

# C60-80ZHD SERIES

---



## CENTER RIDER PALLET TRUCK PRODUCT TECHNICAL GUIDE





# C60ZHD SPECIFICATIONS

GENERAL		Hyster Company			
1	Manufacturer	Hyster Company			
2	Model	C60ZHD			
3	Capacity, rated	lb (kg)	6,000 (2722)		
4	Voltage	24			
DIMENSIONS					
5	Nominal fork length	in (mm)	36.0 (914)	48.0 (1219)	60.0 (1524)
6	Width across forks	in (mm)	27.1 (688)		
7	Chassis length w/std. 13.4" battery compartment	in (mm)	58.9 (1496)		
8	Overall length, w/std. 13.4" battery compartment	in (mm)	94.6 (2404)	106.6 (2709)	118.7 (3014)
9	Wheelbase, lowered w/13.4" battery compartment	in (mm)	76.0 (1932)	88.0 (2236)	100.1 (2541)
	Wheelbase, raised w/13.4" battery compartment	in (mm)	72.2 (1834)	84.2 (2139)	96.2 (2444)
10	Turning radius, lowered, w/13.4" batt. cpmt/ wide handle	in (mm)	90.7 (2304)	102.6 (2607)	114.3 (2903)
	Turning radius, raised, w/13.4" batt. cpmt/ wide handle	in (mm)	87.0 (2209)	98.9 (2512)	110.5 (2807)
11	Right angle aisle, w/13.4" battery compartment <sup>††</sup>	in (mm)	96.0 (2438)	107.6 (2733)	119.8 (3042)
12	Equal intersecting aisle, w/13.4" battery compartment <sup>††</sup>	in (mm)	71.9 (1827)	78.2 (1987)	84.5 (2147)
13	Grade clearance, center wheelbase, raised w/pallet	%	27	23	20
	Grade clearance, forks end, raised w/pallet	%	37		
14	Overall lift height (TOF)	in (mm)	9.25 (235)		
BATTERY					
17	Battery compartment size - std. 13.4", (L x W x H) <sup>1</sup>	in	31.2 x 13.4 x open		
	Battery compartment size - std. 13.4", (L x W x H) <sup>1</sup>	(mm)	(792 x 340 x open)		
	Battery	Type	Lead acid   Thin Plate Pure Lead <sup>2</sup>   Lithium-ion <sup>2</sup>		
PERF. †					
20	Travel speed, std. equipped truck no load	mph (km/h)	9.0 (14.5)		
	Travel speed, std. equipped truck rated load	mph (km/h)	5.2 (8.4)		
21	Lift/lower speed, no load	seconds	3.3 / 1.9		
	Lift/lower speed, 6,000 lb load	seconds	4.5 / 1.2		
WHEELS					
22	Drive tire size (Polyurethane)	12.0 x 4.5 x 8.0			
23	Load wheel size, tandem (Polyurethane)	(2 x) 3.25 x 6.50			
24	Total approx. weight, 13.4" compartment - w/o battery	lb (kg)	1,807 (820)		

C60-80ZHD pallet trucks use red battery connector - 16" (406 mm) 1/0 gauge leads, B position.

<sup>1</sup> Length is measured side to side of truck.

<sup>††</sup> Equal intersecting aisle and right angle aisle stacking dimensions are with standard GMA pallet(s) that measure 48.0" x 40.0".

<sup>2</sup> Optional with Hyster Power Collect™

† **NOTE:** Performance specifications are for truck equipped as described under standard equipment. Performance specifications are affected by the condition of the vehicle and how it is equipped, as well as the nature and condition of the operating area. If these specifications are critical, the proposed applications should be discussed with your local authorized Hyster dealer.

## C60ZHD BATTERY AND COMPARTMENT SPECIFICATIONS

Number of cells	Cell size	Plates per cell	Capacity amp-hours	Kwh	"X" dimension in (mm)	"Y" dimension in (mm)	"Z" dimension in (mm)	Battery weight lb (kg)
12	75	11	375	8.7	26.5 (673)	13.0 (330)	23.3 (592)	825 (374)
12	85	11	425	9.9	26.1 (663)	12.8 (325)	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)	1,035 (469)

### NOTES:

- Steel tray with cover required for all batteries.
- Battery connector type 175 amp, red.
- Cable lead position "B".
- 16" (406 mm) cable length.
- Maximum cable gauge of 1/0.
- Battery well: 31.25" x 13.4" x open (794 mm x 340 mm x open)
- Capacity noted is with 6 hr. rate.
- 24 volt

# C80ZHD SPECIFICATIONS

GENERAL	1	Manufacturer	Hyster Company							
	2	Model	C80ZHD							
	3	Capacity, rated	lb (kg)	8,000 (3629)						
	4	Voltage	24							
DIMENSIONS	5	Nominal fork length	in (mm)	36.0 (914)	48.0 (1219)	60.0 (1524)	84.0 (2134)	93.0 (2362)	96.0 (2438)	144 (3658)
	6	Width across forks	in (mm)	27.1 (688)			27.9 (710)			28.6 (726)
	7	Chassis length w/std. 13.4" battery compartment	in (mm)	58.9 (1496)						
	8	Overall length, w/std. 13.4" battery compartment	in (mm)	94.6 (2404)	106.6 (2709)	118.7 (3014)	142.6 (3622)	151.6 (3851)	154.6 (3927)	202.7 (5148)
	9	Wheelbase, lowered w/13.4" battery compartment	in (mm)	76.0 (1932)	88.0 (2236)	100.1 (2541)	109.0 (2770)			136.1 (3456)
		Wheelbase, raised w/13.4" battery compartment	in (mm)	72.2 (1834)	84.2 (2139)	96.2 (2444)	105.2 (2672)			132.2 (3359)
	10	Turning radius, lowered, w/13.4" batt. cpmt/wide handle	in (mm)	90.7 (2304)	102.6 (2607)	114.3 (2903)	123.3 (3132)			149.9 (3808)
		Turning radius, raised, w/13.4" batt. cpmt/wide handle	in (mm)	87.0 (2209)	98.9 (2512)	110.5 (2807)	119.5 (3036)			146.1 (3712)
	11	Right angle aisle, w/13.4" battery compartment ††	in (mm)	96.0 (2 413)	107.6 (2733)	119.8 (3042)	157.0 (3988)			207.2 (5262)
		Equal intersecting aisle, w/13.4" battery compartment ††	in (mm)	71.9 (1827)	78.2 (1987)	84.5 (2147)	91.1 (2315)			107.4 (2727)
13	Grade clearance, center wheelbase, raised w/pallet	%	27	23	20	18			14	
	Grade clearance, forks end, raised w/pallet	%	37			17	13	12	8	
14	Overall lift height (TOF)	in (mm)	9.25 (235)				9.3 (235)			
BATTERY	17	Battery compartment size - std. 13.4", (L x W x H) <sup>1</sup>	in	31.2 x 13.4 x Open						
		Battery compartment size - std. 13.4", (L x W x H) <sup>1</sup>	(mm)	(792 x 340 x Open)						
		Battery	Type	Lead acid   Thin Plate Pure Lead <sup>2</sup>   Lithium-ion <sup>2</sup>						
PERF. †	20	Travel speed, std. equipped truck no load	mph (km/h)	9.0 (14.5)						
		Travel speed, std. equipped truck rated load	mph (km/h)	5.2 (8.4)						
	21	Lift/lower speed, no load	seconds	3.7 / 6.4						
		Lift/lower speed, 6,000 lb load	seconds	5.4 / 2.4						
WHEELS	22	Drive tire size (Polyurethane)	12.0 x 4.5 x 8.0							
	23	Load wheel size, tandem (Polyurethane)	(2 x) 3.25 x 6.50			(2 x) 3.25 x 6.49		(2 x) 3.25 x 6.50		
	24	Total approx. weight, 13.4" compartment - w/o battery	lb (kg)	1,716 (778)	1,807 (820)	1,897 (860)	2,010 (912)	2,039 (925)	2,048 (929)	2,312 (1051)

C60-80ZHD pallet trucks use red battery connector - 16" (406 mm) 1/0 gauge leads, B position.

<sup>1</sup> Length is measured side to side of truck.

†† Equal intersecting aisle and right angle aisle stacking dimensions are with standard GMA pallet(s) that measure 48.0" x 40.0".

<sup>2</sup> Optional with Hyster Power Collect™

† **NOTE:** Performance specifications are for truck equipped as described under standard equipment. Performance specifications are affected by the condition of the vehicle and how it is equipped, as well as the nature and condition of the operating area. If these specifications are critical, the proposed applications should be discussed with your local authorized Hyster dealer.

## C80ZHD BATTERY AND COMPARTMENT SPECIFICATIONS

Number of cells	Cell size	Plates per cell	Capacity amp-hours	Kwh	"X" dimension in (mm)	"Y" dimension in (mm)	"Z" dimension in (mm)	Battery weight lb (kg)
12	75	11	375	8.7	26.5 (673)	13.0 (330)	23.3 (592)	825 (374)
12	85	11	425	9.9	26.1 (663)	12.8 (325)	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)	1,035 (469)
12	100	13	600	14.0	30.9 (785)	13.0 (330)	26.2 (665)	1,140 (517)
12	125	13	750	17.6	30.9 (785)	13.0 (330)	31.0 (787)	1,450 (658)

### NOTES:

- Steel tray with cover required for all batteries.
- Battery connector type 175 amp, red.
- Cable lead position "B".
- 16" (406 mm) cable length.
- Maximum cable gauge of 1/0.
- Battery well: 31.25" x 13.4" x open (794 mm x 340 mm x open)
- Capacity noted is with 6 hr. rate.
- 24 volt

# C60-80ZHD FEATURES AND OPTIONS

PERFORMANCE	STD	OPT
24-volt AC electrical system	X	
AC traction motor	X	
Transistor hoist control	X	
ADS (Auto Deceleration System) with regenerative braking	X	
Floor mounted high speed switch	X	
Operator selectable performance modes	X	
DRIVE	STD	OPT
Drive tire 12" x 4.5"		
- Polyurethane 90 durometer	X	
- Soft polyurethane 80 durometer		X
- Red polyurethane 85 durometer		X
- NDIllthane polyurethane 90 durometer		X
Casters 4" x 2.5" quick adjust spring-loaded polyurethane		
- Heavy duty greaseable	X	
- Heavy duty sealed wheel		X
Load wheels		
- 3.25" x 6.5" single polyurethane	X	
- 3.25" x 3.25" dual polyurethane		X
- 2 bearing and 4 bearing		X
- Greaseable and sealed bearing		X
LIFT	STD	OPT
Heavy duty, long life lift linkage with lubrication fittings		
- "X" groove style greaseable pivot bushings	X	
- 1" hardened, bolt retained flag pins	X	
- Knock-out load wheel axles	X	
Lift motor cut-out at full height	X	
Fork lengths		
- 48" long forks - standard tip	X	
- 36" long forks - standard tip		X
- 60" long forks - standard tip		X
- 84" long forks - extended tip		X
- 93" long forks - extended tip		X
- 96" long forks - extended tip		X
- 144" long forks - extended tip short wheelbase (C80ZHD only)		X
Fork widths		
- 27" wide	X	
- 28" wide		X
Pallet entry rollers	X	
Pallet entry skid bars		X
Flush pallet stop	X	
Load backrest 48" high	X	
ERGONOMICS	STD	OPT
Steering column with three tilt positions	X	
Removable thick cushioned floormat	X	
Cushioned knee and backpads	X	
3" thick premium backrest package		
- Auxiliary controls		X
- Integrated armrest		X

OPERATION	STD	OPT
Control handle with full rotary grip travel control		
- 17" wide		X
- 25" wide	X	
- Side Glide™		X
Multifunction full-color touch display		
- Battery state of charge	X	
- Hour meter	X	
- Low battery lift interrupt	X	
- Fault indicator	X	
Battery connector		
- 175 amp red	X	
- 175 amp grey		X
RF terminal power supply – 24 volt		X
Audible alarm - self adjusting back up		X
Electronic horn	X	
On-board software		
- Program, test and diagnose	X	
- No handset required	X	
- Password protected	X	
Convenience tray (battery mounted)		X
Two-stage brake switch	X	
Electro-mechanical park brake	X	
ENERGY SYSTEM	STD	OPT
Set for flooded cell	X	
Set for maintenance free		X
Hyster Power Collect™		X
SUPPLEMENTAL	STD	OPT
Operating manual	X	
12 months/unlimited hour manufacturer's warranty	X	
36 months/6,000 hour powertrain warranty	X	
Lifetime main frame warranty	X	
3 year/6,000 hour part A comprehensive parts and labor no deduct		X
5 year/10,000 hour part A comprehensive parts and labor no deduct		X
5 year/10,000 hour part B powertrain parts and labor no deduct		X
HY-Shield - part A extension to 3 years/6,000 hours - part B extension to 5 years/10,000 hours		X
Parts manual		
- CD		X
- Printed		X
CONSTRUCTION	STD	OPT
UL Classification "E"	X	
UL Classification "EE"		X
Application/Environmental Construction		
- Standard construction: operating temperatures +32°F to 120°F	X	
- Cooler/Freezer package: operating temperatures 0°F to +120°F		X
- Sub-zero freezer package: operating temperatures -40°F to +120°F		X
- Wash down package: operating temperatures 0°F to +120°F		X
Key ignition switch	X	
Keyless toggle start switch		X
31.3" x 13.4" open battery compartment	X	
Battery rollers		X
20.8" x 32" wide operator's compartment	X	
VISIBILITY	STD	OPT
Amber LED strobe light pole mounted		X



Hyster Company  
P.O. Box 7006, Greenville, North Carolina 27835-7006

© Hyster Company. 2023, all rights reserved. Hyster and  are trademarks of Hyster-Yale Group, Inc.

Hyster products are subject to change without notice. Trucks may be shown with optional equipment.

**CERTIFICATION:** Hyster lift trucks meet the design and construction requirements of B56.1-1969, per OSHA Section 1910.178(a)(2), and also comply with the B56.1 revision in effect at time of manufacture. Performance specifications/ratings are for truck equipped as described under standard equipment in this technical guide. Performance specifications are affected by the condition of the vehicle and how it is equipped, as well as by the nature and condition of the operating area. Specifications are subject to change and the proposed application should be discussed with your authorized Hyster Company dealer.