



State of West Virginia
 Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER
AGR1223

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF:
FRANK WHITTAKER 304-558-2316

*308134424 01 304-776-6900

M H EQUIPMENT CO
 126 LAKEVIEW DR

CHARLESTON WV 25313

VENDOR

DEPARTMENT OF AGRICULTURE

FOOD DISTRIBUTION PROGRAM
 1 CEDAR LAKES DRIVE
 RIPLEY, WV
 25271 304-558-2221

SHIP TO

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
03/07/2012			RIPLEY WV	PPD

BID OPENING DATE: 04/05/2012 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	EA		560-75	\$30,921.19	\$30,921.19
<p>NARROW AISLE REACH TRUCK</p> <p>THE WEST VIRGINIA PURCHASING DIVISION, FOR THE AGENCY, THE WEST VIRGINIA DEPARTMENT OF AGRICULTURE, IS SOLICITING BIDS FOR A NARROW AISLE REACH TRUCK PER THE ATTACHED SPECIFICATIONS.</p> <p>ALL TECHNICAL QUESTIONS MUST BE SUBMITTED IN WRITING TO FRANK WHITTAKER IN THE WV PURCHASING DIVISION VIA EMAIL AT FRANK.M.WHITTAKER@WV.GOV OR VIA FAX AT 304-558-4115. DEADLINE FOR ALL TECHNICAL QUESTIONS IS 03/21/2012 AT 4:00 PM. ALL TECHNICAL QUESTIONS WILL BE ADDRESSED BY ADDENDUM AFTER THE DEADLINE.</p> <p>BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THE STATE MAY DEEM THE CONTRACT NULL AND VOID, AND TERMINATE SUCH CONTRACT WITHOUT FURTHER ORDER.</p> <p style="text-align: center;">NOTICE</p> <p>A SIGNED BID MUST BE SUBMITTED TO:</p> <p style="text-align: center;">DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION BUILDING 15 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305-0130</p>						



SEE REVERSE SIDE FOR TERMS AND CONDITIONS			
SIGNATURE	TELEPHONE	DATE	
	304-776-6900	4-3-12	
TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE	
SALES			

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'



State of West Virginia
 Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER
AGR1223

PAGE
2

ADDRESS CORRESPONDENCE TO ATTENTION OF:
FRANK WHITTAKER 304-558-2316

*308134424 01 304-776-6900

M H EQUIPMENT CO
 126 LAKEVIEW DR

CHARLESTON WV 25313

VENDOR

SHIP TO

DEPARTMENT OF AGRICULTURE

FOOD DISTRIBUTION PROGRAM
 1 CEDAR LAKES DRIVE
 RIPLEY, WV
 25271

304-558-2221

DATE PRINTED 03/07/2012	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
----------------------------	---------------	----------	--------	---------------

BID OPENING DATE: 04/05/2012 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:</p> <p>SEALED BID</p> <p>BUYER: 44</p> <p>RFQ. NO.: AGR1223</p> <p>BID OPENING DATE: 04/05/2012</p> <p>BID OPENING TIME: 1:30 PM</p> <p>PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID:</p> <p style="text-align: center;">----- 304-776-6966 -----</p> <p>CONTACT PERSON (PLEASE PRINT CLEARLY):</p> <p style="text-align: center;">----- TONY JONES -----</p> <p>***** THIS IS THE END OF RFQ AGR1223 ***** TOTAL: \$ 30921.19</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS			
SIGNATURE	TELEPHONE	DATE	
TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE	

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

24 VOLT NARROW-AISLE REACH TRUCK

GENERAL REQUIRMENTS AND/OR EQUAL;

Electric power steering
Drive Wheels – 12.0"x5.5" Red Poly Grooved or Equal
Load Wheels – 5.0"x3.9" Poly Articulating Tandem or Equal
Overhead Guard
36" To 48" High Load Backrest Extension
Electronic Horn
Key Switch
Static Discharge Strap
Multi-Mode Hour Meter
Sealed Battery Rollers
Battery Discharge Indicator with Lift Interrupt
Operator's Display with Alpha Numeric Messaging
Emergency Power Quick Disconnect
Programmable Traction Speeds and Acceleration
Control Handle with Simultaneous Hydraulic Functions
Integral Side shifter
Motion Alarm
Amber Strobe Light LED
Mast Mounted Headlights
Operator's Compartment Will Be Designed To Allow For Side stance Operation or Equal
Freezer Pack
Fork Laser System
Battery- Model 12-E140-19 Load Hog, 1260 Amp Hr or Equal
Charger- Model EH3-12-1200Y Three Phase, 480 Volt or Equal

Bld must include delivery within ninety days to;
Food Distribution Program Warehouse
4496 Cedar Lakes Road
Ripley, WV 25271

COST SHEET

EQUIPMENT MAKE	MODEL	COST
HYSTER	N402R	\$ 30,921.19
Equipment must be delivered within ninety days of bid being awarded		

ALL BIDS MUST INCLUDE ALL FEES FOR DELIVERY TO:

West Virginia Department of Agriculture
Food Distribution Program
4496 Cedar Lakes Drive
Ripley, WV 25271

State of West Virginia

VENDOR PREFERENCE CERTIFICATE

Certification and application* is hereby made for Preference in accordance with West Virginia Code, §5A-3-37. (Does not apply to construction contracts). West Virginia Code, §5A-3-37, provides an opportunity for qualifying vendors to request (at the time of bid) preference for their residency status. Such preference is an evaluation method only and will be applied only to the cost bid in accordance with the West Virginia Code. This certificate for application is to be used to request such preference. The Purchasing Division will make the determination of the Resident Vendor Preference, if applicable.

- 1. Application is made for 2.5% resident vendor preference for the reason checked: Bidder is an individual resident vendor and has resided continuously in West Virginia for four (4) years immediately preceding the date of this certification; or, Bidder is a partnership, association or corporation resident vendor and has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or 80% of the ownership interest of Bidder is held by another individual, partnership, association or corporation resident vendor who has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or, Bidder is a nonresident vendor which has an affiliate or subsidiary which employs a minimum of one hundred state residents and which has maintained its headquarters or principal place of business within West Virginia continuously for the four (4) years immediately preceding the date of this certification; or,

- 2. Application is made for 2.5% resident vendor preference for the reason checked: Bidder is a resident vendor who certifies that, during the life of the contract, on average at least 75% of the employees working on the project being bid are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,

- 3. Application is made for 2.5% resident vendor preference for the reason checked: Bidder is a nonresident vendor employing a minimum of one hundred state residents or is a nonresident vendor with an affiliate or subsidiary which maintains its headquarters or principal place of business within West Virginia employing a minimum of one hundred state residents who certifies that, during the life of the contract, on average at least 75% of the employees or Bidder's affiliate's or subsidiary's employees are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,

- 4. Application is made for 5% resident vendor preference for the reason checked: Bidder meets either the requirement of both subdivisions (1) and (2) or subdivision (1) and (3) as stated above; or,

- 5. Application is made for 3.5% resident vendor preference who is a veteran for the reason checked: Bidder is an individual resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard and has resided in West Virginia continuously for the four years immediately preceding the date on which the bid is submitted; or,

- 6. Application is made for 3.5% resident vendor preference who is a veteran for the reason checked: Bidder is a resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard, if, for purposes of producing or distributing the commodities or completing the project which is the subject of the vendor's bid and continuously over the entire term of the project, on average at least seventy-five percent of the vendor's employees are residents of West Virginia who have resided in the state continuously for the two immediately preceding years.

Bidder understands if the Secretary of Revenue determines that a Bidder receiving preference has failed to continue to meet the requirements for such preference, the Secretary may order the Director of Purchasing to: (a) reject the bid; or (b) assess a penalty against such Bidder in an amount not to exceed 5% of the bid amount and that such penalty will be paid to the contracting agency or deducted from any unpaid balance on the contract or purchase order.

By submission of this certificate, Bidder agrees to disclose any reasonably requested information to the Purchasing Division and authorizes the Department of Revenue to disclose to the Director of Purchasing appropriate information verifying that Bidder has paid the required business taxes, provided that such information does not contain the amounts of taxes paid nor any other information deemed by the Tax Commissioner to be confidential.

Under penalty of law for false swearing (West Virginia Code, §61-5-3), Bidder hereby certifies that this certificate is true and accurate in all respects; and that if a contract is issued to Bidder and if anything contained within this certificate changes during the term of the contract, Bidder will notify the Purchasing Division in writing immediately.

Bidder: _____ Signed: _____

Date: _____ Title: _____

*Check any combination of preference consideration(s) indicated above, which you are entitled to receive.

RFQ No. AGR1223

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

West Virginia Code §5A-3-10a states: No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owed is an amount greater than one thousand dollars in the aggregate.

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities. "Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceeds five percent of the total contract amount.

EXCEPTION: The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

Under penalty of law for false swearing (*West Virginia Code §61-5-3*), it is hereby certified that the vendor affirms and acknowledges the information in this affidavit and is in compliance with the requirements as stated.

WITNESS THE FOLLOWING SIGNATURE

Vendor's Name: MA EQUIPMENT

Authorized Signature: [Signature] Date: 4-4-12

State of WV

County of Kanawha, to-wit:

Taken, subscribed, and sworn to before me this 4 day of April, 2012.

My Commission expires 1-22, 2012.

AFFIX SEAL HERE

NOTARY PUBLIC [Signature]





State of West Virginia
 Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER
AGR1223

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF:
FRANK WHITTAKER 304-558-2316

VENDOR

*308134424 01 304-776-6900
 M H EQUIPMENT CO
 126 LAKEVIEW DR
 CHARLESTON WV 25313

SHIP TO

DEPARTMENT OF AGRICULTURE
 FOOD DISTRIBUTION PROGRAM
 1 CEDAR LAKES DRIVE
 RIPLEY, WV
 25271 304-558-2221

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
03/21/2012			RIPLEY, WV	
BID OPENING DATE: 04/05/2012		BID OPENING TIME 01:30PM		

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
***** ADDNDUM NO. 1 *****						
THIS ADDENDUM IS ISSUED TO PROVIDE THE ATTACHED TECHNICAL QUESTIONS AND ANSWERS.						
***** END ADDENDUM NO. 1 *****						
0001	1	EA		560-75	\$30,921.19	\$30,921.19
				NARROW AISLE REACH TRUCK		
***** THIS IS THE END OF RFQ AGR1223 ***** TOTAL:						\$30,921.19

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
	304-776-6900	4-3-12
TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE
SALES		

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

QUESTIONS & ANSWERS FOR AGR 1223

1. Question: Mast specifications

Answer: Triplex Mast no taller than 8.5 feet in the lowered position, must be able to reach no less than 227 inches high, single reach 24", 4000# capacity

2. Question: Fork specification

Answer: 1-1/2" x4" x42" Hook Type – Standard Taper

3. Question: Width or height limitations

Answer: 101" Tall, 55" Wide this unit will be used inside a racking system these are maximum dimensions

4. Question: Does this unit run in a cold storage unit, and if so what is temperature and run time

Answer: This unit will be used in a freezer at -10 degrees, eight hours a day



April 4, 2012

WV dept. Of Agriculture
RFQ# AGR1223

Due to a slight variance in specs, we have quoted 2 units.

The unit that closely matches specifications is the Hyster N40ZRS. The only variance concerns the Freezer Package, our unit only allows for operation to 0 degrees, not the specified -10 degrees.

Hyster N40ZRS.....	\$23,892.19
Battery.....	\$4,484.00
Charger.....	\$2,545.00
Total.....	\$30,921.19

To meet this specification we have also provided a quote on a Hyster N40ZR. This is a 36V unit that can operate at -40 degrees.

Hyster N40ZR.....	\$26,926.19
Battery.....	\$4,448.00
Charger.....	\$2,366.00
Total.....	\$33,740.19

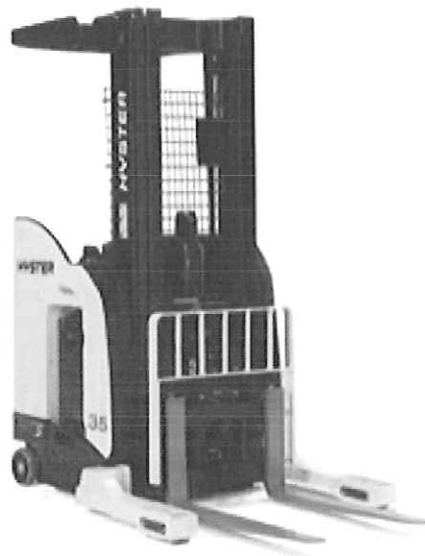
MH Equipment is a privately held, strong dealership with 550 associates, 275 technicians and 22 locations covering territories in 9 states (Illinois, Indiana, Missouri, Iowa, Kentucky, Ohio, Pennsylvania, Missouri, and West Virginia. We have large inventories of new and used lift trucks and associated equipment, repair parts and service, and 2,000 rental lift trucks ready to meet your needs. Specifically, we have 5 technicians in the Huntington/Ironton area to respond to your service needs.

Please feel free to call me with any questions.

Tony Jones
Material Handling Specialist
304-741-3576



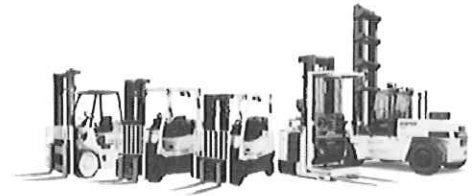
SALES • SERVICE • PARTS • RENTAL • FLEET • TRAINING



Model: N40ZRS

Proposal To:

Mr. Frank Whittaker



106 Circle Freeway Drive • Cincinnati, OH 45246 • 513-681-2200 • www.mhequipment.com

Investment Proposal

On behalf of MH Equipment Company (MH), thank you for the opportunity to provide the following proposal for equipment to address your material handling requirements. We look forward to reviewing specific product features and benefits as they relate to your application, as well as discussing the overall value in productivity and service that we can bring to you as your material handling partners.

Customer:

Dept. of Agriculture Food Dist.
1 Cedar Lakes Dr.
Ripley, WV -25271

SHIP TO:

Dept. of Agriculture Food
Dist.
1 Cedar Lakes Dr.
Ripley, WV -25271

Quote To:

Mr. Frank Whittaker
Quote No: 75-27438775
Series: A265
Model: N40ZRS
Quantity: 1
Date: 04 Apr 2012
Expires: 22 Apr 2012



Highlights

Hyster N40ZRS 4000 Pound Capacity Narrow Aisle Lift Truck. Standard Features: AC Traction, Hydraulic and Steering Motors, Fully Integrated Canbus Controls, Operator Forward Stance, Low Step Height, Transistor Controller with Regenerative Braking, Fully Proportional Lift / Lower Control, Programmable Traction Speeds and Acceleration, Electric Power Steering, Automatic Field Control and Auto Deceleration, Rubber Drive Tire 12" X 5.5", Polyurethane Load Wheels-High Load Compound, Dual Articulating Polyurethane Caster Wheels, Emergency Power Disconnect, Battery Discharge Indicator with Lift Interrupt, Key Start, 36" High Load Backrest, Sealed Battery Rollers, Tilting Carriage (3 Degrees Forward, 4 Degrees Back), Padded Operator Compartment, Rear Post Operator Protection, Operator's Overhead Guard, Low Profile Anti-Fatigue Floormat, Operator's Display with Alpha Numeric Messaging, Multi-Mode Hour Meter, Control Handle with Simultaneous Hydraulic Functions, Electronic Horn, Static Discharge Strap, Operator's Manual, UL Classification E.

MAST: 101"/227"/62" (2565/5766MM) 3 Stage Full Free Lift (FFL)

CARRIAGE: Single Reach Assembly with Integral Sideshifter 24" Extend with 33.5" Wide Class II Hook Type Carriage

LOAD BACKREST EXTENSION: 36" High for 33.5" Wide Carriage

FORKS: 42" Long Class II Hook Type (1.8" x 3.9") Standard Taper 1067mm Long, (45mm x 100mm)

Highlights

BATTERY COMPARTMENT: 14.5" Medium (39.0" x 14.5" x 31.5") Battery Weight Range: 1,600 - 2,100 lbs.

BATTERY SPACER GROUP: "X" Dimension 38.0" to 38.8" Battery

BASEARM STYLE: Blunt Toe Cap

BASEARM OPEN END CLEARANCE: 34" OEC

DRIVE TIRE: 12" X 5.5" Rubber

LOAD WHEELS: 5" X 3.9" Articulating Tandem High Load Compound with Sealed Bearings

OPERATOR CONTROLS: Sidestance

OPERATOR CONTROLS: Right to Left Handle Control. Side Stance Multi-Function Control Handle Orientation.

WHEEL BOX TYPE: Weld-On Box - Use with 5" X 3.9" Load Wheels

STEERING CONTROL OPTION: Automotive Steer Orientation

MONITORING SYSTEM: Standard Display Includes Performance Mode Select, Two Line LCD Text and Fault Code Readout.

VOLTAGE: 24 Volt - Includes AMP 350 Red Battery Connector, Cable Position "B" - 16" Lead Length

UL APPROVAL: Type "E" Construction with UL Label.

APPLICATION / ENVIRONMENTAL CONSTRUCTION: Cooler / Freezer. Operating Temperature Range: 0 F to +120 F

LIGHTS: Dual Headlights 12 Volt - Mast Mounted.

VISIBLE ALARM: Amber LED Strobe - Forward and Reverse Operation

AUDIBLE ALARM: Motion Alarm - Self Adjusting, Forward and Reverse Activated 82-102dB(A)

LANGUAGE: English Operator Manual Required for units shipped to US destinations.

The Laser Line sending unit will be mounted on the carriage and project a horizontal line at the fork tips at the pallet entry level. Note: Laser Line sending unit will be removed from the truck and packaged separately for shipping. The dealer will be required to reinstall this item during the normal truck installation. ** The Laser turns on when the outboard cylinders engage. ** This cannot be combined with travel speed cutout when the forks are extended. **

Investment Proposal Price Information		
	<u>Price Each</u>	<u>Extended</u>
Total Selling Price	\$23,892.19	\$23,892.19
Terms: Net on Invoice/Lease - Order Subject to Credit Approval F.O.B.: Freight included in sale price. Battery and Charger listed below in options.		

Warranty
 WARRANTY: 12 Months/2000 Hours Manufacturer's Full Truck Warranty 24 Months/4,000 Hours Manufacturer's Powertrain Warranty and 5 Year/10000 Hours Frame Warranty


OPTIONS AVAILABLE			
Initial to Add		START: KEYLESS START	1 74.70
Initial to Add		MONITORING SYSTEM: PREMIUM DISPLAY	1 240.70
Initial to Add		CONTROLS: SIDESTANCE W/COMFORT PACKAGE	1 307.10
Initial to Add		FORK ACCESS: FORK HEIGHT DISPLAY	1 423.30
Initial to Add		MAST LIFT LIMIT W/PUSH BUTTON OVERRIDE	1 439.90
Initial to Add		LIGHTS: OPERATOR DESKTOP LIGHT	1 207.50
Initial to Add		LIGHTS: REAR WORK LIGHT 12 VOLT	1 190.90
Initial to Add		ACCESS: OPERATOR OVERHEAD FAN	1 199.20
Initial to Add		ACCESS: LOAD WEIGHT INDICATOR	1 240.70
Initial to Add		ACCESS: 12 VOLT DC OUTPUT	1 199.20
Initial to Add		ACCESS: IMPACT SENSOR	1 448.20
Initial to Add		SECOND REAR POST ON OPERATOR SIDE	1 439.90
Initial to Add		OPERATOR SHIELD: LEXAN SHIELD	1 332.00
Initial to Add		OPERATOR COMPARTMENT REAR DOOR	1 1,352.90
Initial to Add		WIRE MESH MOUNTED ON TOP OHG	1 365.20
Initial to Add		PARTS MANUAL - CD	1 105.00
Initial to Add		Loadhog 12-140-17 Battery	1 4,484.00
Initial to Add		Enforcer Eh3-12 Charger	1 2,545.00

Pricing in this proposal does not include Sales Tax and, as applicable, Sales Tax will be calculated and added in accordance with State Law. Tax exempt transactions require the appropriate Tax Exempt certificate to be on file with MH Equipment. Acceptable methods of payment are check or wire transfer.

Thank you again for the opportunity to address your material handling requirements. We are committed to delivering a comprehensive, competitive material handling solution for your operation's needs, and will work diligently with you to address your costs through increased productivity and maximized efficiencies. Please advise how we can be of further assistance.

Proposal By : Tony Jones

Accepted By : Frank Whittaker

Account Manager  Date 4-3-12 Customer Representative _____ Date _____



SALES • SERVICE • PARTS • RENTAL • FLEET • TRAINING



Model: N40ZR

Proposal To:

Mr. Frank Whittaker



106 Circle Freeway Drive • Cincinnati, OH 45246 • 513-681-2200 • www.mhequipment.com

Investment Proposal

On behalf of MH Equipment Company (MH), thank you for the opportunity to provide the following proposal for equipment to address your material handling requirements. We look forward to reviewing specific product features and benefits as they relate to your application, as well as discussing the overall value in productivity and service that we can bring to you as your material handling partners.

Customer:

Dept. of Agriculture Food Dist.
1 Cedar Lakes Dr.
Ripley, WV -25271

SHIP TO:

Dept. of Agriculture Food
Dist.
1 Cedar Lakes Dr.
Ripley, WV -25271

Quote To:

Mr. Frank Whittaker
Quote No: 75-27438075
Series: D470
Model: N40ZR
Quantity: 1
Date: 04 Apr 2012
Expires: 22 Apr 2012



Highlights

Hyster N40ZR 4000 Pound Capacity Narrow Aisle Lift Truck. Standard Features Include: AC Traction, Hydraulic and Steering Motors, Fully Integrated Canbus Controls, Operator Forward Stance, Low Step Height, Transistor Controller with Regenerative Braking, Fully Proportional Lift / Lower Control, Powered Lowering (when forks are loaded), Regenerative Lowering (When forks are loaded), Programmable Traction Speeds and Acceleration, Electric Power Steering, Polyurethane Drive Tire-12" x 5.5", Poly Load Wheels-High Load Compound, Dual Articulating Polyurethane Caster Wheels, Emergency Power Disconnect, Battery Discharge Indicator with Lift Interrupt, Key Start, 36" High LBR, Sealed Battery Rollers, Tilting Carriage (3 Degrees Forward, 4 Degrees Back), Padded Operator Compartment, Rear Post Operator Protection, Operator's Overhead Guard, Low Profile Anti-Fatigue Floor Mat, Operator's Display with Alpha Numeric Messaging, Multi-Mode Hour Meter, Control Handle with Simultaneous Hydraulic Functions, Electronic Horn, Static Discharge Strap, Operator's Manual, UL Classification E.

MAST: 101"/227"/62" (2565/5766MM) 3 Stage Full Free Lift (FFL)

CARRIAGE: Single Reach Assembly with Integral Sideshifter 24" Extend with 33.5" Wide Class II Hook Type Carriage

LOAD BACKREST EXTENSION: 36" High for 33.5" Wide Carriage

FORKS: 42" Long Class II Hook Type (1.8" x 3.9") Standard Taper 1067mm Long, (45mm x 100mm)

Highlights

BATTERY COMPARTMENT: 14.5" Small (39.0" x 14.5" x 31.5") Battery Weight Range:1,600 - 2,100 lbs.

BATTERY SPACER GROUP: "X" Dimension 38.0" to 38.8" Battery Spacer parts will not be installed at the factory, instead they will be boxed and shipped with the truck.

BASEARM STYLE: Blunt Toe Cap

BASEARM OPEN END CLEARANCE: 34" OEC

DRIVE TIRE: 12" X 5.5" Red Polyurethane Grooved

LOAD WHEELS: 5" X 3.9" Articulating Tandem High Load Compound with Sealed Bearings

OPERATOR CONTROLS: Sidestance

OPERATOR CONTROLS: Right to Left Handle Control. Side Stance Multi-Function Control Handle Orientation.

WHEEL BOX TYPE: Weld-On Box - Use with 5" X 3.9" Load Wheels

STEERING CONTROL OPTION: Automotive Steer Orientation

MONITORING SYSTEM: Premium Display Includes Performance Mode Select, Operator's Checklist Maintenance Reminders, Clock, and Operator Password.

VOLTAGE: 36 Volt - Includes AMP 350 Gray Battery Connector, Cable Positon "B" - 16" Lead Length

UL APPROVAL: Type "E" Construction with UL Label.

APPLICATION / ENVIRONMENTAL CONSTRUCTION: SUBZERO Freezer. Operating Temperatures -40 F to 120 F.

LIGHTS: Dual Headlights 12 Volt - Mast Mounted.

VISIBLE ALARM: Amber LED Strobe-Continuous Operation with Key-On

AUDIBLE ALARM: Motion Alarm - Self - Adjusting Forward and Reverse Activated 82-102dB(A)

LANGUAGE: English Operator Manual Required for units shipped to US destinations.

Laser Line sending unit

Investment Proposal Price Information

	<u>Price Each</u>	<u>Extended</u>
Total Selling Price	\$26,926.19	\$26,926.19

Terms: Net on Invoice/Lease - Order
Subject to Credit Approval
F.O.B.: Freight included in sale price.
Battery and Charger priced below in options.

Warranty
WARRANTY:12 Months/2000 Hours Manufacturer's Full Truck Warranty 24 Months/4,000 Hours Manufacturer's Powertrain Warranty and 5 Year/10000 Hours Frame Warranty


OPTIONS AVAILABLE			
Initial to Add	<input type="checkbox"/>	Loadhog 18-E140-11 Battery	1 4,448.00
Initial to Add	<input type="checkbox"/>	Enforcer HF3 EH3-18 Charger	1 2,366.00

Pricing in this proposal does not include Sales Tax and, as applicable, Sales Tax will be calculated and added in accordance with State Law. Tax exempt transactions require the appropriate Tax Exempt certificate to be on file with MH Equipment. Acceptable methods of payment are check or wire transfer.

Thank you again for the opportunity to address your material handling requirements. We are committed to delivering a comprehensive, competitive material handling solution for your operation's needs, and will work diligently with you to address your costs through increased productivity and maximized efficiencies. Please advise how we can be of further assistance.

Proposal By : Tony Jones

Accepted By : Frank Whittaker

Account Manager  Date 4-3-12 Customer Representative _____ Date _____



Narrow-Aisle, Single & Double Reach, AC Powered Lift Trucks

N35-40ZRS/ N30ZDRS



STRONG PARTNERS. TOUGH TRUCKS.™

PRODUCTIVITY:

- AC hoist system maximizes lift at lower speeds
- AC traction system maximizes performance and provides seamless direction transitions
- Electric power steering, standard on all models, offers on-demand steering for maximum efficiency and minimal battery drain
- Automatic drive tire centering at start-up saves time for the operator
- Automatic brake operation applies the brake when the truck is stationary, eliminating the need for the operator to lift a leg to apply the brake
- Optional electrically steered caster

COST OF OPERATION:

- AC traction and hoist motors help reduce maintenance through a simpler design and the elimination of brush replacement
- Sealed load wheels bearings reduce greasing requirements
- Brushless steering and auxiliary motors reduce maintenance time and cost
- Electric brake provides parking and emergency braking capability with no need to service
- Dual articulating caster wheels promote even tire wear and minimize tire scrub

DEPENDABILITY:

- CANbus communication system reduces wiring and electrical connections and provides real time diagnostics
- Sealed electrical connectors keep out debris and help reduce the possibility of loose connections
- O-ring face seal fittings help maximize uptime and reduce leaks
- Completely brushless AC traction and hoist motors improve reliability
- Thermal management system for all motors and controllers add protection from overheating
- Dedicated auxiliary pump and motor helps reduce demand on main hydraulic motor

SERVICEABILITY:

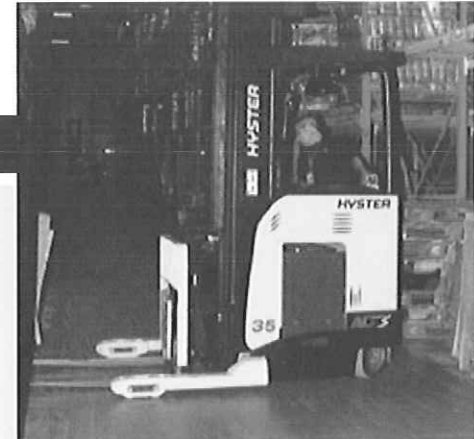
- Daily operator checks can be performed without removing covers
- Full diagnostics are standard, easing serviceability, helping reduce troubleshooting time and vehicle downtime
- Easy access to all components for regular maintenance and repair
- Completely brushless traction, hoist and auxiliary function motors help reduce service time
- Regenerative braking helps reduce brake wear
- No need to remove the mast for adjustments

ERGONOMICS:

- *Drive-Rite Design Intent*
- Configuration flexibility with fore/aft and side stances available
- Large operator compartment and optimal operator position allow easy entry and exit without awkward twisting
- Low 9.6" step height helps reduce operator fatigue
- Brake pedal location and design is optimized for operator comfort
- Optional suspended floorplate cushions the operator and helps reduce stress on the operator's legs
- Adjustable steer tiller position
- Adjustable back with armrest
- On-demand electric power steering helps reduce operator effort

VERSATILITY:

- Multiple battery compartments are available:
 - 12.5", 14.5" and 16.5" for 3,500 and 4,000 lb. models
 - 14.5" and 16.5" for 3,000 lb. models
- Four programmable vehicle modes are available for maximum speed, acceleration, deceleration and hydraulic ramping
- Multi-function control handle integrated in armrest (side stance)



RAISING THE STANDARD FOR LIFT TRUCKS

3

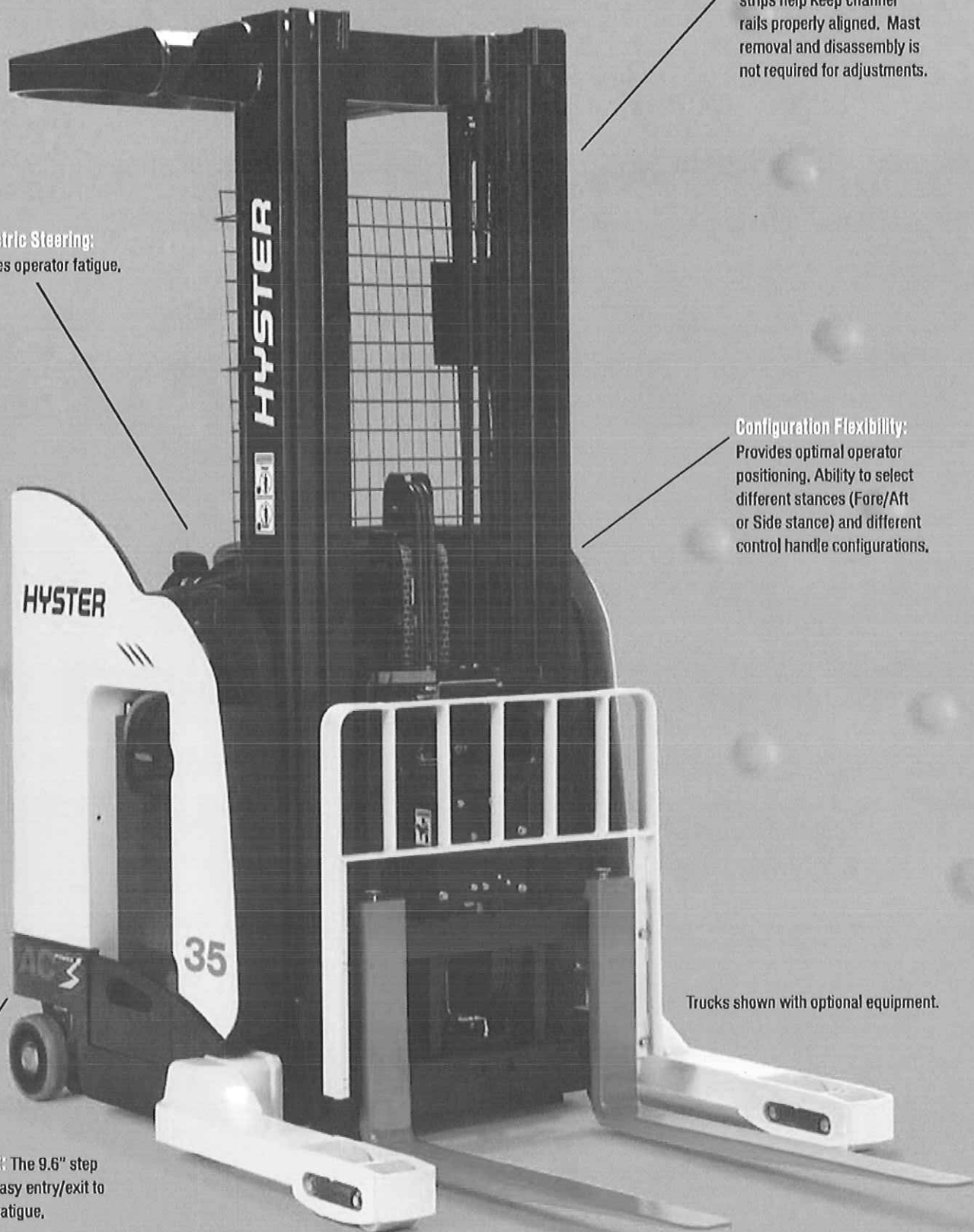
Mast: Adjustable wear strips help keep channel rails properly aligned. Mast removal and disassembly is not required for adjustments.

On-Demand Electric Steering:
Low effort reduces operator fatigue.

Configuration Flexibility:
Provides optimal operator positioning. Ability to select different stances (Fore/Aft or Side stance) and different control handle configurations.

Trucks shown with optional equipment.

Low Step Height: The 9.6" step height provides easy entry/exit to reduce operator fatigue.



N35-40ZRS SPECIFICATIONS

5

GENERAL	WT.	DIMENSIONS	PERFORMANCE	WHEELS & TIRES	ELECTRIC	Hyster Company			
						N35ZRS	N35ZRS	N40ZRS	N40ZRS
1	Manufacturer Name					Hyster Company	Hyster Company	Hyster Company	Hyster Company
2	Model					N35ZRS	N35ZRS	N40ZRS	N40ZRS
3	Wheel Base Designation					SWB	SWB	SWB	SWB
4	Rated Capacity	lb. (kg)				3500 (1588)	3500 (1588)	4000 (1814)	4000 (1814)
5	Load Center, Distance	in. (mm)				24 (610)	24 (610)	24 (610)	24 (610)
6	Power Type - Electric, Diesel, LPG					Electric - 24 volt	Electric - 24 volt	Electric - 24 volt	Electric - 36 volt
7	Operator Type					Stand	Stand	Stand	Stand
8	Tire Type - Load/Caster/Drive					Poly / Poly / Rubber	Poly / Poly / Rubber	Poly / Poly / Rubber	Poly / Poly / Rubber
9	Wheels, Number Load/Drive (x=driven)					4 / 2 (1x)	4 / 2 (1x)	4 / 2 (1x)	4 / 2 (1x)
10	Truck Weight, without Battery (approximate)	lb.				4950	4950	5000	5000
11						Front Rear	Front Rear	Front Rear	Front Rear
12	Axle Loading - Front/Rear with Carriage Extended **	lb.				6750 3800	6750 3800	7400 3700	7400 3700
13	Height, Standard Lift (TOF)	in. (mm)							
14	Height, Standard mast Lowered (OALH)	in. (mm)							
15	Height, Freelift (TOF)	in. (mm)				See Mast Table	See Mast Table	See Mast Table	See Mast Table
16	Height, Standard Mast Extended w/LBR	in. (mm)							
17	Height, Top of OHG	in. (mm)							
18	Height, Operator Clearance	in. (mm)							
19	Mast Tilt Angle, Forward/Back	degrees°				3 / 4	3 / 4	3 / 4	3 / 4
20	Forks, Standard (Length x Width x Thickness)	in.				1.6 x 3.9 x 42	1.6 x 3.9 x 42	1.8 x 3.9 x 42	1.8 x 3.9 x 42
21	Headlength to Face of Forks - All Battery Compartments ***	in. (mm)				See Mast Table	See Mast Table	See Mast Table	See Mast Table
22	Basearm OEC	in.				34"- 49" (1" increments)	34"- 49" (1" increments)	34"- 49" (1" increments)	34"- 49" (1" increments)
23	Battery Compartment Size, 12.5" Battery Compartment - (LxWxH)	in.				39.0 x 12.5 x 31.5	39.0 x 12.5 x 31.5	39.0 x 12.5 x 31.5	39.0 x 12.5 x 31.5
	Battery Compartment Size, 14.5" Battery Compartment - (LxWxH)	in.				39.0 x 14.5 x 31.5	39.0 x 14.5 x 31.5	39.0 x 14.5 x 31.5	39.0 x 14.5 x 31.5
	Battery Compartment Size, 16.5" Battery Compartment - (LxWxH)	in.				39.0 x 16.5 x 31.5	39.0 x 16.5 x 31.5	39.0 x 16.5 x 31.5	39.0 x 16.5 x 31.5
24	Turning Radius - minimum outside, 12.5" Battery Compartment	in.				65.74	65.74	65.74	65.74
	Turning Radius - minimum outside, 14.5" Battery Compartment	in.				65.74	65.74	65.74	65.74
	Turning Radius - minimum outside, 16.5" Battery Compartment	in.				67.74	67.74	67.74	67.74
25	Aisle Width - Zero Clearance - Right Angle Stack	see chart				See "RAS" Table	See "RAS" Table	See "RAS" Table	See "RAS" Table
26	Stability - Comply with ANSI					Yes	Yes	Yes	Yes
28	Travel Speed, Rearward (chassis first) - Empty/RL	mph				6.5/6.5	6.7/6.5	6.5/6.5	6.7/6.5
29	Travel Speed, Forward (forks first) - Empty/RL	mph				6.5/6.5	6.7/6.5	6.5/6.0	6.7/6.0
31	Lift Speeds, Empty	ft/min				60	75	60	75
32	Lift Speeds, 2,000 lb.	ft/min				46	54	46	54
33	Lift Speeds, 3,000 lb.	ft/min				43	50	43	50
34	Lift Speeds, 3,500 lb.	ft/min				40	47	40	47
35	Lift Speeds, 4,000 lb.	ft/min				N/A	N/A	38	45
36	Lift Speeds, 4,500 lb.	ft/min				N/A	N/A	N/A	N/A
37	Lowering Speeds, Empty	ft/min				85	85	85	85
38	Lowering Speeds, RL	ft/min				85	85	85	85
39	Size - Front Load Wheels, Standard					5 x 3.9	5 x 3.9	5 x 3.9	5 x 3.9
40						Drive Caster	Drive Caster	Drive Caster	Drive Caster
41	Size, Standard - Drive Tire/Dual Casters					12.0 x 5.5 7.9 x 2.2	12.0 x 5.5 7.9 x 2.2	12.0 x 5.5 7.9 x 2.2	12.0 x 5.5 7.9 x 2.2
42	Wheelbase - 12.5" Battery Compartment	in.				55.35	55.35	55.35	55.35
	Wheelbase - 14.5" Battery Compartment	in.				55.35	55.35	55.35	55.35
	Wheelbase - 16.5" Battery Compartment	in.				57.36	57.36	57.36	57.36
43	Brakes, Method of Control - Service/Parking					Foot	Foot	Foot	Foot
44	Brakes, Method of Operation - Service/Parking					Spring Apply / Electric Release	Spring Apply / Electric Release	Spring Apply / Electric Release	Spring Apply / Electric Release
45	Battery Type					Lead Acid	Lead Acid	Lead Acid	Lead Acid
46	Traction Motor Rating (60 minute rating)	hp (kw)				7.5 (5.6)	7.5 (5.6)	7.5 (5.6)	7.5 (5.6)
47	Hoist Motor Rating (5 minute rating)	hp (kw)				14.8 (11.0)	14.8 (11.0)	14.8 (11.0)	14.8 (11.0)
48	Traction Motor Control Method					Transistor	Transistor	Transistor	Transistor
49	Hoist Motor Control Method					Transistor	Transistor	Transistor	Transistor
50	Number of Speeds					Infinitely Variable	Infinitely Variable	Infinitely Variable	Infinitely Variable

SWB = Short Wheel Base

** Static with Rated Load and Max. Wt. Battery

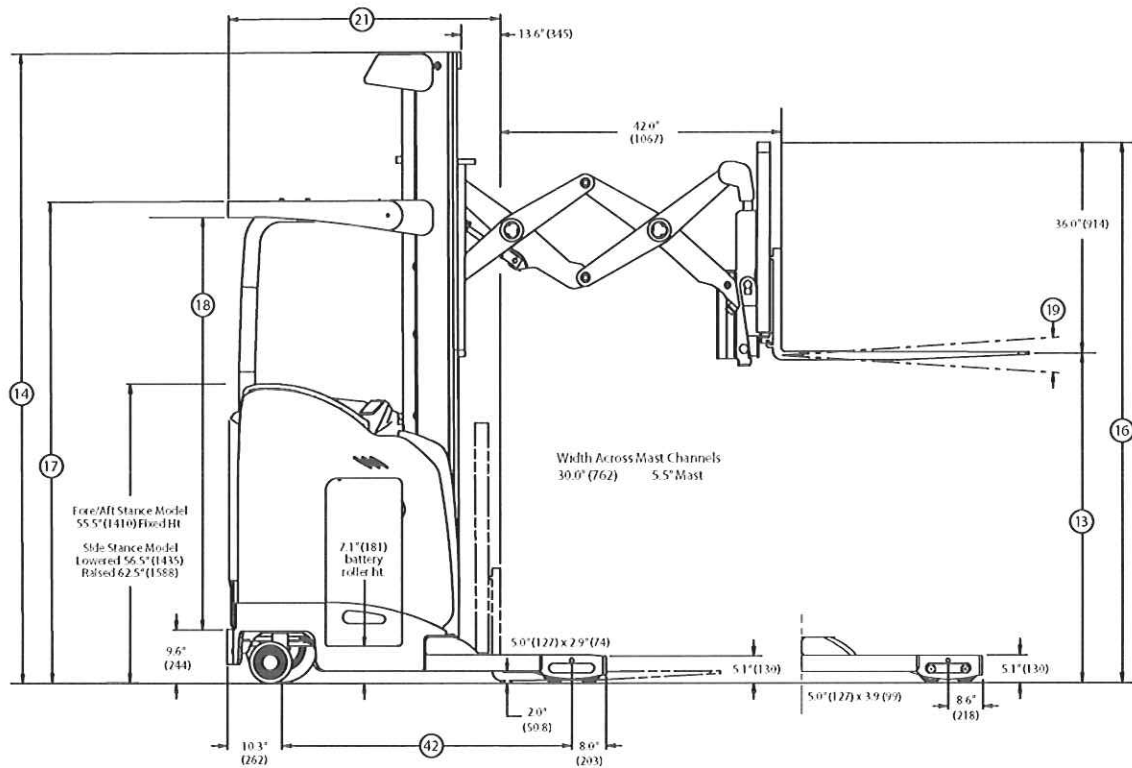
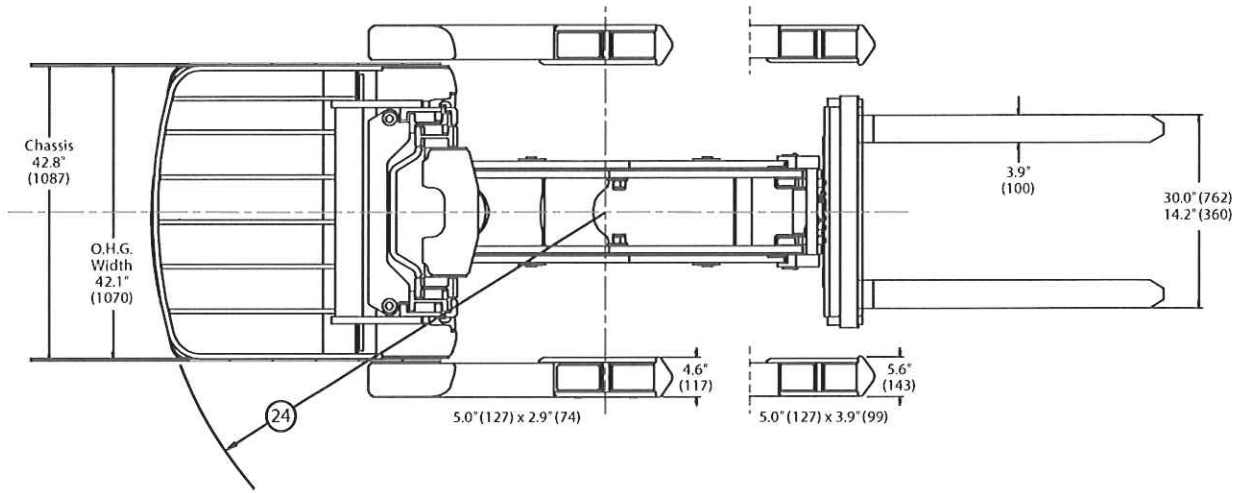
*** Add 1" for Sideshift

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.

NOTE: 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 Dealer.

DIMENSIONS

6



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

N30ZDRS

N30ZDRS SPECIFICATIONS

7

		Hyster Company	Hyster Company
GENERAL	1	Manufacturer Name	
	2	Model	
	3	Wheel Base Designation	
	4	Rated Capacity	3000 (1361)
	5	Load Center, Distance	24 (610)
	6	Power Type - Electric, Diesel, LPG	Electric - 24 volt
	7	Operator Type	Stand
	8	Tire Type - Load/Caster/Drive	Poly / Poly / Rubber
	9	Wheels, Number Load/Drive (x=driven)	4 / 2 (1x)
WT.	10	Truck Weight, without Battery (approximate)	5250
	11		Front Rear
DIMENSIONS	12	Axle Loading - Front/Rear with Carriage Extended **	6300 4050
	13	Height, Standard Lift (TOF)	
	14	Height, Standard mast Lowered (OALH)	
	15	Height, Freelift (TOF)	See Mast Table
	16	Height, Standard Mast Extended w/LBR	See Mast Table
	17	Height, Top of OHG	
	18	Height, Operator Clearance	
	19	Mast Tilt Angle, Forward/Back	3 / 4
	20	Forks, Standard (Length x Width x Thickness)	1.6 x 3.9 x 42
	21	Headlength to Face of Forks - All Battery Compartments ***	See Mast Table
	22	Basearm OEC	34"- 49" (1" increments)
	PERFORMANCE	23	Battery Compartment Size, 12.5" Battery Compartment - (LxWxH)
24		Battery Compartment Size, 14.5" Battery Compartment - (LxWxH)	39.0 x 14.5 x 31.5
25		Battery Compartment Size, 16.5" Battery Compartment - (LxWxH)	39.0 x 16.5 x 31.5
26		Turning Radius - minimum outside, 12.5" Battery Compartment	N/A
27		Turning Radius - minimum outside, 14.5" Battery Compartment	70.74
28		Turning Radius - minimum outside, 16.5" Battery Compartment	72.74
29		Aisle Width - Zero Clearance - Right Angle Stack	See "RAS" Table
30		Stability - Comply with ANSI	Yes
31		Travel Speed, Rearward (chassis first) - Empty/RL	6.5/6.5
32		Travel Speed, Forward (forks first) - Empty/RL	6.5/6.5
33		Lift Speeds, Empty	60
WHEELS & TIRES		34	Lift Speeds, 2,000 lb.
	35	Lift Speeds, 3,000 lb.	40
	36	Lift Speeds, 3,500 lb.	N/A
	37	Lift Speeds, 4,000 lb.	N/A
	38	Lift Speeds, 4,500 lb.	N/A
	39	Lowering Speeds, Empty	85
	40	Lowering Speeds, RL	85
	41	Size - Front Load Wheels, Standard	5 x 2.9
	42	Size, Standard - Drive Tire/Dual Casters	Drive Caster
	43	Wheelbase - 12.5" Battery Compartment	12.0 x 5.5 7.9 x 2.2
	44	Wheelbase - 14.5" Battery Compartment	N/A
	ELECTRIC	45	Wheelbase - 16.5" Battery Compartment
46		Brakes, Method of Control - Service/Parking	62.36
47		Brakes, Method of Operation - Service/Parking	Foot
48		Battery Type	Spring Apply / Electric Release
49		Traction Motor Rating (60 minute rating)	Lead Acid
50		Hoist Motor Rating (5 minute rating)	7.5 (5.6)
	48	Traction Motor Control Method	Transistor
	49	Hoist Motor Control Method	Transistor
	50	Number of Speeds	Infinitely Variable

LWB = Long Wheel Base

** Static with Rated Load and Max. Wt. Battery

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.

NOTE: 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 Dealer.

MAST DIMENSIONS AND BATTERY SPECIFICATIONS

MAST DIMENSIONS (5.5" STANDARD DUTY)									
Maximum Fork Ht. (TOF) In. (mm)	Overall Lowered Height in. (mm)	Overall Height (Mast Extended) Highest Point w/ 36" Load Backrest in. (mm)	Free-Lift (TOF) in. (mm)	Overhead Guard Height to Top in. (mm)	Operator Clearance in. (mm)	Head Length (Length to Face of Forks)			
						12.5", 14.5" B.C.		16.5" B.C.	
						Single Reach	Double Reach	Single Reach	Double Reach
3-STAGE FULL FREE-LIFT (FFL) VISTA® MAST									
191 (4851)	87 (2210)	230 (5842)	48 (1219)	86.5 (2197)	75.3 (1913)	52.12	58.02	54.12	60.02
203 (5156)	91 (2311)	242 (6147)	52 (1321)	90.5 (2299)	79.3 (2014)	52.12	58.02	54.12	60.02
212 (5385)	95 (2413)	251 (6375)	56 (1422)	94.5 (2400)	83.3 (2116)	52.12	58.02	54.12	60.02
227 (5766)	101 (2565)	266 (6756)	62 (1575)	91 (2311)	79.8 (2027)	52.12	58.02	54.12	60.02
242 (6147)	107 (2718)	281 (7137)	68 (1727)	91 (2311)	79.8 (2027)	52.12	58.02	54.12	60.02
251 (6375)	110 (2794)	290 (7366)	71 (1803)	91 (2311)	79.8 (2027)	52.12	58.02	54.12	60.02
272 (6909)	119 (3023)	311 (7899)	80 (2032)	91 (2311)	79.8 (2027)	52.12	58.02	54.12	60.02

Right Angle Aisle Stacking

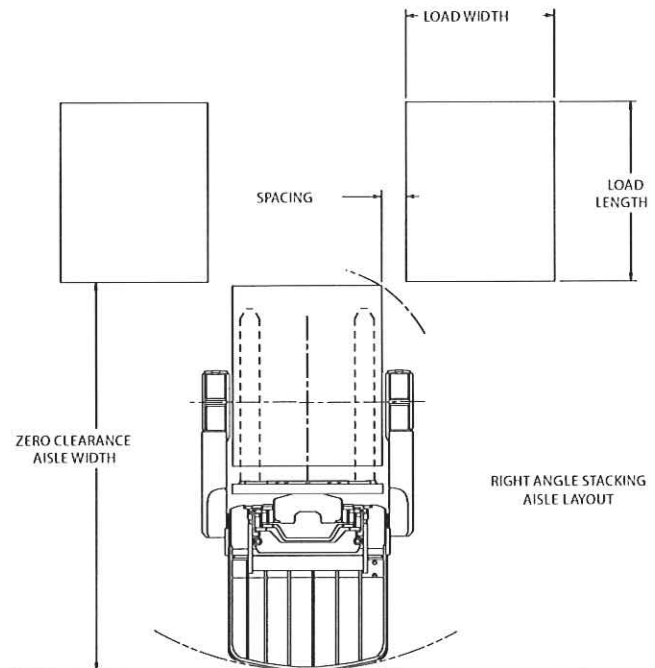
Note: These are "Zero Clearance" aisles and require an additional 6" or more to be added to provide for easier maneuvering.

N35/40ZRS					
Truck with 12.5" or 14.5" Battery Compartment and 42" ID					
3 Stage - 4" Between Loads					
Pallet Length (inches)	Pallet Width (Inches)				
	36	40	44	48	
	36	85	85	85	85
	40	87	87	86	86
	44	92	91	91	90
	48	96	96	95	95

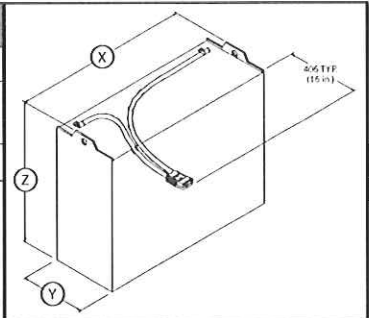
Add 2" for 16.5" Battery Compartment, Add 1" for Sideshift

N30ZDRS					
Truck with 14.5" Battery Compartment and 42" ID					
3 Stage - 4" Between Loads					
Pallet Length (inches)	Pallet Width (inches)				
	36	40	44	48	
	36	90	90	90	90
	40	91	91	91	91
	44	95	94	94	93
	48	99	99	98	98

Add 2" for 16.5" Battery Compartment, Sideshift is Standard on Double Reach



Battery and Compartment Specifications											
Battery Specifications											
Battery Compartment Size	Battery Voltage	Maximum 6 Hr Rate		Battery Dimensions						Minimum Batt. Wt.	Maximum Batt. Wt.
				"X" Max.		"Y" Max.		"Z" Max.			
		AH	KWH	In.	(mm)	In.	(mm)	In.	(mm)	lb. (kg)	lb. (kg)
12.5"	24	1085	25.4	38.8	(985)	12.25	(311)	31.0	(788)	1400 (635)	1900 (862)
14.5"	24	1240	29.0	38.8	(985)	14.25	(362)	31.0	(788)	1600 (726)	2100 (953)
14.5"	36	775	27.2	38.8	(985)	14.25	(362)	31.0	(788)	1600 (726)	2100 (953)
16.5"	24	1395	32.6	38.8	(985)	16.25	(413)	31.0	(788)	1850 (839)	2350 (1066)
16.5"	36	930	32.6	38.8	(985)	16.25	(413)	31.0	(788)	1850 (839)	2350 (1066)



Battery Compartment is designed to accommodate standard wet cell batteries with fixed lifting eyes and no cover.
 Contact Applications Engineering to verify compatibility / fit when using maintenance free, covered or non-standard batteries.
 Battery Connector: 24V - Red; 36V - Gray; Position "B"; Load Length 16"
 Manufacturers Standard Cable Size Not to Exceed 4/0 AWG

STANDARD EQUIPMENT

- Fore/Aft Stance Operator Controls
- 24 Volt Battery (Includes 350 Amp Red Battery Connector)
- 91" / 203" / 52" – 3 Stage Full Free Lift Mast
- Single Reach Mast (24" Extend) with 33.5" Wide Class II Hook Type Carriage (Standard on N35ZRS and N40ZRS)
- Double Reach Mast (42" Extend) with 33.5" Wide Class II Hook Type Carriage (Standard on N30ZDRS)
- Forks: 1.8" x 3.9" (45 mm x 100 mm) 42" (1067 mm) – Class II Hook Type (Standard on N40ZRS)
- Forks: 1.6" x 3.9" (40 mm x 100 mm) 42" (1067 mm) – Class II Hook Type (Standard on N30ZDRS and N35ZRS)
- 5" x 3.9" Poly Articulating Tandem Load Wheels - High Load Compound (Standard on N35ZRS and N40ZRS)
- 5" x 2.9" Poly Articulating Tandem Load Wheels - High Load Compound (Standard on N35ZRS)
- Integral Sideshift for Standard 33.5" Wide Carriage- 7" Total Sideshift Travel (Standard on N30ZDRS)
- AC Traction, Lift / Lower and Steering
- Fully Integrated CANbus Controls
- Low Step Height
- Transistor Controller with Regenerative Braking
- Fully Proportional Lift/Lower Control
- Programmable Traction Speed and Acceleration
- Electric Power Steering
- Automatic Field Control and Auto Deceleration
- Rubber Drive Tire - 12.0" x 5.5"
- Dual Articulating Polyurethane Caster Wheels
- Emergency Power Disconnect
- Battery Discharge Indicator with Lift Interrupt
- Key Start
- 36" High Load Backrest Extension
- Sealed Battery Rollers
- Tilling Carriage (3° Fwd, 4° Back)
- Padded Operator Compartment
- Rear Post Operator Protection
- Operator's Overhead Guard
- Low Profile Anti-Fatigue Floormat
- Operator's Display with Alpha Numeric Messaging
- Multi-Mode Hour Meter
- Control Handle with Simultaneous Hydraulic Functions
- Electronic Horn
- Static Discharge Strap
- Operator's Manual
- UL Classification E

OPTIONAL EQUIPMENT

- Side Stance Operator Controls
- Reverse Steering
- Steered Caster - Electric
- Keyless Start
- Premium Display
- 36 Volt Battery (Includes 350 Amp Gray Battery Connector)
- Battery Stand
- Battery Puller
- Cooler/Freezer Construction (0° F to 120° F)
- Various-Sized Load Wheels with Sealed Bearings
- Tapered Basearm
- Poly Siped Drive Tires
- Lift Limits
- Various Fork Lengths
- Fork Height Display
- 48" High Load Backrest Extension
- Audible Back-up and Motion Alarms
- Rear Operator Compartment Door
- Audible Motion Alarm
- Visual Amber Strobe Light
- Operator Desktop Light
- Dual Headlight
- Rear Worklight
- Operator Overhead Fan
- Load Weight Display
- Reduced Travel Speed with Carriage Extended
- RF Terminal Bracket
- RF Handheld Scanner Holder
- Impact Monitor
- Parts Manual

N35-40ZRS/N30ZDRS

CAPACITY:

Model N30ZDRS: 3,000 lbs. at 24.0" (1,361 kg at 610 mm) load center.
Model N35ZRS: 3,500 lbs. at 24.0" (1,588 kg at 610 mm) load center.
Model N40ZRS: 4,000 lbs. at 24.0" (1,814 kg at 610 mm) load center.

RATED CAPACITIES ARE FOR TRUCKS EQUIPPED WITH:

- 3-Stage full free-lift (FFL) VISTA® mast to maximum fork height of 203" (5156 mm)
- 33.5" (851 mm) wide hook-type carriage, single reach (24.0" extend) with 42.0" (1067 mm) long forks
- 33.5" (851 mm) wide hook-type carriage, double reach (42.0" extend) with 42.0" (1067 mm) long forks
- 36.0" high load backrest extension (LBE)
- 1.8" x 3.9" (45 mm x 100 mm) 42" (1067 mm) long forks [N40ZRS]
- 1.6" x 3.9" (40 mm x 100 mm) 42" (1067 mm) long forks [N35ZRS and N30ZDRS]
- 5" x 3.9" poly articulating tandem load wheels [N35ZRS and N40ZRS]
- 5" x 2.9" poly articulating tandem load wheels [N30ZDRS]

MASTS

Models are equipped with a 5.5" 3-stage FFL mast assembly. The mast is constructed with the nested channel VISTA® design with full-face, straight load rollers. Brass side thrust plugs allow easy mast adjustment during periodic maintenance without removal or disassembly of mast.

CARRIAGE

The single reach mechanisms provide 24 inches of extension. The double reach mechanisms provide 42 inches of extension. Tilt function provides 4 degrees back tilt and 3 degrees forward tilt on both carriages. Sideshift is optional on single reach mechanisms. Double reach mechanism is offered with sideshift feature. Integral sideshift allows seven total inches of sideshift and is reduced to 3 inches total with OEC less than 39 inches.

The pantograph (reach mechanism) arms are all made from one-inch thick alloy steel. The inner arm weldments have additional gusset plates for added strength and rigidity. The main pantograph pivots use tapered roller bearings which provide a stiffer pivot joint. The reach mechanism hoses and wires are installed in a plastic cable carrier. The cable carrier secures wires and hose inside and provides positive routing for both. Sealed connectors are used throughout the mechanism.

FORKS

All fork assemblies are all hook type forks.

N35ZRS and N40ZRS

1.8" x 3.9" x 36", 42", 48"

(45 mm x 100 mm x 914 mm, 1067 mm, or 1219 mm)

N30ZDRS

1.6" x 3.9" x 36", 42", 48"

(40 mm x 100 mm x 914 mm, 1067 mm, or 1219 mm)

ELECTRICAL SYSTEM

The state-of-the-art electrical system features a CANbus communication network linking all vehicle systems. The Vehicle System Manager is an electronic module with an integral microprocessor that controls input and output capabilities. The vehicle application software monitors operator inputs and vehicle performance. The software adjusts vehicle performance as needed to improve the operation of the truck.

Hand controls, which are positioned to optimize each stance configuration, include the multi-function handle, steer tiller assembly, dash display, key switch and emergency stop switch.

The Fore/Aft stance multi-function handle utilizes a single pivot axis for traction control, and thumb actuated controls for lift/lower operation. The handle provides simultaneous operation of traction, lift/lower, and reach functions. Additionally, the handle is utilized in rearward travel and provides traction and horn operation.

The Side stance multi-function control handle assembly offers palm rest and large function buttons. The handle allows simultaneous operation of traction, lift/lower, and one auxiliary function.

STEERING SYSTEM

Electric on-demand power steering

Auto-centering at start-up

Adjustable lock to lock

Adjustable tiller force feedback

Speed sensitive power assist

Electronic adjustment of steer modes for automotive or reverse steering

BATTERY

The steel battery compartment provides secure storage and provides battery access / service from either side of the truck.

Equipped with corrosion resistant, ball bearing battery rollers, battery installation or removal is a quick and easy process.

HYDRAULIC SYSTEM

The AC hydraulic system features proportional lifting and lowering. The lift function is controlled by varying lift motor RPM, which maximizes system efficiency. By utilizing the lift motor RPM to control oil flow, pressure drop in the lift hydraulic lines is minimized. The lower function is controlled by a proportional control valve which provides excellent lowering speed control.

The lift motors are highly reliable AC designs featuring a Class F insulation rating. The motors have speed and temperature sensors mounted internally. The temperature sensor protects the motor from overheating. The speed sensor provides feedback to the hoist controller for precise speed control.

DRIVE TRAIN

The AC traction system offers excellent acceleration, deceleration or regenerative braking and seamless, smooth transitions during plugging.

The plugging function is variable according to the handle position. All deceleration is performed by regenerative braking through the vehicle control system. Regenerative braking puts vehicle kinetic energy back into battery, improving efficiency, and reducing wear on brake components.

Four operator selectable drive modes are available: rabbit, battery saver, mid, and turtle. Rabbit mode provides maximum acceleration and travel speeds. The battery saver mode provides high travel speeds at reduced acceleration. Mid mode reduces travel speeds and acceleration further. Turtle mode reduces travel speed by 50% and also limits acceleration.

BRAKE

A spring applied, electrically released brake is standard on all models.

The brake is pre-adjusted and requires no servicing. Regenerative braking is standard. When the motor RPM reaches 200, the brake is activated.

The brake pedal mounting location is optimized for each stance allowing comfortable operation by a wide range of operators. The switch mounting locations require the operator to be within the operator compartment in normal operator position prior to enabling operation of vehicle traction and hoist systems.

OPERATOR COMPARTMENT

Two operator compartments are offered, Fore/Aft stance and Side stance. The operator's *Drive Rite Design Intent* compartment is ergonomically designed to provide operators with excellent visibility, efficiency and productivity.

Operator controls are positioned for optimum productivity and comfort on both Fore/Aft stance and Side stance with standard adjustable steer tiller.

Low 9.6 inch step height, combined with a wide entrance opening into the operator compartment, provides comfortable entry and exit from the truck.

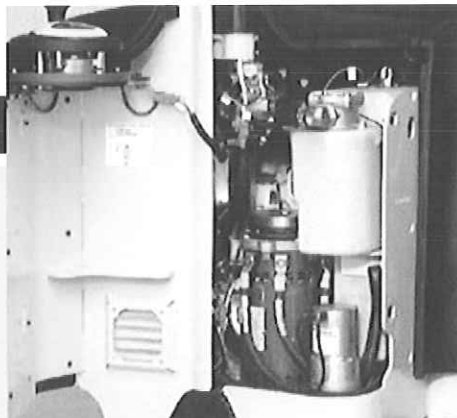
Compartments have room for the operator to vary their stances and include a floating floor plate design with an ergonomically shaped floor mat for excellent ride comfort and reduced body fatigue.

Both the brake and operator sensing switch are mounted below the floor mat, providing unobstructed entry and exit from the truck.

Operator compartments are fully padded for comfort and as a thermal insulator from drive compartment heat.

The Side stance compartment provides a large backrest pad with integral lumbar and armrest support with optional vertical adjustment for a wide range of operator heights.

Doors are intended to protect the operator from objects that may enter the operator's compartment but they may also slow the operator's egress in emergency situations. A review of the forklift's intended environment should be conducted before selecting a door as optional equipment.





FLEET SERVICES



HYSTER CAPITAL

A Division of MMHG Financial Services, Inc.

It's not just about the lift trucks.

Any company worth its weight knows success has just as much to do with the support before and after the sale as the sale itself. We pride ourselves on being more than just a lift truck manufacturer. Through our Dealer Network, we're also fleet managers, parts suppliers, capital procurement specialists and trainers. You'll find that when it comes to service, we do it all.

Hyster Fleet Services

As much as we'd like for your entire fleet to be Hyster, we know that's not always the case. But just because you also operate other brands doesn't mean we can't manage your lift truck maintenance and replacement plan. We can analyze your current fleet or provide summary of your fleet history and a cost-effective proposal for replacement and scheduled maintenance of all your vehicles. Once this initial review is complete, we'll continue to monitor your fleet to ensure it's performing optimally.

UNISOURCE™ Parts Program

In addition to providing fleet management for a variety of brands, we can also serve as your source of parts for all your lift trucks. With the Hyster UNISOURCE parts and service program, we offer approximately 2 million part number crosses for most brands of materials handling and other in-plant mobile equipment. UNISOURCE also has remanufactured parts that provide the same quality and guarantee but at a lower price. And we can deliver parts to you in less than 24 hours, any day of the week. How's that for convenience?

Rental Products

At Hyster Company, we're always looking for ways to help you keep your productivity up. Through the Hyster Dealer Network, you can access rental equipment for the times when leasing or buying isn't a practical option. Your local Hyster Dealer has access to over 14,000 units that are available for short- or long-term rental. Whether you need one truck to substitute for a vehicle that's being serviced or several lift trucks to accommodate seasonal changes in your business, we'll help you maintain output in a cost-effective manner.

Hyster Capital

We know that financing new additions to your fleet can sometimes be challenging. That's why your Hyster Dealer has a long list of ways for you to fund your purchase. We are skilled in arranging 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 better service and competitive rates, ensuring you receive the value you deserve.

Special Products

Engineering Department (SPED)

In a perfect world, every application could be handled with a standard lift truck. However, in the real world, different materials require different handling. That's why Hyster Company's Special Products Engineering Department works with you to customize* your lift trucks. From strobe lights to specially made forks, SPED can provide you with the tools you require to get the job done right.

** May be subject to an additional charge. Contact your local authorized Hyster Dealer for more information.*

Automated Warehouse Solutions

As society's technological capabilities advance, we strive to find practical applications. One of our most recent innovations in that pursuit is our development of automated warehouse solutions. We can help you determine if your operation would benefit from this type of system, which improves inventory accuracy, warehouse productivity and safety records, as it reduces maintenance and overtime.

Operator and Service Training



Hyster Company recognizes that proper training is a key element of a profitable company. That's why your local authorized Hyster Dealer offers a training program for your lift truck operators as well as those who maintain your vehicles. Proper education in running and servicing lift trucks cuts down on the number of repairs and risk of injuries due to accidents while increasing productivity. All of our trainers are professionals with experience in materials handling.





Hyster Company
P.O. Box 7006
Greenville, North Carolina
27835-7006
Part No. N35-40ZRS/N30ZDRS
BTG 7/2007 Litho in U.S.A.

**Visit us online at www.hysteramericas.com
or call us at 1-800-HYSTER-1.**

 is a registered trademark of Hyster Company. Hyster and  are trademarks of Hyster Company. Hyster products are subject to change without notice.

Truck on cover shown with optional equipment.
©2006 Hyster Company. All rights reserved.





Narrow-Aisle, Single & Double Reach, AC Powered Lift Trucks

N35-45ZR/ N30-35ZDR



STRONG PARTNERS. TOUGH TRUCKS.™

PRODUCTIVITY:

- AC hoist system maximizes lift at lower speeds
- Dedicated auxiliary pump and motor increases speed and controllability of auxiliary functions
- AC traction system maximizes performance and provides seamless direction transitions
- Powered and regenerative lowering function maintains speeds and increases the interval between battery changes through improved efficiency
- Electric power steering, standard on all models, offers on-demand steering for maximum efficiency and minimal battery drain
- Automatic drive tire centering at start-up saves time for the operator
- Automatic brake operation applies the brake when the truck is stationary, eliminating the need for the operator to lift a leg to apply the brake
- Optional electrically steered caster

COST OF OPERATION:

- AC traction and hoist motors help reduce maintenance through a simpler design and the elimination of brush replacement
- Regenerative lowering improves battery efficiency
- Sealed load wheel bearings reduce greasing requirements
- Brushless steering and auxiliary motors help reduce maintenance time and cost
- Electric brake provides parking and emergency braking capability with no need to service
- Dual articulating caster wheels promote even tire wear and minimize tire scrub

DEPENDABILITY:

- CANbus communication system reduces wiring and electrical connections and provides real time diagnostics
- Sealed electrical connectors keep out debris and help reduce the possibility of loose connections
- O-ring face seal fittings help maximize uptime and reduce leaks
- Completely brushless AC traction and hoist motors improve reliability
- Thermal management system for all motors and controllers add protection from overheating
- Dedicated auxiliary pump and motor helps reduce demand on main hydraulic motor
- Regenerative lowering helps reduce heat build-up in the hydraulic system and returns potential energy of the load to the battery

SERVICEABILITY:

- Daily operator checks can be performed without removing covers
- Full diagnostics are standard, easing serviceability, helping reduce troubleshooting time and vehicle downtime
- Easy access to all components for regular maintenance and repair
- Completely brushless traction, hoist and auxiliary function motors help reduce service time
- Regenerative braking helps reduce brake wear
- No need to remove the mast for adjustments
- Optional bolt-on load wheels allow easy service of load wheels for routine changing and impact damage

ERGONOMICS:

- *Drive-Rite Design Intent*
- Configuration flexibility with fore/aft stance and side stance available
- Large operator compartment and optimal operator position allow easy entry and exit without awkward twisting
- Low 9.6" step height helps reduce operator fatigue
- Brake pedal location and design is optimized for operator comfort
- Suspended floorplate cushions the operator and helps reduce stress on the operator's legs
- Adjustable steer tiller position
- Adjustable back with armrest
- On-demand electric power steering helps reduce operator effort

VERSATILITY:

- Three mast configurations are available:
 - 5.5" standard duty 3-stage (lift heights 191" to 272")
 - 5.5" heavy duty 3-stage (lift heights 212" to 293")
 - 6.9" 3-stage (lift heights 272" to 422")
- Multiple battery compartments are available:
 - 14.5" and 16.5" for 3,500 and 4,000 lb. models
 - 16.5", 18.5" and 21.5" for 4,500 lb. models
- Four programmable vehicle modes are available for maximum speed, acceleration, deceleration and hydraulic ramping
- Multi-function control handle integrated in armrest with fore/aft stance and side stance
- Wide range of options available:
 - Fork height display
 - Load weight display
 - Shelf height selector



RAISING THE STANDARD FOR LIFT TRUCKS

3

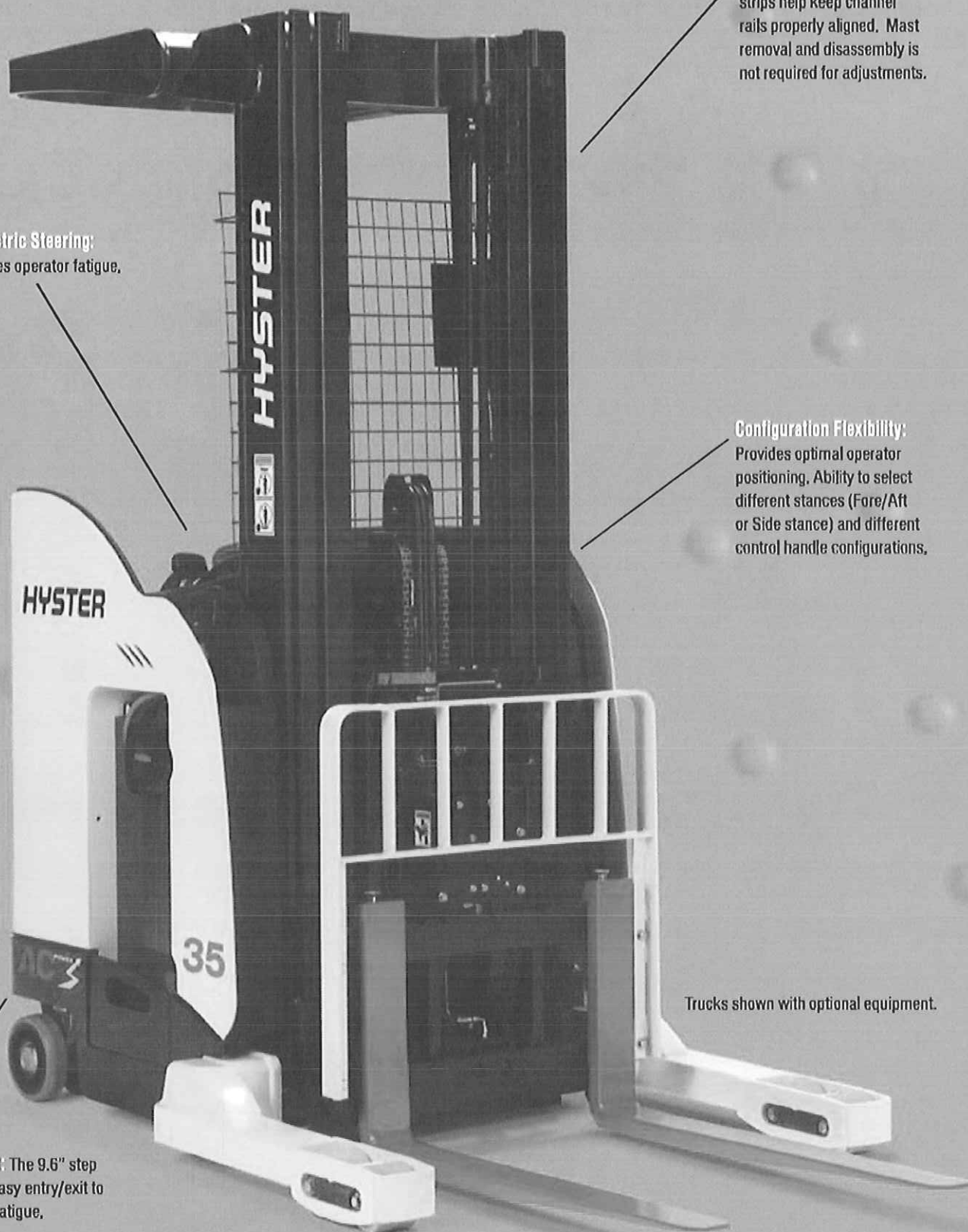
Mast: Adjustable wear strips help keep channel rails properly aligned. Mast removal and disassembly is not required for adjustments.

On-Demand Electric Steering:
Low effort reduces operator fatigue.

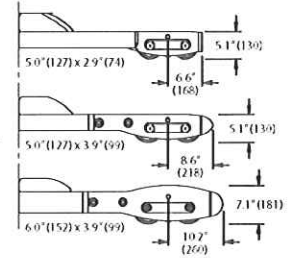
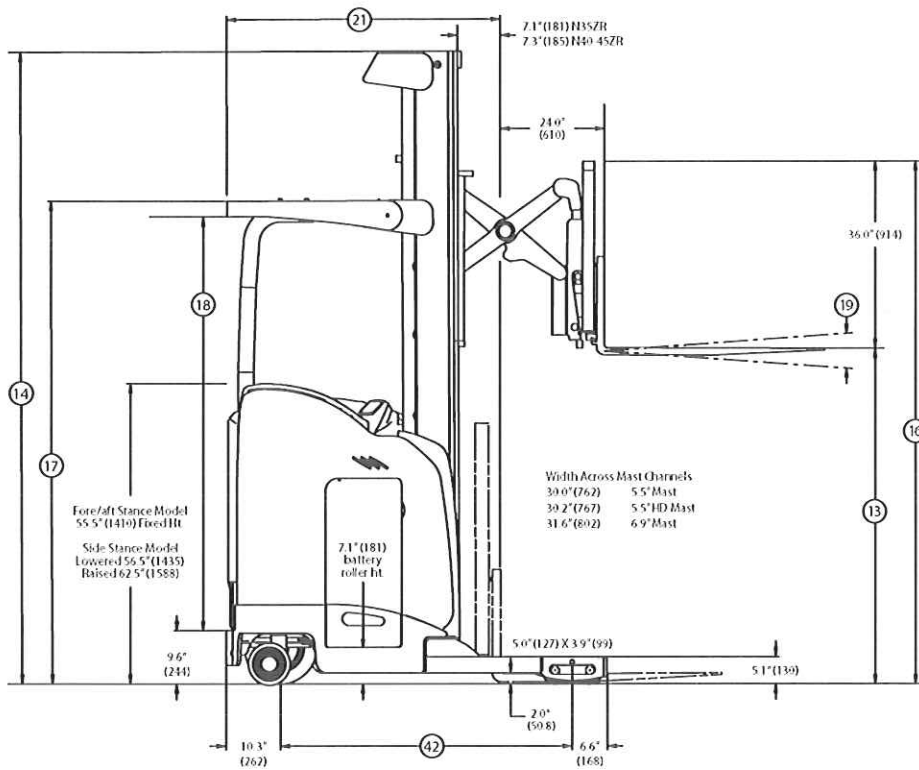
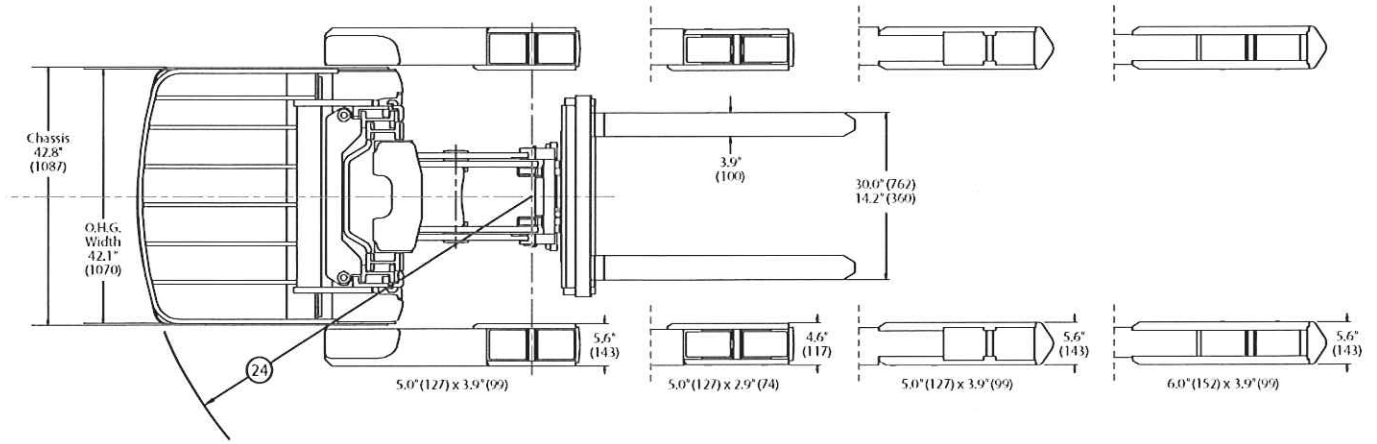
Configuration Flexibility:
Provides optimal operator positioning. Ability to select different stances (Fore/Aft or Side stance) and different control handle configurations.

Trucks shown with optional equipment.

Low Step Height: The 9.6" step height provides easy entry/exit to reduce operator fatigue.



DIMENSIONS



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

N35-45ZR SPECIFICATIONS

5

GENERAL	WT.	DIMENSIONS	PERFORMANCE	WHEELS & TIRES	ELECTRIC	Hyster Company		Hyster Company		Hyster Company	
						N35ZR	N40ZR	N40ZR	N45ZR		
1						Hyster Company		Hyster Company		Hyster Company	
2						N35ZR		N40ZR		N45ZR	
3						SWB		SWB		SWB	
4	lb. (kg)					3500 (1588)		4000 (1814)		4500 (2041)	
5	in. (mm)					24 (610)		24 (610)		24 (610)	
6						Electric - 36 volt		Electric - 36 volt		Electric - 36 volt	
7						Stand		Stand		Stand	
8						Poly / Poly / Poly		Poly / Poly / Poly		Poly / Poly / Poly	
9						4 / 2 (1x)		4 / 2 (1x)		4 / 2 (1x)	
10	lb.					4950		5000		5400	
11						Front	Rear	Front	Rear	Front	Rear
12	lb.					6750	3800	7400	3700	8400	3800
13	in. (mm)					See Mast Table		See Mast Table		See Mast Table	
14	in. (mm)					See Mast Table		See Mast Table		See Mast Table	
15	in. (mm)					See Mast Table		See Mast Table		See Mast Table	
16	in. (mm)					See Mast Table		See Mast Table		See Mast Table	
17	in. (mm)					See Mast Table		See Mast Table		See Mast Table	
18	in. (mm)					See Mast Table		See Mast Table		See Mast Table	
19	degrees°					3 / 4		3 / 4		3 / 4	
20	in.					1.6 x 3.9 x 42		1.8 x 3.9 x 42		1.6 x 3.9 x 42	
21	in. (mm)					See Mast Table		See Mast Table		See Mast Table	
22	in.					34" - 49" (1" increments)		34" - 49" (1" increments)		34" - 49" (1" increments)	
23	in.					39.0 x 14.5 x 31.5		39.0 x 14.5 x 31.5		N/A	
	in.					39.0 x 16.5 x 31.5		39.0 x 16.5 x 31.5		39.0 x 16.5 x 31.5	
	in.					N/A		N/A		39.0 x 18.5 x 31.5	
	in.					N/A		N/A		39.0 x 21.5 x 31.5	
24	in.					65.74		65.74		N/A	
	in.					67.74		67.74		67.90	
	in.					N/A		N/A		69.90	
	in.					N/A		N/A		72.90	
25	see chart					See "RAS" Table		See "RAS" Table		See "RAS" Table	
26						Standard	Yes	Optional	Standard	Yes	Optional
27	mph					7.4/6.5		N/A	7.4/6.5		N/A
28	mph					7.4/6.5		N/A	7.4/6.0		N/A
29	mph					7.4/6.5		N/A	7.4/6.0		N/A
30	ft./min					Standard		Optional	Standard		Optional
31	ft./min					100		N/A	100		114
32	ft./min					75		N/A	75		86
33	ft./min					69		N/A	69		78
34	ft./min					64		N/A	64		72
35	ft./min					N/A		N/A	60		68
36	ft./min					N/A		N/A	N/A		N/A
37	ft./min						95			95	
38	ft./min						95			95	
39						5 x 3.9		5 x 3.9		5 x 3.9	
40						Drive		Caster	Drive		Caster
41	in.					12.0 x 5.5		7.9 x 2.2	12.0 x 5.5		7.9 x 2.2
42	in.					55.35			55.35		N/A
	in.					57.36			57.36		57.36
	in.					N/A			N/A		59.37
	in.					N/A			N/A		62.36
43						Foot		Foot		Foot	
44						Spring Apply / Electric Release		Spring Apply / Electric Release		Spring Apply / Electric Release	
45						Lead Acid		Lead Acid		Lead Acid	
46	hp (kw)					7.5 (5.6)			7.5 (5.6)		8.7 (6.5)
47	hp (kw)					14.8 (11.0)			14.8 (11.0)		18.0 (13.4)
48						Transistor		Transistor		Transistor	
49						Transistor		Transistor		Transistor	
50						Infinitely Variable		Infinitely Variable		Infinitely Variable	

** Static with Rated Load and Max. Wt. Battery

*** Add 1" for Sideshift

¹ Travel Speed will be reduced to 6.8 / 5.8 (Empty / Rated Load) with MIFs above 341" in the Rearward and Forward direction.

8.0 mph travel speed is limited to Load up to 2500 lbs.

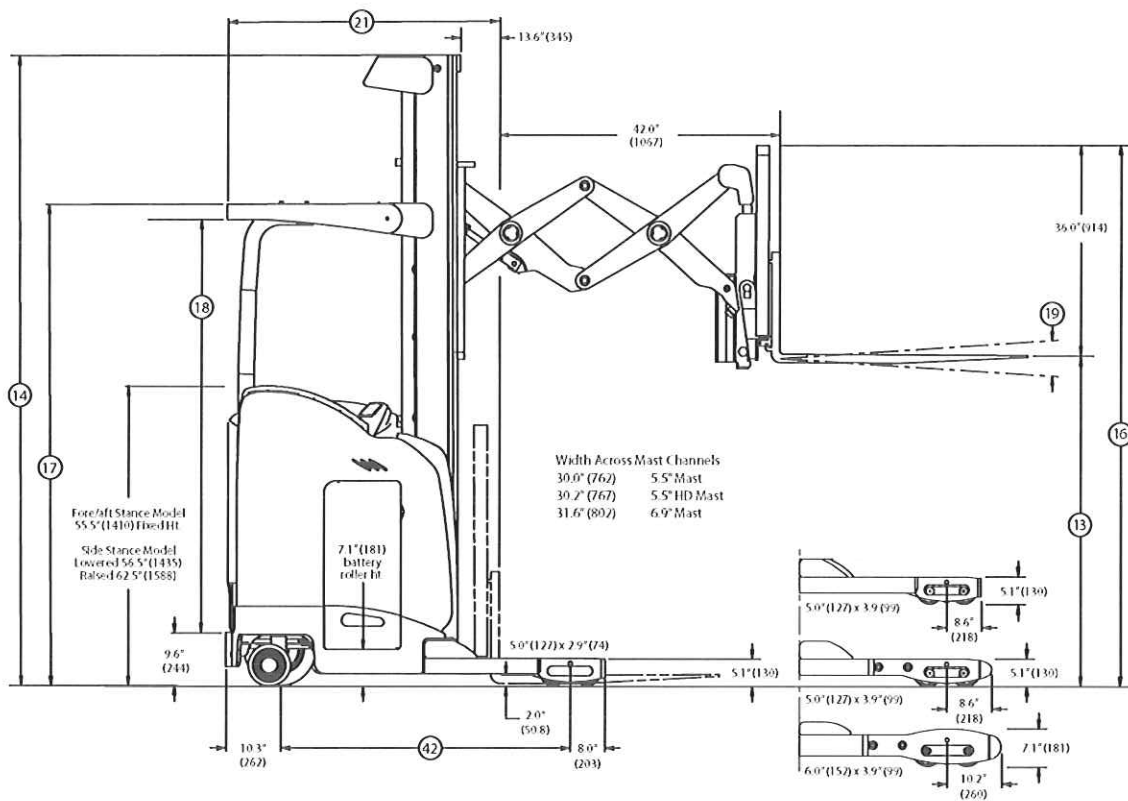
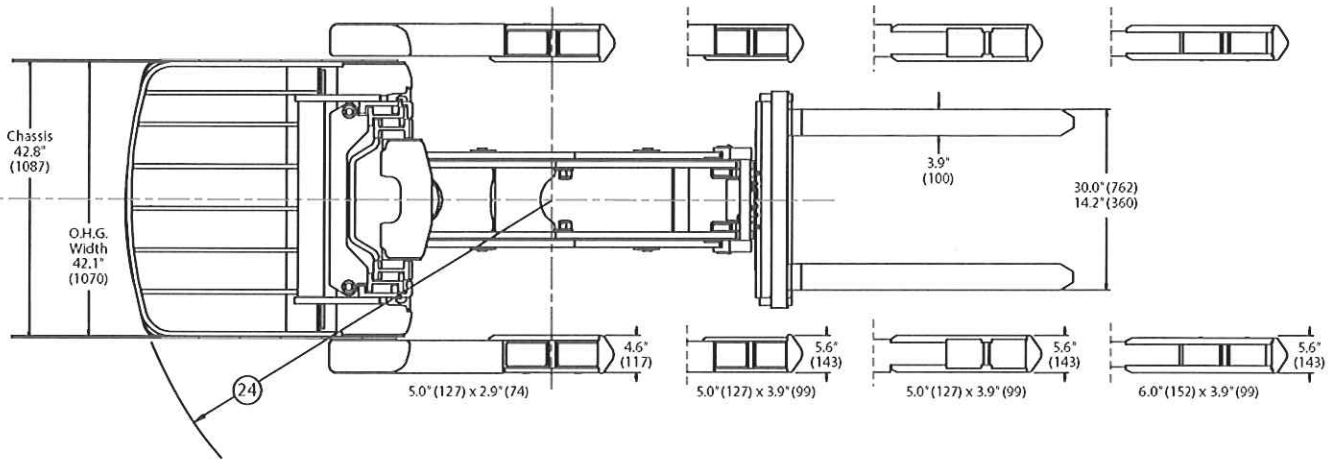
SWB = Short Wheel Base; LWB = Long Wheel Base

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.

NOTE: 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 Dealer.

DIMENSIONS

6



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

N30-35ZDR

		Hyster Company N30ZDR			Hyster Company N35ZDR			
		LWB		SWB	LWB		SWB	
GENERAL	1	Manufacturer Name						
	2	Model						
	3	Wheel Base Designation*						
	4	lb. (kg)	3000 (1361)			3500 (1588)		
	5	in. (mm)	24 (610)			24 (610)		
	6	Power Type - Electric, Diesel, LPG						
	7	Operator Type						
	8	Tire Type - Load/Caster/Drive						
	9	Wheels, Number Load/Drive (x=driven)						
WT.	10	lb.	5250		N/A	5250	N/A	
	11		Front		Rear	Front	Rear	
	12	lb.	6300		4050	6700	4250	
DIMENSIONS	13	in. (mm)	See Mast Table			See Mast Table		
	14	in. (mm)	See Mast Table			See Mast Table		
	15	in. (mm)	See Mast Table			See Mast Table		
	16	in. (mm)	See Mast Table			See Mast Table		
	17	in. (mm)	See Mast Table			See Mast Table		
	18	in. (mm)	See Mast Table			See Mast Table		
	19	degrees°	3 / 4			3 / 4		
	20	in.	1.8 x 3.9 x 42			1.6 x 3.9 x 42		
	21	in. (mm)	See Mast Table			See Mast Table		
	22	in.	34" - 49" (1" increments)			34" - 49" (1" increments)		
	23	in.	39.0 x 14.5 x 31.5			N/A		
		in.	39.0 x 16.5 x 31.5			39.0 x 16.5 x 31.5		
		in.	N/A			39.0 x 18.5 x 31.5		
		in.	N/A			39.0 x 21.5 x 31.5		
	24	in.	70.74		N/A	N/A		
		in.	72.74		N/A	72.90		67.90
		in.	N/A		N/A	74.90		69.90
		in.	N/A		N/A	77.90		72.90
25	see chart	See "RAS" Table			See "RAS" Table			
26		Yes			Yes			
PERFORMANCE	27		Standard		Optional	Standard	Optional	
	28	mph	7.4/6.8 †		N/A	7.4/6.8 †	8.0/6.8 †	
	29	mph	7.4/6.8 †		N/A	7.4/6.5 †	8.0/6.5 †	
	30		Standard		Optional	Standard	Optional	
	31	ft./min	100		114	114	130	
	32	ft./min	71		82	82	93	
	33	ft./min	65		73	73	85	
	34	ft./min	N/A		N/A	70	N/A	
	35	ft./min	N/A		N/A	N/A	N/A	
	36	ft./min	N/A		N/A	N/A	N/A	
37	ft./min		95		105			
38	ft./min		95		105			
WHEELS & TIRES	39		5 x 2.9			5 x 2.9		
	40		Drive		Caster	Drive	Caster	
	41	in.	12.0 x 5.5		7.9 x 2.2	13.5 x 5.5	7.9 x 2.2	
	42	in.	60.35		N/A	N/A		
		in.	62.36		N/A	62.36	57.36	
		in.	N/A		N/A	64.37	59.37	
		in.	N/A		N/A	67.36	62.36	
ELECTRIC	43		Foot			Foot		
	44		Spring Apply / Electric Release			Spring Apply / Electric Release		
	45		Lead Acid			Lead Acid		
	46	hp (kw)		7.5 (5.6)		7.5 (5.6)	8.7 (6.5)	
	47	hp (kw)	14.8 (11.0)		18.0 (13.4)	18.0 (13.4)	20.7 (15.4)	
	48		Transistor			Transistor		
49		Transistor			Transistor			
50		Infinitely Variable			Infinitely Variable			

* Short or Long Wheelbase is determined by Mast Height

** Static with Rated Load and Max. Wt. Battery

† Travel Speed will be reduced to 6.8 / 5.8 (Empty / Rated Load) with MFFs above 341" in the Rearward and Forward direction.

8.0 mph travel speed is limited to Load up to 2500 lbs.

SWB = Short Wheel Base (with mast over 332" MFF); LWB = Long Wheel Base

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.

NOTE: 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 Dealer.

MAST DIMENSIONS

N35-40ZR/N30ZDR MAST DIMENSIONS (5.5" STANDARD DUTY)

Maximum Fork Ht. (TOF) In. (mm)	Overall Lowered Height In. (mm)	Overall Height (Mast Extended) Highest Point w/ 36" Load Backrest In. (mm)	Free-Lift (TOF) In. (mm)	Overhead Guard Height to Top In. (mm)	Operator Clearance In. (mm)	Head Length (Length to Face of Forks)			
						14.5" B.C.		16.5" B.C.	
						Single Reach	Double Reach	Single Reach	Double Reach
3-STAGE FULL FREE-LIFT (FFL) VISTA® MAST									
191 (4851)	87 (2210)	230 (5842)	48 (1219)	86.5 (2197)	75.3 (1913)	52.12	58.02	54.12	60.02
203 (5156)	91 (2311)	242 (6147)	52 (1321)	90.5 (2299)	79.3 (2014)	52.12	58.02	54.12	60.02
212 (5385)	95 (2413)	251 (6375)	56 (1422)	94.5 (2400)	83.3 (2116)	52.12	58.02	54.12	60.02
227 (5766)	101 (2565)	266 (6756)	62 (1575)	91 (2311)	79.8 (2027)	52.12	58.02	54.12	60.02
242 (6147)	107 (2718)	281 (7137)	68 (1727)	91 (2311)	79.8 (2027)	52.12	58.02	54.12	60.02
251 (6375)	110 (2794)	290 (7366)	71 (1803)	91 (2311)	79.8 (2027)	52.12	58.02	54.12	60.02
272 (6909)	119 (3023)	311 (7899)	80 (2032)	91 (2311)	79.8 (2027)	52.12	58.02	54.12	60.02

N45ZR/N35ZDR MAST DIMENSIONS (5.5" HEAVY DUTY)

Maximum Fork Ht. (TOF) In. (mm)	Overall Lowered Height In. (mm)	Overall Height (Mast Extended) Highest Point w/ 36" Load Backrest In. (mm)	Free-Lift (TOF) In. (mm)	Overhead Guard Height to Top In. (mm)	Operator Clearance In. (mm)	Head Length (Length to Face of Forks)					
						16.5" B.C.		18.5" B.C.		21.5" B.C.	
						Single Reach	Double Reach	Single Reach	Double Reach	Single Reach	Double Reach
3-STAGE FULL FREE-LIFT (FFL) VISTA® MAST											
212 (5385)	95 (2413)	251 (6375)	56 (1422)	94.5 (2400)	83.3 (2116)	57.47	63.38	59.47	65.38	62.47	68.38
224 (5690)	101 (2565)	263 (6680)	62 (1575)	91 (2311)	79.8 (2027)	57.47	63.38	59.47	65.38	62.47	68.38
239 (6071)	107 (2718)	278 (7061)	68 (1727)	91 (2311)	79.8 (2027)	57.47	63.38	59.47	65.38	62.47	68.38
245 (6223)	110 (2794)	284 (7214)	71 (1803)	91 (2311)	79.8 (2027)	57.47	63.38	59.47	65.38	62.47	68.38
266 (6756)	119 (3023)	305 (7747)	80 (2032)	91 (2311)	79.8 (2027)	57.47	63.38	59.47	65.38	62.47	68.38
278 (7061)	125 (3175)	317 (8052)	86 (2184)	91 (2311)	79.8 (2027)	57.47	63.38	59.47	65.38	62.47	68.38
293 (7442)	131 (3327)	332 (8433)	92 (2337)	91 (2311)	79.8 (2027)	57.47	63.38	59.47	65.38	62.47	68.38

N45ZR/N35ZDR MAST DIMENSIONS (6.9")

Maximum Fork Ht. (TOF) In. (mm)	Overall Lowered Height In. (mm)	Overall Height (Mast Extended) Highest Point w/ 36" Load Backrest In. (mm)	Free-Lift (TOF) In. (mm)	Overhead Guard Height to Top In. (mm)	Operator Clearance In. (mm)	Head Length (Length to Face of Forks)					
						16.5" B.C.		18.5" B.C.		21.5" B.C.	
						Single Reach	Double Reach	Single Reach	Double Reach	Single Reach	Double Reach
3-STAGE FULL FREE-LIFT (FFL) VISTA® MAST											
272 (6909)	119 (3023)	311 (7899)	80 (2032)	91 (2311)	79.8 (2027)	57.59	63.50	59.60	65.50	62.59	68.50
287 (7290)	125 (3175)	326 (8280)	86 (2184)	91 (2311)	79.8 (2027)	57.59	63.50	59.60	65.50	62.59	68.50
302 (7671)	131 (3327)	341 (8661)	92 (2337)	91 (2311)	79.8 (2027)	57.59	63.50	59.60	65.50	62.59	68.50
320 (8128)	138 (3505)	359 (9119)	99 (2515)	91 (2311)	79.8 (2027)	57.59	63.50	59.60	65.50	62.59	68.50
332 (8433)	143 (3632)	371 (9423)	104 (2642)	91 (2311)	79.8 (2027)	57.59	63.50	59.60	65.50	62.59	68.50
341 (8661)	146 (3708)	380 (9652)	107 (2718)	91 (2311)	79.8 (2027)	57.59	63.50	59.60	65.50	62.59	68.50
368 (9347)	157 (3988)	407 (10338)	118 (2997)	91 (2311)	79.8 (2027)	57.59	63.50	59.60	65.50	62.59	68.50
401 (10185)	170 (4318)	440 (11176)	131 (3327)	91 (2311)	79.8 (2027)	57.59	63.50	59.60	65.50	62.59	68.50
422 (10719)	179 (4547)	461 (11709)	140 (3556)	91 (2311)	79.8 (2027)	57.59	63.50	59.60	65.50	62.59	68.50

RIGHT ANGLE STACKING / BATTERY SPECIFICATIONS

Right Angle Aisle Stacking

Note: These are "Zero Clearance" aisles and require an additional 6" or more to be added to provide for easier maneuvering.

N35/40ZR					
Truck with 14.5" Battery Compartment and 42" ID					
3 Stage - 4" Between Loads					
Pallet Length (inches)	Pallet Width (inches)				
		36	40	44	48
	36	85	85	85	85
	40	87	87	86	86
	44	92	91	91	90
48	96	96	95	95	

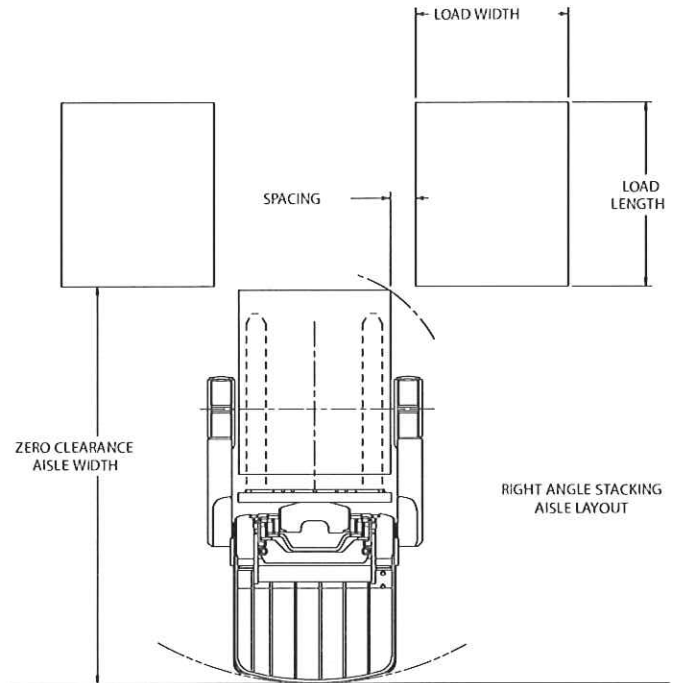
Add 2" for 16.5" Battery Compartment
Add 1" for Sideshift

N45ZR					
Truck with 16.5" Battery Compartment and 42" ID					
3 Stage - 4" Between Loads					
Pallet Length (inches)	Pallet Width (inches)				
		36	40	44	48
	36	88	88	87	87
	40	93	92	92	91
	44	97	97	96	96
48	102	101	101	100	

Add 2" for 18.5" Battery Compartment
Add 5" for 21.5" Battery Compartment
Add 1" for Sideshift

N30ZDR					
Truck with 14.5" Battery Compartment and 42" ID					
3 Stage - 4" Between Loads					
Pallet Length (inches)	Pallet Width (inches)				
		36	40	44	48
	36	90	90	90	90
	40	91	91	91	91
	44	95	94	94	93
48	99	99	98	98	

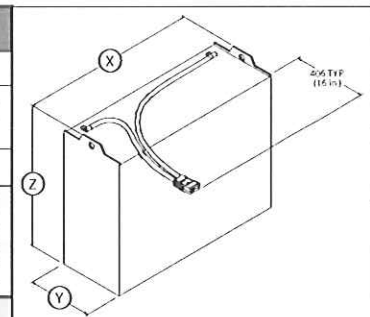
Add 2" for 16.5" Battery Compartment
Sideshift is Standard on Double Reach



N35ZDR					
Truck with 16.5" Battery Compartment and 42" ID					
3 Stage - 4" Between Loads					
Pallet Length (inches)	Pallet Width (inches)				
		36	40	44	48
	36	92	91	91	91
	40	96	96	95	94
	44	101	100	100	99
48	105	105	104	104	

Add 2" for 18.5" Battery Compartment
Add 5" for 21.5" Battery Compartment
Sideshift is Standard on Double Reach

Battery and Compartment Specifications											
Battery Specifications											
Battery Compartment Size	Battery Voltage	Maximum 6 Hr Rate		Battery Dimensions						Minimum Batt. Wt.	Maximum Batt. Wt.
				"X" Max.		"Y" Max.		"Z" Max.			
		AH	KWH	in.	(mm)	in.	(mm)	in.	(mm)	lb. (kg)	lb. (kg)
14.5"	36	775	27.2	38.8	(985)	14.25	(362)	31.0	(788)	1600 (726)	2100 (953)
16.5"	36	930	32.6	38.8	(985)	16.25	(413)	31.0	(788)	1850 (839)	2350 (1066)
18.5"	36	1085	38.1	38.8	(985)	18.25	(464)	31.0	(788)	2200 (998)	2800 (1270)
21.5"	36	1240	43.5	38.8	(985)	21.25	(540)	31.0	(788)	2500 (1134)	3100 (1406)



Battery Compartment is designed to accommodate standard wet cell batteries with fixed lifting eyes and no cover.
Contact Applications Engineering to verify compatibility / fit when using maintenance free, covered or non-standard batteries.
Battery Connector: 24V - Red; 36V - Gray; Position "B"; Lead Length 16"
Manufacturers Standard Cable Size Not to Exceed 4/0 AWG

STANDARD EQUIPMENT

- Fore / Aft Stance Operator Controls
- 36 Volt Battery (Includes 350 Amp Gray Battery Connector)
- 91" / 203" / 52" – 3 Stage Full Free Lift Mast (Standard on N30ZDR, N35ZR and N40ZR)
- 95" / 212" / 56" – 3 Stage Full Free Lift Mast (Standard on N35ZDR and N45ZR)
- Single Reach Mast (24" Extend) with 33.5" Wide Class II Hook Type Carriage (Standard on N35-45ZR)
- Double Reach (42" Extend) with 33.5" Wide Class II Hook Type Carriage (Standard on N30-35ZDR)
- Integral Sideshift with 7" Travel (Standard on N30-35ZDR)
- Forks: 1.6" x 3.9" x 42" (40 mm x 100 mm) – Class II Hook Type (Standard on N35ZR and N30-35ZDR)
- Forks: 1.8" x 3.9" x 42" (45 mm x 100 mm) – Class II Hook Type (Standard on N40ZR and N45ZR)
- 5" x 3.9" Poly Articulating Tandem Load Wheels - High Load Compound (Standard on N35-45ZR)
- 5" x 2.9" Poly Articulating Tandem Load Wheels - High Load Compound (Standard on N30-35ZDR)
- AC Traction, Lift / Lower and Steering
- Fully Integrated CANbus Controls
- Low Step Height
- Transistor Controller with Regenerative Braking
- Power Lowering
- Programmable Traction Speed and Acceleration
- Electric Power Steering
- Polyurethane Drive Tire - 12.0" x 5.5" (Standard on N30ZDR, N35ZR, and N40ZR)
- Polyurethane Drive Tire - 13.5" x 5.5" (Standard on N35ZDR and N45ZR)
- Dual Articulating Polyurethane Caster Wheels
- Emergency Power Disconnect
- Battery Discharge Indicator with Lift Interrupt
- Key Start
- 36" High Load Backrest Extension
- Sealed Battery Rollers
- Tilting Carriage (3° Fwd, 4° Back)
- Padded Operator Compartment
- Rear Post Operator Protection
- Operator's Overhead Guard
- Low Profile Anti-Fatigue Floormat
- Operator's Display with Alpha Numeric Messaging
- Multi-Mode Hour Meter
- Control Handle with Simultaneous Hydraulic Functions
- Electronic Horn
- Static Discharge Strap
- Operator's Manual
- UL Classification E

OPTIONAL EQUIPMENT

- Side Stance Operator Controls
- Reverse Steering
- Steered Caster - Electric
- Keyless Start
- Premium Display (Includes Performance Mode Select, Operator's Checklist, Maintenance Reminders, Clock, Operator Password)
- Battery Stand
- Battery Puller
- Cooler/Freezer Construction (Operating Temperatures 0° F to 120° F)
- subZERO Freezer Construction (Operating Temperatures -40° F to 120° F)
- subZERO Freezer with Heated Floor (Operating Temperatures -40° F to 120° F)
- UL Classification EE
- Load Wheels with Greasable Bearings
- Bolt-on Wheel Box for use with 5" x 3.9" and 6" x 3.9" Load Wheels
- Tapered Basearm (N35-45ZR)
- Poly Siped Drive Tires
- Poly X-Groove Drive Tires
- Various Fork Lengths
- Auto Fork Leveling
- Fork Height Display
- Fork Camera
- Fork – Laser Level Line
- Shelf Height Selector
- 48" High Load Backrest Extension
- Rear Operator Compartment Door
- Back-up and Motion Alarm
- Amber Strobe Light
- Operator Desktop Light
- Dual Headlight
- Rear Worklight
- High Speed Lift and Travel
- Operator Overhead Fan
- Load Weight Display
- Reduced Travel Speed with Carriage Extended
- RF Terminal Bracket
- RF Handheld Scanner Holder
- Impact Monitor
- Parts Manual

N35-45ZR/N30-35ZDR

CAPACITY:

Model N30ZDR: 3,000 lbs. at 24.0" (1,361 kg at 610 mm) load center
Model N35ZDR: 3,500 lbs. at 24.0" (1,588 kg at 610 mm) load center
 [Shuttle/Transport applications up to 24" Maximum Fork Height]
 3,000 lbs. at 24.0" (1,361 kg at 610 mm) load center
 [Above 24" Maximum Fork Height]
Model N35ZR: 3,500 lbs. at 24.0" (1,588 kg at 610 mm) load center
Model N40ZR: 4,000 lbs. at 24.0" (1,814 kg at 610 mm) load center
Model N45ZR: 4,500 lbs. at 24.0" (2,041 kg at 610 mm) load center

RATED CAPACITIES ARE FOR TRUCKS EQUIPPED WITH:

- 3-Stage full free-lift (FFL) VISTA® mast to maximum fork height of 203" (5156 mm) [N30ZDR, N35ZR and N40ZR] and 212" (5385 mm) [N35ZDR and N45ZR]
- 33.5" (851 mm) wide hook-type carriage, single reach (24.0" extend) with 42.0" (1067 mm) long forks
- 33.5" (851 mm) wide hook-type carriage, double reach (42.0" extend) with 42.0" (1067 mm) long forks
- 36.0" high load backrest extension (LBE)
- 1.8" x 3.9" (45 mm x 100 mm) 42" (1067 mm) long forks [N40ZR and N45ZR]
- 1.6" x 3.9" (40 mm x 100 mm) 42" (1067 mm) long forks [N35ZR, N30ZDR and N35ZDR]
- 5" x 3.9" poly articulating tandem load wheels [N35ZR, N40ZR and N45ZR]
- 5" x 2.9" poly articulating tandem load wheels [N30ZDR and N35ZDR]

MASTS

Models are equipped with a 5.5" 3-stage FFL mast assembly. The mast is constructed with the nested channel VISTA® design with full-face, straight load rollers. Brass side thrust plugs allow easy mast adjustment during periodic maintenance without removal or disassembly of mast.

CARRIAGE

The single reach mechanisms provide 24 inches of extension. The double reach mechanisms provide 42 inches of extension. Tilt function provides 4 degrees back tilt and 3 degrees forward tilt on both carriages. Sideshift is optional on single reach mechanisms. Double reach mechanism is offered with sideshift feature. Integral sideshift allows seven total inches of sideshift and is reduced to 3 inches total with OEC less than 39 inches.

The pantograph (reach mechanism) arms are all made from one-inch thick alloy steel. The inner arm weldments have additional gusset plates for added strength and rigidity. The main pantograph pivots use tapered roller bearings which provide a stiffer pivot joint. The reach mechanism hoses and wires are installed in a plastic cable carrier. The cable carrier secures wires and hose inside and provides positive routing for both. Sealed connectors are used throughout the mechanism.

FORKS

All fork assemblies are all hook type forks.
N40ZR and N45ZR
 1.8" x 3.9" x 36", 42", 48"
 (45 mm x 100 mm x 914 mm, 1067 mm, or 1219 mm)
N35ZR, N30ZDR and N35ZDR
 1.6" x 3.9" x 36", 42", 48"
 (40 mm x 100 mm x 914 mm, 1067 mm, or 1219 mm)

ELECTRICAL SYSTEM

The state-of-the-art electrical system features a CANbus communication network linking all vehicle systems. The Vehicle System Manager is an electronic module with an integral microprocessor that controls input and output capabilities. The vehicle application software monitors operator inputs and vehicle performance. The software adjusts vehicle performance as needed to improve the operation of the truck.

Hand controls, which are positioned to optimize each stance configuration, include the multi-function handle, steer tiller assembly, dash display, key switch and emergency stop switch.

The Fore/Aft Stance multi-function handle utilizes a single pivot axis for traction control, and thumb actuated controls for lift/lower operation. The handle provides simultaneous operation of traction, lift/lower, and reach functions. Additionally, the handle is utilized in rearward travel and provides traction and horn operation.

The Side Stance multi-function control handle assembly offers palm rest and large function buttons. The handle allows simultaneous operation of traction, lift/lower, and one auxiliary function.

STEERING SYSTEM

Electric on-demand power steering
 Auto-centering at start-up
 Adjustable lock to lock
 Adjustable tiller force feedback
 Speed sensitive power assist
 Electronic adjustment of steer modes for automotive or reverse steering

BATTERY

The steel battery compartment provides secure storage and provides battery access / service from either side of the truck.
 Equipped with corrosion resistant, ball bearing battery rollers, battery installation or removal is a quick and easy process.

HYDRAULIC SYSTEM

The AC hydraulic system features proportional lifting and lowering. The lift function is controlled by varying lift motor RPM, which maximizes system efficiency. By utilizing the lift motor RPM to control oil flow, pressure drop in the lift hydraulic lines is minimized. The lower function is controlled by a proportional control valve which provides excellent lowering speed control.

The lift motors are highly reliable AC designs featuring a Class F insulation rating. The motors have speed and temperature sensors mounted internally. The temperature sensor protects the motor from overheating. The speed sensor provides feedback to the hoist controller for precise speed control.

DRIVE TRAIN

The AC traction system offers excellent acceleration, deceleration or regenerative braking and seamless, smooth transitions during plugging.

The plugging function is variable according to the handle position. All deceleration is performed by regenerative braking through the vehicle control system. Regenerative braking puts vehicle kinetic energy back into battery, improving efficiency, and reducing wear on brake components.

Four operator selectable drive modes are available: rabbit, battery saver, mid, and turtle. Rabbit mode provides maximum acceleration and travel speeds. The battery saver mode provides high travel speeds at reduced acceleration. Mid mode reduces travel speeds and acceleration further. Turtle mode reduces travel speed by 50% and also limits acceleration.

BRAKE

A spring applied, electrically released brake is standard on all models.
 The brake is pre-adjusted and requires no servicing. Regenerative braking is standard. When the motor RPM reaches 200, the brake is activated.

The brake pedal mounting location is optimized for each stance allowing comfortable operation by a wide range of operators. The switch mounting locations require the operator to be within the operator compartment in normal operator position prior to enabling operation of vehicle traction and hoist systems.

OPERATOR COMPARTMENT

Two operator compartments are offered, Fore/Aft Stance and Side Stance. The operator's *Drive Into Design Inert* compartment is ergonomically designed to provide operators with excellent visibility, efficiency and productivity.

Operator controls are positioned for optimum productivity and comfort on both Fore/Aft Stance and Side Stance with standard adjustable steer tiller.

Low 9.6 inch step height, combined with a wide entrance opening into the operator compartment, provides comfortable entry and exit from the truck.

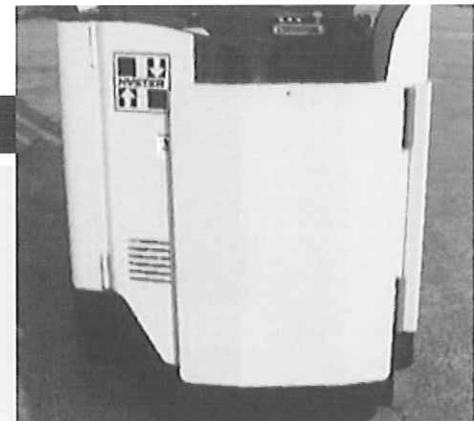
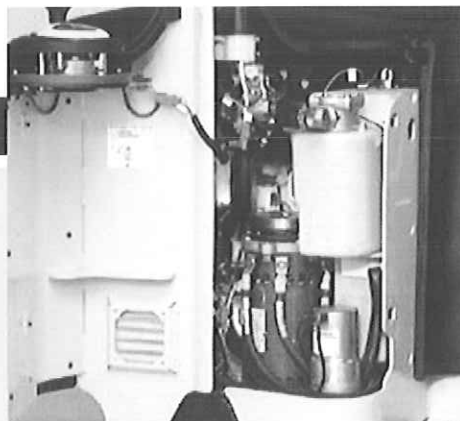
Compartments have room for the operator to vary their stances and include a floating floor plate design with an ergonomically shaped floor mat for excellent ride comfort and reduced body fatigue.

Both the brake and operator sensing switch are mounted below the floor mat, providing unobstructed entry and exit from the truck.

Operator compartments are fully padded for comfort and as a thermal insulator from drive compartment heat.

The Side Stance compartment provides a large backrest pad with integral lumbar and armrest support with optional vertical adjustment for a wide range of operator heights.

Doors are intended to protect the operator from objects that may enter the operator's compartment but they may also slow the operator's egress in emergency situations. A review of the forklift's intended environment should be conducted before selecting a door as optional equipment.



It's not just about the lift trucks.

Any company worth its weight knows success has just as much to do with the support before and after the sale as the sale itself. We pride ourselves on being more than just a lift truck manufacturer. Through our Dealer Network, we're also fleet managers, parts suppliers, capital procurement specialists and trainers. You'll find that when it comes to service, we do it all.

Hyster Fleet Services

As much as we'd like for your entire fleet to be Hyster, we know that's not always the case. But just because you also operate other brands doesn't mean we can't manage your lift truck maintenance and replacement plan. We can analyze your current fleet or provide summary of your fleet history and a cost-effective proposal for replacement and scheduled maintenance of all your vehicles. Once this initial review is complete, we'll continue to monitor your fleet to ensure it's performing optimally.

UNISOURCE™ Parts Program

In addition to providing fleet management for a variety of brands, we can also serve as your source of parts for all your lift trucks. With the Hyster UNISOURCE parts and service program, we offer approximately 2 million part number crosses for most brands of materials handling and other in-plant mobile equipment. UNISOURCE also has remanufactured parts that provide the same quality and guarantee but at a lower price. And we can deliver parts to you in less than 24 hours, any day of the week. How's that for convenience?

Rental Products

At Hyster Company, we're always looking for ways to help you keep your productivity up. Through the Hyster Dealer Network, you can access rental equipment for the times when leasing or buying isn't a practical option. Your local Hyster Dealer has access to over 14,000 units that are available for short- or long-term rental. Whether you need one truck to substitute for a vehicle that's being serviced or several lift trucks to accommodate seasonal changes in your business, we'll help you maintain output in a cost-effective manner.

Hyster Capital

We know that financing new additions to your fleet can sometimes be challenging. That's why your Hyster Dealer has a long list of ways for you to fund your purchase. We are skilled in arranging 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 better service and competitive rates, ensuring you receive the value you deserve.

Special Products Engineering Department (SPED)

In a perfect world, every application could be handled with a standard lift truck. However, in the real world, different materials require different handling. That's why Hyster Company's Special Products Engineering Department works with you to customize* your lift trucks. From strobe lights to specially made forks, SPED can provide you with the tools you require to get the job done right.

* May be subject to an additional charge. Contact your local authorized Hyster Dealer for more information.

Automated Warehouse Solutions

As society's technological capabilities advance, we strive to find practical applications. One of our most recent innovations in that pursuit is our development of automated warehouse solutions. We can help you determine if your operation would benefit from this type of system, which improves inventory accuracy, warehouse productivity and safety records, as it reduces maintenance and overtime.

Operator and Service Training

Hyster Company recognizes that proper training is a key element of a profitable company. That's why your local authorized Hyster Dealer offers a training program for your lift truck operators as well as those who maintain your vehicles. Proper education in running and servicing lift trucks cuts down on the number of repairs and risk of injuries due to accidents while increasing productivity. All of our trainers are professionals with experience in materials handling.



FLEET SERVICES





HYSTER CAPITAL

A Division of HMG Financial Services, Inc.



Hyster Company
P.O. Box 7006
Greenville, North Carolina
27835-7006
Part No. N35-45ZR/N30-35ZDR
BTG 7/2007 Litho in U.S.A.

Visit us online at www.hysteramericas.com
or call us at 1-800-HYSTER-1.

 is a registered trademark of Hyster Company. Hyster and  are trademarks of Hyster Company. Hyster products are subject to change without notice.

Truck on cover shown with optional equipment.
©2006 Hyster Company. All rights reserved.





N35ZR HIGHLIFT SHEETS



CAPACITY IS IN POUNDS @ 24 INCH LOAD CENTER

EQUIPPED WITH 42" FORKS & SINGLE REACH CARRIAGE

RATINGS ARE PROVIDED FOR BOTH STANDARD CARRIAGE AND WITH INTEGRAL SIDESHIFTER

36 Volt 14.5" Battery Compartment Minimum Battery Weight - 1500 LBS.

O.E.C.	OALH	MFH	CAPACITY @ MFH		LIFT HEIGHT WITH MAX CAPACITY LOAD			
			w/o SS	INTEGRAL SS	w/o SS		INTEGRAL SIDESHIFTER	
			LOAD	LOAD CENTERED	LIFT HEIGHT	LOAD	LIFT HEIGHT	LOAD CENTERED
34"	87.0	191.0	3500	3500	191.0	3500	191.0	3500
	91.0	203.0	3500	3500	203.0	3500	203.0	3500
	95.0	212.0	3500	3500	212.0	3500	212.0	3500
	101.0	227.0	3500	3500	227.0	3500	227.0	3500
	107.0	242.0	3500	3400	242.0	3500	240.0	3500
	110.0	251.0	3250	3150	242.0	3500	240.0	3500
	119.0	272.0	2650	2600	241.0	3500	240.0	3500
38"	87.0	191.0	3500	3500	191.0	3500	191.0	3500
	91.0	203.0	3500	3500	203.0	3500	203.0	3500
	95.0	212.0	3500	3500	212.0	3500	212.0	3500
	101.0	227.0	3500	3500	227.0	3500	227.0	3500
	107.0	242.0	3500	3500	242.0	3500	242.0	3500
	110.0	251.0	3500	3500	251.0	3500	251.0	3500
	119.0	272.0	3150	3100	261.0	3500	259.0	3500
41"	87.0	191.0	3500	3500	191.0	3500	191.0	3500
	91.0	203.0	3500	3500	203.0	3500	203.0	3500
	95.0	212.0	3500	3500	212.0	3500	212.0	3500
	101.0	227.0	3500	3500	227.0	3500	227.0	3500
	107.0	242.0	3500	3500	242.0	3500	242.0	3500
	110.0	251.0	3500	3500	251.0	3500	251.0	3500
	119.0	272.0	3500	3400	272.0	3500	262.0	3500
42"	87.0	191.0	3500	3500	191.0	3500	191.0	3500
	91.0	203.0	3500	3500	203.0	3500	203.0	3500
	95.0	212.0	3500	3500	212.0	3500	212.0	3500
	101.0	227.0	3500	3500	227.0	3500	227.0	3500
	107.0	242.0	3500	3500	242.0	3500	242.0	3500
	110.0	251.0	3500	3500	251.0	3500	251.0	3500
	119.0	272.0	3500	3400	272.0	3500	262.0	3500

NOTES:

Above capacities are with Standard 5" x 3.9" load wheels and basearms.

Capacities are for standard "E" U.L. truck. Contact Applications Engineering for capacity on "EE" U.L. truck.

Contact Applications Engineering if you have any questions about the information above, or about a specific truck configuration.



N35ZR HIGHLIFT SHEETS



CAPACITY IS IN POUNDS @ 24 INCH LOAD CENTER

EQUIPPED WITH 42" FORKS & SINGLE REACH CARRIAGE

RATINGS ARE PROVIDED FOR BOTH STANDARD CARRIAGE AND WITH INTEGRAL SIDESHIFTER

36 Volt 16.5" Battery Compartment Minimum Battery Weight - 1700 LBS.

O.E.C.	OALH	MFH	CAPACITY @ MFH		LIFT HEIGHT WITH MAX CAPACITY LOAD			
			w/o SS	INTEGRAL SS	w/o SS		INTEGRAL SIDESHIFTER	
			LOAD	LOAD CENTERED	LIFT HEIGHT	LOAD	LIFT HEIGHT	LOAD CENTERED
34"	87.0	191.0	3500	3500	191.0	3500	191.0	3500
	91.0	203.0	3500	3500	203.0	3500	203.0	3500
	95.0	212.0	3500	3500	212.0	3500	212.0	3500
	101.0	227.0	3500	3500	227.0	3500	227.0	3500
	107.0	242.0	3500	3500	242.0	3500	242.0	3500
	110.0	251.0	3350	3300	246.0	3500	244.0	3500
	119.0	272.0	2800	2750	245.0	3500	245.0	3500
38"	87.0	191.0	3500	3500	191.0	3500	191.0	3500
	91.0	203.0	3500	3500	203.0	3500	203.0	3500
	95.0	212.0	3500	3500	212.0	3500	212.0	3500
	101.0	227.0	3500	3500	227.0	3500	227.0	3500
	107.0	242.0	3500	3500	242.0	3500	242.0	3500
	110.0	251.0	3500	3500	251.0	3500	251.0	3500
	119.0	272.0	3300	3250	265.0	3500	263.0	3500
41"	87.0	191.0	3500	3500	191.0	3500	191.0	3500
	91.0	203.0	3500	3500	203.0	3500	203.0	3500
	95.0	212.0	3500	3500	212.0	3500	212.0	3500
	101.0	227.0	3500	3500	227.0	3500	227.0	3500
	107.0	242.0	3500	3500	242.0	3500	242.0	3500
	110.0	251.0	3500	3500	251.0	3500	251.0	3500
	119.0	272.0	3500	3400	272.0	3500	262.0	3500
42"	87.0	191.0	3500	3500	191.0	3500	191.0	3500
	91.0	203.0	3500	3500	203.0	3500	203.0	3500
	95.0	212.0	3500	3500	212.0	3500	212.0	3500
	101.0	227.0	3500	3500	227.0	3500	227.0	3500
	107.0	242.0	3500	3500	242.0	3500	242.0	3500
	110.0	251.0	3500	3500	251.0	3500	251.0	3500
	119.0	272.0	3500	3400	272.0	3500	262.0	3500

NOTES:

Above capacities are with Standard 5" x 3.9" load wheels and basearms..

Capacities are for standard "E" U.L. truck. Contact Applications Engineering for capacity on "EE" U.L. truck.

Contact Applications Engineering if you have any questions about the information above, or about a specific truck configuration.