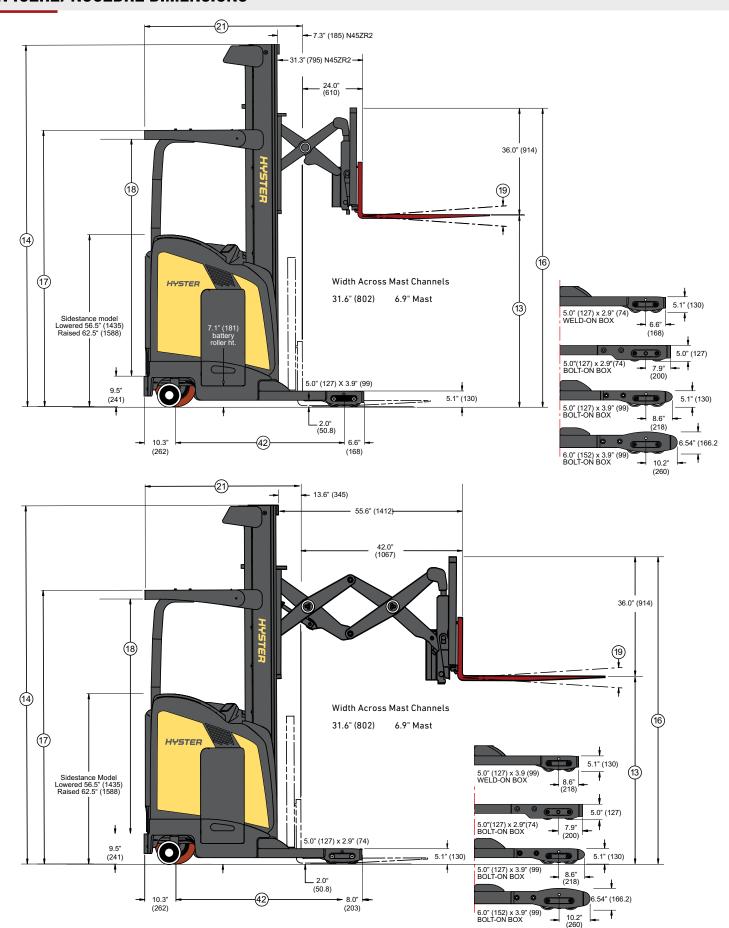


N45ZR2/ N35ZDR2

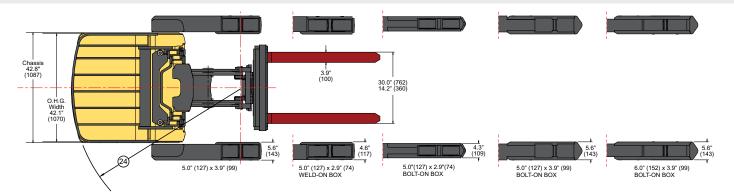
NARROW AISLE REACH TRUCK PRODUCT TECHNICAL GUIDE



N45ZR2/N35ZDR2 DIMENSIONS



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

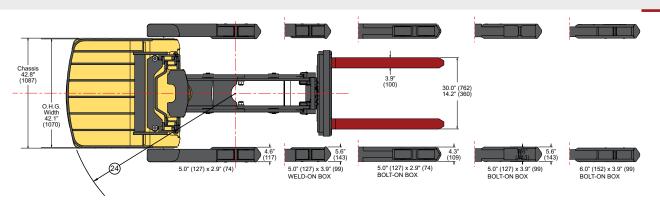


N	457	R2/N35ZDR2 SPECIFICATIONS								
	1	Manufacturer's name			Hyster					
	2	Model		N/57P2	N45ZR2 N35ZDR					
	3	Wheel base designation ¹		SWB	LWB	SWB				
4	4	Rated capacity	lb (kg)	4500 (2041)		(1588)				
GENERAL	5	Load center, distance	in (mm)	4300 (2041)	24 (610)	(1300)				
Ī	6	Power type, electric, diesel, LPG	111 (111111)		Electric - 36 volt					
G	- 0 7	Operator type			Stand					
		Tire type, load/caster/drive		Do						
	8 9	***	Poly / Poly / NDIITHANE®							
	_	Wheels, number load/drive (x = driven)	4 / 2 (1x)	NI/A						
WT.	10	Truck weight, without battery (approximate)	lb.	5400	5650	N/A				
_	12	Axle loading with assembly retracted (front / rear) ²	lb.	8400 / 3800 6700 / 4250						
	13	Height, standard lift (TOF)	in (mm)							
	14	Height, standard mast lowered (OALH)	in (mm)							
	15	Height, freelift (TOF)	in (mm)		See mast table					
	16	Height, standard mast extended w/LBR	in (mm)							
	17	Height, top of OHG	in (mm)							
NS	18	Height, operator clearance	in (mm)							
301	19	Mast tilt angle, forward/back	degrees		3° / 4°					
DIMENSIONS	20	Forks, standard (length x width x thickness)	in	1.80 x 3.9 x 42 1.60 x 3.9 x 42						
Ψ	21	Head length to face of forks - all battery compartments ³	in	See mast table						
	22	Basearm OEC	in	34	"- 49" (1" increments)					
	23	Battery compartment size, 18.5" - (LxWxH)	in		39.0 x 18.5 x 31.5					
		Battery compartment size, 21.5" - (LxWxH)	in	39.0 x 21.5 x 31.5						
	24	Turning radius - min. Outside, 18.5" batt. compartment	in	69.90	74.90	69.90				
		Turning radius - min. Outside, 21.5" batt. compartment	in	72.90	77.90	72.90				
	25	Aisle width - zero clearance - Right Angle Stack			Right Angle Stack					
	26	Stability - comply with ANSI			Yes					
	26 27	Stability - comply with ANSI Travel speed ⁴		Standard	Yes Stan	idard				
	26 27 28	Stability - comply with ANSI Travel speed ⁴ Rearward (chassis first) - empty/RL	mph	7.4/6.5	Yes Stan	/6.8				
	26 27 28 29	Stability - comply with ANSI Travel speed ⁴ Rearward (chassis first) - empty/RL Forward (forks first) - empty/RL	mph mph	7.4/6.5 7.4/5.8	Yes Stan 7.4, 7.4	<mark>/6.8</mark> /6.5				
NCE NCE	26 27 28 29 30	Stability - comply with ANSI Travel speed ⁴ Rearward (chassis first) - empty/RL Forward (forks first) - empty/RL Lift Speed	mph	7.4/6.5 7.4/5.8 Standard	Yes Stan 7.4, 7.4, Stan	<mark>/6.8</mark> /6.5 idard				
MANCE	26 27 28 29 30 31	Stability - comply with ANSI Travel speed ⁴ Rearward (chassis first) - empty/RL Forward (forks first) - empty/RL Lift Speed Empty	mph ft/min	7.4/6.5 7.4/5.8 Standard 130	Yes Stan 7.4, 7.4, Stan 13	<mark>/6.8</mark> /6.5 <mark>dard</mark> 30				
ORMANCE	26 27 28 29 30 31 32	Stability - comply with ANSI Travel speed ⁴ Rearward (chassis first) - empty/RL Forward (forks first) - empty/RL Lift Speed Empty 2000 lb	mph ft/min ft/min	7.4/6.5 7.4/5.8 Standard 130 98	Yes Stan 7.4, 7.4, Stan 13	/6.8 /6.5 idard 30				
RFORMANCE	26 27 28 29 30 31 32 33	Stability - comply with ANSI Travel speed ⁴ Rearward (chassis first) - empty/RL Forward (forks first) - empty/RL Lift Speed Empty 2000 lb 3000 lb	ft/min ft/min	7.4/6.5 7.4/5.8 Standard 130 98 90	Yes Stan 7.4, 7.4, Stan 13 9 8	/6.8 /6.5 idard 30 /3				
PERFORMANCE	26 27 28 29 30 31 32 33 34	Stability - comply with ANSI Travel speed ⁴ Rearward (chassis first) - empty/RL Forward (forks first) - empty/RL Lift Speed Empty 2000 lb 3000 lb 3500 lb	ft/min ft/min ft/min ft/min	7.4/6.5 7.4/5.8 Standard 130 98 90 84	Yes Stan 7.4. 7.4. Stan 9 8 7	/6.8 /6.5 idard 30 /3 /5				
PERFORMANCE	26 27 28 29 30 31 32 33 34 35	Stability - comply with ANSI Travel speed ⁴ Rearward (chassis first) - empty/RL Forward (forks first) - empty/RL Lift Speed Empty 2000 lb 3000 lb 3500 lb 4000 lb	mph ft/min ft/min ft/min ft/min ft/min ft/min	7.4/6.5 7.4/5.8 Standard 130 98 90 84 78	Yes Stan 7.4, 7.4, Stan 13 9 8 7 N.	/6.8 /6.5 idard 30 /3 /5 /A				
PERFORMANCE	26 27 28 29 30 31 32 33 34 35 36	Stability - comply with ANSI Travel speed ⁴ Rearward (chassis first) - empty/RL Forward (forks first) - empty/RL Lift Speed Empty 2000 lb 3000 lb 3500 lb 4000 lb	mph ft/min ft/min ft/min ft/min ft/min ft/min ft/min	7.4/6.5 7.4/5.8 Standard 130 98 90 84	Yes Stan 7.4, 7.4, Stan 13 9 8 7 N.	/6.8 /6.5 idard 30 /3 /5				
PERFORMANCE	26 27 28 29 30 31 32 33 34 35 36 37	Stability - comply with ANSI Travel speed ⁴ Rearward (chassis first) - empty/RL Forward (forks first) - empty/RL Lift Speed Empty 2000 lb 3000 lb 3500 lb 4000 lb 4500 lb Lowering speeds, empty	mph ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min	7.4/6.5 7.4/5.8 Standard 130 98 90 84 78	Yes Stan 7.4, 7.4, Stan 13 9 8 7 N.	/6.8 /6.5 idard 30 /3 /5 /A				
	26 27 28 29 30 31 32 33 34 35 36 37 38	Stability - comply with ANSI Travel speed ⁴ Rearward (chassis first) - empty/RL Forward (forks first) - empty/RL Lift Speed Empty 2000 lb 3000 lb 3500 lb 4000 lb 4500 lb Lowering speeds, empty Lowering speeds, RL	mph ft/min ft/min ft/min ft/min ft/min ft/min ft/min	7.4/6.5 7.4/5.8 Standard 130 98 90 84 78	Yes Stan 7.4, 7.4, Stan 13 9 8 7 N. 105	/6.8 /6.5 idard 330 /3 /5 /9 /A				
	26 27 28 29 30 31 32 33 34 35 36 37 38 39	Stability - comply with ANSI Travel speed ⁴ Rearward (chassis first) - empty/RL Forward (forks first) - empty/RL Lift Speed Empty 2000 lb 3000 lb 3500 lb 4000 lb 4500 lb Lowering speeds, empty Lowering speeds, RL Size - front load wheels, standard	mph ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min	7.4/6.5 7.4/5.8 Standard 130 98 90 84 78 74	Yes Stan 7.4, 7.4, Stan 13 9 8 7 N. 105	/6.8 /6.5 idard 330 /3 /5 /9 /A /A				
	26 27 28 29 30 31 32 33 34 35 36 37 38	Stability - comply with ANSI Travel speed ⁴ Rearward (chassis first) - empty/RL Forward (forks first) - empty/RL Lift Speed Empty 2000 lb 3000 lb 3000 lb 4500 lb 4500 lb Lowering speeds, empty Lowering speeds, RL Size - front load wheels, standard Size, standard - drive tire/dual casters	mph ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min	7.4/6.5 7.4/5.8 Standard 130 98 90 84 78 74 5 x 3.9 13.5 x 5.5 7.9 x	Yes Stan 7.4, 7.4, Stan 13 9 8 7 N. 105 105 2.2 13.5 x 5.5	/6.8 /6.5 dard 33 /5 /9 /A /A x 2.9				
	26 27 28 29 30 31 32 33 34 35 36 37 38 39 41	Stability - comply with ANSI Travel speed ⁴ Rearward (chassis first) - empty/RL Forward (forks first) - empty/RL Lift Speed Empty 2000 lb 3000 lb 3000 lb 4500 lb 4500 lb Lowering speeds, empty Lowering speeds, RL Size - front load wheels, standard Size, standard - drive tire/dual casters Wheelbase - 18.5" battery compartment	mph ft/min	7.4/6.5 7.4/5.8 Standard 130 98 90 84 78 74 5 x 3.9 13.5 x 5.5	Yes Stan 7.4 7.4 Stan 11 9 8 7 N. 105 105 2.2 13.5 × 5.5 64.37	/6.8 /6.5 dard 30 /3 /5 /9 /A /A x 2.9 7.9 x 2.2 59.37				
	26 27 28 29 30 31 32 33 34 35 36 37 38 39 41	Stability - comply with ANSI Travel speed ⁴ Rearward (chassis first) - empty/RL Forward (forks first) - empty/RL Lift Speed Empty 2000 lb 3000 lb 3500 lb 4000 lb 4500 lb Lowering speeds, empty Lowering speeds, RL Size - front load wheels, standard Size, standard - drive tire/dual casters Wheelbase - 18.5" battery compartment Wheelbase - 21.5" battery compartment	mph ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min	7.4/6.5 7.4/5.8 Standard 130 98 90 84 78 74 5 x 3.9 13.5 x 5.5 7.9 x	Yes Stan 7.4 7.4 Stan 11 9 8 7 N. 105 105 2.2 13.5 x 5.5 64.37 67.36	/6.8 /6.5 dard 33 /5 /9 /A /A x 2.9				
	26 27 28 29 30 31 32 33 34 35 36 37 38 39 41 42	Stability - comply with ANSI Travel speed4 Rearward (chassis first) - empty/RL Forward (forks first) - empty/RL Lift Speed Empty 2000 lb 3000 lb 3500 lb 4000 lb 4500 lb Lowering speeds, empty Lowering speeds, RL Size - front load wheels, standard Size, standard - drive tire/dual casters Wheelbase - 18.5" battery compartment Wheelbase - 21.5" battery compartment Brakes, service/parking (method of control)	mph ft/min	7.4/6.5 7.4/5.8 Standard 130 98 90 84 78 74 5 x 3.9 13.5 x 5.5	Yes Stan 7.4, 7.4, Stan 13 9 8 7 N. 105 105 105 2.2 13.5 x 5.5 64.37 67.36 Foot	/6.8 /6.5 dard 30 /3 /5 /9 /A /A x 2.9 7.9 x 2.2 59.37				
WHEELS & TIRES PERFORMANCE	26 27 28 29 30 31 32 33 34 35 36 37 38 39 41 42 43	Stability - comply with ANSI Travel speed4 Rearward (chassis first) - empty/RL Forward (forks first) - empty/RL Lift Speed Empty 2000 lb 3000 lb 3500 lb 4000 lb 4500 lb Lowering speeds, empty Lowering speeds, RL Size - front load wheels, standard Size, standard - drive tire/dual casters Wheelbase - 18.5" battery compartment Wheelbase - 21.5" battery compartment Brakes, service/parking (method of control) Brakes, service/parking (method of operation)	mph ft/min	7.4/6.5 7.4/5.8 Standard 130 98 90 84 78 74 5 x 3.9 13.5 x 5.5	Yes Stan 7.4, 7.4, 1.5 1.	/6.8 /6.5 dard 30 /3 /5 /9 /A /A x 2.9 7.9 x 2.2 59.37				
	26 27 28 29 30 31 32 33 34 35 36 37 38 39 41 42 43 44	Stability - comply with ANSI Travel speed ⁴ Rearward (chassis first) - empty/RL Forward (forks first) - empty/RL Lift Speed Empty 2000 lb 3000 lb 3500 lb 4000 lb 4500 lb Lowering speeds, empty Lowering speeds, RL Size - front load wheels, standard Size, standard - drive tire/dual casters Wheelbase - 18.5" battery compartment Wheelbase - 21.5" battery compartment Brakes, service/parking (method of operation) Battery type	mph ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min in	7.4/6.5 7.4/5.8 Standard 130 98 90 84 78 74 5 x 3.9 13.5 x 5.5	Yes Stan 7.4, 7.4, Stan 13 9 8 7 N. 105 105 2.2 13.5 x 5.5 64.37 67.36 Foot g Apply (Electric Release) Lead Acid	/6.8 /6.5 /dard 330 /3 /5 /9 /A /A x 2.9 7.9 x 2.2 59.37 62.36				
WHEELS & TIRES	26 27 28 29 30 31 32 33 34 35 36 37 38 39 41 42 43 44 45 46	Stability - comply with ANSI Travel speed ⁴ Rearward (chassis first) - empty/RL Forward (forks first) - empty/RL Lift Speed Empty 2000 lb 3000 lb 3500 lb 4000 lb 4500 lb Lowering speeds, empty Lowering speeds, RL Size - front load wheels, standard Size, standard - drive tire/dual casters Wheelbase - 18.5" battery compartment Wheelbase - 21.5" battery compartment Brakes, service/parking (method of control) Brakes, service/parking (method of operation) Battery type Traction motor rating (60 minute rating)	mph ft/min	7.4/6.5 7.4/5.8 Standard 130 98 90 84 78 74 5 x 3.9 13.5 x 5.5	Yes Stan 7.4, 7.4, Stan 13 9 8 7 N. 105 105 2.2 13.5 x 5.5 64.37 67.36 Foot g Apply (Electric Release) Lead Acid 8.7	/6.8 /6.5 dard 30 33 35 59 /A /A × 2.9 7.9 × 2.2 59.37 62.36				
WHEELS & TIRES	26 27 28 29 30 31 32 33 34 35 36 37 38 39 41 42 43 44 45 46 47	Stability - comply with ANSI Travel speed ⁴ Rearward (chassis first) - empty/RL Forward (forks first) - empty/RL Lift Speed Empty 2000 lb 3000 lb 3500 lb 4000 lb 4500 lb Lowering speeds, empty Lowering speeds, RL Size - front load wheels, standard Size, standard - drive tire/dual casters Wheelbase - 18.5" battery compartment Wheelbase - 21.5" battery compartment Brakes, service/parking (method of control) Brakes, service/parking (method of operation) Battery type Traction motor rating (60 minute rating) Hoist motor rating (5 minute rating)	mph ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min in	7.4/6.5 7.4/5.8 Standard 130 98 90 84 78 74 5 x 3.9 13.5 x 5.5	Yes Stan 7.4, 7.4, 7.4, Stan 13, 9 105 105 105 105 64.37 67.36 Foot g Apply (Electric Release) Lead Acid 8.7 20.7	/6.8 /6.5 /dard 330 /3 /5 /9 /A /A x 2.9 7.9 x 2.2 59.37 62.36				
WHEELS & TIRES	26 27 28 29 30 31 32 33 34 35 36 37 38 39 41 42 43 44 45 46 47 48	Stability - comply with ANSI Travel speed ⁴ Rearward (chassis first) - empty/RL Forward (forks first) - empty/RL Lift Speed Empty 2000 lb 3000 lb 3000 lb 4500 lb Lowering speeds, empty Lowering speeds, RL Size - front load wheels, standard Size, standard - drive tire/dual casters Wheelbase - 18.5" battery compartment Wheelbase - 21.5" battery compartment Brakes, service/parking (method of control) Brakes, service/parking (method of operation) Battery type Traction motor rating (5 minute rating) Hoist motor rating (5 minute rating) Traction motor control method	mph ft/min	7.4/6.5 7.4/5.8 Standard 130 98 90 84 78 74 5 x 3.9 13.5 x 5.5	Yes Stan 7.4, 7.4, 7.4, Stan 13, 9 8 7 105 105 105 5 2.2 13.5 x 5.5 64.37 67.36 Foot G Apply (Electric Release) Lead Acid 8.7 20.7 Transistor	/6.8 /6.5 dard 30 33 35 59 /A /A × 2.9 7.9 × 2.2 59.37 62.36				
	26 27 28 29 30 31 32 33 34 35 36 37 38 39 41 42 43 44 45 46 47	Stability - comply with ANSI Travel speed ⁴ Rearward (chassis first) - empty/RL Forward (forks first) - empty/RL Lift Speed Empty 2000 lb 3000 lb 3500 lb 4000 lb 4500 lb Lowering speeds, empty Lowering speeds, RL Size - front load wheels, standard Size, standard - drive tire/dual casters Wheelbase - 18.5" battery compartment Wheelbase - 21.5" battery compartment Brakes, service/parking (method of control) Brakes, service/parking (method of operation) Battery type Traction motor rating (60 minute rating) Hoist motor rating (5 minute rating)	mph ft/min	7.4/6.5 7.4/5.8 Standard 130 98 90 84 78 74 5 x 3.9 13.5 x 5.5	Yes Stan 7.4, 7.4, 7.4, Stan 13, 9 105 105 105 105 64.37 67.36 Foot g Apply (Electric Release) Lead Acid 8.7 20.7	/6.8 /6.5 dard 30 33 35 59 /A /A × 2.9 7.9 × 2.2 59.37 62.36				

Short or Long Wheelbase is determined by Mast Height, LWB for 332" Max Fork Height and Below
 Static with Rated Load and Max. Wt. Battery
 Includes integral sideshift, subtract 1" for without sideshift

⁴ Travel speed will be reduced to 6.8 / 5.8 mph (empty / rated load) with MFHs above 341" in the Rearward and Forward direction. 7.4 mph travel speed is limited to Load up to 2500 lbs.

N45ZR2/N35ZDR2 SPECIFICATIONS



N45ZR2/N35ZDR2 MAST DIMENSIONS (6.9" MAST)											
Max. Fork Height	Overall Lowered	Overall Height (Mast Extended) Highest Point	Free-Lift	Overhead Guard Height to Top	Operator Clearance	Head Length (Length to Face of Forks)					
(TOF)	Ht.	w/36" LBR	(TOF)		Clearance	18.5	B.C.	21.5" B.C.			
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										
272 (6909)	119 (3023)	311 (7899)	80 (2032)	91 (2311)	79.8 (2027)	59.60	65.50	62.59	68.50		
287 (7290)	125 (3175)	326 (8280)	86 (2184)	91 (2311)	79.8 (2027)	59.60	65.50	62.59	68.50		
302 (7671)	131 (3327)	341 (8661)	92 (2337)	91 (2311)	79.8 (2027)	59.60	65.50	62.59	68.50		
320 (8128)	138 (3505)	359 (9119)	99 (2515)	91 (2311)	79.8 (2027)	59.60	65.50	62.59	68.50		
332 (8433)	143 (3632)	371 (9423)	104 (2642)	91 (2311)	79.8 (2027)	59.60	65.50	62.59	68.50		
341 (8661)	146 (3708)	380 (9652)	107 (2718)	91 (2311)	79.8 (2027)	59.60	65.50	62.59	68.50		
368 (9347)	157 (3988)	407 (10338)	118 (2997)	91 (2311)	79.8 (2027)	59.60	65.50	62.59	68.50		
401 (10185)	170 (4318)	440 (11176)	131 (3327)	91 (2311)	79.8 (2027)	59.60	65.50	62.59	68.50		
422 (10719)	179 (4547)	461 (11709)	140 (3556)	91 (2311)	79.8 (2027)	59.60	65.50	62.59	68.50		

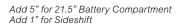
N45ZR2/N35ZDR2 BATTERY SPECIFICATIONS												
Battery Compartment	Pottory		mum		В	attery Di	mensio	15		Minimum	Maximum	
Size	Battery Voltage	6 Hr Rate		"X" Max.		"Y" Max.		"Z" Max.		Batt. Wt.	Batt. Wt.	
in (mm)		AH	KWH	in	(mm)	in	(mm)	in	(mm)	lb (kg)	lb (kg)	
18.5 (469.9)	36	1085	38.1	38.8	(985)	18.25	(464)	31.0	(788)	2200 (998)	2800 (1270)	
21.5 (546.1)	36	1240	43.5	38.8	(985)	21.25	(540)	31.0	(788)	2500 (1134)	3100 (1406)	

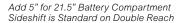
Battery connector: 36v - gray; position "B", lead length 16"
Manufacturers standard cable size not to exceed 4/0 AWG
Battery compartment is designed to accommodate standard wet cell batteries with fixed lifting eyes and no cover.

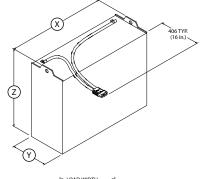
Battery compartment is designed to accommodate standard wet cell batteries with fixed lifting eyes and no cover.

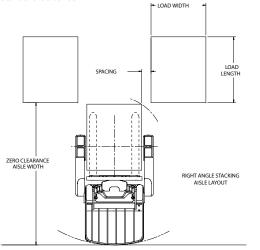
Contact Applications Engineering to verify compatibility/fit when using maintenance free, covered or non-standard batteries.

N45ZR2/N35ZDR2 RIGHT ANGLE AISLE STACKING											
	N35ZDR2										
Truck with 18.5" Battery Compartment and 42" ID						Truck with 18.5" battery compartment and 42" ID					
3	Stage -	4" Betv	ween Lo	ads		3	Stage -	6" Bet	ween L	oads	
		Pallet \	Width (inches)				Pallet Width (inches)			
		36"	40"	44"	48"	Pallet		36"	40"	44"	48"
Pallet	36"	90	90	89	89		36"	94	93	93	93
Length (inches)	40"	95	94	94	93	Length (inches)	40"	98	98	97	96
	44"	99	99	98	98		44"	103	102	102	101
	48"	104	103	103	102		48"	107	107	106	106









Note: These are "Zero Clearance" aisles and require an additional 6" to 12" to be added to provide for easier maneuvering.

FEATURES AND OPTIONS

26 yelt (includes 250 area grow better	STD	OP
36-volt (includes 350 amp gray battery connector)	Х	
AC Traction, lift/lower and steering	X	
Transistor controller with regenerative braking Electric power steering	X	
4 Independent fully programmable performance modes -	X	
4 modes - transprogrammable performance modes - programmable traction speed and acceleration, lift and lower speeds	х	
Power lowering (unloaded) and regenerative lowering (loaded)	х	
High speed lift	х	
Load transport position		х
Laser line fork positioning		х
Return to set tilt		х
Shelf height selector		х
Fork camera		х
Load weight display		х
Fork height display		х
DRIVE	STD	OP
Park brake (spring applied, electrically released)	Х	
Polyurethane drive tire - 13.5" x 5.5" (standard on N45ZR2, N35ZDR2)	х	
5" x 3.9" Poly articulating tandem load wheels - high load compound (standard on N45ZR2)	х	
5" x 2.9" Poly articulating tandem load wheels - high load compound		
(standard on N35ZDR2)	Х	
Dual articulating polyurethane non-steered caster wheels	Х	
Bolt-on wheel box for use with 5" x 3.9", 6" x 3.9", and 5" x 2.9" load wheels		x
Electric - steered caster		x
Various sizes of load wheels - sealed or greaseable		X
Various drive tire compounds and types		X
Tapered load wheel boxes		X
LIFT	STD	OP
119" / 272" – 3 Stage full free lift 6.9" mast (standard on N45ZR2, N35ZDR2)	х	
Single reach mast with 33.5" wide Class II with integal sideshift (hook type carriage) (standard on N45ZR2)	х	
Double reach mast with 33.5" wide Class II with integral sideshift (hook type carriage) (standard on N35ZDR2)	х	
Tilting carriage (3° fwd, 4° back)	х	
36" High load backrest extension	х	
Lift limit - with or without override		х
48" High load backrest extension		х
Single reach without integral sideshift for standard 33.5"		x
wide carriage Various mast heights for 6.9" mast		x
HANDLING	STD	OP
Forks: 1.6" x 3.9" x 42" (40 mm x 100 mm) – Class II hook type		
(standard on N35ZDR2)	Х	
	x	
Forks: 1.8" x 3.9" x 42" (45 mm x 100 mm) – Class II hook type	_ ^	
	X	
Forks: 1.8" x 3.9" x 42" (45 mm x 100 mm) – Class II hook type (standard on N45ZR2)		
Forks: 1.8" x 3.9" x 42" (45 mm x 100 mm) – Class II hook type (standard on N45ZR2) Fully proportional multi-function control handle	х	x
Forks: 1.8" x 3.9" x 42" (45 mm x 100 mm) – Class II hook type (standard on N45ZR2) Fully proportional multi-function control handle Control handle with simultaneous hydraulic functions	х	
Forks: 1.8" x 3.9" x 42" (45 mm x 100 mm) – Class II hook type (standard on N45ZR2) Fully proportional multi-function control handle Control handle with simultaneous hydraulic functions Various fork lengths	х	х
Forks: 1.8" x 3.9" x 42" (45 mm x 100 mm) – Class II hook type (standard on N45ZR2) Fully proportional multi-function control handle Control handle with simultaneous hydraulic functions Various fork lengths Reduced travel speed with carriage extended	x x	х
Forks: 1.8" x 3.9" x 42" (45 mm x 100 mm) – Class II hook type (standard on N45ZR2) Fully proportional multi-function control handle Control handle with simultaneous hydraulic functions Various fork lengths Reduced travel speed with carriage extended ERGONOMICS Low profile anti-fatigue floormat Adjustable armrest and backrest (sidestance operator	X X STD X	х
Forks: 1.8" x 3.9" x 42" (45 mm x 100 mm) – Class II hook type (standard on N45ZR2) Fully proportional multi-function control handle Control handle with simultaneous hydraulic functions Various fork lengths Reduced travel speed with carriage extended ERGONOMICS Low profile anti-fatigue floormat Adjustable armrest and backrest (sidestance operator controls only)	X X X STD X	х
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OPERATION	STD	OPT
UL Classification 'E'	х	
Sidestance operator controls compartment	х	
Key switch start	х	
Wire mesh mast guard	х	
Automotive steering	х	
Static strap	х	
Electronic horn	х	
Sealed battery rollers	х	
Operator's overhead guard	x	
Rear post operator protection	x	
Power disconnect button	x	
Reverse steering		Х
UL Classification 'EE'		Х
Keyless start		х
Outrigger OEC - 34" to 49" in 1" increments		х
Audible back-up and motion alarms		х
Visible amber strobe light - continuous activated		Х
Impact monitor		х
RF terminal bracket		Х
RF handheld scanner holder		х
12-volt DC auxiliary power supply		Х
Battery gate interlock (SPED)		х
Clear mast guard (SPED)		Х
Rear operator compartment door (SPED)		х
Wire mesh on top overhead guard (SPED)		х
Hyster Tracker™ (SPED)		х
Hyster Reaction™ (SPED)		Х
SUPPLEMENTAL	STD	OPT
12 Months / no hour limit full truck warranty, 36 months / 6,000 hours		
powertrain warranty, lifetime frame warranty; please see full warranty statement for additional details.	X	
Operating manual	x	
Parts manual		х
CONSTRUCTION	STD	OPT
Standard construction	Х	
Cooler/freezer construction (0°F to 120°F) with anti-slip floorplate		х
covering SubZero freezer construction (operating temperatures -40°F to 120°F)		v
with anti-slip floorplate covering		Х
SubZero freezer with heated floor and control handle (operating temperatures -40°F to 120°F) with anti-slip floorplate covering		х
ENERGY SYSTEM	STD	OPT
Lead Acid Battery	х	
Power Cellect™ (SPED)		Х
Fuel Cell (SPED)		х





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