

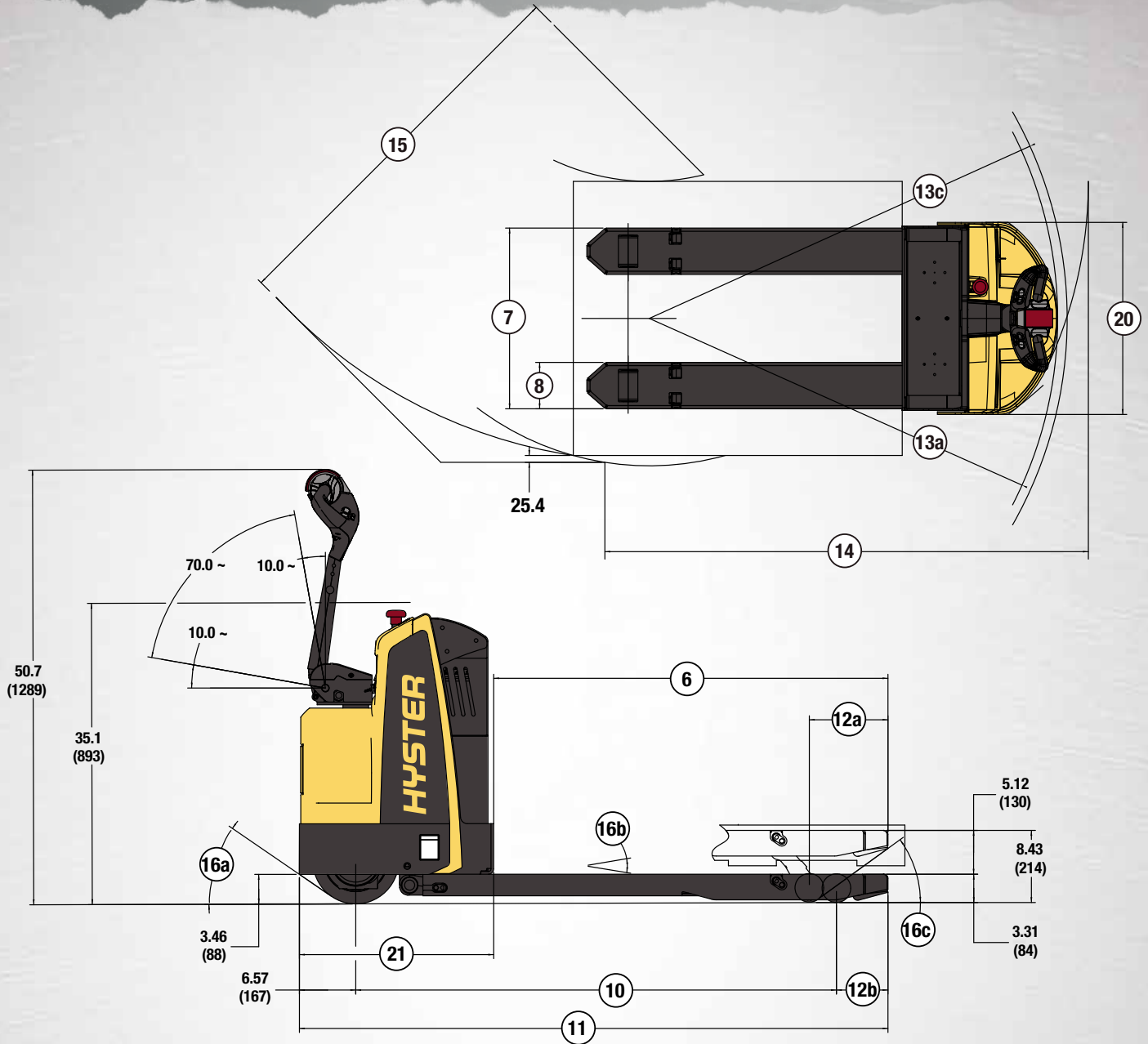
W45Z^{HD} SERIES



**STRONG PARTNERS.
TOUGH TRUCKS.™**

TECHNICAL GUIDE
Walkie Low Lift Pallet

W45Z^{HD} DIMENSIONS



W45Z^{HD} BATTERY AND COMPARTMENT SPECIFICATIONS

Factory Installed	Battery	Capacity Amp-Hours	(6 hr rate) KWH	Battery Connector	Battery Dim. – in (mm)			Compartment Dim.– in (mm)			Weight lbs (kg)
					"X" Dimension	"Y" Dimension	"Z" Dimension	Width	Length	Height	
Factory Installed	Standard Battery Pack	170	4.0	None	26.0" (660mm)	7.8" (198mm)	23.8" (605mm)	26.5" (672mm)	8.2" (208mm)	Open	353 lbs. (160 kg)
	AGM Battery	187	4.4	None	26.0" (660mm)	7.8" (198mm)	23.8" (605mm)	26.5" (672mm)	8.2" (208mm)	Open	388 lbs. (176 kg)
Dealer/Customer Installed	GNB PalletPro Battery	195	4.5	SB-175 Red	25.3" (643mm)	7.6" (193mm)	24.5" (623mm)	26.5" (672mm)	8.2" (208mm)	Open	400 lbs. (181 kg)
	Industrial Battery	255	5.9	SB-175 Red	25.4" (645mm)	8.7" (221mm)	23.3" (591mm)	26.5" (672mm)	9.1" (231mm)	Open	560 lbs. (254 kg)

Notes: 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

W45Z^{HD} SPECIFICATIONS

GENERAL	1	Manufacturer		Hyster			
	2	Model Designation		W45Z ^{HD}			
	3	Power Type		24 Volt			
	4	Operator Type		Pedestrian			
	5	Rated Capacity	lb (kg)	4500 (2041)			
	6a	Fork Length – Nominal	in (mm)	36 (914)	42 (1067)	48 (1219)	
	6b	Fork Length – Actual	in (mm)	34 (866)	43 (1084)	46 (1169) 48 (1219)	
	7	Fork Overall Width	in (mm)	27 (685)			
	8	Fork Width (Individual Fork)	in (mm)	7 (172)			
DIMENSIONS	9	Load Distance – Face of Forks to Center of Load Wheels	in (mm)	25 (635)	37 (931)	40 (1016)	
	10a	Wheelbase – Raised	in (mm)	41.0 (1042)	49.6 (1261)	53.0 (1346)	
	10b	Wheelbase – Lowered	in (mm)	44.2 (1122)	52.8 (1340)	56.1 (1425)	
	11	Overall Length	in (mm)	56.8 (1442)	65.4 (1660)	68.7 (1745) 70.7 (1795)	
	12a	Center of Load Wheel to Tip of Forks – Raised	in (mm)	9.1 (231) 11.1 (283)			
	12b	Center of Load Wheel to Tip of Forks – Lowered	in (mm)	6.1 (155) 8.1 (205)			
	13a	Outside Turning Radius – Raised	in (mm)	48.9 (1242)	57.5 (1460)	60.8 (1545)	
	13c	Outside Turning Radius – Lowered	in (mm)	52.0 (1320)	61.6 (1565)	63.9 (1623)	
	14	Right Angle Stack – Raised	in (mm)	59.6 (1514)	62.6 (1590)	70.6 (1792)	
	15	Equal Intersecting Aisle – Raised	in (mm)	48.3 (1228)	55.0 (1396)	56.8 (1443)	
	16a	Grade Clearance	Chassis	%	67		
	16b		Center of Wheelbase	%	45	36	34
	16c		Forks	%	74		59
	17	Overall Lift Height – Top of Forks	in (mm)	8.4 (214)			
	18	Lowered Height – Top of Forks	in (mm)	3.3 (84)			
	19	Total Lift	in (mm)	5.1 (130)			
	20	Truck Overall Width	in (mm)	28.0 (712)			
	21	Chassis Length	in (mm)	22.7 (576)			
	22	Battery Compartment – Standard	in (mm)	26.5 x 8.2 x OPEN (672 x 208 x OPEN)			
	PERFORMANCE	23	Maximum Travel Speed – Chassis First – NL/RL	mph (kph)	3.7 / 3.7 (6.0 / 6.0)		
		24	Maximum Travel Speed – Forks First – NL/RL	mph (kph)	3.7 / 3.7 (6.0 / 6.0)		
		25	Number of Speeds		Infinitely Variable		
26		Traction Motor Control Method Type		AC Transistor			
27		Service Brake Type		Electro-Mechanical			
WT.	28	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)	
	29	Axle Loading – Drive – Static with Maximum Weight Battery – NL	lb (kg)	767 (348)	783 (355)		
	30	Axle Loading – Load Wheel – Static with Maximum Weight Battery – NL	lb (kg)	137 (62)	128 (58)		
WHEELS	31	Drive Tire – Size / Type (Number of Wheels)	in	10.0 x 4.0 / Polyurethane (1)			
	32	Load Wheel – Size / Type (Number of Wheels)	in	3.25 x 4.5 / Polyurethane (2)			
	33	Caster Wheel – Size / Type (Number of Wheels)	in	3.25 x 1.5 / Spring Loaded Polyurethane (2)			
BATTERY	34	Battery Type		Lead Acid			
	35	Ampere Hours – Maximum	ah	225			
	36	Ampere Hours – Minimum	ah	158			
	37	Maximum Weight	lb (kg)	377 (171)			
	38	Minimum Weight	lb (kg)	309 (140)			

RL = Rated Load; NL = No Load

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.

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.

STANDARD FEATURES AND OPTIONS

STANDARD EQUIPMENT

- 46" heavy duty boxed forks
- 27" fork spread
- Standard construction – operating temperatures: +32° F to + 120° F
- Press-on smooth rubber drive tire (10" x 4")
- Single polyurethane load wheels (3.25" X 4.5")
- Greaseable load wheel bearings
- Engineered composite control handle
- Direction reversing switch
- 8.1" X 25.8" battery compartment
- 24-volt AC transistor controlled electrical system
 - Sealed transistor traction controller
 - Vertically mounted AC traction motor
 - ADS (Auto Deceleration System) w/regenerative braking
- Heavy duty drive unit
- Multifunction display with hour meter
 - Battery state of charge
 - Low battery lift interrupt
 - Fault indicator
- On-board diagnostic and self test
 - Program, test and diagnose
 - Password protected
- Three pre-programmed performance modes
- Two operator selectable performance levels
- Heavy duty lift pump and single hydraulic lift cylinder
- Lift time-out at full lift height
- Ramp hold with anti-rollback on grade
- One piece impact resistant power unit cover
- Soft touch keyed ignition switch
- Cowl-mounted power disconnect switch
- IP65 sealed connectors
- Electro-mechanical park brake
- Electronic horn
- Turtle speed mode selection with handle in full upright position
- Heavy duty pallet fork design
 - 3.25" lowered / 5.12" lift height / 8.25" 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
- Operating manual
- 12 months / unlimited hour manufacturer's warranty
- 36 months / 6,000 hour powertrain warranty
- Lifetime main frame warranty

OPTIONAL EQUIPMENT

- 9.1" x 25.8" battery compartment
- Power alternatives
 - Wet cell battery power pack
 - Absorbed Glass Mat (AGM) maintenance free battery power pack
- Battery charger
 - 20 amp 110 volt on-board high frequency smart charger
 - 20 amp 220 volt on-board high frequency smart charger
- Cast aluminum control handle
- Fork lengths
 - 34" – short tip
 - 42" – short tip
 - 48" – standard tip
- 22" overall fork width
- Cooler/freezer package – operating temperatures: 0° F to +120° F
- SUBZERO freezer package – operating temperatures: -40° F to +120° F
- Wash down package – operating temperatures: 0° F to +120° F
- Extreme corrosion wash down package
 - operating temperatures: 0° F to +120° F
- Drive tire options:
 - 10" x 4" pressed-on-smooth polyurethane
 - 10" x 4" mold-on smooth polyurethane
 - 10" x 4" pressed-on non-marking rubber
 - 10" x 4" pressed-on red EZ polyurethane grooved
 - 10" x 4" molded-on vulkollan polyurethane
- Single vulkollan load wheel
- Stainless steel greaseable or sealed bearing
- Stabilizers
 - Adjustable bolt-on stability tabs
 - Heavy duty quick adjust casters with greaseable or sealed wheel and pivot bearing
- Load backrest
 - 48" high bolt-on
 - 54" high bolt-on
 - 60" high bolt-on
 - 72" high bolt-on
 - 58.5" high moveable
- Load backrest mounted or magnetic battery mounted convenience tray
- Brake override drive / tow switch
- Intelligent Slow Down™
- Intelligent Lift™
- Self-adjusting audible alarm



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Part No. W45Z/TG
2/2014 Litho in U.S.A.

Visit us online at www.hyster.com/americas or call us at 1-800-HYSTER-1.

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