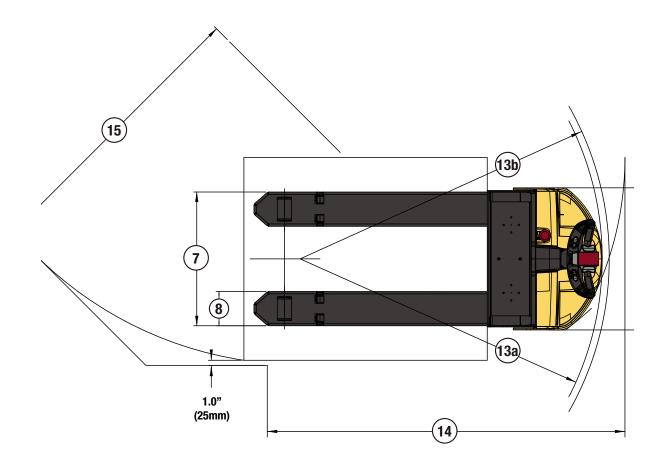
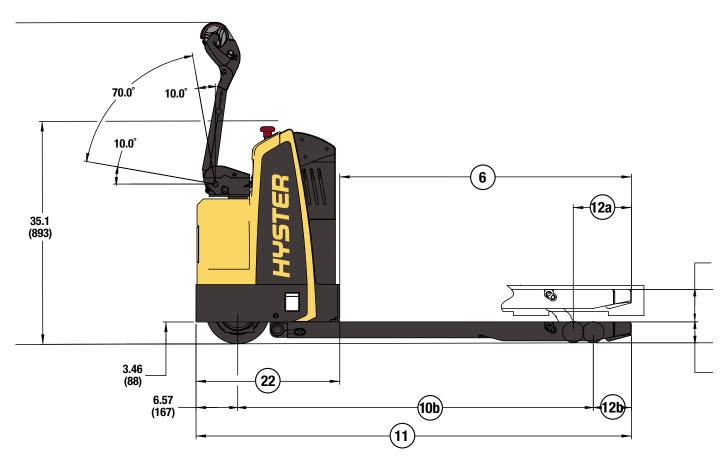


WALKIE LOW LIFT PALLET TRUCK

PRODUCT TECHNICAL GUIDE







SPECIFICATIONS

	1	Manufacturer				Hy	yster				
	2	Model designation			W45ZHD2						
	3	Power type			24 Volt						
	4	Operator type			Pedestrian						
ERAL	5	Rated capacity		lb (kg)		4500	(2041)				
GENI	6a	Fork length – nominal		in (mm)	36 (914)	42 (1067)	48 (1219)	48 (1219)			
	6b	Fork length – actual		in (mm)	34 (866)	42.7 (1084)	46 (1169)	48 (1219)			
	7	Fork overall width		in (mm)	26.4 (670)	26.4 (670)	26.4 (670)	26.4 (670)			
	8	Fork width (individual fork)		in (mm)		7 ((172)				
	9	Load distance – face of forks to cent	ter of load wheels-lowered	in (mm)	28 (713)	37 (931)	40 (1016)	40 (1016)			
	10a	Wheelbase – raised		in (mm)	41.0 (1042)	49.6 (1261)	53.0 (1346)	53.0 (1346)			
	10b	Wheelbase – lowered		in (mm)	44.2 (1122)	52.8 (1340)	56.1 (1425)	56.1 (1425)			
	11	Overall length		in (mm)	56.8 (1442)	66.3 (1683)	68.7 (1745)	70.7 (1795)			
	12a	Center of load wheel to tip of forks -	- raised	in (mm)	9.2 (234)	9.2 (234)	9.2 (234)	11.1 (283)			
	12b	Center of load wheel to tip of forks -	- lowered	in (mm)	6.0 (153)	6.0 (153)	6.0 (153)	6.0 (153)			
	13a	Outside turning radius (bumper) - ra	nised	in (mm)	47.6 (1208)	57.1 (1449)	59.5 (1511)	59.5 (1511)			
	ısa	Outside turning radius (bumper) - lo	wered	in (mm)	50.8 (1289)	60.3 (1530)	62.7 (1592)	62.7 (1592)			
	13b	Outside turning radius (handle) - rais	sed	in (mm)	48.9 (1242)	57.5 (1460)	60.8 (1545)	60.8 (1545)			
S	130	Outside turning radius (handle) - low	vered	in (mm)	52.1 (1324)	61.6 (1565)	64.1 (1627)	64.1 (1627)			
SIONS	14	Right angle stack – raised		in (mm)	59.9 (1521)	62.5 (1588)	70.6 (1792)	70.6 (1792)			
MEN	15	Equal intersecting aisle – raised		in (mm)	48.4 (1230)	55.0 (1396)	56.5 (1435)	56.5 (1435)			
	17a	Grade clearance	Chassis	%			67				
	17b		Center of wheelbase	%	45	36	34	34			
	17c		Forks	%	74	74	74	59			
	18	Overall lift height – top of forks		in (mm)	8.4 (214)						
	19	Lowered height – top of forks		in (mm)	3.3 (84)						
	20	Total lift		in (mm)	5.1 (130)						
	21	Truck overall width		in (mm)	28.0 (712)						
	22	Chassis length		in (mm)		22.7	7 (576)				
	23	Battery compartment – standard		in (mm)	26.5 x 8.2 x OPEN (672 x 208 x OPEN)						
	24	Maximum travel speed – chassis firs	et – NL/RL	mph (kph)	3.7/3.7 (6.0/6.0)	3.7/3.7 (6.0/6.0)	3.7/3.7 (6.0/6.0)	3.7/3.7 (6.0/6.0)			
ANCE	25	Maximum travel speed – forks first –	- NL/RL	mph (kph)	3.7/3.7 (6.0/6.0)	3.7/3.7 (6.0/6.0)	3.7/3.7 (6.0/6.0)	3.7/3.7 (6.0/6.0)			
ORM	26	Number of speeds			Infinitely Variable						
ERF(27	Traction motor control method type			AC Transistor						
_	28	Service brake type			Electro-Mechanical						
	29	Truck weight (approximate) without	battery – NL/RL	lb (kg)	624.0/5124.0 (283.0/2324.0)	650.0/5150.0 (295.0/2336.0)	659.0/5159.0 (299.0/2340.0)	659.0/5159.0 (299.0/2340.0)			
WT.	30	Axle loading, drive, static w/max. wt	battery – NL	lb (kg)	767 (348)	783 (355)	783 (355)	783 (355)			
	31	Axle loading, load wheel, static w/ma	ax. wt battery – NL	lb (kg)	137 (62)	128 (58)	128 (58)	128 (58)			
	32	Drive tire – size/type (number of wheels)			10.0 x 4.0/Press-on smooth rubber (1)						
VHEELS	33	Load wheel – size/type (number of wheels)			3.25 x 4.3/ Polyurethane (2) 3.25 x 4.3/Polyurethane (2)						
_	34	Caster wheel – size/type (number of	wheels)*	in	3.93 x 1.57/Spring Loaded Polyurethane (2)						
	35	Battery type			Lead Acid						
≿	36	Ampere hours – maximum		ah	300 300 300 300						
BATTERY	37	Ampere hours – minimum		ah			158				
BA	38	Maximum weight			377 (171)						
				lb (kg)	309 (140)						
	39	Minimum weight		lb (kg)		309	(140)				

RL = Rated load; NL = No load

CERTIFICATION: These Hyster® lift trucks meet design specifications of Part II ANSI B56.1-1969, as required by OSHA Section 1910.178(a)(2) and also comply with Part III ANSI B56.1-revision in effect at time of manufacture. Certification of compliance with the applicable ANSI standards appears on the lift truck. Performance specifications are for a truck equipped as described under Standard Equipment on this Technical Guide. Performance specifications are affected by the condition of the vehicle and how it is equipped, as well as by the nature, condition of the operating area, proper service and maintenance of the vehicle. If these specifications are critical, the proposed application should be discussed with your dealer.

^{*} Optional equipment

NOTE: Above specifications, unless otherwise listed, are for a standard truck without optional equipment. Right angle stack and equal intersecting aisle are calculated using a 40" wide pallet.

Measured using a 42" x 40" pallet
 Measured using a 36" x 36" pallet
 Measured to the bottom of a GMA approved pallet on the forks while they are in the raised position
 With delivery moveable load backrest

BATTERY AND COMPARTMENT SPECIFICATIONS

6'	' LIT	HIUM-ION BATTERY SPECIFICATIONS							
	1	Manufacturer		Hyster					
	2	Model designation		W45ZHD2					
AL	3	Power type		24-volt					
GENERAL	4	Operator type	Pedestrian						
ច	5	Rated capacity	4500 (2041)						
	6	Fork length (nominal)	in (mm)	36 (914)	42 (1067)	48 (1219)	48 (1219)		
	Ľ	Fork length (actual)	in (mm)	34 (866)	42.7 (1084)	46 (1169)	48 (1219)		
	10a	Wheelbase – raised	in (mm)	38.5 (979)	47.2 (1199)	50.6 (1284)	50.6 (1284)		
	10b	Wheelbase – lowered	in (mm)	41.7 (1060)	50.3 (1278)	53.7 (1363)	53.7 (1363)		
	11	Overall length	in (mm)	54.3 (1380)	62.9 (1598)	66.3 (1683)	68.2 (1733)		
ONS	13a	Outside turning radius (bumper) - raised	in (mm)	46.5 (1180)	55.0 (1398)	58.4 (1483)	58.4 (1483)		
DIMENSIONS	ısa	Outside turning radius (bumper) - lowered	in (mm)	49.5 (1258)	59.2 (1503)	61.5 (1561)	61.5 (1561)		
DIM	14	Right angle stack – raised	in (mm)	57.4 (1459) ²	60.4 (1533) ¹	68.3 (1734)	68.3 (1734)		
	15	Equal intersecting aisle – raised	in (mm)	47.2 (1198) ²	53.7 (1364) ¹	55.6 (1411)	55.6 (1411)		
	22	Chassis length	in (mm)	20.2 (514)	20.2 (514)	20.2 (514)	20.2 (514)		
	23	Battery compartment – standard	in (mm)		26.5 x 6.0 x OPEN (672 x 153 x OPEN)			

Measured using a 42" X 40" pallet Measured using a 36" X 36" pallet

FACTORY INSTALLED

W45ZHD2 B	ATTERY 8	& COMPA	RTMENT	SPECIFICA ^T	TIONS					
	Compartm		tment dimensions		Battery dimensions - max				Max capacity	Weight
Battery	Width	Length	Height	Х	Y	Z	Capacity Battery amp-hours connector	6 hr rate	Weight	
		in (mm)			in (mm)		anip-nours	Connector	amp hr (kwh)	lb (kg)
Standard battery pack	26.5 (672 mm)	8.2 (208 mm)	Open	26.0 (660 mm)	7.8 (198 mm)	23.8 (605 mm)	208	None	4.0	353 lb (160 kg)
AGM battery	26.5 (672 mm)	8.2 (208 mm)	Open	26.0 (660 mm)	7.8 (198 mm)	23.8 (605 mm)	224	None	4.4	388 lb (176 kg)
							57			28.7 lb (13 kg)
Lithium-ion	26.5 (672 mm)	6.0 (153.0 mm)		6.8 (172 mm)	5.4 (136 mm)	23.1 (586 mm)	114	None	N/A	57.2 lb (26 kg)
	,	, ,		,	,	,	171			86 lb (39 kg)

DEALER/CUSTOMER INSTALLED

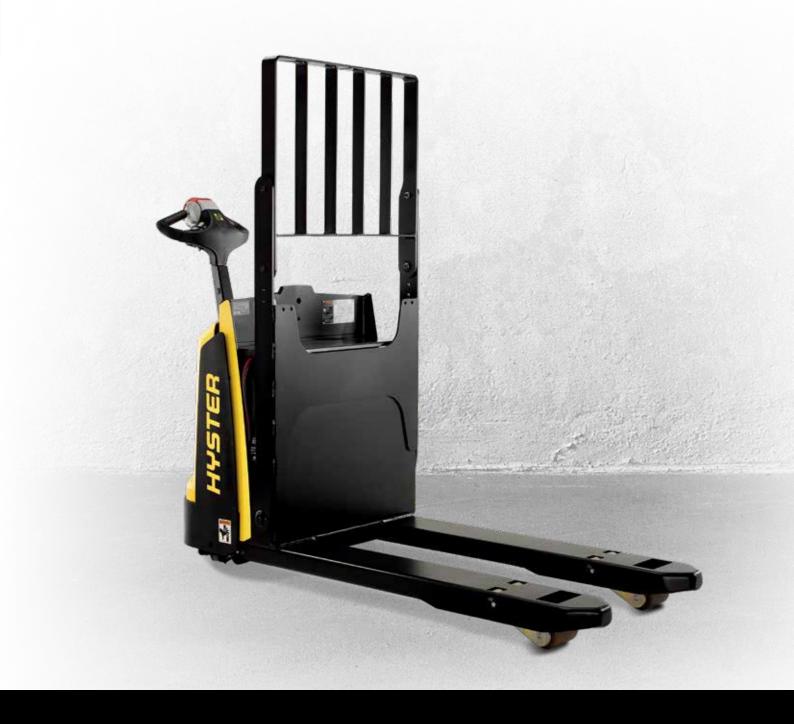
W45ZHD2 B	ATTERY &	COMPAR	TMENT SP	ECIFICATI	ONS					
	Compa	artment dime	nsions	Batter	y dimensions	- max		D #	Max capacity	Moinht
Battery	Width	Length	Height	Х	Y	Z	Capacity Amp-hours	Battery connector	6 hr rate	Weight
		in (mm)			in (mm)		Allip-liours	Connector	Amp hr (kwh)	lb (kg)
GNB pallet pro battery	26.5" (672 mm)	8.2" (208 mm)	Open	25.3" (643 mm)	7.6" (193 mm)	24.5" (623 mm)	195	SB-175 Red	4.5	400 lb (181 kg)
Industrial battery	26.5" (672 mm)	9.1" (231 mm)	Open	25.5" (648 mm)	8.7" (221 mm)	23.3" (591 mm)	300	SB-175 Red	5.9	560 lb (254 kg)

a) Battery size is limited by rounded corners of battery compartment.
b) Cable lead position "B"
c) 16" cable length
d) Maximum cable gauge of 1/0 Notes:

FEATURES AND OPTIONS

PERFORMANCE	STD	OPT
24-volt AC traction controlled electrical system		
Sealed 200A transistor traction controller	Х	
Sealed 240A transistor traction controller		Х
Vertically mounted AC traction motor	Х	
ADS (Auto Deceleration System) w/regenerative braking	Х	
Three pre-programmed performance modes	Х	
Two operator selectable performance levels	Х	
Ramp hold with anti-roll back on grade	Х	
Turtle speed mode selection with handle in full upright position	Х	
Power alternatives		
Wet cell battery power pack		Х
Absorbed Glass Mat (AGM)		Х
Maintenance free battery power pack		Х
Lithium-ion advanced performance power system Three capacity amp hours options available 57, 114, and 171		x
Hyster Intelligent Slow Down™		Х
Hyster Intelligent Lift™		Х
CONSTRUCTION	STD	OP'
Battery compartment		
• 26.5" x 8.2" x open	Х	
• 26.5" x 9.1" x open		х
• 26.5" x 6.0" x open		Х
Soft touch keyed ignition switch	Х	
IP65 sealed connectors	Х	
Standard construction operating temperatures: +32°F to +120°F	Х	
Cooler/freezer package - operating tempuratures: 0°F to +120°F		Х
SubZero freezer package - operating tempuratures: -40°F to +120°F		Х
Wash down package - operating tempuratures: 0°F to +120°F		Х
Extreme corrosion /wash down package - operating tempera- tures: 0°F to +120°F		Х
DRIVE	STD	OP.
Heavy duty drive unit	Х	
Drive tire		
• 10" x 4" press-on rubber	х	
• 10" x 4" press-on non-marking rubber		Х
• 10" x 4" press-on smooth polyurethane		Х
• 10" x 4" molded-on smooth polyurethane		Х
• 10" x 4" press-on red EZ polyurethane		Х
• 10" x 4" molded-on NDIIthane		Х
Load wheels		
• 3.25" x 4.3" single polyurethane	Х	
• 3.25" x 4.3" single NDIIthane		Х
Stainless steel greaseable or sealed bearings		Х
Stabilizers		
Bolt-on stability tabs		Х
Heavy duty quick adjust casters or sealed wheel or sealed wheel and pivot bearing		Х

LIFT	STD	OPT
Heavy duty lift pump and single hydraulic lift cylinder	Х	
Lift time-out at full lift height	Х	
HANDLING	STD	OPT
Heavy duty pallet fork design 3.3" lowered/5.1" lift height/8.4" overall raised height Heavy duty torsion bar linkage connection Heavy duty long life lift linkage with lubrication fittings "X" groove style greaseable pivot bushings Hardened bolt retained flag linkage pins Flush pallet stop	Х	
Pallet fork lengths		
• 34" short flat tip - no taper		Х
• 42" short flat tip - no taper		Х
• 46" short flat tip - no taper	Х	
• 48" standard tip		х
Fork overall width		
• 26.4" (670 mm)	Х	
• 22" (560 mm)		Х
Load backrest		
• 48" high bolt-on		Х
• 54" high bolt-on		Х
• 60" high bolt-on		Х
• 72" high bolt-on		Х
• 64.8" high moveable		Х
ERGONOMICS	STD	OPT
Control handle	х	
Cast aluminum control handle	Х	х
Cast aluminum control handle Delivery control handle	Х	x x
Cast aluminum control handle	X STD	
Cast aluminum control handle Delivery control handle		Х
Cast aluminum control handle Delivery control handle OPERATION Multi-function display with hour meter • Battery state of charge • Low battery lift interrupt	STD	Х
Cast aluminum control handle Delivery control handle OPERATION Multi-function display with hour meter Battery state of charge Low battery lift interrupt Fault indicator	STD x	Х
Cast aluminum control handle Delivery control handle OPERATION Multi-function display with hour meter • Battery state of charge • Low battery lift interrupt • Fault indicator Cowl mounted power disconnect switch	X X	Х
Cast aluminum control handle Delivery control handle OPERATION Multi-function display with hour meter Battery state of charge Low battery lift interrupt Fault indicator Cowl mounted power disconnect switch Electro-mechanical park brake	X X X	Х
Cast aluminum control handle Delivery control handle OPERATION Multi-function display with hour meter Battery state of charge Low battery lift interrupt Fault indicator Cowl mounted power disconnect switch Electro-mechanical park brake Brake over-ride	X X X X	Х
Cast aluminum control handle Delivery control handle OPERATION Multi-function display with hour meter Battery state of charge Low battery lift interrupt Fault indicator Cowl mounted power disconnect switch Electro-mechanical park brake Brake over-ride Electronic horn Battery charger	X X X X	X OPT
Cast aluminum control handle Delivery control handle OPERATION Multi-function display with hour meter • Battery state of charge • Low battery lift interrupt • Fault indicator Cowl mounted power disconnect switch Electro-mechanical park brake Brake over-ride Electronic horn • Battery charger • 20 amp 110 volt on-board high frequency smart charger Load backrest mounted or magnetic battery mounted	X X X X	X OPT
Cast aluminum control handle Delivery control handle OPERATION Multi-function display with hour meter Battery state of charge Low battery lift interrupt Fault indicator Cowl mounted power disconnect switch Electro-mechanical park brake Brake over-ride Electronic horn Battery charger 20 amp 110 volt on-board high frequency smart charger Load backrest mounted or magnetic battery mounted convenience tray	X X X X	X OPT
Cast aluminum control handle Delivery control handle OPERATION Multi-function display with hour meter	X X X X	X OPT X X X
Cast aluminum control handle Delivery control handle OPERATION Multi-function display with hour meter Battery state of charge Low battery lift interrupt Fault indicator Cowl mounted power disconnect switch Electro-mechanical park brake Brake over-ride Electronic horn Battery charger 20 amp 110 volt on-board high frequency smart charger Load backrest mounted or magnetic battery mounted convenience tray Brake override drive/tow switch Self-adjusting audible alarm	X X X X X	X OPT X X X X
Cast aluminum control handle Delivery control handle OPERATION Multi-function display with hour meter Battery state of charge Low battery lift interrupt Fault indicator Cowl mounted power disconnect switch Electro-mechanical park brake Brake over-ride Electronic horn Battery charger 20 amp 110 volt on-board high frequency smart charger Load backrest mounted or magnetic battery mounted convenience tray Brake override drive/tow switch Self-adjusting audible alarm APPEARANCE	X X X X X	X OPT X X X X
Cast aluminum control handle Delivery control handle OPERATION Multi-function display with hour meter	X X X X X X	X OPT X X X OPT
Cast aluminum control handle Delivery control handle OPERATION Multi-function display with hour meter	X X X X X STD X STD	X OPT X X X OPT
Cast aluminum control handle Delivery control handle OPERATION Multi-function display with hour meter	X X X X X X X X X X X X X X X X X X X	X OPT X X X OPT





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