn, key switch, 24 volt electrical system, cushion rubber drive tire, poly/vulkalon load wheels with sealed bearings, 7" or 13.6" wide battery compartments, SB-175 amp grey connector, high visibility Clark green and black finish with hinged, polyethylene covers. Additional HWD features include regenerative braking, articulating stability casters, spacious operator platform with non-skid metal covering, and high speed safety rail with center mounted control and horn buttons.



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