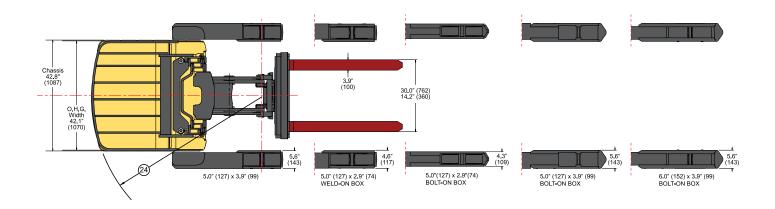
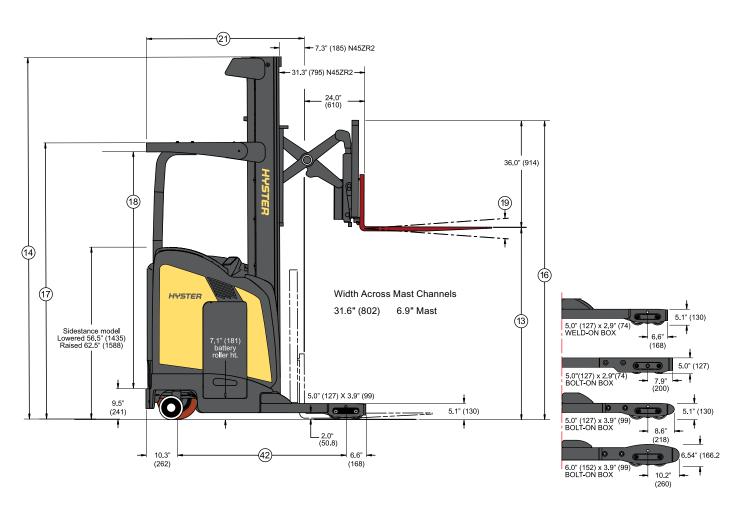


N45ZR2/ N35ZDR2

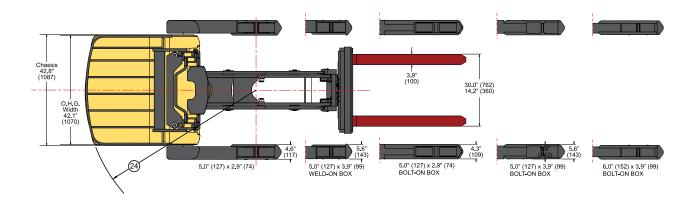
NARROW AISLE REACH TRUCK PRODUCT TECHNICAL GUIDE

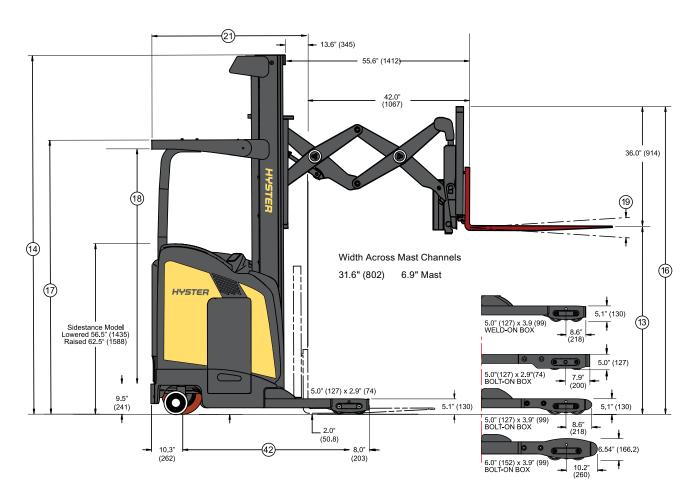






Circled dimensions correspond to the line numbers on the tabulated chart inside the spec sheet. Dimensions are in inches (millimeters).





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

Manufacturer's name	N45	ZR2 SPECIFICATIONS					
Notice base designation SWB				Livotor			
3				•			
5 4 Alexa Capacity 15 16 16 17 17 18 18 18 18 18 18							
7 Operator type Stand	ا لم	•	lh (ka)	-			
7 Operator type Stand	씂	• •	(0)	, ,			
7 Operator type Stand	ੜ -		111 (111111)	` ,			
Poly / Poly / NDITHANE® Poly / Poly / NDITHANE®	ق م						
9 Wheels, number load/drive (x - driven)							
10		21 - 2		i i			
Height, standard lift (TOF)		,	II.				
Height, standard lift (TOF)	₹ 10						
Height, standard mast lowered (OALH)				8400 / 3800			
15 Height, freelift (TOF)		• • • • • • • • • • • • • • • • • • • •	` '				
Height, standard mast extended w/LBR	_		` ,				
Height, top of OHG	_			See mast table			
Height, operator clearance in (mm)							
Mast tilt angle, forwardback degrees 3' / 4'			` '				
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 cm 39.0 x 31.5 x 31.5 cm 3	<u> 18</u>						
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 cm 39.0 x 31.5 x 31.5 cm 3	<u> </u>						
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 cm 39.0 x 31.5 x 31.5 cm 3	ž 20						
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 cm 39.0 x 31.5 x 31.5 cm 3	<u> 21</u>						
Battery compartment size, 21.5" - (LxWxH)	<u> 22</u>			,			
Battery compartment size, 21.5" - (LWWxH) In	23						
Turning radius - min. Outside, 21.5" batt. compartment in 72.90							
Turning radius - min. Outside, 21.5" batt. compartment in	24	-	in				
Stability - comply with ANSI Yes Standard			in				
Travel speed* Standard Rearward (chassis first) - empty/RL mph							
Rearward (chassis first) - empty/RL							
Page Forward (forks first) - empty/RL							
Standard			·				
35 4000 lb ft/min 78 36 4500 lb ft/min 74 37 Lowering speeds, empty ft/min 105 38 Lowering speeds, RL ft/min 105 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 - 18.5" battery compartment in 59.37 43 Brakes, service/parking (method of control) Foot 44 Brakes, service/parking (method of operation) Spring Apply (Electric Release) 45 Battery type Lead Acid 46 Traction motor rating (50 minute rating) hp (kw) 8.7 (6.5) 47 Hoist motor rotnrol method Transistor 48 Traction motor control method Transistor 49 Hoist motor control method Transistor 40 Transistor Transistor 41 Transistor Transistor 42 Transistor Transistor 43 Transistor Transistor 44 Hoist motor control method Transistor 45 Transistor Transistor 46 Transistor Transistor 47 Hoist motor control method Transistor 48 Transistor Transistor 49 Hoist motor control method Transistor 49 Transistor 40 Transistor 40 Transistor 41 Transistor 42 Transistor 43 Transistor 44 Transistor 45 Transistor 46 Transistor 47 Hoist motor control method 48 Transistor 49 Transistor 40 Transistor 40 Transistor 41 Transistor 42 Transistor 43 Transistor 44 Transistor 45 Transistor 46 Transistor 47 Transistor 48 Transistor 49 Transistor 40 Transistor 40 Transistor 41 Transistor 42 Transistor 43 Transistor 44 Transistor 45 Transistor 46 Transistor 47 Transistor 48 Transistor 49 Transistor 40 Transistor 40 Transistor 41 Transistor 42 Transistor 43 Transistor 44 Transistor 45 Transistor 46 Transistor 47 Transistor 48 Transistor 49 Transistor 40	ш 29	, , , ,	mph				
35 4000 lb ft/min 78 36 4500 lb ft/min 74 37 Lowering speeds, empty ft/min 105 38 Lowering speeds, RL ft/min 105 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 - 18.5" battery compartment in 59.37 43 Brakes, service/parking (method of control) Foot 44 Brakes, service/parking (method of operation) Spring Apply (Electric Release) 45 Battery type Lead Acid 46 Traction motor rating (50 minute rating) hp (kw) 8.7 (6.5) 47 Hoist motor rotnrol method Transistor 48 Traction motor control method Transistor 49 Hoist motor control method Transistor 40 Transistor Transistor 41 Transistor Transistor 42 Transistor Transistor 43 Transistor Transistor 44 Hoist motor control method Transistor 45 Transistor Transistor 46 Transistor Transistor 47 Hoist motor control method Transistor 48 Transistor Transistor 49 Hoist motor control method Transistor 49 Transistor 40 Transistor 40 Transistor 41 Transistor 42 Transistor 43 Transistor 44 Transistor 45 Transistor 46 Transistor 47 Hoist motor control method 48 Transistor 49 Transistor 40 Transistor 40 Transistor 41 Transistor 42 Transistor 43 Transistor 44 Transistor 45 Transistor 46 Transistor 47 Transistor 48 Transistor 49 Transistor 40 Transistor 40 Transistor 41 Transistor 42 Transistor 43 Transistor 44 Transistor 45 Transistor 46 Transistor 47 Transistor 48 Transistor 49 Transistor 40 Transistor 40 Transistor 41 Transistor 42 Transistor 43 Transistor 44 Transistor 45 Transistor 46 Transistor 47 Transistor 48 Transistor 49 Transistor 40	<u>일 30</u>						
35 4000 lb ft/min 78 36 4500 lb ft/min 74 37 Lowering speeds, empty ft/min 105 38 Lowering speeds, RL ft/min 105 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 - 18.5" battery compartment in 59.37 43 Brakes, service/parking (method of control) Foot 44 Brakes, service/parking (method of operation) Spring Apply (Electric Release) 45 Battery type Lead Acid 46 Traction motor rating (50 minute rating) hp (kw) 8.7 (6.5) 47 Hoist motor rotnrol method Transistor 48 Traction motor control method Transistor 49 Hoist motor control method Transistor 40 Transistor Transistor 41 Transistor Transistor 42 Transistor Transistor 43 Transistor Transistor 44 Hoist motor control method Transistor 45 Transistor Transistor 46 Transistor Transistor 47 Hoist motor control method Transistor 48 Transistor Transistor 49 Hoist motor control method Transistor 49 Transistor 40 Transistor 40 Transistor 41 Transistor 42 Transistor 43 Transistor 44 Transistor 45 Transistor 46 Transistor 47 Hoist motor control method 48 Transistor 49 Transistor 40 Transistor 40 Transistor 41 Transistor 42 Transistor 43 Transistor 44 Transistor 45 Transistor 46 Transistor 47 Transistor 48 Transistor 49 Transistor 40 Transistor 40 Transistor 41 Transistor 42 Transistor 43 Transistor 44 Transistor 45 Transistor 46 Transistor 47 Transistor 48 Transistor 49 Transistor 40 Transistor 40 Transistor 41 Transistor 42 Transistor 43 Transistor 44 Transistor 45 Transistor 46 Transistor 47 Transistor 48 Transistor 49 Transistor 40	≰ 31		ft/min				
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35 4000 lb ft/min 78 36 4500 lb ft/min 74 37 Lowering speeds, empty ft/min 105 38 Lowering speeds, RL ft/min 105 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 - 18.5" battery compartment in 59.37 43 Brakes, service/parking (method of control) Foot 44 Brakes, service/parking (method of operation) Spring Apply (Electric Release) 45 Battery type Lead Acid 46 Traction motor rating (50 minute rating) hp (kw) 8.7 (6.5) 47 Hoist motor rotnrol method Transistor 48 Traction motor control method Transistor 49 Hoist motor control method Transistor 40 Transistor Transistor 41 Transistor Transistor 42 Transistor Transistor 43 Transistor Transistor 44 Hoist motor control method Transistor 45 Transistor Transistor 46 Transistor Transistor 47 Hoist motor control method Transistor 48 Transistor Transistor 49 Hoist motor control method Transistor 49 Transistor 40 Transistor 40 Transistor 41 Transistor 42 Transistor 43 Transistor 44 Transistor 45 Transistor 46 Transistor 47 Hoist motor control method 48 Transistor 49 Transistor 40 Transistor 40 Transistor 41 Transistor 42 Transistor 43 Transistor 44 Transistor 45 Transistor 46 Transistor 47 Transistor 48 Transistor 49 Transistor 40 Transistor 40 Transistor 41 Transistor 42 Transistor 43 Transistor 44 Transistor 45 Transistor 46 Transistor 47 Transistor 48 Transistor 49 Transistor 40 Transistor 40 Transistor 41 Transistor 42 Transistor 43 Transistor 44 Transistor 45 Transistor 46 Transistor 47 Transistor 48 Transistor 49 Transistor 40	<u> </u>		ft/min	90			
35 4000 lb ft/min 78 36 4500 lb ft/min 74 37 Lowering speeds, empty ft/min 105 38 Lowering speeds, RL ft/min 105 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 - 18.5" battery compartment in 59.37 43 Brakes, service/parking (method of control) Foot 44 Brakes, service/parking (method of operation) Spring Apply (Electric Release) 45 Battery type Lead Acid 46 Traction motor rating (50 minute rating) hp (kw) 8.7 (6.5) 47 Hoist motor rotnrol method Transistor 48 Traction motor control method Transistor 49 Hoist motor control method Transistor 40 Transistor Transistor 41 Transistor Transistor 42 Transistor Transistor 43 Transistor Transistor 44 Hoist motor control method Transistor 45 Transistor Transistor 46 Transistor Transistor 47 Hoist motor control method Transistor 48 Transistor Transistor 49 Hoist motor control method Transistor 49 Transistor 40 Transistor 40 Transistor 41 Transistor 42 Transistor 43 Transistor 44 Transistor 45 Transistor 46 Transistor 47 Hoist motor control method 48 Transistor 49 Transistor 40 Transistor 40 Transistor 41 Transistor 42 Transistor 43 Transistor 44 Transistor 45 Transistor 46 Transistor 47 Transistor 48 Transistor 49 Transistor 40 Transistor 40 Transistor 41 Transistor 42 Transistor 43 Transistor 44 Transistor 45 Transistor 46 Transistor 47 Transistor 48 Transistor 49 Transistor 40 Transistor 40 Transistor 41 Transistor 42 Transistor 43 Transistor 44 Transistor 45 Transistor 46 Transistor 47 Transistor 48 Transistor 49 Transistor 40	<u>ந் 34</u>	3500 lb	ft/min	84			
37 Lowering speeds, empty ft/min 105 38 Lowering speeds, RL ft/min 105 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 - 18.5" battery compartment in 59.37 43 Brakes, service/parking (method of control) Foot 44 Brakes, service/parking (method of operation) Spring Apply (Electric Release) 45 Battery type Lead Acid 46 Traction motor rating (60 minute rating) hp (kw) 8.7 (6.5) 48 Traction motor control method Transistor 49 Hoist motor control method Transistor 49 Hoist motor control method Transistor 40 Transistor Transistor 41 Size, standard - drive tire/dual casters driving (5 minute rating) hp (kw) 20.7 (15.4) 48 Traction motor control method Transistor 49 Hoist motor control method Transistor 40 Transistor Transistor 41 Transistor Transistor 42 Transistor Transistor 43 Transistor Transistor 44 Transistor Transistor 45 Transistor Transistor 46 Transistor Transistor 47 Hoist motor control method Transistor 48 Transistor Transistor 49 Hoist motor control method Transistor 49 Transistor 40 Transistor 40 Transistor 41 Size, standard - drive tire/dual casters 42 Transistor 43 Transistor 44 Transistor 45 Transistor 46 Transistor 47 Hoist motor control method 48 Transistor 49 Hoist motor control method 49 Hoist motor control method 40 Transistor 40 Transistor 41 Transistor 42 Transistor 43 Transistor 44 Transistor 45 Transistor 46 Transistor 47 Transistor 48 Transistor 49 Transistor 40 Transistor 40 Transistor 41 Transistor 42 Transistor 43 Transistor 44 Transistor 45 Transistor 46 Transistor 47 Transistor 48 Transistor 49	35	4000 lb	ft/min	78			
Solution		4500 lb	ft/min	74			
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 Wheelbase - 18.5" battery compartment in 62.36 43 Brakes, service/parking (method of control) Foot 44 Brakes, service/parking (method of operation) Spring Apply (Electric Release) 45 Battery type Lead Acid 46 Traction motor rating (60 minute rating) hp (kw) 8.7 (6.5) 47 Hoist motor rotrol method Fraction motor control method Transistor			ft/min	105			
41 Size, standard - drive tire/dual casters 42 Wheelbase - 18.5" battery compartment 43 Brakes, service/parking (method of control) 44 Brakes, service/parking (method of operation) 59.37 43 Brakes, service/parking (method of control) 50 Battery type 50 Battery type 60 Traction motor rating (60 minute rating) 61 Battery type 62 Traction motor rating (5 minute rating) 63 Brakes, service/parking (method of operation) 64 Brakes, service/parking (method of operation) 65 Battery type 66 Battery type 77 Hoist motor rating (5 minute rating) 78 Battery type 79 Battery type 70 Battery type 71 Bottom motor rating (60 minute rating) 72 Battery type 73 Battery type 74 Bottom motor rating (5 minute rating) 75 Battery type 75 Battery type 76 Battery type 77 Bottom motor control method 77 Bottom motor control method 78 Battery type 88 Traction motor control method 89 Bottom motor control method 90 Bottom motor control method 90 Bottom motor control method 90 Bottom motor control method 91 Bottom motor control method 92 Bottom motor control method 93 Bottom motor control method 94 Bottom motor control method 95 Bottom motor control method 95 Bottom motor control method 96 Bottom motor control method 97 Bottom motor control method 98 Bottom motor control method 98 Bottom motor control method 99 Bottom motor control method 90 Bottom motor control method 91 Bottom motor control method 92 Bottom motor control method 91 Bottom motor control method 92 B			ft/min	105			
Hand Stakes, service/parking (method of control) 44 Brakes, service/parking (method of operation) 45 Battery type 46 Traction motor rating (60 minute rating) 47 Hoist motor rating (5 minute rating) 48 Traction motor control method 49 Hoist motor control method Foot Spring Apply (Electric Release) Lead Acid hp (kw) 8.7 (6.5) hp (kw) 20.7 (15.4) Transistor Transistor	<u>ගු</u> 39	Size - front load wheels, standard		5 x 3.9			
Hand Stakes, service/parking (method of control) 44 Brakes, service/parking (method of operation) 45 Battery type 46 Traction motor rating (60 minute rating) 47 Hoist motor rating (5 minute rating) 48 Traction motor control method 49 Hoist motor control method Foot Spring Apply (Electric Release) Lead Acid hp (kw) 8.7 (6.5) hp (kw) 20.7 (15.4) Transistor Transistor	≝ 41	Size, standard - drive tire/dual casters		13.5 x 5.5 7.9 x 2.2			
Hand Stakes, service/parking (method of control) 44 Brakes, service/parking (method of operation) 45 Battery type 46 Traction motor rating (60 minute rating) 47 Hoist motor rating (5 minute rating) 48 Traction motor control method 49 Hoist motor control method Foot Spring Apply (Electric Release) Lead Acid hp (kw) 8.7 (6.5) hp (kw) 20.7 (15.4) Transistor Transistor	⊗ ₄₃	Wheelbase - 18.5" battery compartment	in	59.37			
Hand Stakes, service/parking (method of control) 44 Brakes, service/parking (method of operation) 45 Battery type 46 Traction motor rating (60 minute rating) 47 Hoist motor rating (5 minute rating) 48 Traction motor control method 49 Hoist motor control method Foot Spring Apply (Electric Release) Lead Acid hp (kw) 8.7 (6.5) hp (kw) 20.7 (15.4) Transistor Transistor	D 42	Wheelbase - 21.5" battery compartment	in	62.36			
45 Battery type Lead Acid 46 Traction motor rating (60 minute rating) hp (kw) 8.7 (6.5) 47 Hoist motor rating (5 minute rating) hp (kw) 20.7 (15.4) 48 Traction motor control method Transistor 49 Hoist motor control method Transistor	単 43			Foot			
45 Battery type Lead Acid 46 Traction motor rating (60 minute rating) hp (kw) 8.7 (6.5) 47 Hoist motor rating (5 minute rating) hp (kw) 20.7 (15.4) 48 Traction motor control method Transistor 49 Hoist motor control method Transistor	\$ 44	Brakes, service/parking (method of operation)		Spring Apply (Electric Release)			
Hoist motor rating (5 minute rating) hp (kw) 20.7 (15.4) Transistor Transistor Transistor Transistor		Battery type		Lead Acid			
	<u>ූ</u> 46	Traction motor rating (60 minute rating)	hp (kw)	8.7 (6.5)			
	47		hp (kw)	20.7 (15.4)			
	О 48			Transistor			
	ᆸ 49			Transistor			
	50	Number of speeds		Infinitely Variable			

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
 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.

N:	35Z	DR2 SPECIFICATIONS							
	1	Manufacturer's name	Hyster						
	2	Model		N35Z	DR2				
l .[3	Wheel base designation ¹		LWB	SWB				
GENERAL	4	Rated capacity	lb (kg)	3500	(1588)				
則	5	Load center, distance	in (mm)	24 (610)				
GE	6	Power type, electric, diesel, LPG		Electric -	- 36 volt				
	7	Operator type		Stand					
	8	Tire type, load/caster/drive		Poly / Poly /	NDIITHANE®				
	9	Wheels, number load/drive (x = driven)		4/2					
	10	Truck weight, without battery (approximate)	lb.	5650	N/A				
_	12	Axle loading with assembly retracted (front / rear) ²	lb.	6700 /	4250				
-	13	Height, standard lift (TOF)	in (mm)						
-	14	Height, standard mast lowered (OALH)	in (mm)						
-	15	Height, freelift (TOF)	in (mm)	See ma	st table				
	16	Height, standard mast extended w/LBR	in (mm)						
H -	17	Height, top of OHG	in (mm)						
	18	Height, operator clearance	in (mm)	20	40				
	19	Mast tilt angle, forward/back	degrees	3° /					
Ä.	20	Forks, standard (length x width x thickness)	in	1.60 x 3					
ME -	21 22	Head length to face of forks - all battery compartments ³	in	See ma					
┞╏	22	Basearm OEC	in	34"- 49" (1"	,				
	23	Battery compartment size, 18.5" - (LxWxH)	in	39.0 x 18.5 x 31.5 39.0 x 21.5 x 31.5					
H		Battery compartment size, 21.5" - (LxWxH) Turning radius - min. Outside, 18.5" batt. compartment	in in	74.90	69.90				
	24	Turning radius - min. Outside, 16.5" batt. compartment Turning radius - min. Outside, 21.5" batt. compartment	in	74.90	72.90				
-	25		111						
		Aisle width - zero clearance - Right Angle Stack	1	Right Δn	nle Stack				
		Aisle width - zero clearance - Right Angle Stack Stability - comply with ANSI		Right An					
	26	Stability - comply with ANSI		Ye	es .				
	26 27	Stability - comply with ANSI Travel speed ⁴	mph	Ye Stan	es dard				
	26 27 28	Stability - comply with ANSI Travel speed ⁴ Rearward (chassis first) - empty/RL	mph mph	Ye	es dard 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	Ye Stan 7.4/	dard 6.8 6.5				
	26 27 28 29	Stability - comply with ANSI Travel speed ⁴ Rearward (chassis first) - empty/RL Forward (forks first) - empty/RL Lift Speed		Ye Stan 7.4/ 7.4/	dard 6.8 6.5 dard				
	26 27 28 29 30 31	Stability - comply with ANSI Travel speed ⁴ Rearward (chassis first) - empty/RL Forward (forks first) - empty/RL	mph	Ye Stan 7.4/ 7.4/ Stan	dard 6.8 6.5 dard				
	26 27 28 29 30	Stability - comply with ANSI Travel speed ⁴ Rearward (chassis first) - empty/RL Forward (forks first) - empty/RL Lift Speed Empty	mph ft/min	Ye Stan 7.4/ 7.4/ Stan 13/	es dard 6.8 6.5 dard 0				
	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	Ye Stan 7.4/ 7.4/ Stan 13/ 93	es dard 6.8 6.5 dard O				
PERFORMANCE	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	mph ft/min ft/min	Ye Stan 7.4/ 7.4/ Stan 13/ 93 85	es dard 6.8 6.5 dard O				
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	Ye Stan 7.4/ 7.4/ Stan 13/ 93 85	es dard 6.8 6.5 dard D				
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	ft/min ft/min ft/min ft/min ft/min	Ye Stan 7.4/ 7.4/ Stan 13/ 93 85 79	es dard 6.8 6.5 dard 0 6.5 dard				
PERFORMANCE	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	ft/min ft/min ft/min ft/min ft/min ft/min	Ye Stan 7.4/ 7.4/ Stan 13/ 93 85 79 N//	es dard 6.8 6.5 dard 0 6.6 dard 0 6.6 6.6 6.6 6.6 6.6 6.6 6.6 6.6 6.6 6				
PERFORMANCE	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 Size - front load wheels, standard	mph ft/min ft/min ft/min ft/min ft/min ft/min ft/min	Yee Stan 7.4/ 7.4/ Stan 13/ 93 85 79 N// N// 10/ 5 x	es dard 6.8 6.5 dard 0 6.6 6.5 dard 0 6.5 6.5 6.5 6.5 6.6 6.5 6.6 6.6 6.6 6.6				
PERFORMANCE	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 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	Ye Stan 7.4/ 7.4/ Stan 13/ 93 85 79 N// N// 10/ 10/ 5 x 13.5 x 5.5	es dard 6.8 6.5 dard 0 6.8 6.5 dard 0 6.5 5.5 2.9 7.9 x 2.2				
8 TIRES PERFORMANCE	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	mph ft/min	Ye Stan 7.4/ 7.4/ Stan 13/ 93 85 79 N// N// 10/ 5 x 13.5 x 5.5 64.37	6.8 6.5 6.5 dard 0 6.3 6.4 A A 5.5 5.5 2.9 7.9 x 2.2 59.37				
8 TIRES PERFORMANCE	26 27 28 29 30 31 32 33 34 35 36 37 38 39 41 42	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	Yee Stan 7.4/ 7.4/ Stan 13/ 93 85 79 N// N// 10/ 5 x 13.5 x 5.5 64.37 67.36	6.8 6.5 6.5 dard 0 6.3 6.5 6.5 6.5 7.9 x 2.2 59.37 62.36				
8 TIRES PERFORMANCE	26 27 28 29 30 31 32 33 34 35 36 37 38 39 41 42 43	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)	mph ft/min	Yee Stan 7.4/ 7.4/ Stan 13/ 93 85 79 N// N// 10/ 10/ 5 x 13.5 x 5.5 64.37 67.36 Fo	6.8 6.8 6.5 dard 0 6.3 4 4 5 5 5 5 2.9 7.9 x 2.2 59.37 62.36				
WHEELS & TIRES PERFORMANCE	26 27 28 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 operation)	mph ft/min	Yee Stan 7.4/ 7.4/ Stan 13/ 93 85 79 N// N// 10/ 5 x 13.5 x 5.5 64.37 67.36 Fo Spring Apply (E	6.8 6.5 6.5 dard 0 6.3 6.5 6.5 6.6 7.9 x 2.2 59.37 62.36 ot lectric Release)				
WHEELS & TIRES PERFORMANCE	26 27 28 29 30 31 32 33 34 35 36 37 38 39 41 42 43 44 45	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	mph ft/min	Yee Stan 7.4/ 7.4/ Stan 13/ 93 85 79 N// N// 10/ 5 x 13.5 x 5.5 64.37 67.36 Fo Spring Apply (E Lead	6.8 6.8 6.5 dard 0 6.3 4 A A 5 5 5 5 2.9 7.9 x 2.2 59.37 62.36 ot lectric Release)				
WHEELS & TIRES PERFORMANCE	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* 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	Yee Stan 7.4/ 7.4/ Stan 13/ 93 85 79 N// N// 10/ 5 x 13.5 x 5.5 64.37 67.36 Fo Spring Apply (E Lead 8.7 (6.8 6.5 6.5 dard 0 6.8 7 6.5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7				
WHEELS & TIRES PERFORMANCE	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	Yee Stan 7.4/ 7.4/ Stan 13/ 93/ 85/ 79/ N// N// 10/ 5 x 13.5 x 5.5 64.37 67.36 Fo Spring Apply (E Lead 8.7 (20.7 (7.9 x 2.2 59.37 62.36 ot lectric Release) Acid 6.5)				
LECTRIC WHEELS & TIRES PERFORMANCE	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 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) Traction motor control method	mph ft/min	Yee Stan 7.4/ 7.4/ Stan 13/ 93/ 85/ 79/ N// N// 10/ 5 x 13.5 x 5.5 64.37 67.36 Fo Spring Apply (E Lead 8.7 (20.7 (Trans	7.9 x 2.2 59.37 62.36 ot lectric Release) Acid 6.5) 15.4)				
ELECTRIC WHEELS & TIRES PERFORMANCE	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	Yee Stan 7.4/ 7.4/ Stan 13/ 93/ 85/ 79/ N// N// 10/ 5 x 13.5 x 5.5 64.37 67.36 Fo Spring Apply (E Lead 8.7 (20.7 (7.9 x 2.2 59.37 62.36 ot lectric Release) Acid 6.5) 15.4) iistor				

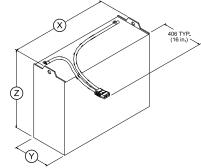
Short or Long Wheelbase is determined by Mast Height, LWB for 332" Max Fork Height and Below
 Static with Rated Load and Max. Wt. Battery
 Includes integral sideshift, subtract 1" for without sideshift
 Travel speed will be reduced to 6.8 / 5.8 mph (empty / rated load) with MFHs above 341" in the Rearward and Forward direction.

^{7.4} mph travel speed is limited to Load up to 2500 lbs.

N45ZR2/N35ZDR2 SPECIFICATIONS

Max. Fork Height	Overall Lowered	Overall Height (Mast Extended) Highest Point	Free-Lift	Overhead Guard Height	Operator	Н	ead Length (Leng	th to Face of Forl	(s)	
(TOF)	Ht.	w/36" LBR	(TOF)	to Top	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 FUL	L 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	

N45Z	R2/N3	5ZDR2 BA	TTER	Y SPI	CIFIC	ATIO	NS						
	Battery Compartment Battery Size Voltage		Maximum 6 Hr Rate		Battery Dimensions						Minimum	Maximum	
					"X" Max.		"Y" Max.		"Z" Max.		Batt. Wt.	Batt. Wt.	
in (m	ım)		AH	KWH	in	(mm)	in	(mm)	in	(mm)	lb (kg)	lb (kg)	
18.5 (4	69.9)	36	1085	38.1	38.8	(985)	18.25	(464)	31.0	(788)	2200 (998)	2800 (1270)	
21.5 (5	46.1)	36	1240	43.5	38.8	(985)	21.25	(540)	31.0	(788)	2500 (1134)	3100 (1406)	



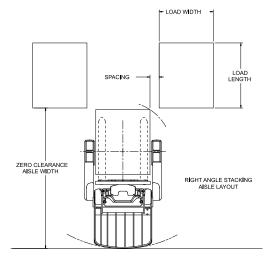
Battery connector: 36v - gray; position "B", lead length 16" Manufacturers standard cable size not to exceed 4/0 AWG

Battery compartment is designed to accommodate standard wet cell batteries with fixed lifting eyes and no cover. Contact Applications Engineering to verify compatibility/fit when using maintenance free, covered or non-standard batteries.

N45ZR2/N35ZDR2 RIGHT ANGLE AISLE STACKING												
		N45ZR	2			N35ZDR2						
Truck w	ith 18.5	ent	Truck with 18.5" battery compartment and 42" ID									
3	Stage -	4" Betv	veen Lo	ads		3	Stage -	6" Bet	ween L	oads		
		Pallet \	Width (inches)			Pallet Width (inches)					
		36"	40"	44"	48"	Pallet Length (inches)		36"	40"	44"	48"	
Pallet	36"	90	90	89	89		36"	94	93	93	93	
Length (inches)	40"	95	94	94	93		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	

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

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



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

FEATURES AND OPTIONS

PERFORMANCE	STD	OP
36-volt (includes 350 amp gray battery connector)	х	
AC Traction, lift/lower and steering	Х	
Transistor controller with regenerative braking	Х	
Electric power steering	х	
4 Independent fully programmable performance modes -		
programmable traction speed and acceleration, lift and lower speeds	X	
Power lowering (unloaded) and regenerative lowering (loaded)	х	
High speed lift	X	
Load transport position	~	х
Laser line fork positioning		X
Return to set tilt		X
Shelf height selector		X
Fork camera		X
Load weight display		X
Fork height display		X
DRIVE	STD	O F
Park brake (spring applied, electrically released)		O1
(1 0 11)	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	x	
compound (standard on N45ZR2)	,	
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"		x
load wheels		^
Electric - steered caster		Х
Various sizes of load wheels - sealed or greaseable		Х
Various drive tire compounds and types		Х
Tapered load wheel boxes		Х
LIFT	STD	OF
119" / 272" – 3 Stage full free lift 6.9" mast (standard on N45ZR2, N35ZDR2)	x	
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	x	
Lift limit - with or without override		х
48" High load backrest extension		х
Single reach without integral sideshift for standard 33.5"		х
wide carriage Various mast heights for 6.9" mast		X
HANDLING	STD	O P
Forks: 1.6" x 3.9" x 42" (40 mm x 100 mm) – Class II hook type		01
(standard on N35ZDR2) Forks: 1.8" x 3.9" x 42" (45 mm x 100 mm) – Class II hook type	X	
(standard on N45ZR2)	Х	
Fully proportional multi-function control handle	х	
2.1 •	x	
Control handle with simultaneous hydraulic functions	^	x
2.1	^	_ ^
Control handle with simultaneous hydraulic functions	^	
Control handle with simultaneous hydraulic functions Various fork lengths	STD	х
Control handle with simultaneous hydraulic functions Various fork lengths Reduced travel speed with carriage extended ERGONOMICS		х
Control handle with simultaneous hydraulic functions Various fork lengths Reduced travel speed with carriage extended	STD	х
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)	STD x	х
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	STD X	X OP
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) Fixed steer tiller position	STD X X	х

	i	
ERGONOMICS (CONTINUED)	STD	OPT
Operator overhead fan		Х
Dual LED headlights		Х
Rear LED worklight		Х
Operator LED desktop light		Х
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	Х	
Rear post operator protection	Х	
Power disconnect button	Х	
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		X
12-volt DC auxiliary power supply		X
Battery gate interlock (SPED)		X
Clear mast guard (SPED)		X
Rear operator compartment door (SPED) Wire mesh on top overhead guard (SPED)		X
Wire mesh on top overnead guard (SFED) Hyster Tracker™ (SPED)		X
Hyster Reaction™ (SPED)		X X
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.	х	
Operating manual	х	
Parts manual		х
CONSTRUCTION	STD	OPT
Standard construction	х	
Cooler/freezer construction (0°F to 120°F) with anti-slip floorplate covering		х
SubZero freezer construction (operating temperatures -40°F to 120°F) 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	0-11-	х
ENERGY SYSTEM	STD	OPT
Lead Acid Battery	Х	
Power Cellect™ (SPED)		X
Fuel Cell (SPED)		Х





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