



**STRONG PARTNERS.  
TOUGH TRUCKS.™**

# C60-80Z<sup>HD</sup> SERIES

HEAVY DUTY CENTER RIDER

**BRIGGS**®

EQUIPMENT MEXICO

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## DESIGNED FOR YOUR DISTRIBUTION AND WAREHOUSE APPLICATIONS

Our Hyster® C60-80Z<sup>HD</sup> center riders have been engineered to take on the most demanding, heavy duty applications in a multitude of operating conditions. To do so, we started with you, our customer, to understand your business, your challenges and your expectations. With our customers' needs in mind, we started from the ground up to build a center rider that won't flinch at the industry's toughest challenges.

After every detail was considered and meticulously designed, we put the 6,000 and 8,000 lb. center riders through rigorous testing; and when we were done, we asked our customers to do the same. In the end, the Hyster C60Z<sup>HD</sup> and C80Z<sup>HD</sup> met the challenges of some of our most demanding customers. The results are clear; Hyster center riders consistently outperform the competition.

## > DESIGN THAT CHANGES THE GAME

Hyster knows the demands of staying on top. It requires tough work. That's why we've designed the C60-80Z<sup>HD</sup> center rider. Because trucks run across uneven surfaces, pound into pallets, start and stop and start again – designing a dependable, efficient pallet jack was our top priority. From enhancing frame stability, to reinforcing our forks with 25% more steel, to engineering the undercarriage to protect all of the truck's most critical components, we've designed our heavy duty center riders to be the durable solution to your application's toughest challenges.

<p><b>A</b></p>  <p>LARGE EXIT ROLLERS REDUCE PALLET DRAG</p>	<p><b>B</b></p>  <p>FELT WASHERS SEAL BUSHING LOCATIONS TO KEEP DIRT OUT AND LUBRICATION IN</p>	<p><b>C</b></p>  <p>1.00" THREADED ROD ADJUSTMENT INCREASES STRENGTH OF THE FUSE POINT</p>	<p><b>D</b></p>  <p>MORE STRENGTH IN FRONT LINKAGE</p>	
<p><b>E</b></p>  <p>25% INCREASE IN STEEL</p>	<p><b>F</b></p>  <p>5/16" THICK STEEL</p>	<p><b>G</b></p>  <p>ENHANCES STABILITY</p>	<p><b>H</b></p>  <p>RESISTS DAMAGE FOR LONGER LIFE</p>	<p><b>I</b></p>  <p>25% LESS FORCE NEEDED ON PULL ROD</p>



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E



*FORK cross section*

F



*heavy duty caster*

G



*changing linkage points reduces force in system by 25%*

## > LOW COST OF OWNERSHIP

It took determination and laser focus to build a truck that can stand up to the challenges of your operation. When your heavy duty application demands that a truck run 4,000 + hours a year, you want to be absolutely certain you have the equipment that's up to the task. That's why we built the Hyster® C60-80Z<sup>HD</sup> series center riders to be some of the toughest in the industry – lowering your overall cost of ownership!

### HYSTER® I<sup>3</sup> TECHNOLOGY™

Hyster i<sup>3</sup> Technology™ integrates commonality among Hyster warehouse products and simplifies the way in which operators and technicians alike handle and service the truck. The Integrated Intelligent Interface ties together functionality, software, diagnostic codes, similar interfaces and is Hyster Tracker compatible. This technology allows operator input to optimize performance to suit operator skill level. It also provides setup and diagnostic menus for service technicians.



### LOW MAINTENANCE MEANS MORE UPTIME

- High efficiency AC traction motor requires no service.
- Electro-mechanical brake has no service requirements.
- Stationary traction motor design eliminates power cable flexing and the potential for loose power wire connections.
- Non-contact Hall-Effect throttle control eliminates wear components and requires no mechanical adjustments.
- Controller absorbs excess current during hydraulic motor activation to extend motor life.
- Lube fittings and serviceable bushings at all pivot points reduce wear and extend component life.
- CANbus communication system helps reduce wear by simplifying truck wiring—fewer wires mean fewer potential failure points.

### SERVICEABILITY

Even the toughest trucks need to be properly maintained, so when it comes time to service our 6,000 lb. and 8,000 lb. heavy duty center riders, we've made certain it's easy to get the job done fast. The traction and hydraulic controls compartment requires no tools to open. And the translucent hydraulic reservoir allows technicians to check fluid levels at a glance. Your technicians will also appreciate our on-board diagnostic capability, which allows for quick troubleshooting. When parts or service help are required, your Authorized Hyster® Lift Truck Dealer can provide genuine, tough as nails, Hyster parts or service, from one of North America's most extensive full-line lift truck dealer networks, so you can feel confident your Hyster® lift truck will be there when you need it.



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**HYSTER**

## > TOUGH ON THE INSIDE, COMFORTABLE ON THE OUTSIDE.

The productivity of your operation is directly affected by the comfort of your operators. We've always engineered Hyster® trucks to be operator friendly and our center riders are no exception. Features like programmable performance modes let operators tailor truck performance to the application or their skill level. From the large operator compartment to the intuitive controls and optional electronic power assist steering, our intelligently designed ergonomics make our heavy duty center riders easier and more comfortable to operate.



Mounted in the floor plate, the high speed or "rabbit" speed switch gives the C60-80Z<sup>HD</sup> Center Rider series' excellent travel speeds. So whether you're moving single or double pallet loads of product that weigh 3 or 4 tons (6,000 or 8,000 lbs.), your operators spend more time performing order fulfillment and less time traveling



Spacious operator's compartment is 20.8" deep and 32.0" wide. It comes equipped with a forward bulk-head, operator's back pad, and a shock absorbent, removable 1.0" thick floor mat affording ample cushioning. It also reduces the effects of vibration and standing stresses, while enhancing operator stability over uneven surfaces. Best of all, with a 4.6" step height, entry and exit is easy.

### CONTROL HANDLE

A 3-position tilt steer column and a 25.0 inch wide steer handle with full rotary grips that control travel speed and direction provides you an excellent means of productivity for high speed transporting of goods from point A to point B.

The Side Glide Control Handle provides smooth operation while picking orders. Instead of fully entering the compartment to move the truck a short distance, the operator can simply toggle the control and glide the truck forward.





## AUTO DECELERATION

- Reduces the need to manually apply a service brake for slow down.
- Operator simply returns the throttle control towards neutral for a controlled deceleration, reducing fatigue and enhancing productivity.
- Two-stage braking is activated by squeezing the brake levers mounted on the control handle.



## TAPERED FORK DESIGN

- Provides industry-leading pallet entry and exit.
- Design offers smooth pallet entry and exit.
- Top of profile has been tapered to allow easy handling of pallets.

## PERFORMANCE

The Hyster® C60Z<sup>HD</sup> and C80Z<sup>HD</sup> 6,000 lb. and 8,000 lb. heavy duty center riders are extraordinarily quick. Pace-setting, programmable acceleration and travel speeds allow more loads to be moved per hour. A high-performance hydraulic system, coupled with the advanced pallet entry-exit system, produces outstanding cycle times. In addition to being quick, these trucks are exceptionally maneuverable. Their tight turning radius, short head length and control handle design allow them to easily enter and exit tight spaces quickly.



*Enhanced pallet entry/exit*

## EFFICIENCY

With our "Extended Shift" feature, your truck is not only working hard, it's working smart. When this feature is engaged, your truck is operating with maximum efficiency allowing it to run longer between battery changes. When the "Extended Shift" feature is disengaged, your truck operates in high-performance mode for quicker acceleration and higher travel speeds.

Our intelligent design provides improved torque, increased travel speeds and allows for smoother acceleration and directional changes. Features like programmable performance modes let operators tailor truck performance to the application or their skill level.

## > APPLICATION-MATCHED PERFORMANCE

The Hyster C60-80ZHD Center Rider is designed for continuous use in general warehouses and refrigerated coolers, as well as intermittent use in freezers to -15 degrees Fahrenheit. Optional environmental packages include continuous cold storage/freezer, severe freezer/corrosion and U.L. type "EE" classification.

### COOLER / FREEZER PACKAGE

- Available for both 6,000 and 8,000 lbs. capacity models
- Operating temperatures: 0°F to +120°F
- N/A with UL "EE" Construction

### SUBZERO PACKAGE

- Available for both 6,000 and 8,000 lbs. capacity models
- Operating temperatures: -40°F to +120°F
- N/A with UL "EE" Construction

### WASH DOWN PACKAGE

- Available for both 6,000 and 8,000 lbs. capacity models
- Operating temperatures: 0°F to +120°F
- Painted frame
- Designed for applications requiring pressure washing
- Includes enclosed traction controller, electric brake enclosure, lubrication (freezer oil), corrosion inhibitor on unpainted surfaces of drive wheel and MDU and special lubricants applied to battery rollers when ordered
- N/A with Electronic Power Assist Steering or UL "EE" Construction

### OPTIONAL PREMIUM PACKAGE

The C60-80Z<sup>HD</sup> with the optional premium package offers extra productivity enhancing features:

- 3-inch thick back pad and auxiliary controls.
- auxiliary set of lift, lower and horn buttons, which aids in operating the C60-80ZHD in the forks-first direction.

Optional integrated armrest with auxiliary controls.

Optional storage bin provides convenient placement for on-the-job items.

# INNOVATIVE TRUCKS ENGINEERED TO MEET THE MOST DEMANDING APPLICATIONS

For nearly 90 years, Hyster has conquered the world's most demanding applications. In the 1920s Hyster started as a manufacturer of lifting machines used in the rigorous logging industry of the United States' Pacific Northwest. A few years later the first forklift trucks were invented and the Hyster brand quickly gained its reputation for rugged quality. Hyster® lift trucks are designed to lower your cost of operations. Every truck we make — gasoline, LPG, diesel and electric — is purpose-built to excel in its application. Every truck is also backed by an unmatched network of specialists.



**Dealer Network** — Our Dealer Network can offer the expertise of fleet managers, parts suppliers, capital procurement specialists and trainers. Carefully chosen dealers fully understand customer applications, assist in selecting the right lift truck and provide fast, reliable support.



**Hyster Fleet Services** — Even if you operate other brands, we can manage your maintenance and replacement plan. We can offer complete fleet analysis, fleet history summary and a cost-effective proposal for replacement and scheduled maintenance.



**Parts** — With genuine Hyster® replacement parts and UNISOURCE™ parts for all makes of lift trucks, we are your one-stop source for lift truck parts. In fact, we offer more than 7 million part number crosses for most brands of materials handling and other in-plant mobile equipment.



**Rental Products** — When leasing or buying isn't a practical option, we have access to more than 14,000 units for short- and long-term rental. We'll help you maintain output in a cost-effective manner.



**Hyster Capital** — We can arrange solutions for special financing requirements, taking the difficulties out of buying the equipment you need. Whether you purchase or lease a new or used lift truck, Hyster Capital offers superior service and competitive rates.



**Special Products Engineering Department (SPED)** — Different materials require different handling. That's why we can work with you to customize your lift trucks. From strobe lights to specially made forks, SPED has the tools to help you get the job done right.



**Operator Training** — Proper education in operating lift trucks minimizes the risk of injuries due to accidents while increasing productivity. Hyster offers OSHA-compliant materials that support the training of qualified operators.



**Service** — Your local Hyster® dealer offers a flexible, customized and comprehensive maintenance plan based on each lift truck's operation environment. Hyster service programs offer scheduled inspections and maintenance, along with quick, responsive service dispatched to your location.



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TOUGH TRUCKS.™**



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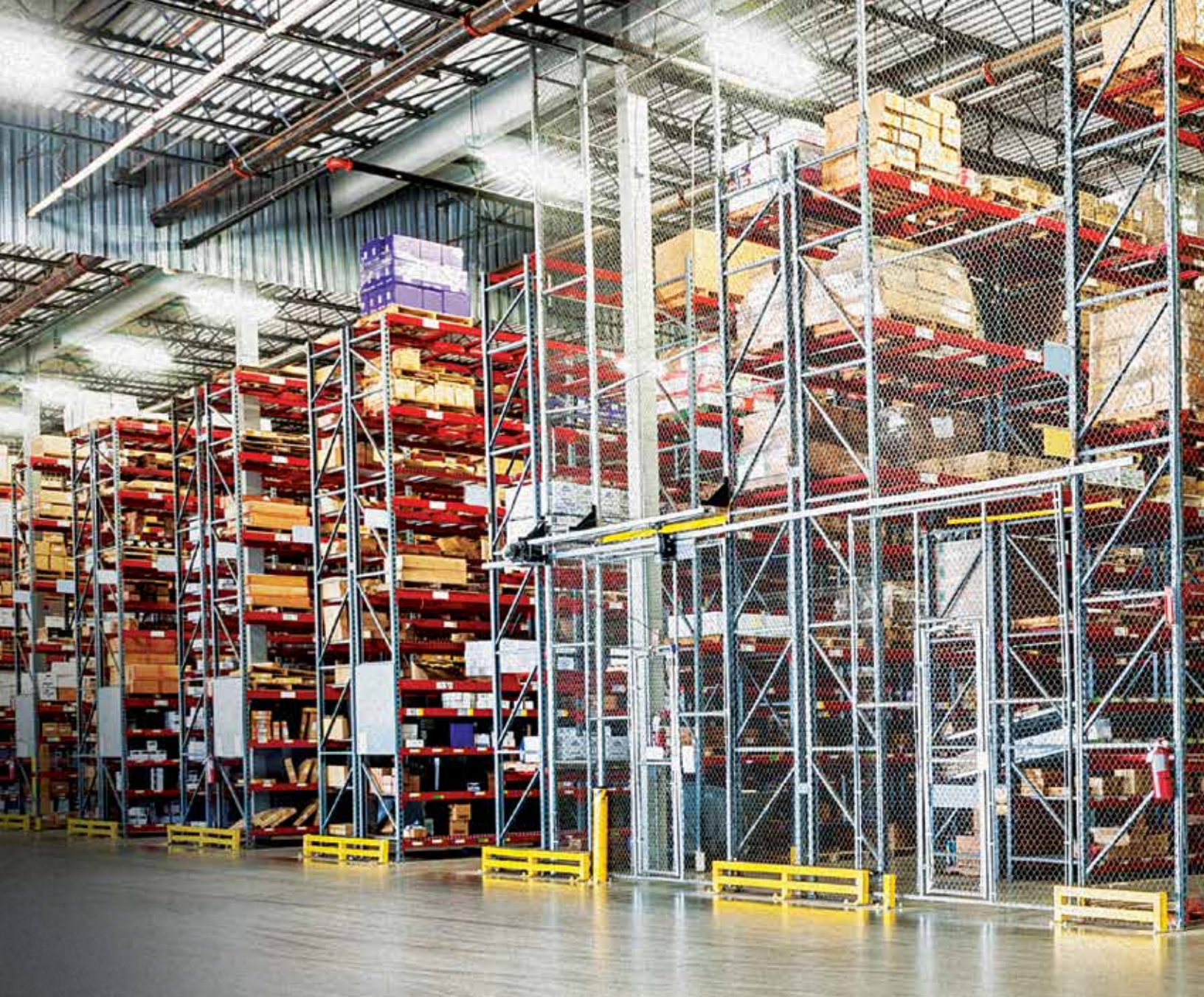
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**B60Z<sup>AC</sup> SERIES**

WALKIE/RIDER MOTORIZED HAND PALLET TRUCK



### NEED TO MOVE MORE LOADS WITH LESS EFFORT?

The B60Z<sup>AC</sup> series of hand pallet trucks helps you work smarter with exceptional maneuverability and features that let you move more loads with less effort. A versatile truck designed for indoor use, this truck is ideally suited for a wide variety of applications such as grocery stores, department stores, fresh fruits and vegetables, general warehousing & storage, bottled & canned soft drinks.



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**HYSTER**

**AC**

## ➤ CAN YOU DEPEND ON YOUR LIFT TRUCK – LOAD AFTER LOAD?

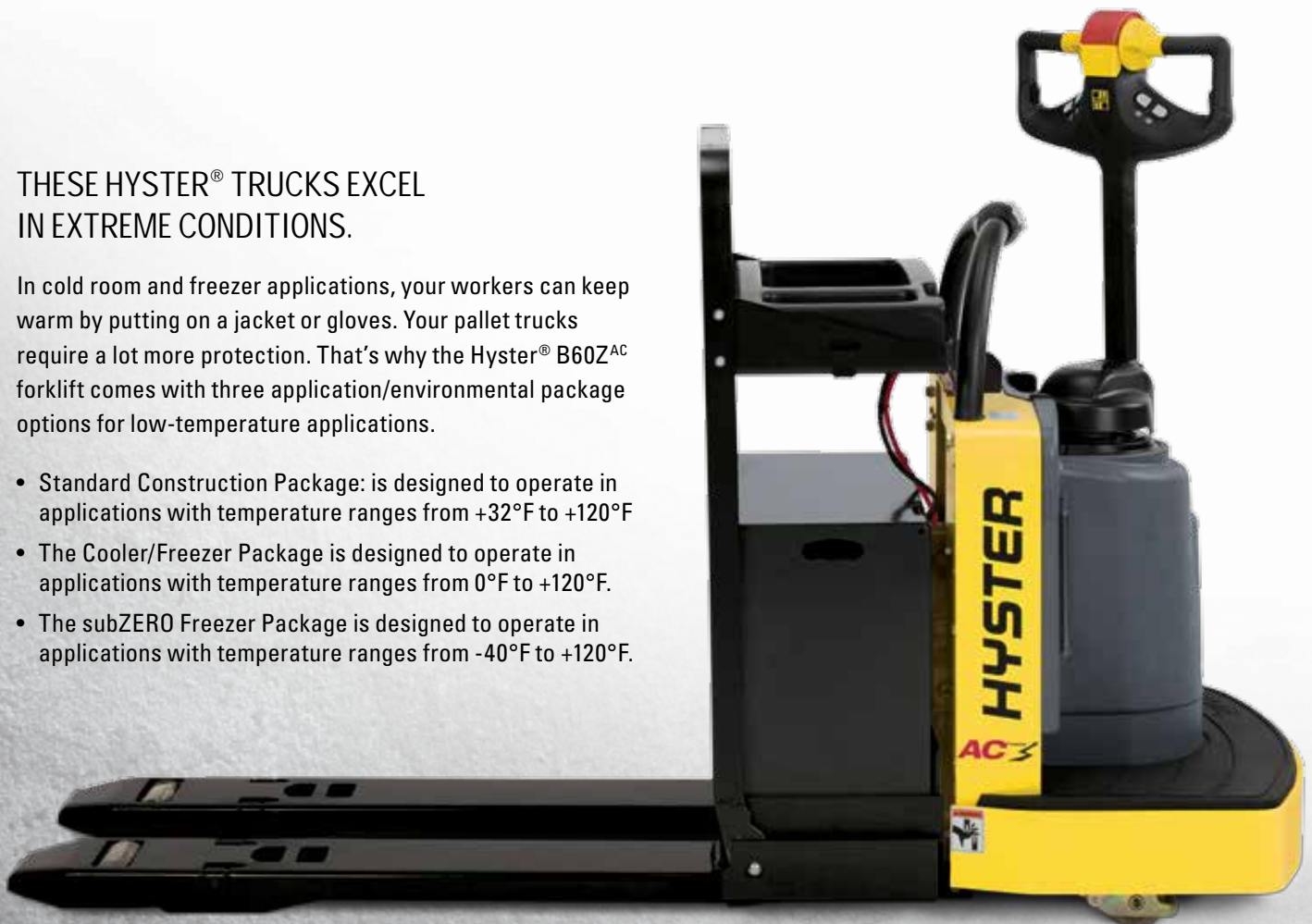
The B60Z<sup>AC</sup> sets the standard for long-lasting, worry free operation. Every detail is designed by Hyster engineers to make sure you can always deliver – and never get left holding the load.

- CANbus communication system significantly reduces the number of wires required in the electrical system, and links the control handle, display, controller and optional Power Assist Steer together.
- Steel, reinforced control handle is durable, impact resistant and easy to service.
- Electro-mechanical brake has no linkage to adjust and maintain.
- AC traction transistor controller provides improved torque, increased travel speeds and allows smoother acceleration and directional changes..
- Integrated transistor pump control provides a “soft start” feature by eliminating the high in-rush current associated with contactors and, therefore, extends the service life of the pump motor.
- The AC system uses less energy than SEM systems, increasing overall truck performance while decreasing battery charge intervals enable the truck to be tailored to the application or operator skill level.
- All wire harness connectors feature double sealed industrial type connections, which prevent moisture and other contaminants from entering the connector.
- Auto Deceleration System utilizes regenerative braking, extending brake component life and reducing downtime.

### THESE HYSTER® TRUCKS EXCEL IN EXTREME CONDITIONS.

In cold room and freezer applications, your workers can keep warm by putting on a jacket or gloves. Your pallet trucks require a lot more protection. That’s why the Hyster® B60Z<sup>AC</sup> forklift comes with three application/environmental package options for low-temperature applications.

- Standard Construction Package: is designed to operate in applications with temperature ranges from +32°F to +120°F
- The Cooler/Freezer Package is designed to operate in applications with temperature ranges from 0°F to +120°F.
- The subZERO Freezer Package is designed to operate in applications with temperature ranges from -40°F to +120°F.



## ALL TRUCKS NEED SERVICING — WE MAKE IT EASIER.

- Electrical compartment cover is secured by spring clip retention, allowing removal of cover without tools.
- Translucent hydraulic reservoir provides quick and easy fluid level check.
- AC traction motor has no brushes and commutator to maintain/replace.
- The electro-mechanical brake has no service requirements.
- Hall-effect throttle control is a non-contact device, eliminating wear components and requiring no mechanical adjustments.
- Lube fittings and serviceable bushings are used at all pivot points, reducing component wear and extending component life.
- Stationary traction motor design eliminates power cable flexing and potential for loose power wire connections.
- On-board diagnostic capability allows for quick troubleshooting, increasing truck uptime.



## SUPPORTING CUSTOMERS WITH WORLD-CLASS PARTS & SERVICE

Four Parts Distribution Centers strategically located around the world provide a full range of original equipment and aftermarket parts that help maintain our customers' uptime. In fact, our Guaranteed Availability Program ensures that parts that are normally required in the first 2 years of operation will be available from your Hyster® parts dealer within 24 hours or they are free.\*

We also take that commitment into the field with the Hyster CERTECH® Certification training program. This technical training program provides both systems level as well as product-specific education to ensure lift trucks are repaired right the first time.

\* Contact your local dealer for program details.

## > HOW WILL YOU KEEP PROFITS UP AND COSTS DOWN?

### A COMFORTABLE OPERATOR IS A MORE PRODUCTIVE OPERATOR.

- Activation buttons for the optional Advanced Coast Control are conveniently positioned on each side of the steer handle for easy, effortless thumb operation from either side of the truck.
- The short head length control handle allows for the best turning radius and right angle stacking capabilities in its class. Left- and right-hand controls make finger tip control of lift/lower, travel and the horn functions a snap.
- Ergonomically angled handgrips and contoured control handle provide a comfortable grip.
- Padded and contoured steady rest provides a soft and comfortable grab point, increasing operator stability while riding.
- Power Assist Steer option helps operators move heavy loads through tight turns and crowded loading areas with ease, reducing fatigue and enhancing truck maneuverability.
- Low step height provides quick and easy on off access for operator, reducing fatigue during the work shift.
- Backlit dash display allows easy reading in low/minimal light conditions.
- Truck features a full six inches of lift height for easy maneuverability over uneven floor surfaces and across dock plates.

### BOOST YOUR PRODUCTIVITY.

- Pace setting travel speeds allow more loads to be moved per hour.
- A high performance hydraulic system, coupled with the advanced pallet entry/exit system, produces outstanding cycle times.
- Optional Coast Control with Side Glide feature eliminates climbing on/off during quick pick applications, increasing low level order picking efficiency. (Coast Control available with advanced activation or manual activation.)
- Operator selectable, programmable performance modes enable the truck to be tailored to the application or operator skill level.
- AC traction controller provides improved torque, increased travel speeds and allows smoother acceleration and directional changes.
- Extended Shift Feature:
  - With Extended Shift on, truck performance is tailored with energy efficiency in mind, allowing the truck to operate longer between battery charges.
  - With Extended Shift off, parameters are adjusted with high performance in mind, allowing quicker acceleration and directional changes, for faster cycle times resulting in increased throughput and productivity.

### HYSTER® I<sup>3</sup> TECHNOLOGY™

Hyster® i3 Technology™ integrates commonality among Hyster warehouse products and simplifies the way in which operators and technicians alike handle and service the truck. The Integrated Intelligent Interface ties together functionality, software, diagnostic codes, similar interfaces and is Hyster Tracker compatible. This technology allows operator input to optimize performance to suit operator skill level. It also provides setup and diagnostic menus for service technicians.





## HYSTER TRACKER - WIRELESS ASSET MANAGEMENT

Take your fleet operation to the next level with wireless asset management from Hyster. Hyster Tracker provides a scalable solution for fleets. From monitoring truck utilization to limiting operator access. Hyster Tracker allows you to track your fleet at your fingertips.



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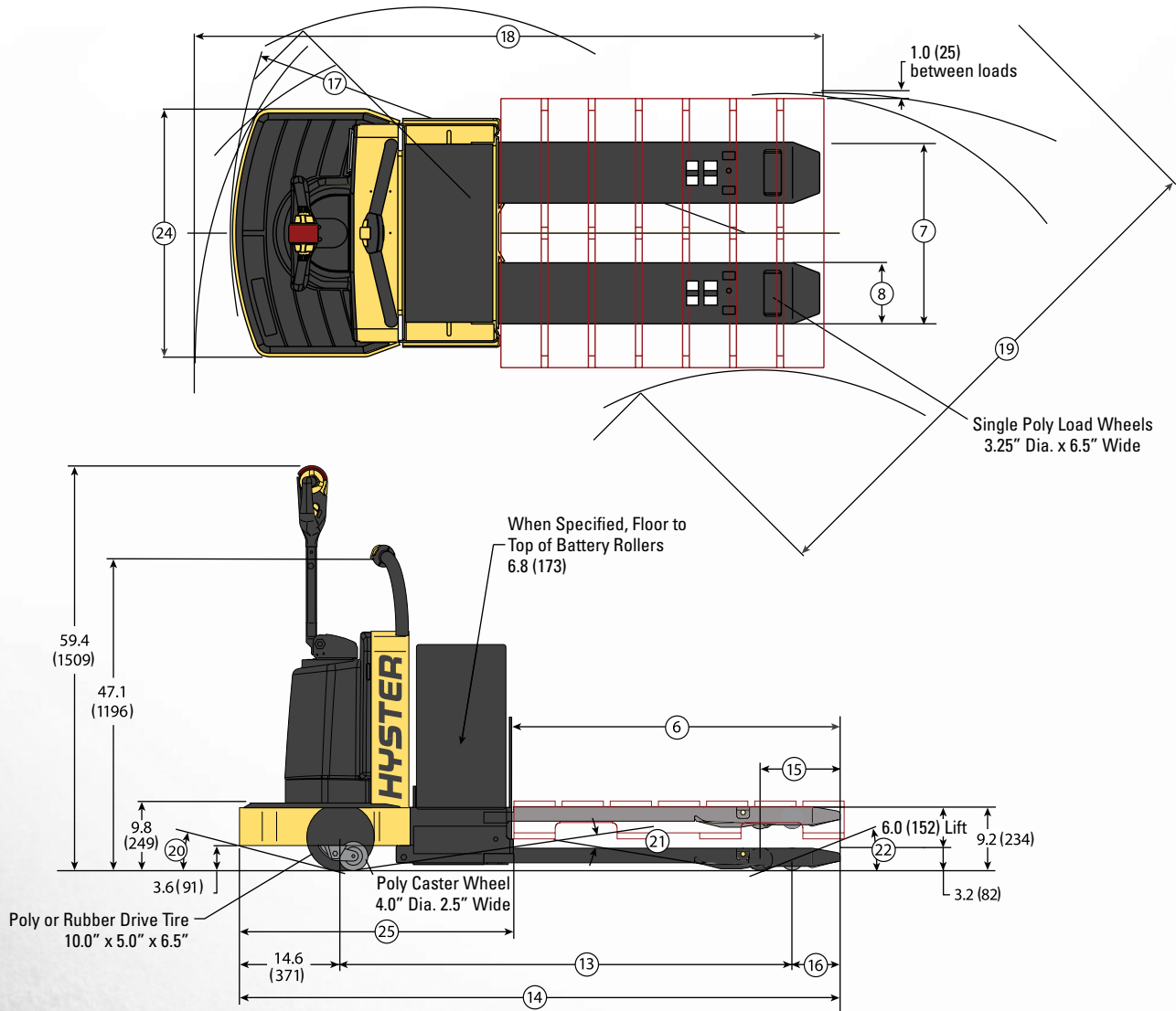
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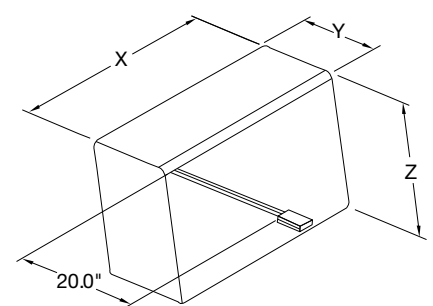
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# > B60Z<sup>AC</sup> DIMENSIONS

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



BATTERY SPECIFICATIONS							
Number of Cells	Cell Size	Plates per Cell	Capacity 6 Hr Rate amp hr (kwh)	Battery Dimensions			Weight lb (kg)
				X	Y	Z	
				in (mm)	in (mm)	in (mm)	
12	75	7	225 (5.2)	25.7 (652)	8.8 (224)	23.3 (592)	540 (245)
12	85	7	225 (6.0)	25.7 (652)	8.8 (224)	23.3 (592)	570 (259)
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 (673)	13.0 (330)	23.3 (592)	865 (392)
12	75	13	450 (10.5)	3.09 (785)	13.0 (330)	23.3 (592)	987 (448)
12	85	13	510 (11.9)	3.09 (785)	13.0 (330)	23.3 (592)	1035 (469)
12	100	13	600 (14.0)	3.09 (785)	13.0 (330)	26.2 (665)	1200 (544)



Battery Connector: 175 Amp, Red • Battery Lead: Length 20" (508 mm), Position "B", 1/0 AWG



GENERAL	1	Manufacturer		HYSTER				
	2	Model Designation		B60Z <sup>AC</sup>				
GENERAL	3	Power		Battery - 24 Volt				
	4	Operation		Walk / Stand Ride				
GENERAL	5	Rated Capacity		6000 (2722)				
	6	Fork Length	Nominal	in (mm)	36 (914)	42 (1067)	48 (1219)	60 (1524)
GENERAL		Fork Length	Actual	in (mm)	35.75 (908)	41.75 (1060)	47.75 (1213)	59.75 (1518)
	7	Fork Overall Width		in (mm)	27.0 (686)			
GENERAL	8	Fork Width - Individual Fork		in (mm)	9.1 (231)			
	9	Load Distance Face of Forks to Center of Load Wheel	Lowered	in (mm)	28.75 (730)	34.75 (883)	40.75 (1035)	52.75 (1340)
WEIGHTS	10	Truck Weight Without Battery	No Load	lb (kg)	1237 (561)	1257 (570)	1272 (577)	1302 (591)
	11	Axle Loading - Drive Static with Max. Wt. Battery	Rated Load	lb (kg)	2268 (1029)	2566 (1164)	2807 (1273)	3212 (1457)
WEIGHTS		Axle Loading - Drive Static with Max. Wt. Battery	No Load	lb (kg)	1541 (699)	1601 (726)	1649 (748)	1760 (798)
	12	Axle Loading - Load Wheel Static with Max. Wt. Battery	Rated Load	lb (kg)	6109 (2771)	5831 (2645)	5605 (2542)	5230 (2372)
WEIGHTS		Axle Loading - Load Wheel	No Load	lb (kg)	836 (379)	796 (361)	763 (346)	682 (309)
	13	Wheelbase - No Load Backrest or with Pivoting Load Backrest	Raised	in (mm)	49.2 (1250)	55.2 (1402)	61.2 (1554)	73.2 (1859)
WEIGHTS		Wheelbase - No Load Backrest or with Pivoting Load Backrest	Lowered	in (mm)	53.8 (1367)	59.8 (1519)	65.8 (1671)	77.8 (1976)
		Wheelbase - With Bolt-On Load Backrest	Raised	in (mm)	51.2 (1300)	57.2 (1453)	63.2 (1605)	75.2 (1910)
WEIGHTS		Wheelbase - With Bolt-On Load Backrest	Lowered	in (mm)	55.8 (1417)	61.8 (1570)	67.8 (1722)	79.8 (2027)
	14	Overall Length - No Load Backrest or with Pivoting Load Backrest		in (mm)	75.3 (1913)	81.3 (2065)	87.3 (2217)	99.3 (2522)
WEIGHTS		Overall Length - With Bolt-On Load Backrest		in (mm)	77.3 (1963)	83.3 (2167)	89.3 (2268)	101.3 (2573)
	15	Center of Load Wheel to Tip of Forks	Raised	in (mm)	11.7 (297)			
WEIGHTS	16	Center of Load Wheel to Tip of Forks	Lowered	in (mm)	7.0 (178)			
	17	Outside Turning Radius - No Load Backrest or w/Pivoting Load Backrest	Raised	in (mm)	63.6 (1615)	69.6 (1768)	75.6 (1920)	87.6 (2225)
WEIGHTS		Outside Turning Radius - No Load Backrest or w/Pivoting Load Backrest	Lowered	in (mm)	68.3 (1735)	74.3 (1887)	80.3 (2040)	92.3 (2344)
		Outside Turning Radius - With Bolt-On Load Backrest	Raised	in (mm)	65.6 (1666)	71.6 (1819)	77.6 (1971)	89.6 (2276)
WEIGHTS		Outside Turning Radius - With Bolt-On Load Backrest	Lowered	in (mm)	70.3 (1786)	76.3 (1938)	82.3 (2090)	94.3 (2395)
	18	Right Angle Stack - No Load Backrest or with Pivoting Load Backrest	Raised	in (mm)	78.6 (1996)	83.7 (2126)	89.1 (2263)	100.0 (2540)
WEIGHTS		Right Angle Stack - With Bolt-On Load Backrest	Raised	in (mm)	80.4 (2042)	85.4 (2169)	90.9 (2309)	101.8 (2586)
	19	Equal Intersecting Aisle - No Load Backrest or w/Pivoting Load Backrest	Raised	in (mm)	61.8 (1570)	64.9 (1648)	68.0 (1727)	74.3 (1887)
WEIGHTS		Equal Intersecting Aisle - With Bolt-On Load Backrest	Raised	in (mm)	63.3 (1608)	66.5 (1689)	69.6 (1768)	75.9 (1928)
	20	Grade Clearance	Chassis	%	26			
WEIGHTS	21	Grade Clearance	Ctr of Wheelbase	%	39	34	31	25
	22	Grade Clearance	Forks	%	39			
WEIGHTS	23	Lift Height - Top of Fork Lowered Ht / Raised Ht / Total Lift		in (mm)	3.2 / 9.2 / 6.0 (81 / 234 / 152)			
	24	Truck Overall Width		in (mm)	36.9 (937)			
WEIGHTS	25	Chassis Length Length of Face to Forks		in (mm)	39.5 (1003)			
	26	Battery Compartment L x W x H Standard w/Battery Rollers		in (mm)	31.25 x 13.4 x OPEN (793 X 340 X OPEN)			
PERF.	27	Travel Speed Chassis First	No Load/Rated Load	mph (kph)	9.0 / 6.7 (14.5 / 10.8)			
		Travel Speed Forks First	No Load/Rated Load	mph (kph)	6.0 / 5.2 (9.7 / 8.4)			
PERF.	28	Drive Control	Type		AC			
	29	Service Brake	Type		Electro-Mechanical			
WHEELS	30	Drive Tire Size / Type (Number of Wheels)		in	10.0 x 5.0 x 6.5 / Poly (1)			
	31	Load Wheel Size / Type (Number of Wheels)		in	3.25 x 6.25 / Poly (2)			
	32	Caster Wheel Size / Type (Number of Wheels)		in	4.0 x 2.5 / Poly - Spring Loaded (2)			

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.  
 Grade Clearance measured to the bottom of the pallet with forks in a raised position.

**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.

## ➤ AT-A-GLANCE FEATURES

### STANDARD EQUIPMENT

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48" long forks  
27" fork spread  
Standard construction operating temperatures:  
+32° F to + 120° F  
Smooth polyurethane drive tire – 90 durometer – 10" x 5.0"  
Single polyurethane load wheels – 3.25" x 6.5"  
Standard duty casters – polyurethane wheels  
Manual steering  
Key ignition switch  
24-volt transistor control electrical system  
AC traction motor (brushless)  
Operator selectable, programmable performance modes  
Integrated "soft start" transistor lift pump control  
ADS (Auto Deceleration System) with regenerative braking  
Extended shift feature  
31.25" x 13.4" open battery compartment  
Electro-mechanical park brake  
UL Classification Type "E"

Electronic horn  
Impact resistant, steel reinforced, ergonomic control handle  
Pallet exit rollers/entry skids  
Knock-out load wheel axles  
6" lift height  
Boxed fork construction with reinforced fork tips  
Flush pallet stop  
Long life lift linkage  
Hyster® i3 Technology™  
Multi-function display

- Battery state of charge
- Hour meter
- Low battery lift interrupt
- Performance mode indicator
- Fault indicator

On-board software

- Test and diagnose
- No handset required
- Password protected

### OPTIONAL EQUIPMENT

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Power assist steer  
Battery rollers  
Convenience tray (load backrest mounted or battery mounted)  
RF terminal power supply – 24-volt  
Audible alarm  
Visible alarm – pole mounted amber strobe  
Advanced coast control with side glide  
Manual coast control with side glide  
Casters

- Heavy duty
- Heavy duty with sealed wheel and swivel bearings

Fork lengths

- 36" long forks
- 42" long forks
- 60" long forks

Drive tire

- Rubber – 65 durometer
- Siped polyurethane – 90 durometer

Load wheels

- Single and dual
- 2 bearing and 4 bearing
- Standard bearing and sealed bearing

Load backrest

- 48" high (pivoting or bolt-on)
- 60" high (pivoting or bolt-on)
- 72" high (bolt-on)

Application/environmental construction

- Cooler/freezer package operating temperatures: 0° F to +120° F
- subZERO freezer package operating temperatures: -40° F to +120° F

# INNOVATIVE TRUCKS ENGINEERED TO MEET THE MOST DEMANDING APPLICATIONS

For more than 80 years, Hyster has been conquering the world's most demanding applications. In the 1920's Hyster started as a manufacturer of lifting machines used in the rigorous logging industry of the United States' Pacific Northwest. A few years later the first forklift trucks were invented and the Hyster brand quickly gained its reputation for rugged quality. Hyster® lift trucks are designed to lower your cost of operations. Every truck we make — gasoline, LPG, diesel and electric — is purpose-built to excel in its application. Every truck is also backed by an unmatched network of specialists.



**Dealer Network** — Our Dealer Network can offer the expertise of fleet managers, parts suppliers, capital procurement specialists and trainers. Carefully chosen dealers fully understand customer applications, assist in selecting the right lift truck and provide fast, reliable support.



**Hyster Fleet Services** — Even if you operate other brands, we can manage your maintenance and replacement plan. We can offer complete fleet analysis, fleet history summary and a cost-effective proposal for replacement and scheduled maintenance.



**Parts** — With genuine Hyster® replacement parts and UNISOURCE™ parts for all makes of lift trucks, we are your one-stop source for lift truck parts. In fact, we offer more than 7 million part number crosses for most brands of materials handling and other in-plant mobile equipment.



**Rental Products** — When leasing or buying isn't a practical option, we have access to more than 14,000 units for short- and long-term rental. We'll help you maintain output in a cost-effective manner.



**Hyster Capital** — We can arrange solutions for special financing requirements, taking the difficulties out of buying the equipment you need. Whether you purchase or lease a new or used lift truck, Hyster Capital offers superior service and competitive rates.



**Special Products Engineering Department (SPED)** — Different materials require different handling. That's why we can work with you to customize your lift trucks. From strobe lights to specially made forks, SPED has the tools to help you get the job done right.



**Operator Training** — Proper education in operating lift trucks minimizes the risk of injuries due to accidents while increasing productivity. Hyster offers OSHA-compliant materials that support the training of qualified operators.



**Service** — Your local Hyster® dealer offers a flexible, customized and comprehensive maintenance plan based on each lift truck's operation environment. Hyster service programs offer scheduled inspections and maintenance, along with quick, responsive service dispatched to your location.



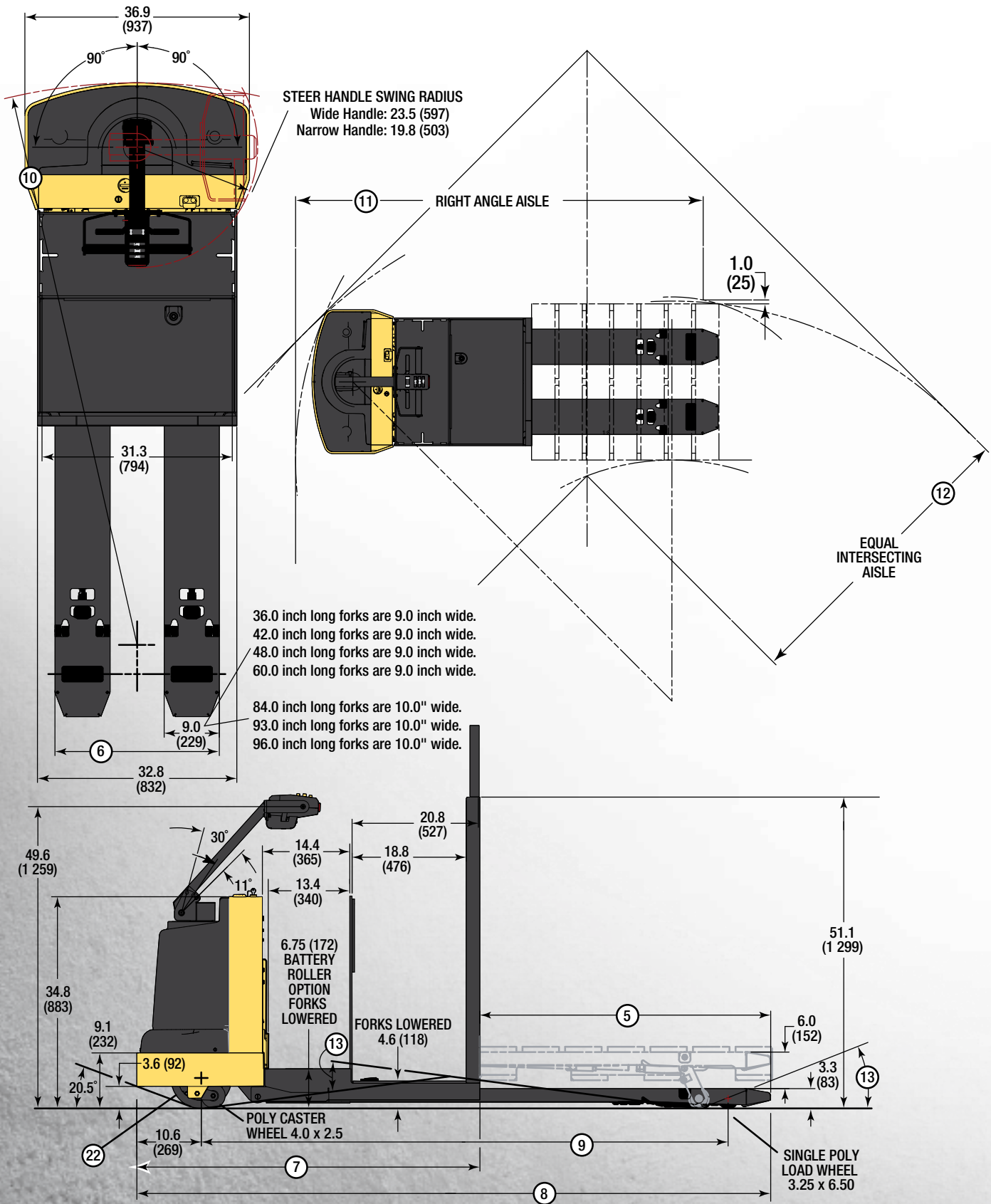
**STRONG PARTNERS.  
TOUGH TRUCKS.™**



**BRIGGS**  
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# **C60-80Z<sup>HD</sup> SERIES TECHNICAL GUIDE**

# > C60-80Z<sup>HD</sup> DIMENSIONS



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

# > C60Z<sup>HD</sup> SPECIFICATIONS

GENERAL	1	Manufacturer	Hyster Company			
	2	Model	C60Z <sup>HD</sup>			
	3	Capacity, rated	lbs (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)		
BATT.	17	Battery compartment size - std. 13.4", (L x W x H) *	in	31.2 x 13.4 x Open		
		Battery compartment size - std. 13.4", (L x W x H) *	(mm)	(792 x 340 x Open)		
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 lbs. 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	lbs (kg)	1,807 (820)		

C60-80Z<sup>HD</sup> pallet trucks use Red battery connector - 16" (406 mm) 1/0 gauge leads, B position.

\* 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".

CERTIFICATION: These Hyster lift trucks are designed to meet applicable regulatory codes and standards of OSHA, subpart n, Section 1910.178; ASME B56.1-1993, and current revisions; and U.L. 583 Standard of Electric Battery Powered Industrial Trucks.

† 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.

C60Z <sup>HD</sup> 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 lbs. (kgs)
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:**

- (1) Steel tray with cover required for all batteries.
- (2) Battery connector type 175 Amp, Red.
- (3) Cable lead position "B".
- (4) 16" (406 mm) cable length.
- (5) Maximum cable gauge of 1/0.
- (6) Battery well: 31.25" x 13.4" x open (794 mm x 340 mm x open)
- (7) Capacity noted is with 6 hr. rate.
- (8) 24 Volt



GENERAL	1	Manufacturer	Hyster Company							
	2	Model	C80Z <sup>HD</sup>							
	3	Capacity, rated	lbs (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 <sup>††</sup>	in (mm)	96.0 (2 413)	107.6 (2733)	119.8 (3042)	157.0 (3988)			207.2 (5262)
	12	Equal intersecting aisle, w/13.4" battery compartment <sup>††</sup>	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)			
BATT.	17	Battery compartment size - std. 13.4", (L x W x H) *	in	31.2 x 13.4 x Open						
		Battery compartment size - std. 13.4", (L x W x H) *	(mm)	(792 x 340 x Open)						
PERF. <sup>†</sup>	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 lbs. 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	lbs (kg)	1,716 (778)	1,807 (820)	1,897 (860)	2,010 (912)	2,039 (925)	2,048 (929)	2,312 (1051)

C60-80Z<sup>HD</sup> pallet trucks use Red battery connector - 16" (406 mm) 1/0 gauge leads, B position.

\* 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".

**CERTIFICATION:** These Hyster lift trucks are designed to meet applicable regulatory codes and standards of OSHA, subpart n, Section 1910.178; ASME B56.1-1993, and current revisions; and U.L. 583 Standard of Electric Battery Powered Industrial Trucks.

<sup>†</sup> 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.

C80Z <sup>HD</sup> 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 lbs. (kgs)
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:**

- (1) Steel tray with cover required for all batteries.
- (2) Battery connector type 175 Amp, Red.
- (3) Cable lead position "B".
- (4) 16" (406 mm) cable length.
- (5) Maximum cable gauge of 1/0.
- (6) Battery well: 31.25" x 13.4" x open (794 mm x 340 mm x open)
- (7) Capacity noted is with 6 hr. rate.
- (8) 24 Volt

## ➤ STANDARD FEATURES AND OPTIONS

### STANDARD EQUIPMENT


- 24 volt
- AC traction controller
- Transistor hoist control
- Low battery lift interrupt without display
- Hyster I<sup>3</sup> Technology™
  - Multifunction display
    - > Battery state of charge
    - > Hour meter
    - > Low battery lift interrupt
    - > Performance mode indicator
    - > Fault indicator
- Lift motor cut-out at full height
- Key switch - molded soft key
- Battery compartment (31.3" x 13.4")
- 175 amp, red battery connector
- Flush pallet stop
- 48.0" long forks
- 3-position tilt steer column
- Toggle switch activated, electro-mechanical park brake
- Floor mounted high speed switch
- Regenerative braking
- Standard construction
- 9.0" individual fork width, 27.0" width across forks
- 3.3" lowered fork height with 6.0" lift height
- Heavy-duty pull rods with replaceable threaded ends
- Spring-loaded polyurethane caster wheels (4.0" x 2.5")
- Single 3.25" x 6.50" polyurethane load wheels with 4-bearings per wheel (C80Z<sup>HD</sup>)
- Heavy duty casters – quick adjust caster, 4" x 2.5"
- Electronic horn
- Full rotary grip travel control
- Polyurethane drive tire (12.0" x 4.5")
- 48.0" high load backrest extension / load support
- Operator compartment (32.0" w x 20.8" d) with 1" thick cushioned floor mat and cushioned knee and back pad
- Operator manual
- 4.6" operator compartment step height (forks lowered)
- Lubrication fittings on undercarriage
- Control handle (25.0" overall width)
- U.L. Classification E
- On-board software
  - program, test and diagnose
  - NO handset required
  - password protected
- 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
- 12 months / unlimited hour manufacturer's warranty
- 36 months / 6,000 hour powertrain warranty
- Lifetime main frame warranty

### OPTIONAL EQUIPMENT

- UL Classification Type EE
- Battery rollers
- RF terminal power supply – 24 volt
- Audible alarm – self adjusting back up alarm
- Visible alarm – pole mounted amber strobe
- Stability casters
  - heavy duty
  - sealed wheel
- Fork lengths
  - 36" 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 – short wheelbase extended tip (C80Z<sup>HD</sup> only)
- Drive tire
  - Soft polyurethane – 80 durometer, 12" x 4.5"
  - Red polyurethane – 85 durometer, 12" x 4.5"
  - Vulkollan polyurethane – 90 durometer, 12" x 4.5"
- Load wheels
  - Single and dual
  - 2 bearing and 4 bearing
  - Standard bearing and sealed
- Load backrest
  - 60" high extension
  - 72" high extension
- Premium backrest
  - 3" thick backpad with auxiliary controls and integral armrest
- Application / Environmental Construction
  - 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

**BRIGGS**<sup>®</sup>  
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