

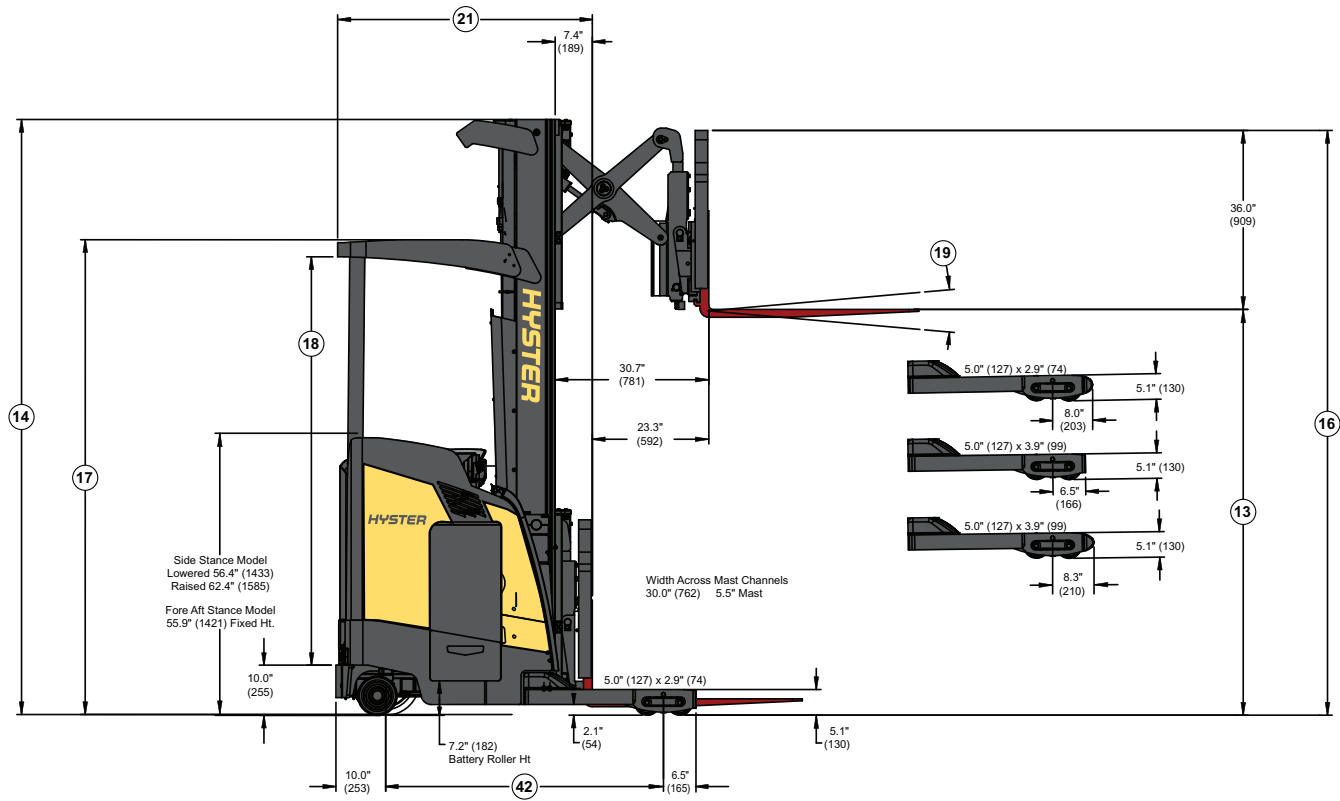
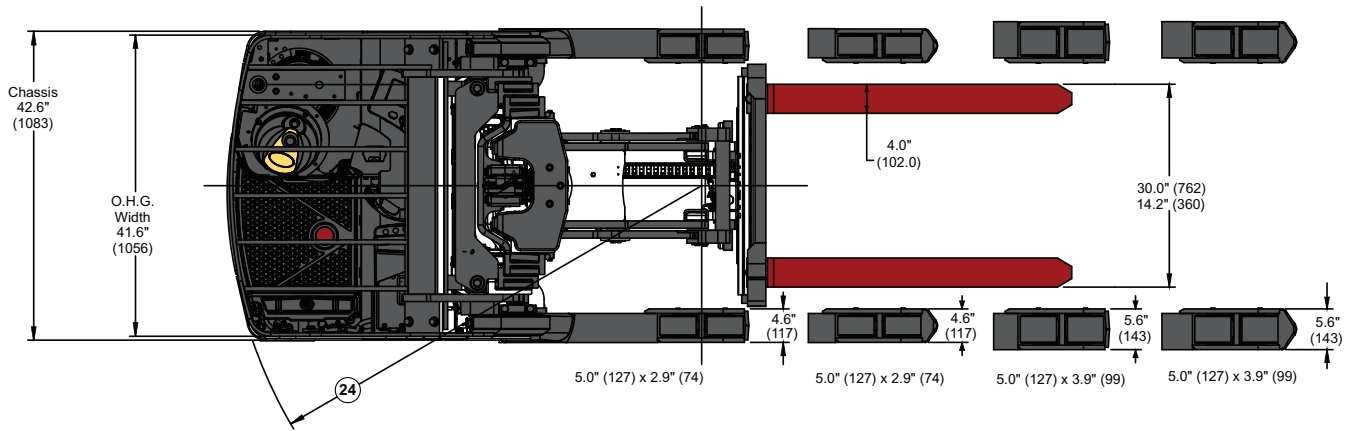


N35-40ZRS3 AND N30ZDRS3

NARROW AISLE REACH TRUCK
PRODUCT TECHNICAL GUIDE



N35-40ZRS3 DIMENSIONS



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

N35-40ZRS3 SPECIFICATIONS

GENERAL	1	Manufacturer name	Hyster Company				
	2	Model	N35ZRS3		N40ZRS3		
	3	Wheel base designation ¹	SWB		SWB		
	4	Rated capacity	3500 (1588)		4000 (1814)		
	5	Load center, distance	in (mm) 24 (610)				
	6	Power type - electric, diesel, LPG	Electric - 24V	Electric - 36V	Electric - 24V	Electric - 36V	
	7	Operator type	Stand				
	8	Tire type - load/caster/drive	Poly/Poly/Poly				
	9	Wheels, number load/drive (x=driven)	4/2 (1x)				
WT.	10	Truck weight, without battery (approximate)	lb 5340				
	12	Axle loading with assembly retracted (front/rear) ²	lb 6773/4160		7373/4082		
	13	Height, Standard Lift (TOF)	in (mm)				
	14	Height, Standard Mast Lowered (OALH)	in (mm)				
	15	Height, Freelift (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		3/4		
	20	Forks, standard (length x width x thickness)	in 1.60 x 3.9 x 42		1.80 x 3.9 x 42		
	21	Headlength to face of forks - all battery compartments ³	in (mm) See mast table				
	22	Basearm OEC	in 34" - 49" (1" increments)				
	23	Battery compartment size, 12.5" battery compartment - (LxWxH)	39.0 x 12.5 x 31.5				
		Battery compartment size, 14.25" battery compartment - (LxWxH)	39.0 x 14.25 x 31.5				
		Battery compartment size, 16.25" battery compartment - (LxWxH)	39.0 x 16.25 x 31.5				
	24	Turning radius - minimum outside, 12.5" battery compartment	in 65.67				
		Turning radius - minimum outside, 14.25" battery compartment	in 65.67				
Turning radius - minimum outside, 16.25" battery compartment		in 67.60					
25	Aisle width - zero clearance - right angle stack	see chart					
26	Stability - comply with ANSI	See "RAS" table					
PERFORMANCE	Travel speed						
	28	Rearward (chassis first) - Empty/RL	mph	6.5/6.5		6.5/6.5	
	29	Forward (forks first) - Empty/RL	mph	6.5/6.0 †		6.5/6.0 †	
	Lift speed						
	31	Empty	ft/min	66	77	66 77	
	32	2,000 lb	ft/min	50	65	50 63	
	33	3,000 lb	ft/min	40	60	43 57	
	34	3,500 lb	ft/min	37	56	40 53	
	35	4,000 lb	ft/min	N/A		35 50	
	36	4,500 lb	ft/min	N/A			
	37	Lowering speeds, empty	ft/min	85			
	38	Lowering speeds, RL	ft/min	85			
WHEELS & TIRES	39	Size - front load wheels, standard	5 x 3.9				
	41	Size, standard - drive tire/dual casters	13.5 x 5.5 / 7.9 x 2.2				
	42	Wheelbase - 12.5" battery compartment	in 55.6				
	42	Wheelbase - 14.25" battery compartment	in 55.6				
	42	Wheelbase - 16.25" battery compartment	in 57.6				
43	Brakes, service/parking (method of control)	Foot/Auto					
44	Brake, service/parking (method of operation)	Regen/Spring Apply (electric release)					
ELECTRIC	45	Battery type	Lead acid Thin Plate Pure Lead ⁴ Lithium-ion ⁴				
	46	Traction motor rating (60 minute rating)	hp (kw)	8 (6)	8.9 (6.6)	8 (6) 8.9 (6.6)	
	47	Hoist motor rating (5 minute rating)	hp (kw)	11.1 (8.3)	17.7 (13.2)	11.1 (8.3) 17.7 (13.2)	
	48	Traction motor control method	Transistor				
	49	Hoist motor control method	Transistor				
	50	Number of speeds	Infinitely variable				

SWB = Short Wheel Base; LWB = Long Wheel Base

¹ Short or long wheelbase is for double reach only. LWB for double reach masts 278" and below.

² Static with rated load and max. wt. battery

³ Includes integral sideshift, subtract 1" for without sideshift

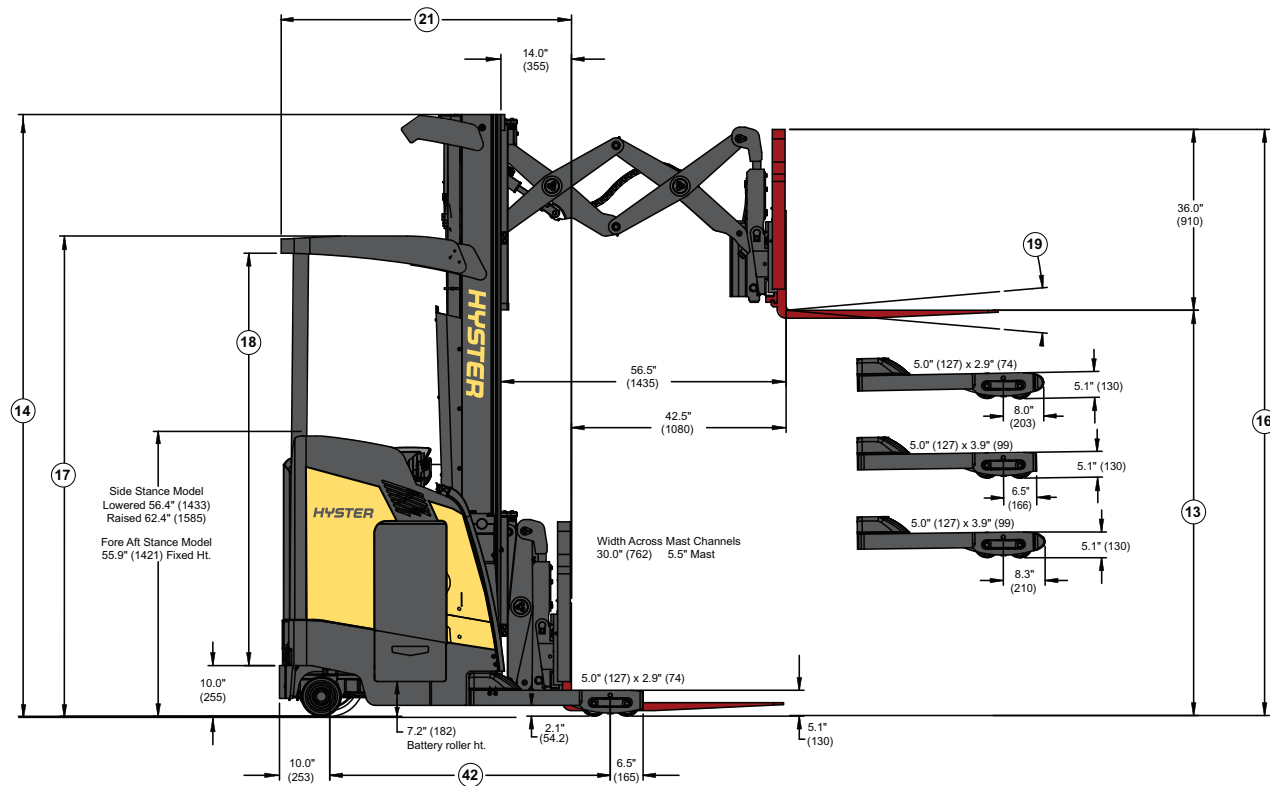
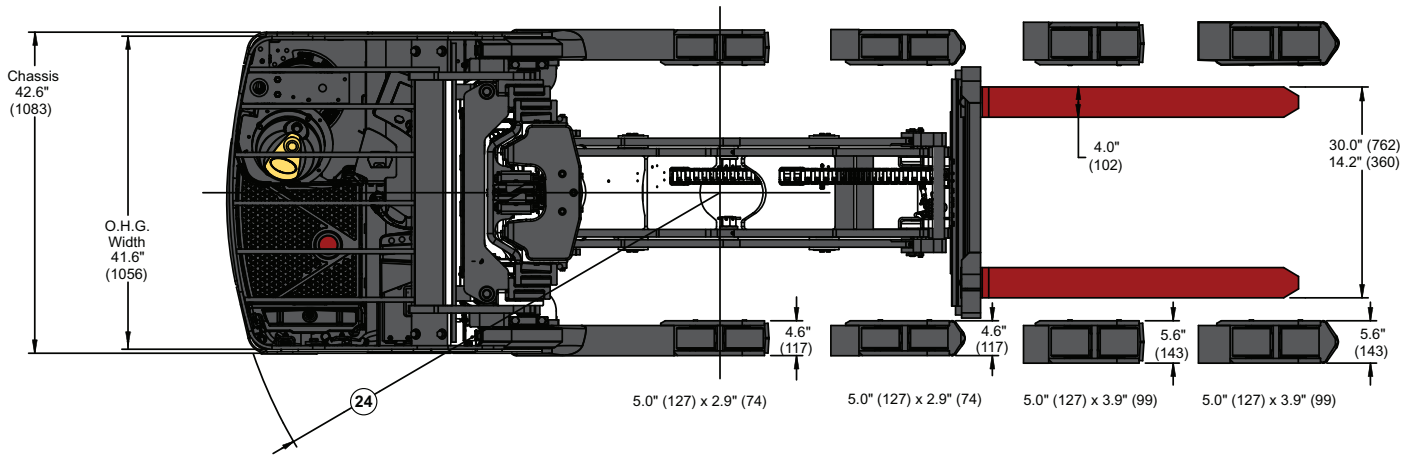
⁴ Optional with Hyster Power Collect™

† Travel speed is reduced to 6.0 mph for loads 2500 lbs and greater in the forks leading direction.

CERTIFICATION: Hyster lift trucks meet the design and construction requirements of B56.1-1969, per OSHA Section 1910.178(a)(2), and also comply with the B56.1 revision in effect at time of manufacture.

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.

N30ZDRS3 DIMENSIONS



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

N30ZDRS3 SPECIFICATIONS

GENERAL	1	Manufacturer name		Hyster Company	
	2	Model		N30ZDRS3	
	3	Wheel base designation ¹		LWB	
	4	Rated capacity	lb (kg)	3000 (1361)	
	5	Load center, distance	in (mm)	24 (610)	
	6	Power type - electric, diesel, LPG		Electric - 24V Electric - 36V	
WT.	7	Operator type		Stand	
	8	Tire type - load/caster/drive		Poly/Poly/Poly	
	9	Wheels, number load/drive (x=driven)		4/2 (1x)	
	10	Truck weight, without battery (approximate)	lb	5590	
	12	Axle loading with assembly retracted (front/rear) ²	lb	6353/4330	
	13	Height, Standard Lift (TOF)	in (mm)	See mast table	
	14	Height, Standard Mast Lowered (OALH)	in (mm)		
	15	Height, Freelift (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		
PERFORMANCE	20	Forks, standard (length x width x thickness)	in	1.60 x 3.9 x 42	
	21	Headlength to face of forks - all battery compartments ³	in (mm)	See mast table	
	22	Basearm OEC	in	34"- 49" (1" increments)	
	23	Battery compartment size, 12.5" battery compartment - (LxWxH)		N/A	
		Battery compartment size, 14.25" battery compartment - (LxWxH)	in	39.0 x 14.25 x 31.5	
		Battery compartment size, 16.25" battery compartment - (LxWxH)	in	39.0 x 16.25 x 31.5	
	24	Turning radius - minimum outside, 12.5" battery compartment	in	N/A	
		Turning radius - minimum outside, 14.25" battery compartment	in	70.47	
		Turning radius - minimum outside, 16.25" battery compartment	in	72.40	
	25	Aisle width - zero clearance - right angle stack	see chart	See "RAS" Table	
	26	Stability - Comply with ANSI		YES	
	WHEELS & TIRES	Travel speed			
		28	Rearward (chassis first) - Empty/RL	mph	6.5/6.5
		29	Forward (forks first) - Empty/RL	mph	6.5/6.0 †
Lift speed					
31		Empty	ft/min	66 77	
32		2,000 lb	ft/min	52 65	
33		3,000 lb	ft/min	45 57	
34		3,500 lb	ft/min	N/A N/A	
35		4,000 lb	ft/min	N/A N/A	
36		4,500 lb	ft/min	N/A N/A	
37	Lowering speeds, empty	ft/min	85 85		
38	Lowering speeds, RL	ft/min	85 85		
ELECTRIC	39	Size - front load wheels, standard		5 x 2.9	
	41	Size, standard - drive tire/dual casters		13.5 x 5.5 / 7.9 x 2.2 13.5 x 5.5 / 7.9 x 2.2	
	42	Wheelbase - 12.5" battery compartment	in	N/A	
		Wheelbase - 14.25" battery compartment	in	60.6	
		Wheelbase - 16.25" battery compartment	in	62.6	
	43	Brakes, service/parking (method of control)		Foot/Auto	
44	Brake, service/parking (method of operation)		Regen/Spring Apply (electric release)		
ELECTRIC	45	Battery type		Lead acid Thin Plate Pure Lead ⁴ Lithium-ion ⁴	
	46	Traction motor rating (60 minute rating)	hp (kw)	8 (6) 8.9 (6.6)	
	47	Hoist motor rating (5 minute rating)	hp (kw)	11.1 (8.3) 17.7 (13.2)	
	48	Traction motor control method		Transistor	
	49	Hoist motor control method		Transistor	
	50	Number of speeds		Infinitely Variable	

SWB = Short Wheel Base; LWB = Long Wheel Base

¹ Short or long wheelbase is for double reach only. LWB for double reach masts 278" and below.

² Static with rated load and max. wt. battery

³ Includes integral sideshift, subtract 1" for without sideshift

⁴ Optional with Hyster Power Collect™

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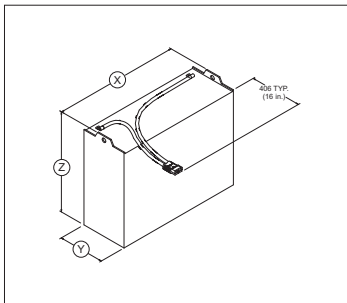
MAST AND BATTERY DIMENSIONS

N35-40ZRS3 & N30ZDRS3 MAST DIMENSIONS (5.5" STANDARD)

Overall lowered height	Max. fork height (TOF)	Free-lift (TOF)	Overall height (mast extended) highest point w/36" LBR	Overhead guard height to top	Operator clearance	Head length (length to face of forks)			
						12.5" or 14.25"	14.25"	16.25"	
in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	Single reach	Double reach	Single reach	Double reach
3-STAGE FULL FREE-LIFT (FFL) VISTA™ MAST									
87 (2210)	191 (4851)	48 (1219)	230 (5842)	87 (2212)	74.3 (1887)	52.16	57.83	54.21	59.88
91 (2311)	203 (5156)	52 (1321)	242 (6147)	91 (2314)	78.3 (1989)	52.16	57.83	54.21	59.88
95 (2413)	212 (5385)	56 (1422)	251 (6375)	95 (2416)	82.3 (2090)	52.16	57.83	54.21	59.88
101 (2565)	227 (5766)	62 (1575)	266 (6756)	95 (2416)	82.3 (2090)	52.16	57.83	54.21	59.88
107 (2718)	242 (6147)	68 (1727)	281 (7137)	95 (2416)	82.3 (2090)	52.16	57.83	54.21	59.88
110 (2794)	251 (6375)	71 (1803)	290 (7366)	95 (2416)	82.3 (2090)	52.16	57.83	54.21	59.88
119 (3023)	272 (6909)	80 (2032)	311 (7899)	95 (2416)	82.3 (2090)	52.16	57.83	54.21	59.88

BATTERY AND COMPARTMENT SPECIFICATIONS

Battery compartment size	Battery voltage	Maximum 6 hr rate		Battery compartment dimensions						Battery dimensions						Minimum batt. wt.	Maximum batt. wt.
				"X" Max.		"Y" Max.		"Z" Max.		"X" Max.		"Y" Max.		"Z" Max.			
		AH	KWH	in	(mm)	in	(mm)	in	(mm)	in	(mm)	in	(mm)	in	(mm)	in	(mm)
12.50"	24	1085	25.4	39.0	990	12.5	318	31.5	800	38.8	985	12.25	311	31	788	1400 (635)	1900 (862)
14.25"	24	1240	29	39.0	990	14.25	362	31.5	800	38.8	985	14	356	31	788	1600 (726)	2100 (953)
14.25"	36	775	27.2	39.0	990	14.25	362	31.5	800	38.8	985	14	356	31	788	1600 (726)	2100 (953)
16.25"	24	1395	32.6	39.0	990	16.25	413	31.5	800	38.8	985	16	406	31	788	1850 (839)	2350 (1066)
16.25"	36	930	32.6	39.0	990	16.25	413	31.5	800	38.8	985	16	406	31	788	1850 (839)	2350 (1066)



Battery connector: 24V - red; 36V - gray; Position "B", lead length 16"

Manufacturers standard cable size not to exceed 4/0 AWG

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.

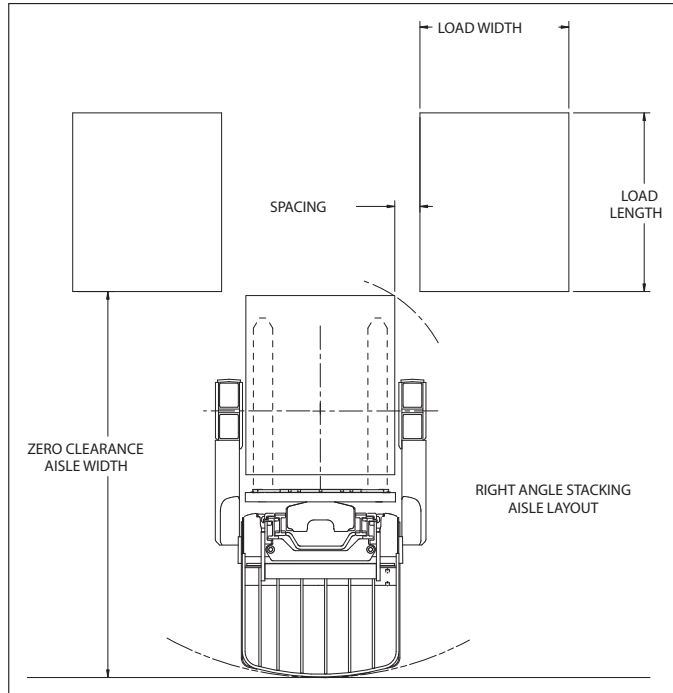
RIGHT ANGLE STACK SPECIFICATIONS

N35/40ZRS3					
12.5" or 14.25" 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	

Subtract 1" if without sideshift
Add 2" for 16.25" battery compartment

N30ZDRS3					
14.25" Battery compartment and 42" ID					
3-stage - 6" between loads					
Pallet length (inches)	Pallet width (inches)				
		36	40	44	48
	36	87	86	86	86
	40	91	90	90	89
	44	96	95	95	94
48	100	100	99	99	

Sideshift is standard on double reach
Add 2" for 16.25" battery compartment



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

FEATURES AND OPTIONS

PERFORMANCE	STD	OPT
24-volt battery (includes 350 amp red battery connector)	x	
AC traction, lift/lower and steering	x	
Transistor controller with regenerative braking	x	
Electric power steering	x	
4 independent fully programmable performance modes - programmable traction speed and acceleration	x	
36-volt battery (includes 350 amp gray battery connector)		x
DRIVE	STD	OPT
5" x 3.9" poly articulating tandem load wheels - high load compound (standard on N35ZRS3 and N40ZRS3)	x	
5" x 2.9" poly articulating tandem load wheels - high load compound (standard on N30ZDRS3)	x	
Dual articulating polyurethane caster wheels	x	
Poly drive tire - 13.5" x 5.5"	x	
Steered caster (SPED)		x
Various sizes of load wheels with sealed bearings		x
Various drive tire compounds		x
Tapered load wheel boxes		x
LIFT	STD	OPT
91"/203"/52" - (5.5") 3-stage full free lift mast	x	
Tilting carriage (3° fwd, 4° back)	x	
Single reach mast (24" extend) with 33.5" wide Class II with integral sideshift (hook type carriage) - Standard Single Reach	x	
Double reach mast (42" extend) with 33.5" wide Class II with integral sideshift (hook type carriage) - Standard Double Deep Reach	x	
36" high load backrest extension	x	
Lift limit		x
48" high load backrest extension		x
Single reach mast without integral sideshift for standard 33.5" wide carriage		x
Various mast heights		x
HANDLING	STD	OPT
Forks: 1.8" x 3.9" (45 mm x 100 mm) 42" (1067 mm) Class II, hook type (standard on N40ZRS3)	x	
Forks: 1.6" x 3.9" (40 mm x 100 mm) 42" (1067 mm) Class II, hook type (standard on N30ZDRS3 and N35ZRS3)	x	
Fully proportional lift/lower control	x	
Control handle with simultaneous hydraulic functions	x	
Load weight display		x
Fork height display		x
Reduced travel speed with carriage extended		x
Various fork lengths		x
ERGONOMICS	STD	OPT
Operator sensing system	x	
Cushion ride floor	x	
Low profile anti-fatigue floor mat	x	
Adjustable armrest and backrest (sidestance operator controls only)	x	
Steer tiller position adjustment	x	
Low step height	x	
Padded operator compartment	x	
5" smart display: color touchscreen	x	
Intelligent Ride™ floor (full suspension floor)		x
7" smart display: color touchscreen		x


ERGONOMICS (continued)	STD	OPT
Operator overhead fan		x
Dual LED headlights		x
Rear LED worklight		x
Operator LED desktop light		x
OPERATION	STD	OPT
Standard construction	x	
UL Classification E	x	
Sidestance operator controls	x	
Key switch start	x	
Wire mesh mast guard	x	
Automotive steering	x	
2 USB ports	x	
Static strap	x	
Electronic horn	x	
Sealed battery rollers	x	
Operator's overhead guard	x	
Rear post operator protection	x	
Power disconnect button	x	
Forward stance with aft operator control handle		x
Reverse steering		x
Clear mast guard		x
Keyless start		x
Rotary joystick (standard for cooler/freezer)		x
Battery gate interlock		x
Cooler/freezer construction (0°F to 120°F) with rubber floor mat		x
Open End Clearance (OEC) - 34" to 49" in 1" increments		x
Audible back-up and motion alarms		x
Visible amber strobe light - continuous activated		x
Impact monitor		x
Blue LED spotlights		x
RF terminal bracket		x
RF handheld scanner holder		x
12-volt DC auxiliary power supply		x
Wire mesh on top overhead guard		x
Rear operator compartment door (SPED)		x
Hyster Tracker™		x
Hyster Reaction™		x
SUPPLEMENTAL	STD	OPT
12 month/unlimited hours full truck warranty	x	
36 month/6,000 hour powertrain warranty	x	
Lifetime frame warranty	x	
Operating manual	x	
ENERGY SYSTEM	STD	OPT
Lead acid	x	
Hyster Power Collect™		x

¹ Sideshift includes 7" travel (3.5" each side). Sideshift travel will be reduced to 3" total (1.5" each side) when open end clearance basearm is less than 39".

² 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. Available only through Hyster® SPED Engineering.



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