

# N30-40ZRS<sub>2</sub>/ZDRS<sub>2</sub> SERIES

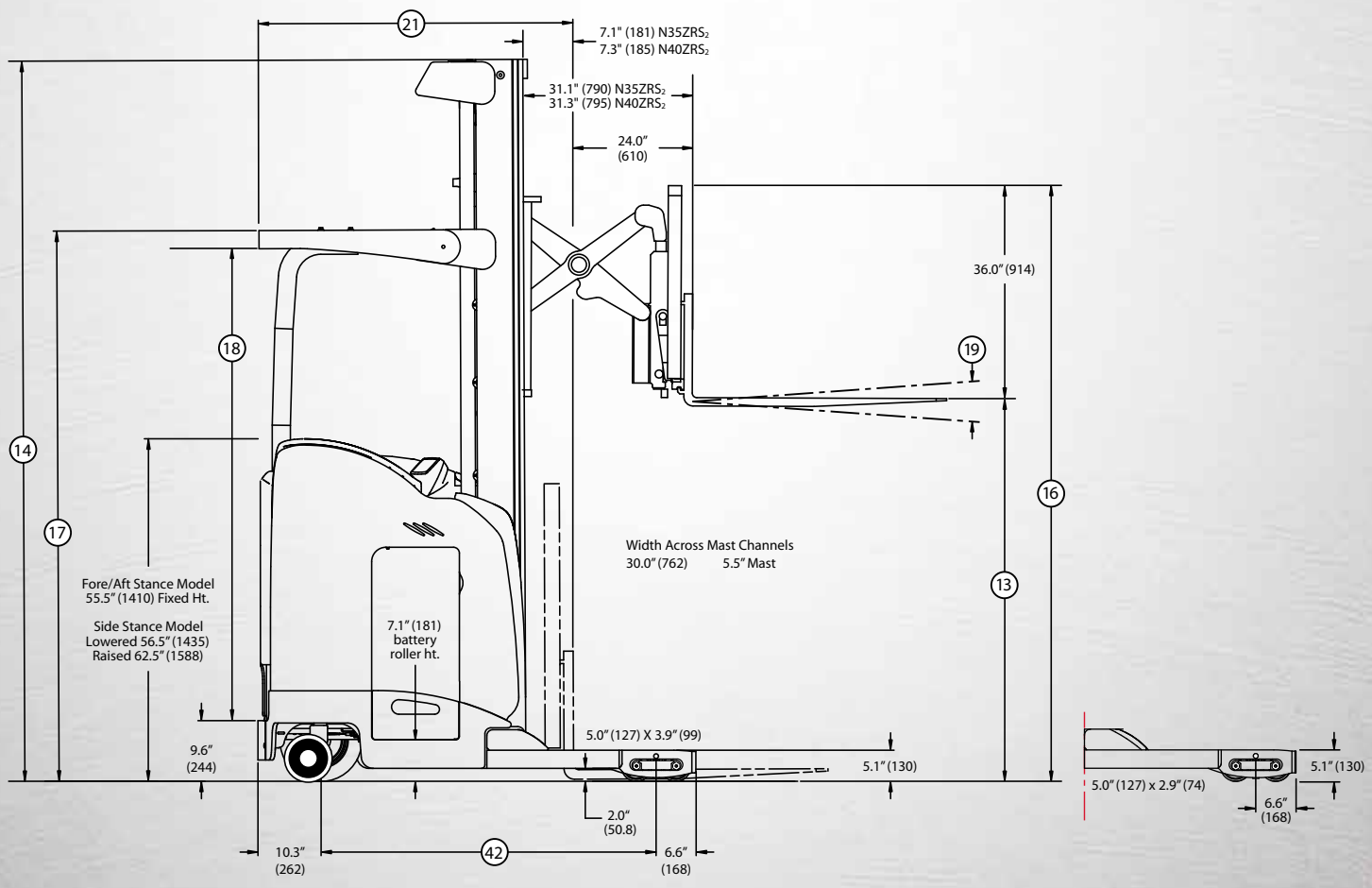
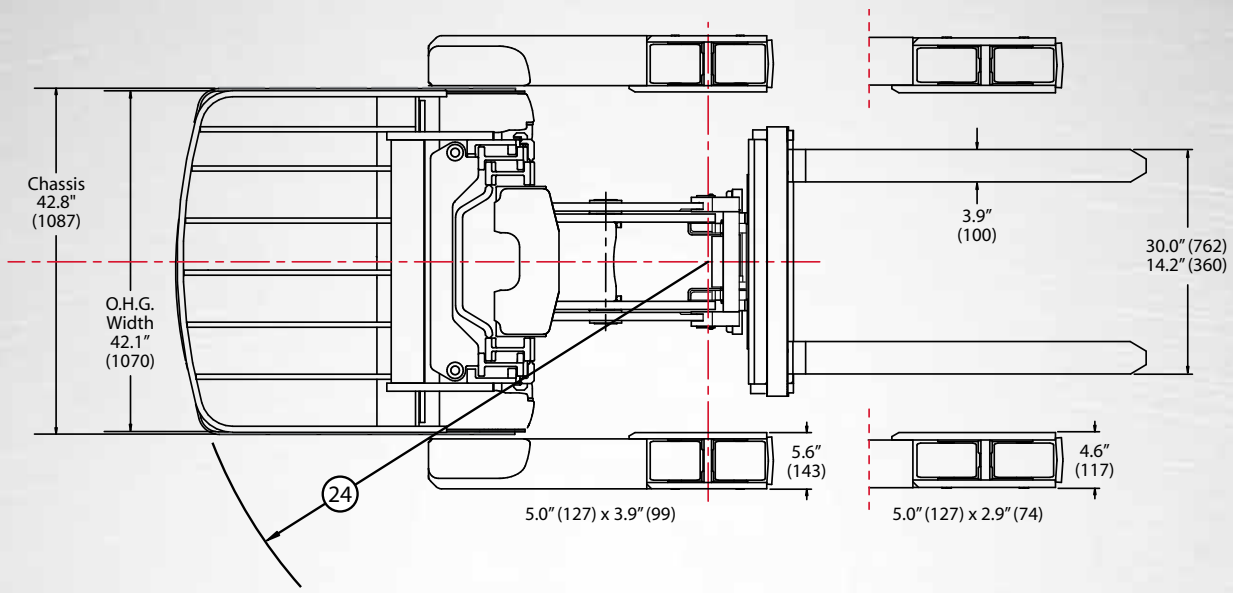


**STRONG PARTNERS.  
TOUGH TRUCKS.™**

## **TECHNICAL GUIDE**

**Narrow Aisle, Single/Double Reach, AC Powered**

# N35-40ZRS<sub>2</sub> DIMENSIONS



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

# N35-40ZRS<sub>2</sub> SPECIFICATIONS

		Hyster Company		Hyster Company		Hyster Company		Hyster Company																																		
		N35ZRS <sub>2</sub>		N35ZRS <sub>2</sub>		N40ZRS <sub>2</sub>		N40ZRS <sub>2</sub>																																		
<b>GENERAL</b>	1	Manufacturer Name	Hyster Company																																							
	2	Model	N35ZRS <sub>2</sub>		N35ZRS <sub>2</sub>		N40ZRS <sub>2</sub>		N40ZRS <sub>2</sub>																																	
	3	Wheel Base Designation	SWB (Short Wheel Base)																																							
	4	Rated Capacity	3500 (1588)				4000 (1814)																																			
	5	Load Center, Distance	24 (610)																																							
	6	Power Type - Electric, Diesel, LPG	Electric - 24 volt		Electric - 36 volt		Electric - 24 volt		Electric - 36 volt																																	
	7	Operator Type	Stand																																							
	8	Tire Type - Load/Caster/Drive	Poly / Poly / Rubber																																							
	9	Wheels, Number Load/Drive (x=driven)	4 / 2 (1x)																																							
<b>WT.</b>	10	Truck Weight, without Battery (approximate)	4950		4950		5000		5000																																	
	11		Front	Rear	Front	Rear	Front	Rear	Front	Rear																																
	12	Axle Loading - Front/Rear with Assemble Retracted **	6750	3800	6750	3800	7400	3700	7400	3700																																
<b>DIMENSIONS</b>	13	Height, Standard Lift (TOF)	See Mast Table																																							
	14	Height, Standard Mast Lowered (OALH)									See Mast Table																															
	15	Height, Freelif (TOF)																	See Mast Table																							
	16	Height, Standard Mast Extended w/LBR																									See Mast Table															
	17	Height, Top of OHG																																	See Mast Table							
	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				1.8 x 3.9 x 42																																			
	21	Headlength to Face of Forks - All Battery Compartments ***	See Mast Table																																							
	22	Basearm OEC	34" - 49" (1" increments)																																							
	23	Battery Compartment Size, 12.5" Battery Compartment - (LxWxH)	39.0 x 12.5 x 31.5																																							
		Battery Compartment Size, 14.5" Battery Compartment - (LxWxH)	39.0 x 14.5 x 31.5																																							
		Battery Compartment Size, 16.5" Battery Compartment - (LxWxH)	39.0 x 16.5 x 31.5																																							
	24	Turning Radius - minimum outside, 12.5" Battery Compartment	65.74																																							
		Turning Radius - minimum outside, 14.5" Battery Compartment	65.74																																							
	Turning Radius - minimum outside, 16.5" Battery Compartment	67.74																																								
25	Aisle Width - Zero Clearance - Right Angle Stack	see chart																																								
26	Stability - Comply with ANSI	See "RAS" Table																																								
<b>PERFORMANCE</b>	27	Travel Speed, Rearward (chassis first) - Empty/RL	Yes																																							
	28	Travel Speed, Forward (forks first) - Empty/RL	Yes																																							
	29	Lift Speeds, Empty	6.5/6.5		6.7/6.5		6.5/6.5		6.7/6.5																																	
	30	Lift Speeds, 2,000 lb.	6.5/6.5		6.7/6.5		6.5/6.0		6.7/6.0																																	
	31	Lift Speeds, 3,000 lb.	60		75		60		75																																	
	32	Lift Speeds, 3,500 lb.	46		54		46		54																																	
	33	Lift Speeds, 4,000 lb.	43		50		43		50																																	
	34	Lift Speeds, 4,500 lb.	40		47		40		47																																	
	35	Lowering Speeds, Empty	N/A																																							
	36	Lowering Speeds, RL	N/A																																							
	<b>WHEELS &amp; TIRES</b>	37	Size - Front Load Wheels, Standard	5 x 3.9																																						
38			Drive	Caster	Drive	Caster	Drive	Caster	Drive	Caster																																
39		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																																
40		Wheelbase - 12.5" Battery Compartment	55.35																																							
		Wheelbase - 14.5" Battery Compartment	55.35																																							
		Wheelbase - 16.5" Battery Compartment	57.36																																							
41		Brakes, Method of Control - Service/Parking	Foot																																							
42		Brakes, Method of Operation - Service/Parking	Spring Apply / Electric Release																																							
<b>ELECTRIC</b>	43	Battery Type	Lead Acid																																							
	44	Traction Motor Rating (60 minute rating)	7.5 (5.6)																																							
	45	Hoist Motor Rating (5 minute rating)	14.8 (11.0)																																							
	46	Traction Motor Control Method	Transistor																																							
	47	Hoist Motor Control Method	Transistor																																							
	48	Number of Speeds	Infinitely Variable																																							

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

\*\*\* Add 1" for Sideshift

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 Company Dealer.



# N30ZDRS<sub>2</sub> SPECIFICATIONS

GENERAL	1	Manufacturer Name	Hyster Company		Hyster Company		
	2	Model	N30ZDRS <sub>2</sub>		N30ZDRS <sub>2</sub>		
	3	Wheel Base Designation	LWB (Long Wheel Base)				
	4	Rated Capacity	lb. (kg)	3000 (1361)			
	5	Load Center, Distance	in. (mm)	24 (610)			
	6	Power Type - Electric, Diesel, LPG		Electric - 24 volt		Electric - 36 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)	lb.	5250			
	11			Front	Rear	Front	Rear
	12	Axle Loading - Front/Rear with Assemble Retracted **	lb.	6300	4050	6300	4050
DIMENSIONS	13	Height, Standard Lift (TOF)	in. (mm)	See Mast Table			
	14	Height, Standard Mast Lowered (DALH)	in. (mm)				
	15	Height, Freelifft (TOF)	in. (mm)				
	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			
	20	Forks, Standard (Length x Width x Thickness)	in.	1.6 x 3.9 x 42			
	21	Headlength to Face of Forks - All Battery Compartments ***	in. (mm)	See Mast Table			
	22	Basearm OEC	in.	34" - 49" (1" increments)			
	23	Battery Compartment Size, 12.5" Battery Compartment - (LxWxH)	in.	N/A			
		Battery Compartment Size, 14.5" Battery Compartment - (LxWxH)	in.	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			
	24	Turning Radius - minimum outside, 12.5" Battery Compartment	in.	N/A			
		Turning Radius - minimum outside, 14.5" Battery Compartment	in.	70.74			
	Turning Radius - minimum outside, 16.5" Battery Compartment	in.	72.74				
25	Aisle Width - Zero Clearance - Right Angle Stack	see chart	See "RAS" Table				
26	Stability - Comply with ANSI		Yes				
PERFORMANCE	27	Travel Speed, Rearward (chassis first) - Empty/RL	mph	6.5/6.5		6.7/6.7	
	28	Travel Speed, Forward (forks first) - Empty/RL	mph	6.5/6.5		6.7/6.7	
	29	Lift Speeds, Empty	ft./min	60		75	
	30	Lift Speeds, 2,000 lb.	ft./min	44		51	
	31	Lift Speeds, 3,000 lb.	ft./min	40		47	
	32	Lift Speeds, 3,500 lb.	ft./min	N/A			
	33	Lift Speeds, 4,000 lb.	ft./min	N/A			
	34	Lift Speeds, 4,500 lb.	ft./min	N/A			
	35	Lowering Speeds, Empty	ft./min	85			
	36	Lowering Speeds, RL	ft./min	85			
WHEELS & TIRES	37	Size - Front Load Wheels, Standard		5 x 2.9			
	38			Drive	Caster	Drive	Caster
	39	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
	40	Wheelbase - 12.5" Battery Compartment	in.	N/A			
		Wheelbase - 14.5" Battery Compartment	in.	60.35			
		Wheelbase - 16.5" Battery Compartment	in.	62.36			
	41	Brakes, Method of Control - Service/Parking		Foot			
42	Brakes, Method of Operation - Service/Parking		Spring Apply / Electric Release				
ELECTRIC	43	Battery Type		Lead Acid			
	44	Traction Motor Rating (60 minute rating)	hp (kw)	7.5 (5.6)			
	45	Hoist Motor Rating (5 minute rating)	hp (kw)	14.8 (11.0)			
	46	Traction Motor Control Method		Transistor			
	47	Hoist Motor Control Method		Transistor			
	48	Number of Speeds		Infinitely Variable			

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

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.

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# MAST DIMENSIONS AND BATTERY SPECIFICATIONS

## MAST DIMENSIONS (5.5" STANDARD DUTY)

Maximum Fork Height (TOF)	Overall Lowered Ht.	Overall Height (Mast Extended) Highest Point w/ 36" Load Backrest	Free-Lift (TOF)	Overhead Guard Height to Top	Operator Clearance	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
in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)				
<b>3-STAGE FULL FREE-LIFT (FFL) VISTA™ MAST</b>									
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<sub>2</sub>

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

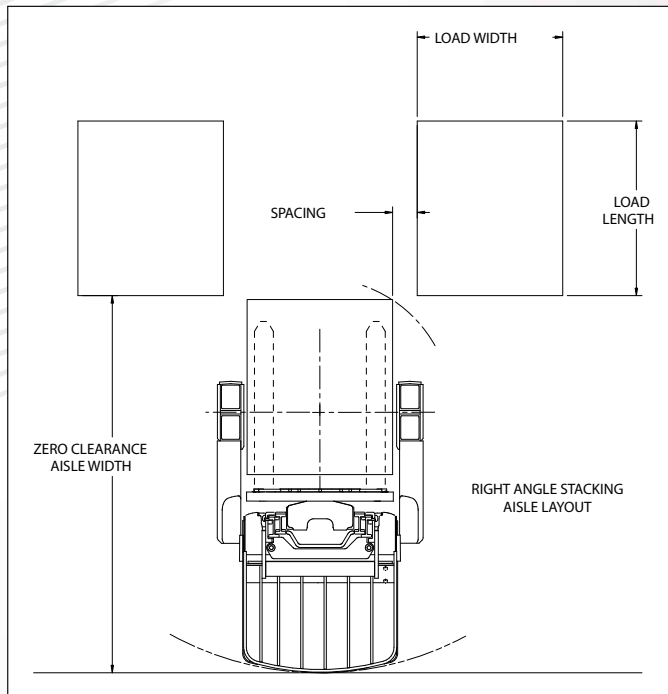
### N30ZDRS<sub>2</sub>

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

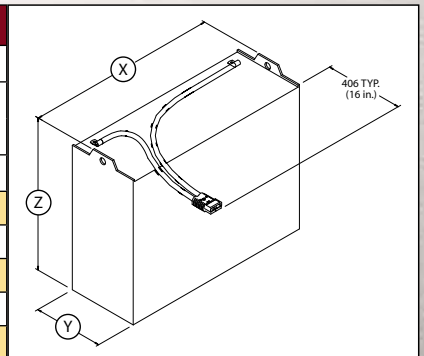
Add 2" for 16.5" Battery Compartment; Sideshift is Standard on Double Reach



## 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"; Lead Length 16"  
 Manufacturers Standard Cable Size Not to Exceed 4/0 AWG

# STANDARD FEATURES AND OPTIONS

## 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<sub>2</sub> and N40ZRS<sub>2</sub>)
- Double Reach Mast (42" Extend) with 33.5" Wide Class II Hook Type Carriage (Standard on N30ZDRS<sub>2</sub>)
- Forks: 1.8" x 3.9" (45 mm x 100 mm) 42" (1067 mm) – Class II Hook Type (Standard on N40ZRS<sub>2</sub>)
- Forks: 1.6" x 3.9" (40 mm x 100 mm) 42" (1067 mm) – Class II Hook Type (Standard on N30ZDRS<sub>2</sub> and N35ZRS<sub>2</sub>)
- 5" x 3.9" Poly Articulating Tandem Load Wheels - High Load Compound (Standard on N35ZRS<sub>2</sub> and N40ZRS<sub>2</sub>)
- 5" x 2.9" Poly Articulating Tandem Load Wheels - High Load Compound (Standard on N30ZDRS<sub>2</sub>)
- Integral Sideshift for Standard 33.5" Wide Carriage- 7" Total Sideshift Travel (Standard on N30ZDRS<sub>2</sub>)
- AC Traction, Lift / Lower and Steering
- Low Step Height
- Transistor Controller with Regenerative Braking
- i<sup>3</sup> Technology™
- 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
- Power Disconnect
- 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
- Control Handle with Simultaneous Hydraulic Functions
- Graphic LCD Multifunction Smart Display with:
  - Back lighting
  - Bar Graphic Battery Discharge Indicator and Lift Interrupt
  - Hour Meter; Truck, Traction and Hoist Pump
  - Performance Mode selection and Indication with lift interrupt
  - LED Status Indicators with symbols
  - Programmable Performance Modes
  - User passwords and Operator logs with history
  - Steer Wheel Angle Graphic Indication
  - Truck Inspection Check List
  - Truck Speed Indication in MPH or KPH
- Electronic Horn
- Static Discharge Strap
- Operator's Manual
- UL Classification E

## OPTIONAL EQUIPMENT

- Side Stance Operator Controls
- Reverse Steering
- Steered Caster - Electric (for 36V only)
- Keyless Start
- 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

## CAPACITY

**Model N30ZDRS<sub>2</sub>:** 3,000 lbs. at 24.0" (1,361 kg at 610 mm) load center.

**Model N35ZRS<sub>2</sub>:** 3,500 lbs. at 24.0" (1,588 kg at 610 mm) load center.

**Model N40ZRS<sub>2</sub>:** 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<sub>2</sub>]
- 1.6" x 3.9" (40 mm x 100 mm) 42" (1067 mm) long forks [N35ZRS<sub>2</sub> and N30ZDRS<sub>2</sub>]
- 5" x 3.9" poly articulating tandem load wheels [N35ZRS<sub>2</sub> and N40ZRS<sub>2</sub>]
- 5" x 2.9" poly articulating tandem load wheels [N30ZDRS<sub>2</sub>]

# STANDARD FEATURES AND OPTIONS

## 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.

N40ZRS<sub>2</sub>: 1.8" x 3.9" x 36", 42", 48" (45 mm x 100 mm x 914 mm, 1067 mm, or 1219 mm)

N30ZDRS<sub>2</sub> / N35ZRS<sub>2</sub>: 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 performance parameters utilized by the Next Generation of reach trucks offers a high degree of customization for specific applications, optimizing unit and operator efficiency to match application requirements.

Hyster® i<sup>3</sup> Technology™ offers simple on-board parameter adjustment, diagnostics and interface for operators, supervisors and service personnel.

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 multifunction handle, steer tiller assembly, dash display, key switch and power disconnect.

The Fore/Aft stance multifunction 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 multifunction control handle assembly offers palm rest, thumb rest, and large function buttons. The Side stance option comes standard with adjustable armrest, backrest, and additional storage compartment. 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 driver modes are available; Modes 4, 3, 2, and 1. Mode 4 provides maximum acceleration and travel speeds. Mode 3 provides high travel speeds at reduced acceleration. Mode 2 reduces travel speeds and acceleration further. Mode 1 reduces travel speed by 40% 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 horizontal adjustment of 3" in and out 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.



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