

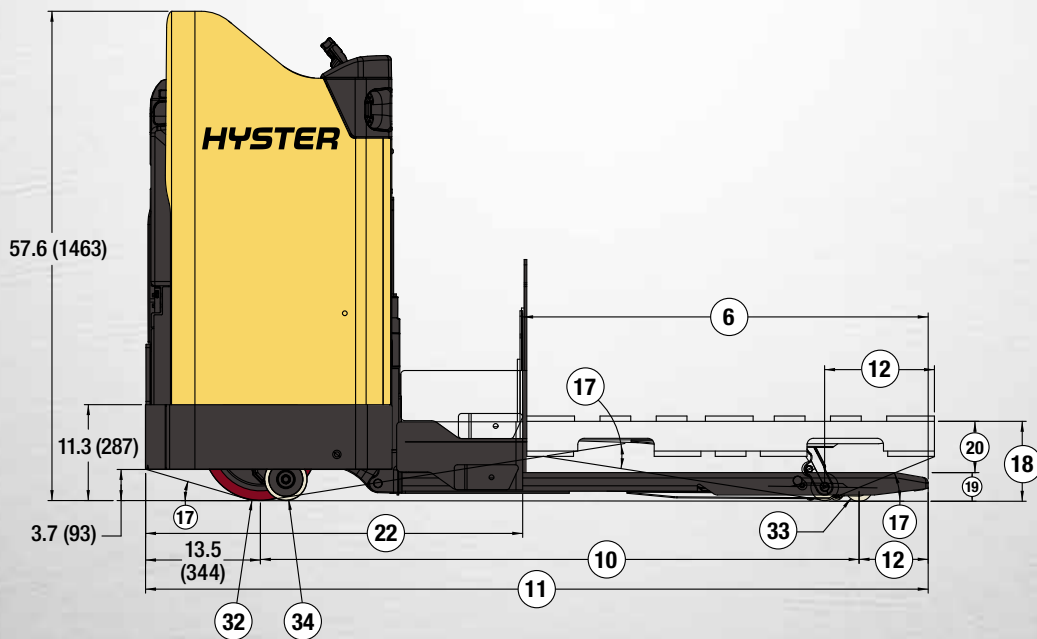
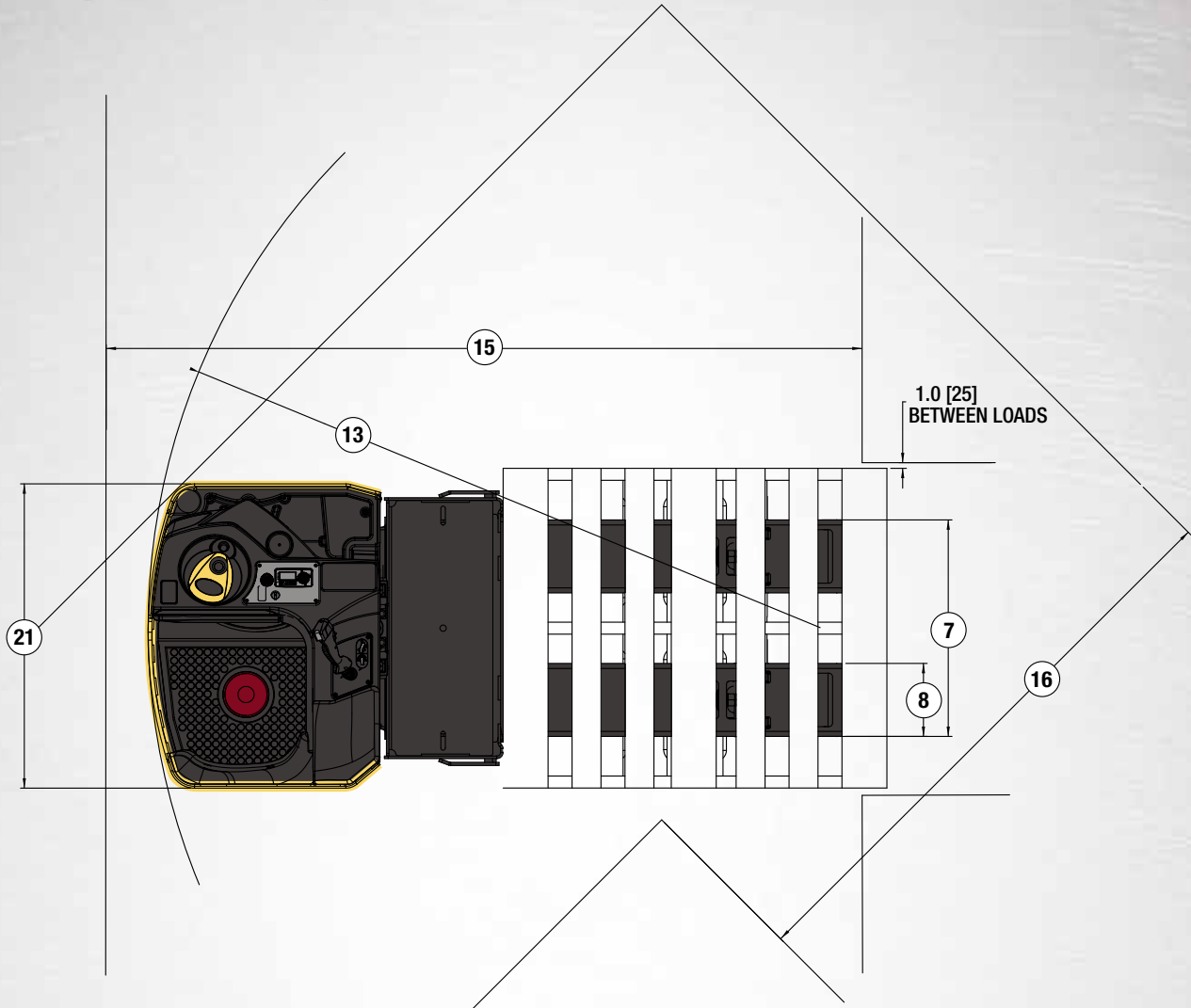
BE80-100Z^{HD} SERIES



**STRONG PARTNERS.
TOUGH TRUCKS.™**

TECHNICAL GUIDE
Enclosed End Rider

BE80-100Z^{HD} DIMENSIONS



Circled dimensions correspond to the line numbers on the tabulated chart inside the Technical Guide. Dimensions are in inches (millimeters).

BE80Z^{HD} SPECIFICATIONS

GENERAL	1	Manufacturer		Hyster					
	2	Model Designation		BE80Z ^{HD}					
	3	Battery Type		24 Volt					
	4	Operator Type		Stand Ride					
	5	Rated Capacity – Lifting		lb (kg)	8000 (3629)				
	6	Fork Length – Nominal		in (mm)	48 (1219)	54 (1372)	60 (1524)	84 (2134)	93 (2362)
		Fork Length – Actual		in (mm)	47.8 (1213)	53.7 (1365)	59.8 (1518)	83.8 (2128)	92.8 (2357)
	7	Fork Overall Width		in (mm)	27.1 (688)	27.1 (688)	27.1 (688)	28 (710)	28 (710)
	8	Individual Fork Width		in (mm)	9.1 (232)	9.1 (232)	9.1 (232)	10 (254)	10 (254)
9	Load Distance (Face of Battery Box or Opt. Backrest to Center of Load Wheels)	Raised	in (mm)	35.3 (896)	41.3 (1048)	47.3 (1201)	56.3 (1430)	56.3 (1430)	
		Lowered	in (mm)	39.6 (1007)	45.6 (1159)	51.7 (1312)	60.6 (1540)	60.6 (1540)	
10	Wheelbase**	Raised	in (mm)	66.5 (1689)	72.5 (1842)	78.5 (1994)	87.5 (2222)	87.5 (2222)	
		Lowered	in (mm)	70.5 (1791)	76.5 (1944)	82.5 (2096)	91.5 (2324)	91.5 (2324)	
11	Overall Length	Raised	in (mm)	92.7 (2354)	98.7 (2506)	104.7 (2659)	128.7 (3269)	137.7 (3498)	
		Lowered	in (mm)	92.2 (2341)	98.1 (2493)	104.2 (2646)	128.2 (3256)	137.2 (3485)	
12	Center of Load Wheel to Tip of Forks	Raised	in (mm)	12.5 (317)	12.5 (317)	12.5 (317)	27.5 (698)	36.5 (927)	
		Lowered	in (mm)	8.1 (206)	8.1 (206)	8.1 (206)	23.1 (588)	32.2 (817)	
13	Outside Turning Radius	Raised	in (mm)	80.0 (2033)	86.0 (2186)	92.0 (2338)	101.1 (2567)	101.1 (2567)	
		Lowered	in (mm)	84.1 (2135)	90.1 (2288)	105.2 (2673)	105.0 (2668)	105.0 (2668)	
15	Right Angle Stack*	Raised	in (mm)	95.2 (2418)	106.2 (2697)	105.6 (2683)	131.0 (3328)	140.4 (3566)	
		Equal Intersecting Aisle*	Raised	in (mm)	70.2 (1782)	73.3 (1862)	76.5 (1942)	82.0 (2084)	82.9 (2105)
			17	Grade Clearance	Chassis	%	29		
Center of Wheelbase	%	29			26	25	21	21	
Forks	%	37			37	37	17	13	
18	Overall Lift Height	Top of Forks	in (mm)	9.3 (235)					
19	Lowered Height	Top of Forks	in (mm)	3.3 (84)					
20	Total Lift		in (mm)	5.9 (151)					
21	Truck Overall Width		in (mm)	38.0 (967)					
22	Chassis Length	Raised	in (mm)	44.9 (1141)					
		Lowered	in (mm)	44.4 (1128)					
23	Battery Compartment (Standard / With Battery Rollers)			32 x 13.4 x OPEN (813 x 340 x OPEN) / 31 x 13.4 x OPEN (787 x 340 x OPEN)					
PERFORMANCE	24	Max Travel Speed - Chassis First (No Load / Rated Load)	mph (kph)	9.0 / 6.5 (14.5 / 10.5)					
	25	Max Travel Speed - Forks First (No Load / Rated Load)	mph (kph)	7.0 / 6.5 (11.3 / 10.5)					
	26	Number of Speeds		Infinitely Variable					
	27	Traction Motor Control Method Type		AC Transistor					
28	Service Brake Type			Electro-Mechanical					
WHEELS	32	Drive Tire – Size / Type (Number of Wheels)	in	13.5 x 5.5 x 8.0 / Polyurethane (1)					
	33	Load Wheel / Trail Wheel – Size / Type (# of Wheels)(# of Bearings per Wheel)	in	3.25" x 6.5" / Polyurethane (2) (2)					
	34	Caster Wheel – Size / Type (Number of Wheels)Caster Type	in	5.0" x 2.0" / Poly (2) Adj. w/ Poly Spring Block					
BATTERY	35	Type		Lead Acid					
	36	Ampere Hours - Maximum	ah	930					
	37	Ampere Hours - Minimum	ah	375					
	38	Maximum Weight	lb (kg)	1500 (680)					
	39	Minimum Weight	lb (kg)	825 (374)					

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 flush with fork tips.

** Subtract 12.9mm if equipped with Tandem Load Wheels.

BE80-100Z^{HD} SPECIFICATIONS

GENERAL	1	Manufacturer		Hyster				
	2	Model Designation		BE80Z ^{HD}			BE100Z ^{HD}	
	3	Battery Type		24 Volt				
	4	Operator Type		Stand Ride				
	5	Rated Capacity – Lifting		lb (kg)	8000 (3629)			10000 (4536)
	6	Fork Length – Nominal		in (mm)	96 (2438)	144 (3658)	144 (3658)	160 (4064)
		Fork Length – Actual		in (mm)	95.8 (2433)	143.8 (3652)	143.8 (3652)	159.9 (4063)
	7	Fork Overall Width		in (mm)	28 (710)	28.6 (726)	28.6 (726)	28 (710)
	8	Individual Fork Width		in (mm)	10 (254)	10.6 (270)	10.6 (270)	10.3 (262)
	9	Load Distance (Face of Battery Box or Opt. Backrest to Center of Load Wheels)	Raised	in (mm)	56.3 (1430)	104.3 (2649)	83.9 (2131)	106.0 (2694)
	Lowered		in (mm)	60.6 (1540)	108.6 (2759)	87.7 (2228)	110.5 (2806)	
DIMENSIONS	10	Wheelbase**	Raised	in (mm)	87.5 (2222)	135.5 (3442)	114.6 (2910)	137.4 (3490)
			Lowered	in (mm)	91.5 (2324)	139.5 (3544)	118.6 (3012)	141.4 (3591)
		Overall Length	Raised	in (mm)	140.7 (3574)	188.7 (4793)	188.7 (4793)	204.9 (5204)
			Lowered	in (mm)	140.2 (3561)	188.2 (4780)	188.2 (4780)	204.4 (5191)
		Center of Load Wheel to Tip of Forks	Raised	in (mm)	39.5 (1003)	39.5 (1003)	59.9 (1521)	53.9 (1369)
			Lowered	in (mm)	35.2 (893)	35.2 (893)	56.1 (1424)	49.5 (1257)
		Outside Turning Radius	Raised	in (mm)	101.1 (2567)	149.1 (3789)	128.1 (3254)	150.9 (3834)
			Lowered	in (mm)	105.0 (2668)	153.1 (3888)	132.1 (3356)	154.9 (3934)
		Right Angle Stack*	Raised	in (mm)	143.5 (3644)	189.8 (4820)	190.6 (4842)	206.0 (5232)
		Equal Intersecting Aisle*	Raised	in (mm)	83.2 (2114)	108.0 (2744)	99.7 (2533)	114.6 (2912)
	17 Grade Clearance	Chassis	%	29				
		Center of Wheelbase	%	21	15	16	15	
		Forks	%	12	12	8	9	
	18 Overall Lift Height	Top of Forks	in (mm)	9.3 (235)				
	19 Lowered Height	Top of Forks	in (mm)	3.3 (84)				
	20 Total Lift		in (mm)	5.9 (151)				
	21 Truck Overall Width		in (mm)	38.0 (967)				
	22 Chassis Length	Raised	in (mm)	44.9 (1141)				
		Lowered	in (mm)	44.4 (1128)				
	23 Battery Compartment (Standard / With Battery Rollers)			32 x 13.4 x OPEN (813 x 340 x OPEN) / 31 x 13.4 x OPEN (787 x 340 x OPEN)				
PERFORMANCE	24 Max Travel Speed - Chassis First (No Load / Rated Load)		mph (kph)	9.0 / 6.5 (14.5 / 10.5)				
	25 Max Travel Speed - Forks First (No Load / Rated Load)		mph (kph)	7.0 / 6.5 (11.3 / 10.5)				
	26 Number of Speeds			Infinitely Variable				
	27 Traction Motor Control Method Type			AC Transistor				
28 Service Brake Type				Electro-Mechanical				
WHEELS	32 Drive Tire – Size / Type (Number of Wheels)		in	13.5 x 5.5 x 8.0 / Polyurethane (1)				
	33 Load Wheel / Trail Wheel – Size / Type (# of Wheels)(# of Bearings per Wheel)		in	3.25" x 6.5" / Polyurethane (2) (2)				
	34 Caster Wheel – Size / Type (Number of Wheels)Caster Type		in	5.0" x 2.0" / Poly (2) Adj. w/ Poly Spring Block				
35 Type				Lead Acid				
BATTERY	36 Ampere Hours - Maximum		ah	930				
	37 Ampere Hours - Minimum		ah	375				
	38 Maximum Weight		lb (kg)	1500 (680)				
	39 Minimum Weight		lb (kg)	825 (374)				

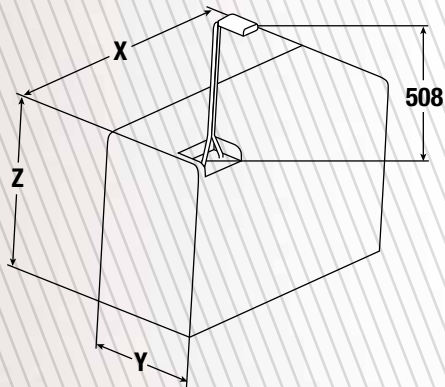
Above specifications, unless otherwise listed, are for a standard truck without optional equipment.

* Right Angle Stack and Equal Intersecting Aisle are calculated using a 40" wide pallet flush with fork tips.

** Subtract 12.9mm if equipped with Tandem Load Wheels.

BE80-100Z^{HD} BATTERY SPECIFICATIONS

BATTERY SPECIFICATIONS							
Number of Cells	Cell Size	Plates per Cell	Capacity 6 Hr Rate amp hr (kwh)	Battery Dimensions			Weight lb (kg)
				"X" in (mm)	"Y" in (mm)	"Z" in (mm)	
12	75	11	375 (8.7)	26.5 (673)	13.0 (330)	23.3 (592)	825 (374)
12	85	11	425 (9.9)	26.5 (663)	13.0 (330)	23.3 (592)	865 (392)
12	75	13	450 (10.5)	30.9 (785)	13.0 (330)	23.3 (592)	987 (448)
12	85	13	510 (11.9)	30.9 (785)	13.0 (330)	23.3 (592)	1035 (469)
12	100	13	600 (14.0)	30.9 (785)	13.0 (330)	26.2 (665)	1200 (544)
12	125	13	750 (17.6)	30.9 (785)	13.0 (330)	31.0 (787)	1500 (680)
12	155	13	930 (21.5)	30.9 (785)	13.0 (330)	31.0 (787)	1500 (680)



- (1) Voltage: 24V
- (2) Battery Connector:
 - SB 175 Red - Standard / SB 175 Grey - Optional
 - SB 350 Red - Optional / SB 350 Grey - Optional
- (3) Battery Lead: Length 20" (508mm), Position "B", 1/0 AWG
- (4) Battery Cover Required

STANDARD FEATURES AND OPTIONS

STANDARD EQUIPMENT

- 48" long heavy duty boxed fork construction, reinforced fork tips
- 27" fork spread
- Standard construction operating temperatures: +32°F to +120°F
- Smooth polyurethane drive tire – 90 durometer – 13.5" x 5.5"
- Single polyurethane load wheels – 3.25" x 6.5"
- Heavy duty casters – urethane block loaded – 5" x 2" dual polyurethane wheel
- Adjustable steer handle
- Pallet exit rollers and runners/entry blades
- Pallet entry rollers (standard tip forks only)
- On-board software
 - Program, test and diagnose
 - No handset required
 - Password protected
- 32.0" x 13.4" open battery compartment
- Key ignition switch
- Electro-mechanical park brake
- Electronic horn
- Electric power steering
- Flush pallet stop
- Heavy duty, long life lift linkage with lubrication fittings
 - "X" groove style greaseable pivot bushings
 - Hardened, bolt retained flag linkage pins
 - Knock-out load wheel axles
- Operating manual
- UL Classification "E"
- 12 months / unlimited hour manufacturer's warranty
- 36 months / 6,000 hour powertrain warranty
- Lifetime main frame warranty

OPTIONAL EQUIPMENT

- Keyless toggle ignition switch
- Fork lengths
 - 54" long forks – standard tip
 - 60" long forks – standard tip
 - 84" long forks – extended tip
 - 93" long forks – extended tip
 - 96" long forks – extended tip
 - 144" long forks – extended tip
 - 144" long forks – short wheelbase extended tip
 - 160" long forks – extended tip (BE100Z^{HD} only)
- Pallet entry bar (BE80Z^{HD} only)
- Application/Environmental Construction
 - Cooler/Freezer Package:
Operating temperatures: 0° F to +120° F
 - Wash Down Package:
Operating temperatures: 0° F to +120° F
- Drive tire
 - Red polyurethane "X" groove – 85 durometer – 13.5" x 5.5"
 - Red polyurethane – 85 durometer – 13.5" x 5.5"
 - Vulkollan polyurethane – 90 durometer – 13.5" x 5.5"
- Load wheels
 - Single, dual and tandem
 - 2 bearing and 4 bearing
 - Standard bearing and sealed bearing
- Heavy duty casters – sealed wheel
- Load backrest
 - 48" high (pivoting or bolt-on)
 - 60" high (pivoting or bolt-on)
 - 72" high (bolt-on)
- Convenience tray (battery mounted)
- RF terminal power supply – 24-volt
- DC converter with automotive style 12-volt outlet
- Work light sensor
- Audible alarm



Hyster Company
P.O. Box 7006
Greenville, North Carolina
27835-7006
Part No. BE80-100ZHD/TG
6/2015 Litho in U.S.A.

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