

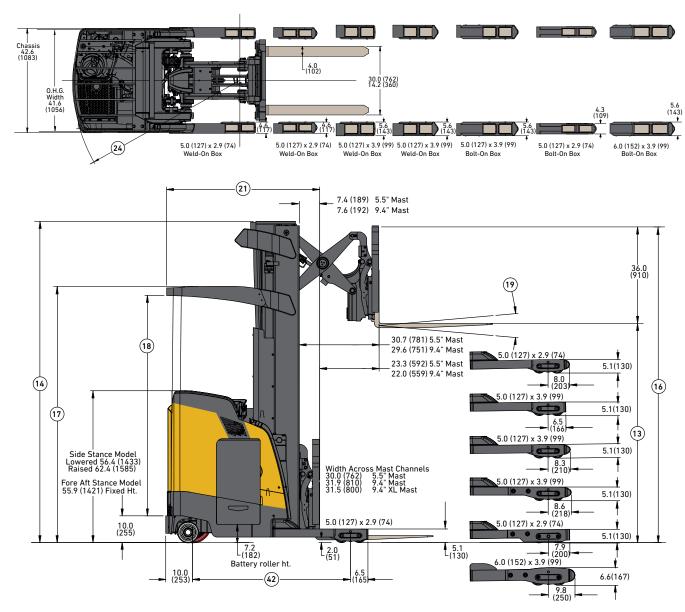


NR/NDR 030-045EC

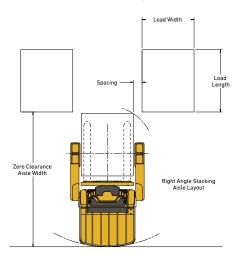
SPEC SHEET

Pantograph reach truck

3,000-4,500 lbs.



Circled truck dimensions correspond to the line numbers in the General Specifications chart. Dimensions are listed in inches (millimeters).



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

Right angle aisle stacking

NR03	NR035-040EC - 5.5" MAST									
14.25" Battery cmpartment and 42" ID										
3 Stage	- 4" betw	een loads	5							
	Pallet width (inches)									
		36	40	44	48					
Pallet	36	85	85	85	85					
length (inches)	40	87	87	86	86					
(11101100)	44 92 91 91 90									
	48	96	96	95	95					

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

NR04	NR040-045EC - 9.4" MAST									
16.25" Battery compartment and 42" ID										
3 Stage	3 Stage - 4" between loads									
	Pallet width (inches)									
		36	40	44	48					
Pallet	36	88	88	88	88					
length (inches)	40	92	92	91	91					
(51165)	44	97	96	96	96					
	48	101	101	100	100					

Subtract 1" for without sideshift Add 2" for 18.25" battery compartment (NR045EC only) Add 5" for 21.25" battery compartment (NR045EC only)

GENE	ERAL SPECIFICATIONS - N	IR035-045FC								
OLIVE										
1	Manufacturer name			Ya		Ya			ale	
2	Model			NR03		NR04			45EC	
3	Wheel base designation *		I II (I)	SW		SW			NB	
GENERAL 6	Rated capacity	Distance	lb. (kg)	3500 ((1588)	4000 (4500	(2041)	
E 5	Load center	Distance	in. (mm)			24 (8				
5 6 7	Power type	Electric, diesel, LPG	-			Electric				
8	Operator type	1				Sta				
9	Tire type Wheels, number load/drive (x=	Load/caster/drive				Poly/Po				
_			lb.	54	00	4 / 2		F.0	230	
¥ 10 12	Truck weight, without battery (Axle loading with assembly ref		lb.	6874/		7459/			/4228	
13	Axte toading with assembly rei	Standard lift (TOF)	in. (mm)	00747	4373	/457/	4270	0540.	74220	
14	-	Standard mast lowered (OALH)	in. (mm)							
15	-	Freelift (TOF)	in. (mm)							
16	Height	Standard mast extended w/LBR	in. (mm)			See mas	st table			
17	-	Top of OHG	in. (mm)							
18	-	Operator clearance	in. (mm)							
19	Mast tilt angle	Forward/back	degrees			3 /	4			
20	Forks, standard (length x width		in.	1.60 x 3	3.9 x 42	1.80 x 3		1.80 x 3	3.9 x 42	
S 21	Headlength to face of forks	All battery compartments ***	in. (mm)			See ma:				
21 22 23	Outrigger ID		in.			34"- 49" (1" i				
N II		14.25" - (LxWxH)	in.	39.0 x 14.	.25 x 31.5	39.0 x 14.		N	/A	
Ξ		16.25" - (LxWxH)	in.	39.0 x 16.	.25 x 31.5	39.0 x 16.		39.0 x 16	.25 x 31.5	
23	Battery compartment size	18.25" - (LxWxH)	in.	N/	/A	N/	A	39.0 x 18	.25 x 31.5	
		21.25" - (LxWxH)	in.	N/		N/			.25 x 31.5	
				5.5" MAST	9.4" MAST	5.5" MAST	9.4" MAST	9.4"	MAST	
		14.25" battery compartment	in.	65.6	N/A	65.6	N/A	N	/A	
0.4		16.25" battery compartment	in.	67.6	N/A	67.6	68.5	68.5		
24	Turning radius - min. outside	18.25" battery compartment	in.	N/A		N/	Α	70.5		
		1 10:20 Battory compartment	111.	IN/	/ A	IN/	A	/(J. J	
		21.25" battery compartment	in.	N/		N/			3.5	
25	Aisle width - zero clearance	, ,	1				Α			
25 26	Aisle width - zero clearance Stability	21.25" battery compartment	1			N/ See right angl YE	A le stack table			
	 	21.25" battery compartment Right angle stack	1			N/ See right angl	A le stack table			
	Stability	21.25" battery compartment Right angle stack	1	N/	/A	N/ See right angl YE	A le stack table S OPTIONAL N/A	73	3.5	
26	Stability TRAVEL SPEED	21.25" battery compartment Right angle stack Comply with ANSI	in.	STANDARD 7.5/7.0 6.6/5.8	OPTIONAL N/A N/A	N/ See right angl YE STANDARD 7.5/7.0† 6.6/5.8†	e stack table S OPTIONAL N/A N/A	5TANDARD 7.5/7.0 † 6.6/5.8 †	OPTIONAL 8.0/7.0 † 6.8/5.8 †	
26 28 29	Stability TRAVEL SPEED Rearward (chassis first) Forward (forks first)	21.25" battery compartment Right angle stack Comply with ANSI Empty/RL	in.	STANDARD 7.5/7.0 6.6/5.8 STANDARD	OPTIONAL N/A N/A OPTIONAL	Standard 6.6/5.8 †	A Le stack table S OPTIONAL N/A N/A OPTIONAL	73 STANDARD 7.5/7.0 † 6.6/5.8 † STANDARD	0PTIONAL 8.0/7.0 † 6.8/5.8 † 0PTIONAL	
26 28 29	Stability TRAVEL SPEED Rearward (chassis first) Forward (forks first) LIFT SPEED ****	21.25" battery compartment Right angle stack Comply with ANSI Empty/RL	mph mph	STANDARD 7.5/7.0 6.6/5.8 STANDARD 5.5" MAST	OPTIONAL N/A N/A OPTIONAL 9.4" MAST	N/See right angl YE STANDARD 7.5/7.0† 6.6/5.8† STANDARD 5.5" MAST	A le stack table S OPTIONAL N/A N/A OPTIONAL 9.4" MAST	73 STANDARD 7.5/7.0 † 6.6/5.8 † STANDARD 9.4" MAST	0PTIONAL 8.0/7.0 † 6.8/5.8 † 0PTIONAL 9.4" MAST	
26 28 29	Stability TRAVEL SPEED Rearward (chassis first) Forward (forks first) LIFT SPEED **** Empty	21.25" battery compartment Right angle stack Comply with ANSI Empty/RL	mph mph ft/min	STANDARD 7.5/7.0 6.6/5.8 STANDARD 5.5" MAST	OPTIONAL N/A N/A OPTIONAL 9.4" MAST N/A	N/See right angl YE STANDARD 7.5/7.0† 6.6/5.8† STANDARD 5.5" MAST	e stack table S OPTIONAL N/A N/A OPTIONAL 9.4" MAST	73 STANDARD 7.5/7.0 † 6.6/5.8 † STANDARD 9.4" MAST 150	0PTIONAL 8.0/7.0 † 6.8/5.8 † 0PTIONAL 9.4" MAST 175	
26 28 29	Stability TRAVEL SPEED Rearward (chassis first) Forward (forks first) LIFT SPEED **** Empty 1,000 lb.	21.25" battery compartment Right angle stack Comply with ANSI Empty/RL	mph mph ft/min ft/min	STANDARD 7.5/7.0 6.6/5.8 STANDARD 5.5" MAST 130 110	OPTIONAL N/A N/A OPTIONAL 9.4" MAST N/A N/A	N/See right angl YE STANDARD 7.5/7.0† 6.6/5.8† STANDARD 5.5" MAST 130 110	e stack table S OPTIONAL N/A N/A OPTIONAL 9.4" MAST 150 133	73 STANDARD 7.5/7.0 † 6.6/5.8 † STANDARD 9.4" MAST 150 133	0PTIONAL 8.0/7.0 † 6.8/5.8 † 0PTIONAL 9.4" MAST 175	
26 28 29	Stability TRAVEL SPEED Rearward (chassis first) Forward (forks first) LIFT SPEED **** Empty 1,000 lb. 2,000 lb.	21.25" battery compartment Right angle stack Comply with ANSI Empty/RL	mph mph ft/min ft/min ft/min	STANDARD 7.5/7.0 6.6/5.8 STANDARD 5.5" MAST 130 110 95	OPTIONAL N/A N/A OPTIONAL 9.4" MAST N/A N/A N/A	N/ See right angl YE STANDARD 7.5/7.0† 6.6/5.8† STANDARD 5.5" MAST 130 110 95	e stack table S OPTIONAL N/A N/A OPTIONAL 9.4" MAST 150 133 115	73 STANDARD 7.5/7.0 † 6.6/5.8 † STANDARD 9.4" MAST 150 133 115	0PTIONAL 8.0/7.0 † 6.8/5.8 † 0PTIONAL 9.4" MAST 175 150 130	
26 28 29 31 31 32 32 33	Stability TRAVEL SPEED Rearward (chassis first) Forward (forks first) LIFT SPEED **** Empty 1,000 lb. 2,000 lb. 3,000 lb.	21.25" battery compartment Right angle stack Comply with ANSI Empty/RL	mph mph ft/min ft/min ft/min ft/min	STANDARD 7.5/7.0 6.6/5.8 STANDARD 5.5" MAST 130 110 95 78	OPTIONAL N/A N/A OPTIONAL 9.4" MAST N/A N/A N/A N/A	N/ See right angl YE STANDARD 7.5/7.0† 6.6/5.8† STANDARD 5.5" MAST 130 110 95 78	A e stack table S OPTIONAL N/A N/A OPTIONAL 9.4" MAST 150 133 115 100	73 STANDARD 7.5/7.0 † 6.6/5.8 † STANDARD 9.4" MAST 150 133 115 100	0PTIONAL 8.0/7.0 † 6.8/5.8 † 0PTIONAL 9.4" MAST 175 150 130 115	
26 28 29 31 31a 32 33 34	Stability TRAVEL SPEED Rearward (chassis first) Forward (forks first) LIFT SPEED **** Empty 1,000 lb. 2,000 lb. 3,000 lb. 3,500 lb.	21.25" battery compartment Right angle stack Comply with ANSI Empty/RL	mph mph ft/min ft/min ft/min ft/min ft/min	STANDARD 7.5/7.0 6.6/5.8 STANDARD 5.5" MAST 130 110 95 78 75	OPTIONAL N/A N/A OPTIONAL 9.4" MAST N/A N/A N/A N/A N/A	N/ See right angl YE STANDARD 7.5/7.0† 6.6/5.8† STANDARD 5.5" MAST 130 110 95 78 75	e stack table S OPTIONAL N/A N/A OPTIONAL 9.4" MAST 150 133 115 100 87	73 STANDARD 7.5/7.0 † 6.6/5.8 † STANDARD 9.4" MAST 150 133 115 100 87	OPTIONAL 8.0/7.0 † 6.8/5.8 † OPTIONAL 9.4" MAST 175 150 130 115 105	
26 28 29 31 31 32 32 33	Stability TRAVEL SPEED Rearward (chassis first) Forward (forks first) LIFT SPEED **** Empty 1,000 lb. 2,000 lb. 3,000 lb. 3,500 lb. 4,000 lb.	21.25" battery compartment Right angle stack Comply with ANSI Empty/RL	mph mph ft/min ft/min ft/min ft/min	STANDARD 7.5/7.0 6.6/5.8 STANDARD 5.5" MAST 130 110 95 78	OPTIONAL N/A N/A OPTIONAL 9.4" MAST N/A N/A N/A N/A	N/ See right angl YE STANDARD 7.5/7.0† 6.6/5.8† STANDARD 5.5" MAST 130 110 95 78	A e stack table S OPTIONAL N/A N/A OPTIONAL 9.4" MAST 150 133 115 100	73 STANDARD 7.5/7.0 † 6.6/5.8 † STANDARD 9.4" MAST 150 133 115 100	0PTIONAL 8.0/7.0 † 6.8/5.8 † 0PTIONAL 9.4" MAST 175 150 130 115	
26 28 29 31 31a 32 32 33 34 35	Stability TRAVEL SPEED Rearward (chassis first) Forward (forks first) LIFT SPEED **** Empty 1,000 lb. 2,000 lb. 3,000 lb. 3,500 lb. 4,000 lb. 4,500 lb.	21.25" battery compartment Right angle stack Comply with ANSI Empty/RL Empty/RL	mph mph ft/min ft/min ft/min ft/min ft/min ft/min ft/min	STANDARD 7.5/7.0 6.6/5.8 STANDARD 5.5" MAST 130 110 95 78 75 N/A	OPTIONAL N/A N/A OPTIONAL 9.4" MAST N/A N/A N/A N/A N/A N/A	N/See right angl YE STANDARD 7.5/7.0† 6.6/5.8† STANDARD 5.5" MAST 130 110 95 78 75	e stack table S OPTIONAL N/A N/A OPTIONAL 9.4" MAST 150 133 115 100 87 83	75 STANDARD 7.5/7.0 † 6.6/5.8 † STANDARD 9.4" MAST 150 133 115 100 87 83	0PTIONAL 8.0/7.0† 6.8/5.8† 0PTIONAL 9.4" MAST 175 150 130 115 105 100	
26 28 29 31 31a 32 33 34 35 36	Stability TRAVEL SPEED Rearward (chassis first) Forward (forks first) LIFT SPEED **** Empty 1,000 lb. 2,000 lb. 3,000 lb. 3,500 lb. 4,000 lb.	21.25" battery compartment Right angle stack Comply with ANSI Empty/RL	mph mph ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min	STANDARD 7.5/7.0 6.6/5.8 STANDARD 5.5" MAST 130 110 95 78 75 N/A N/A	OPTIONAL N/A N/A OPTIONAL 9.4" MAST N/A	N/See right angl YE STANDARD 7.5/7.0† 6.6/5.8† STANDARD 5.5" MAST 130 110 95 78 75 70 N/A	A e stack table S OPTIONAL N/A N/A OPTIONAL 9.4" MAST 150 133 115 100 87 83 N/A	75 STANDARD 7.5/7.0 † 6.6/5.8 † STANDARD 9.4" MAST 150 133 115 100 87 83 80	0PTIONAL 8.0/7.0† 6.8/5.8† 0PTIONAL 9.4" MAST 175 150 130 115 105 100 95	
26 28 29 31 31a 32 33 34 35 36 37	Stability TRAVEL SPEED Rearward (chassis first) Forward (forks first) LIFT SPEED **** Empty 1,000 lb. 2,000 lb. 3,000 lb. 3,500 lb. 4,000 lb. 4,500 lb.	21.25" battery compartment Right angle stack Comply with ANSI Empty/RL Empty/RL Empty/RL Empty/RL	mph mph ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min	STANDARD 7.5/7.0 6.6/5.8 STANDARD 5.5" MAST 130 110 95 78 75 N/A N/A 110	OPTIONAL N/A N/A OPTIONAL 9.4" MAST N/A	N/See right angl YE STANDARD 7.5/7.0† 6.6/5.8† STANDARD 5.5" MAST 130 110 95 78 75 70 N/A 110	A te stack table S OPTIONAL N/A N/A OPTIONAL 9.4" MAST 150 133 115 100 87 83 N/A 140 140	75 STANDARD 7.5/7.0 † 6.6/5.8 † STANDARD 9.4" MAST 150 133 115 100 87 83 80 140 140	0PTIONAL 8.0/7.0 † 6.8/5.8 † 0PTIONAL 9.4 " MAST 175 150 130 115 105 100 95 160 ††	
26 28 29 31 31a 32 33 34 35 36 37 38	Stability TRAVEL SPEED Rearward (chassis first) Forward (forks first) LIFT SPEED **** Empty 1,000 lb. 2,000 lb. 3,000 lb. 3,500 lb. 4,000 lb. 4,500 lb. Lowering speeds	21.25" battery compartment Right angle stack Comply with ANSI Empty/RL Empty/RL Empty **** RL****	mph mph ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min	STANDARD 7.5/7.0 6.6/5.8 STANDARD 5.5" MAST 130 110 95 78 75 N/A N/A 110 110	OPTIONAL N/A N/A OPTIONAL 9.4" MAST N/A	N/See right angl YE STANDARD 7.5/7.0 [†] 6.6/5.8 [†] STANDARD 5.5" MAST 130 110 95 78 75 70 N/A 110 110 5 x	A te stack table S OPTIONAL N/A N/A OPTIONAL 9.4" MAST 150 133 115 100 87 83 N/A 140 140 3.9	75 STANDARD 7.5/7.0 † 6.6/5.8 † STANDARD 9.4" MAST 150 133 115 100 87 83 80 140 140	0PTIONAL 8.0/7.0 † 6.8/5.8 † 0PTIONAL 9.4" MAST 175 150 130 115 105 100 95 160 †† 160 ††	
26 28 29 31 31a 32 33 34 35 36 37 38	Stability TRAVEL SPEED Rearward (chassis first) Forward (forks first) LIFT SPEED **** Empty 1,000 lb. 2,000 lb. 3,000 lb. 3,500 lb. 4,000 lb. 4,500 lb. Lowering speeds Size - front load wheels, stand	21.25" battery compartment Right angle stack Comply with ANSI Empty/RL Empty/RL Empty **** RL****	mph mph ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min	STANDARD 7.5/7.0 6.6/5.8 STANDARD 5.5" MAST 130 110 95 78 75 N/A N/A 110 110	OPTIONAL N/A N/A OPTIONAL 9.4" MAST N/A	N/See right angl YE STANDARD 7.5/7.0† 6.6/5.8† STANDARD 5.5" MAST 130 110 95 78 75 70 N/A 110 110	A te stack table S OPTIONAL N/A N/A OPTIONAL 9.4" MAST 150 133 115 100 87 83 N/A 140 140 3.9	75 STANDARD 7.5/7.0 † 6.6/5.8 † STANDARD 9.4" MAST 150 133 115 100 87 83 80 140 140 5 x	0PTIONAL 8.0/7.0 † 6.8/5.8 † 0PTIONAL 9.4" MAST 175 150 130 115 105 100 95 160 †† 160 ††	
26 28 29 31 31a 32 33 34 35 36 37 38	Stability TRAVEL SPEED Rearward (chassis first) Forward (forks first) LIFT SPEED **** Empty 1,000 lb. 2,000 lb. 3,000 lb. 3,500 lb. 4,000 lb. 4,500 lb. Lowering speeds Size - front load wheels, stand	21.25" battery compartment Right angle stack Comply with ANSI Empty/RL Empty/RL Empty **** RL****	mph mph ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min	STANDARD 7.5/7.0 6.6/5.8 STANDARD 5.5" MAST 130 110 95 78 75 N/A N/A 110 110 5 x	OPTIONAL N/A N/A OPTIONAL 9.4" MAST N/A	N/See right angl YE STANDARD 7.5/7.0 [†] 6.6/5.8 [†] STANDARD 5.5" MAST 130 110 95 78 75 70 N/A 110 110 5 x 13.5 x 5.5	A te stack table S OPTIONAL N/A N/A OPTIONAL 9.4" MAST 150 133 115 100 87 83 N/A 140 140 3.9 / 7.9 x 2.2	75 STANDARD 7.5/7.0 † 6.6/5.8 † STANDARD 9.4" MAST 150 133 115 100 87 83 80 140 140 5 x	0PTIONAL 8.0/7.0 † 6.8/5.8 † 0PTIONAL 9.4" MAST 175 150 130 115 100 95 160 † 160 † 160 †	
26 28 29 31 31a 32 33 34 35 36 37 38	Stability TRAVEL SPEED Rearward (chassis first) Forward (forks first) LIFT SPEED **** Empty 1,000 lb. 2,000 lb. 3,000 lb. 4,000 lb. 4,500 lb. Lowering speeds Size - front load wheels, stand Size, standard - drive tire/dual	21.25" battery compartment Right angle stack Comply with ANSI Empty/RL Empty/RL Empty/RL Empty **** RL**** ard casters	mph mph ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min	STANDARD 7.5/7.0 6.6/5.8 STANDARD 5.5" MAST 130 110 95 78 75 N/A N/A 110 110 5 x	OPTIONAL N/A N/A OPTIONAL 9.4" MAST N/A	N/See right angl YE STANDARD 7.5/7.0 [†] 6.6/5.8 [†] STANDARD 5.5" MAST 130 110 95 78 75 70 N/A 110 110 5 x 13.5 x 5.5.	A te stack table S OPTIONAL N/A N/A OPTIONAL 9.4" MAST 150 133 115 100 87 83 N/A 140 140 3.9 / 7.9 x 2.2 9.4" MAST	75 STANDARD 7.5/7.0 † 6.6/5.8 † STANDARD 9.4" MAST 150 133 115 100 87 83 80 140 140 5 x	OPTIONAL 8.0/7.0 † 6.8/5.8 † OPTIONAL 9.4" MAST 175 150 130 115 105 100 95 160 † 160 † 3.9	
26 28 29 31 31a 32 33 34 35 36 37 38	Stability TRAVEL SPEED Rearward (chassis first) Forward (forks first) LIFT SPEED **** Empty 1,000 lb. 2,000 lb. 3,000 lb. 3,500 lb. 4,000 lb. 4,500 lb. Lowering speeds Size - front load wheels, stand	21.25" battery compartment Right angle stack Comply with ANSI Empty/RL Empty/RL Empty/RL Empty **** RL**** ard casters 14.25" battery compartment	in. mph mph ft/min	STANDARD 7.5/7.0 6.6/5.8 STANDARD 5.5" MAST 130 110 95 78 75 N/A N/A 110 110 5 x 5.5" MAST 55.6	OPTIONAL N/A N/A N/A OPTIONAL 9.4" MAST N/A	N/See right angl YE STANDARD 7.5/7.0 [†] 6.6/5.8 [†] STANDARD 5.5" MAST 130 110 95 78 75 70 N/A 110 110 5 x 13.5 x 5.5. 5.5" MAST	A de stack table S OPTIONAL N/A N/A OPTIONAL 9.4" MAST 150 133 115 100 87 83 N/A 140 140 3.9 / 7.9 × 2.2 9.4" MAST N/A 58.5	75 STANDARD 7.5/7.0 † 6.6/5.8 † STANDARD 9.4" MAST 150 133 115 100 87 83 80 140 140 5 x	OPTIONAL 8.0/7.0 † 6.8/5.8 † OPTIONAL 9.4" MAST 175 150 130 115 105 100 95 160 †† 160 †† 3.9	
26 28 29 31 31a 32 33 34 35 36 37 38	Stability TRAVEL SPEED Rearward (chassis first) Forward (forks first) LIFT SPEED **** Empty 1,000 lb. 2,000 lb. 3,000 lb. 4,000 lb. 4,500 lb. Lowering speeds Size - front load wheels, stand Size, standard - drive tire/dual	21.25" battery compartment Right angle stack Comply with ANSI Empty/RL Empty/RL Empty/RL Empty **** RL**** ard casters 14.25" battery compartment 16.25" battery compartment	mph mph ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min in.	STANDARD 7.5/7.0 6.6/5.8 STANDARD 5.5" MAST 130 110 95 78 75 N/A N/A 110 110 5 x 5.5" MAST 55.6 57.6	OPTIONAL N/A N/A N/A OPTIONAL 9.4" MAST N/A	N/See right angl YE STANDARD 7.5/7.0 [†] 6.6/5.8 [†] STANDARD 5.5" MAST 130 110 95 78 75 70 N/A 110 110 5 x 13.5 x 5.5. 5.5" MAST	A de stack table S OPTIONAL N/A N/A OPTIONAL 9.4" MAST 150 133 115 100 87 83 N/A 140 140 3.9 / 7.9 × 2.2 9.4" MAST N/A 58.5 A	75 STANDARD 7.5/7.0 † 6.6/5.8 † STANDARD 9.4" MAST 150 133 115 100 87 83 80 140 140 5 x	OPTIONAL 8.0/7.0 † 6.8/5.8 † OPTIONAL 9.4" MAST 175 150 130 115 100 95 160 † 160 † 3.9 MAST /A	
26 28 29 31 31 32 33 34 35 36 37 38 39 41 42	Stability TRAVEL SPEED Rearward (chassis first) Forward (forks first) LIFT SPEED **** Empty 1,000 lb. 2,000 lb. 3,000 lb. 3,500 lb. 4,000 lb. 4,500 lb. Lowering speeds Size - front load wheels, stand Size, standard - drive tire/dual	21.25" battery compartment Right angle stack Comply with ANSI Empty/RL Empty/RL Empty/RL Empty **** RL**** ard casters 14.25" battery compartment 16.25" battery compartment 18.25" battery compartment 21.25" battery compartment Service/parking (method of control	in. mph mph ft/min ft/min ft/min ft/min ft/min ft/min ft/min in. in. in. in.	STANDARD 7.5/7.0 6.6/5.8 STANDARD 5.5" MAST 130 110 95 78 75 N/A N/A 110 110 5 x 5.5" MAST 55.6 57.6	OPTIONAL N/A N/A N/A OPTIONAL 9.4" MAST N/A	N/See right angl YE STANDARD 7.5/7.0 [†] 6.6/5.8 [†] STANDARD 5.5" MAST 130 110 95 78 75 70 N/A 110 110 5 x 13.5 x 5.5. 5.5" MAST 55.6 57.6	A de stack table S OPTIONAL N/A N/A OPTIONAL 9.4" MAST 150 133 115 100 87 83 N/A 140 140 3.9 (7.9 × 2.2 9.4" MAST N/A 58.5 A A	75 STANDARD 7.5/7.0 † 6.6/5.8 † STANDARD 9.4" MAST 150 133 115 100 87 83 80 140 140 5 x	OPTIONAL 8.0/7.0 † 6.8/5.8 † OPTIONAL 9.4" MAST 175 150 130 115 100 95 160 † 160 † 3.9 MAST /A 3.5 0.5	
26 28 29 31 31a 32 33 34 35 36 37 38 39 41 42	Stability TRAVEL SPEED Rearward (chassis first) Forward (forks first) LIFT SPEED **** Empty 1,000 lb. 2,000 lb. 3,000 lb. 4,000 lb. 4,500 lb. Lowering speeds Size - front load wheels, stand Size, standard - drive tire/dual	21.25" battery compartment Right angle stack Comply with ANSI Empty/RL Empty/RL Empty/RL Empty/RL ard casters 14.25" battery compartment 16.25" battery compartment 21.25" battery compartment	in. mph mph ft/min ft/min ft/min ft/min ft/min ft/min ft/min in. in. in. in.	STANDARD 7.5/7.0 6.6/5.8 STANDARD 5.5" MAST 130 110 95 78 75 N/A N/A 110 110 5 x 5.5" MAST 55.6 57.6	OPTIONAL N/A N/A N/A OPTIONAL 9.4" MAST N/A	N/See right angl YE STANDARD 7.5/7.0† 6.6/5.8† STANDARD 5.5* MAST 130 110 95 78 75 70 N/A 110 110 5 x 13.5 x 5.5 5.5* MAST 55.6 57.6	A de stack table S OPTIONAL N/A N/A OPTIONAL 9.4" MAST 150 133 115 100 87 83 N/A 140 140 3.9 (7.9 × 2.2 9.4" MAST N/A 58.5 A A auto	75 STANDARD 7.5/7.0 † 6.6/5.8 † STANDARD 9.4" MAST 150 133 115 100 87 83 80 140 140 5 x	OPTIONAL 8.0/7.0 † 6.8/5.8 † OPTIONAL 9.4" MAST 175 150 130 115 100 95 160 † 160 † 3.9 MAST /A 3.5 0.5	
26 28 29 31 31a 32 33 34 35 36 37 38 39 41 42 42 45	Stability TRAVEL SPEED Rearward (chassis first) Forward (forks first) LIFT SPEED **** Empty 1,000 lb. 2,000 lb. 3,000 lb. 3,500 lb. 4,000 lb. 4,500 lb. Lowering speeds Size - front load wheels, stand Size, standard - drive tire/dual Wheelbase Brakes Battery type	21.25" battery compartment Right angle stack Comply with ANSI Empty/RL Empty/RL Empty/RL Empty **** RL**** ard casters 14.25" battery compartment 16.25" battery compartment 21.25" battery compartment Service/parking (method of operators)	in. mph mph ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min in. in. in. ool) ation)	STANDARD 7.5/7.0 6.6/5.8 STANDARD 5.5" MAST 130 110 95 78 75 N/A N/A 110 110 5 x 5.5" MAST 55.6 57.6	OPTIONAL N/A N/A N/A OPTIONAL 9.4" MAST N/A	N/See right angl YE STANDARD 7.5/7.0† 6.6/5.8† STANDARD 5.5* MAST 130 110 95 78 75 70 N/A 110 110 110 5x 13.5 x 5.5 5.5* MAST 55.6 57.6 N/ Foot / en / spring applicid Thin Plate Porce N/ STANDARD 5.5* MAST N/A N/ Foot / en / spring applicid Thin Plate Porce STANDARD 10 110 110 110 110 110 110 110 110 110	A le stack table S OPTIONAL N/A N/A OPTIONAL 9.4" MAST 150 133 115 100 87 83 N/A 140 140 3.9 (7.9 x 2.2 9.4" MAST N/A 58.5 A A auto ly (electric releure Lead® Lithiu	75 STANDARD 7.5/7.0 † 6.6/5.8 † STANDARD 9.4 * MAST 150 133 115 100 87 83 80 140 140 5 x 9.4 * N 58 60 63	OPTIONAL 8.0/7.0 † 6.8/5.8 † OPTIONAL 9.4" MAST 175 150 130 115 100 95 160 † 160 † 3.9 MAST /A 3.5 0.5	
26 28 29 31 31a 32 33 34 35 36 37 38 39 41 42 42 45	Stability TRAVEL SPEED Rearward (chassis first) Forward (forks first) LIFT SPEED **** Empty 1,000 lb. 2,000 lb. 3,000 lb. 3,500 lb. 4,000 lb. 4,500 lb. Lowering speeds Size - front load wheels, stand Size, standard - drive tire/dual Wheelbase Brakes Battery type Traction motor rating (60 minu	21.25" battery compartment Right angle stack Comply with ANSI Empty/RL Empty/RL Empty/RL Empty **** RL**** ard casters 14.25" battery compartment 16.25" battery compartment 21.25" battery compartment Service/parking (method of operators) Service/parking (method of operators) te rating)	in. mph mph ft/min	STANDARD 7.5/7.0 6.6/5.8 STANDARD 5.5" MAST 130 110 95 78 75 N/A N/A 110 110 5 x 5.5" MAST 55.6 57.6	OPTIONAL N/A N/A N/A OPTIONAL 9.4" MAST N/A	N/ See right angl YE STANDARD 7.5/7.0† 6.6/5.8† STANDARD 5.5" MAST 130 110 95 78 75 70 N/A 110 110 5 x 13.5 x 5.5 5.5" MAST 55.6 57.6 N/ Proot / spring applicted Thin Plate Policy S.9 (Control of the Policy S.9 (C	A le stack table S OPTIONAL N/A N/A OPTIONAL 9.4" MAST 150 133 115 100 87 83 N/A 140 140 3.9 7.9 x 2.2 9.4" MAST N/A 58.5 A A auto ly (electric rele lire Lead® Lithiu 6.6)	75 STANDARD 7.5/7.0 † 6.6/5.8 † STANDARD 9.4 * MAST 150 133 115 100 87 83 80 140 140 5 x 9.4 * N 58 60 63	OPTIONAL 8.0/7.0 † 6.8/5.8 † OPTIONAL 9.4" MAST 175 150 130 115 100 95 160 † 160 † 3.9 MAST /A 3.5 0.5	
26 28 29 31 31a 32 33 34 35 36 37 38 39 41 42 42 45	Stability TRAVEL SPEED Rearward (chassis first) Forward (forks first) LIFT SPEED **** Empty 1,000 lb. 2,000 lb. 3,000 lb. 3,500 lb. 4,000 lb. 4,500 lb. Lowering speeds Size - front load wheels, stand Size, standard - drive tire/dual Wheelbase Brakes Battery type Traction motor rating (60 minuters)	21.25" battery compartment Right angle stack Comply with ANSI Empty/RL Empty/RL Empty/RL Empty **** RL**** ard casters 14.25" battery compartment 16.25" battery compartment 21.25" battery compartment Service/parking (method of operations) Service/parking (method of operations) sting)	in. mph mph ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min in. in. in. ool) ation)	STANDARD 7.5/7.0 6.6/5.8 STANDARD 5.5" MAST 130 110 95 78 75 N/A N/A 110 110 5 x 5.5" MAST 55.6 57.6	OPTIONAL N/A N/A N/A OPTIONAL 9.4" MAST N/A	N/ See right angl YE STANDARD 7.5/7.0† 6.6/5.8† STANDARD 5.5" MAST 130 110 95 78 75 70 N/A 110 110 5 x 13.5 x 5.5 5.5" MAST 55.6 N/ Foot / spring appl cid Thin Plate Po	A le stack table S OPTIONAL N/A N/A OPTIONAL 9.4" MAST 150 133 115 100 87 83 N/A 140 140 3.9 7.9 x 2.2 9.4" MAST N/A 58.5 A A auto ly (electric rele line Lead® Lithiu 6.6) 21.8)	75 STANDARD 7.5/7.0 † 6.6/5.8 † STANDARD 9.4 * MAST 150 133 115 100 87 83 80 140 140 5 x 9.4 * N 58 60 63	OPTIONAL 8.0/7.0 † 6.8/5.8 † OPTIONAL 9.4" MAST 175 150 130 115 100 95 160 † 160 † 3.9 MAST /A 3.5 0.5	
26 28 29 31 31a 32 33 34 35 36 37 38 39 41 42 42 45 46 46 47 48	Stability TRAVEL SPEED Rearward (chassis first) Forward (forks first) LIFT SPEED *** Empty 1,000 lb. 2,000 lb. 3,000 lb. 3,500 lb. 4,000 lb. 4,500 lb. Lowering speeds Size - front load wheels, stand Size, standard - drive tire/dual Wheelbase Brakes Battery type Traction motor rating (60 minuthoist motor rating (5 minuters Traction motor control method	21.25" battery compartment Right angle stack Comply with ANSI Empty/RL Empty/RL Empty/RL Empty **** RL**** ard casters 14.25" battery compartment 16.25" battery compartment 21.25" battery compartment Service/parking (method of operations) Service/parking (method of operations) sting)	in. mph mph ft/min	STANDARD 7.5/7.0 6.6/5.8 STANDARD 5.5" MAST 130 110 95 78 75 N/A N/A 110 110 5 x 5.5" MAST 55.6 57.6	OPTIONAL N/A N/A N/A OPTIONAL 9.4" MAST N/A	N/ See right angl YE STANDARD 7.5/7.0† 6.6/5.8† STANDARD 5.5" MAST 130 110 95 78 75 70 N/A 110 110 5 x 13.5 x 5.5 5.5" MAST 55.6 57.6 N/ en / spring applicid Thin Plate Pu 8.9 (29.2 (Trans	A le stack table S OPTIONAL N/A N/A OPTIONAL 9.4" MAST 150 133 115 100 87 83 N/A 140 140 3.9 7.9 x 2.2 9.4" MAST N/A 58.5 A A auto by (electric rele line Lead® Lithiu 6.6) 21.8) istor	75 STANDARD 7.5/7.0 † 6.6/5.8 † STANDARD 9.4 * MAST 150 133 115 100 87 83 80 140 140 5 x 9.4 * N 58 60 63	OPTIONAL 8.0/7.0 † 6.8/5.8 † OPTIONAL 9.4" MAST 175 150 130 115 100 95 160 † 160 † 3.9 MAST /A 3.5 0.5	
26 28 29 31 31 32 33 34 35 36 37 38 39 41 42 45 45 46 47	Stability TRAVEL SPEED Rearward (chassis first) Forward (forks first) LIFT SPEED **** Empty 1,000 lb. 2,000 lb. 3,000 lb. 3,500 lb. 4,000 lb. 4,500 lb. Lowering speeds Size - front load wheels, stand Size, standard - drive tire/dual Wheelbase Brakes Battery type Traction motor rating (60 minuters)	21.25" battery compartment Right angle stack Comply with ANSI Empty/RL Empty/RL Empty/RL Empty **** RL**** ard casters 14.25" battery compartment 16.25" battery compartment 21.25" battery compartment Service/parking (method of operations) Service/parking (method of operations) sting)	in. mph mph ft/min	STANDARD 7.5/7.0 6.6/5.8 STANDARD 5.5" MAST 130 110 95 78 75 N/A N/A 110 110 5 x 5.5" MAST 55.6 57.6	OPTIONAL N/A N/A N/A OPTIONAL 9.4" MAST N/A	N/ See right angl YE STANDARD 7.5/7.0† 6.6/5.8† STANDARD 5.5" MAST 130 110 95 78 75 70 N/A 110 110 5 x 13.5 x 5.5 5.5" MAST 55.6 N/ Foot / spring appl cid Thin Plate Po	A le stack table S OPTIONAL N/A N/A OPTIONAL 9.4" MAST 150 133 115 100 87 83 N/A 140 140 3.9 / 7.9 x 2.2 9.4" MAST N/A 58.5 A A auto by (electric rele line Lead® Lithiu 6.6) 21.8) istor istor	75 STANDARD 7.5/7.0 † 6.6/5.8 † STANDARD 9.4 * MAST 150 133 115 100 87 83 80 140 140 5 x 9.4 * N 58 60 63	OPTIONAL 8.0/7.0 † 6.8/5.8 † OPTIONAL 9.4" MAST 175 150 130 115 100 95 160 † 160 † 3.9 MAST /A 3.5 0.5	

^{*} Short or long wheelbase is for double reach only. LWB for double reach masts 332" and below

^{**} Static with rated load and max. wt. battery

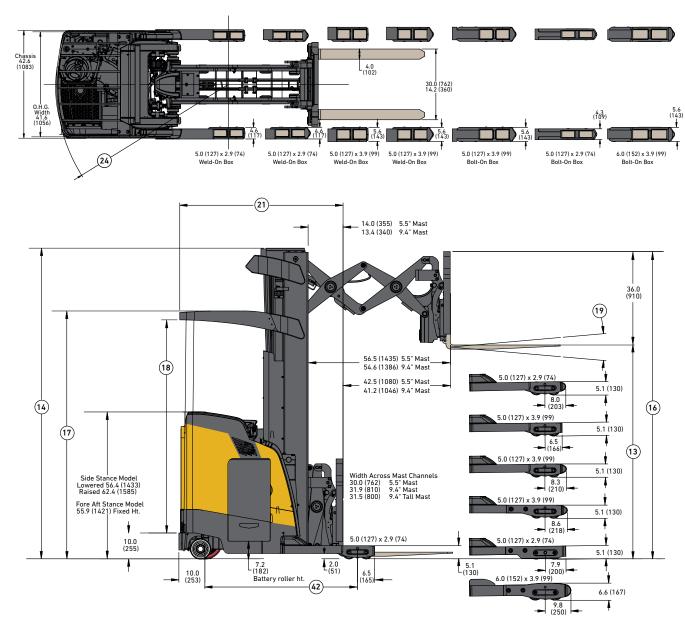
^{***} Includes integral sideshift, subtract 1" for without sideshift

^{****} Lift and lower speeds reduced for UL 'EE'

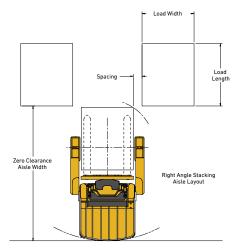
[♦] Optional with Yale Power Key

 $^{^\}dagger$ Travel speed will be reduced to 7.5 / 7.0 mph (empty / rated load) with MFHs above 341" in the forks trailing direction. Travel speed will be reduced to 6.6 / 5.8 mph (empty / rated load) with MFHs above 341" in the forks leading direction. Travel speed is reduced to 7.0mph for loads 2500lbs and greater in the forks trailing direction. Travel speed is reduced to 5.8mph for loads 2500lbs and greater in the forks leading direction.

 $^{^{\}rm tf}$ High speed lowering and high speed lift are separate options SWB = short wheel base; LWB = long wheel base



Circled truck dimensions correspond to the line numbers in the General Specifications chart. Dimensions are listed in inches (millimeters).



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

Right angle aisle stacking

NDR0	NDR030EC - 5.5" MAST								
14.25" Battery compartment and 42" ID									
3 Stage	- 6" betw	een loads	5						
	Pallet width (inches)								
		36	40	44	48				
Pallet	36	87	86	86	86				
length (inches)	40	91	90	90	89				
(11101103)	44	96	95	95	94				
	48	100	100	99	99				

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

NDR0	NDR030-035EC - 9.4" MAST										
16.25" Battery compartment and 42" ID											
3 Stage	- 6" betw	een loads	5								
	Pallet width (inches)										
		36	40	44	48						
Pallet	36	92	91	91	90						
length (inches)	40	96	96	95	95						
(11101103)	44	101	100	100	99						
	48	105	105	104	104						

Sideshift is standard on double reach Add 2" for 18.25" battery compartment (NDR035EC only) Add 5" for 21.25" battery compartment (NDR035EC only)

GENE	RAL SPECIFICATIONS NO	IRN3N-N35FC							
OLIVE 4		11000 00020				1			V. I.
	Manufacturer name					ale		NE	Yale
3	Model			LIMP		D30EC	CIMID		R035EC
	Wheel base designation *		11. (1)	LWB	SWB	LWB	SWB	LWB	SWB
4 5 6	Rated capacity	Distance	lb. (kg)		3000	(1361)	24 (6		00 (1588)
³	Load center		in. (mm)						
6 6	Power type	Electric, diesel, LPG					Electric Sta		
8	Operator type	Load/caster/drive							
9	Tire type Wheels, number load/drive (x=						Poly/Po 4 / 2	· · · · · · · · · · · · · · · · · · ·	
_	Truck weight, without battery (lb.			550	4 / 2		6190
± 10 ≥ 12	Axle loading with assembly ret		lb.			/4589			78/4458
13	Axte todding with assembly ret	Standard lift (TOF)	in. (mm)		0407	74307		7.5	7074430
14		Standard mast lowered (OALH)	in. (mm)	_					
15		Freelift (TOF)	in. (mm)	_					
16	Height	Standard mast extended w/LBR	in. (mm)				See ma	st table	
17		Top of OHG	in. (mm)	_					
18		Operator clearance	in. (mm)	_					
19	Mast tilt angle	Forward/back	degrees				3 /	/ 4	
20	Forks, standard (length x width		in.		1.60 x	3.9 x 42			x 3.9 x 42
21	Headlength to face of forks	All battery compartments ***	in. (mm)				See ma		
22	Outrigger ID	,	in.			3	4"- 49" (1"	increments)	
21 22		14.25" - (LxWxH)	in.		39.0 x 14	.25 x 31.5			N/A
		16.25" - (LxWxH)	in.		39.0 x 16	.25 x 31.5		39.0 x	16.25 x 31.5
23	Battery compartment size	18.25" - (LxWxH)	in.		N	/A		39.0 x	18.25 x 31.5
		21.25" - (LxWxH)	in.		N	/A		39.0 x	21.25 x 31.5
				5.5" 1	MAST	9.4" N	MAST	9.4	" MAST
		14.25" battery compartment	in.	70.6	N/A	N/A	N/A		N/A
24	Turning radius - min. outside	16.25" battery compartment	in.	72.6	N/A	72.6	68.5	72.6	68.5
24	Turriing radius - Illin. Outside	18.25" battery compartment	in.	N/A		/ A		74.6	70.5
	!		111.		IN	/ A		74.0	70.5
		21.25" battery compartment	in.			/A		77.6	73.5
25	Aisle width - zero clearance		+			/A		77.6 le stack table	
25 26	Stability	21.25" battery compartment	+		N	/A Se	YE	77.6 le stack table S	73.5
26	Stability TRAVEL SPEED	21.25" battery compartment Right angle stack Comply with ANSI	in.	STAN	N DARD	/A Se	YE	77.6 le stack table S STANDARD	73.5
26 28	Stability TRAVEL SPEED Rearward (chassis first)	21.25" battery compartment Right angle stack Comply with ANSI Empty/RL	in.	7.5/	DARD 7.0 [†]	/A Se OPTIO	YE DNAL 'A	77.6 le stack table ES STANDARD 7.5/7.0 †	73.5 OPTIONAL 8.0/7.0 †
26	TRAVEL SPEED Rearward (chassis first) Forward (forks first)	21.25" battery compartment Right angle stack Comply with ANSI	in.	7.5/ 6.6/	DARD 7.0 [†] 5.8 [†]	Se OPTION N/	YE DNAL 'A	77.6 le stack table ES STANDARD 7.5/7.0 † 6.6/5.8 †	73.5 OPTIONAL 8.0/7.0 † 6.8/5.8 †
26 28 29	Stability TRAVEL SPEED Rearward (chassis first)	21.25" battery compartment Right angle stack Comply with ANSI Empty/RL	in.	7.5/ 6.6/ STAN	DARD 7.0 [†] 5.8 [†] DARD	Se OPTIC N/ OPTIC	YE DNAL /A /A DNAL	77.6 le stack table ES STANDARD 7.5/7.0 † 6.6/5.8 † STANDARD	73.5 OPTIONAL 8.0/7.0 † 6.8/5.8 † OPTIONAL
26 28 29	Stability TRAVEL SPEED Rearward (chassis first) Forward (forks first) LIFT SPEED ****	21.25" battery compartment Right angle stack Comply with ANSI Empty/RL	in.	7.5/ 6.6/ STAN 5.5" I	DARD 7.0† 5.8† DARD MAST	OPTIC N/ OPTIC 9.4" N	YE DNAL 'A 'A DNAL MAST	77.6 le stack table S STANDARD 7.5/7.0 † 6.6/5.8 † STANDARD 9.4" MAST	73.5 OPTIONAL 8.0/7.0 † 6.8/5.8 † OPTIONAL 9.4" MAST
26 28 29	TRAVEL SPEED Rearward (chassis first) Forward (forks first)	21.25" battery compartment Right angle stack Comply with ANSI Empty/RL	mph mph	7.5/ 6.6/ STAN 5.5" I	DARD 7.0 † 5.8 † DARD MAST	Se OPTIC N/ OPTIC	YEDNAL ZAZANAL ZAZANAL ZAZANAL ZAZANAL	77.6 le stack table ES STANDARD 7.5/7.0 † 6.6/5.8 † STANDARD	73.5 OPTIONAL 8.0/7.0 † 6.8/5.8 † OPTIONAL
26 28 29	Stability TRAVEL SPEED Rearward (chassis first) Forward (forks first) LIFT SPEED **** Empty	21.25" battery compartment Right angle stack Comply with ANSI Empty/RL	mph mph ft/min	7.5/ 6.6/ STAN 5.5" I	DARD 7.0 † 5.8 † DARD MAST 30	/A Se OPTIC N/ N/ N/ OPTIC 9.4" N	YEDNAL YA DNAL MAST 50 33	77.6 le stack table S STANDARD 7.5/7.0 † 6.6/5.8 † STANDARD 9.4" MAST	73.5 OPTIONAL 8.0/7.0† 6.8/5.8† OPTIONAL 9.4" MAST 175
26 28 29	Stability TRAVEL SPEED Rearward (chassis first) Forward (forks first) LIFT SPEED **** Empty 1,000 lb.	21.25" battery compartment Right angle stack Comply with ANSI Empty/RL	mph mph ft/min ft/min	7.5/ 6.6/ STAN 5.5" I	DARD 7.0 † 5.8 † DARD MAST 30 10	/A Se OPTIC N/ OPTIC 9.4" N 15	YEDNAL 'A CONAL MAST 'GO 33 5	77.6 le stack table S STANDARD 7.5/7.0 † 6.6/5.8 † STANDARD 9.4" MAST 150 135	73.5 OPTIONAL 8.0/7.0 † 6.8/5.8 † OPTIONAL 9.4" MAST 175 150
26 28 29 31 31a 32	Stability TRAVEL SPEED Rearward (chassis first) Forward (forks first) LIFT SPEED **** Empty 1,000 lb. 2,000 lb.	21.25" battery compartment Right angle stack Comply with ANSI Empty/RL	mph mph ft/min ft/min	7.5/ 6.6/ STAN 5.5" I 13	DARD 7.0 † 5.8 † DARD MAST 30 10 5	/A Se OPTIC N/ N/ OPTIC 9.4" N 15 13	YEDNAL YA ONAL MAST 60 83 5	77.6 le stack table S STANDARD 7.5/7.0 † 6.6/5.8 † STANDARD 9.4" MAST 150 135	73.5 OPTIONAL 8.0/7.0 † 6.8/5.8 † OPTIONAL 9.4" MAST 175 150 130
26 28 29 31 31a 32 33	Stability TRAVEL SPEED Rearward (chassis first) Forward (forks first) LIFT SPEED **** Empty 1,000 lb. 2,000 lb. 3,000 lb.	21.25" battery compartment Right angle stack Comply with ANSI Empty/RL	mph mph ft/min ft/min ft/min	7.5/ 6.6/ STAN 5.5" I 13 11	DARD 7.0 † 5.8 † DARD MAST 30 10 5 8	/A Se OPTIC N/ N/ OPTIC 9.4" N 15 13 11	YEDNAL AA DNAL MAST 50 50 74	77.6 le stack table S STANDARD 7.5/7.0 † 6.6/5.8 † STANDARD 9.4" MAST 150 135 120	73.5 OPTIONAL 8.0/7.0† 6.8/5.8† OPTIONAL 9.4" MAST 175 150 130 115
26 28 29 31 31a 31a 32 33 34	Stability TRAVEL SPEED Rearward (chassis first) Forward (forks first) LIFT SPEED **** Empty 1,000 lb. 2,000 lb. 3,000 lb. 3,500 lb.	21.25" battery compartment Right angle stack Comply with ANSI Empty/RL Empty/RL	mph mph ft/min ft/min ft/min ft/min	7.5/ 6.6/ STAN 5.5" I 13 11 9	DARD 7.0 † 5.8 † DARD MAST 30 10 5 8 //A	/A Se OPTIC N/ N/ OPTIC 9.4" N 15 13 11	YEDNAL AA DNAL MAST 50 33 5 100 AA A	77.6 le stack table S STANDARD 7.5/7.0 † 6.6/5.8 † STANDARD 9.4" MAST 150 135 120 103 95	73.5 OPTIONAL 8.0/7.0 † 6.8/5.8 † OPTIONAL 9.4" MAST 175 150 130 115 95
28 29 31 31a 32 33 34 35	Stability TRAVEL SPEED Rearward (chassis first) Forward (forks first) LIFT SPEED **** Empty 1,000 lb. 2,000 lb. 3,000 lb. 3,500 lb. 4,000 lb. 4,500 lb.	21.25" battery compartment Right angle stack Comply with ANSI Empty/RL Empty/RL	mph mph ft/min ft/min ft/min ft/min ft/min ft/min	7.5/ 6.6/ STAN 5.5" I 13 11 9 7	DARD 7.0 † 5.8 † DARD MAST 30 10 5 8 7/A	/A Se OPTIC N/ N/ OPTIC 9.4" N 15 13 11 10 N/	YEDNAL MAST 50 33 5 100 1'A	77.6 le stack table ES STANDARD 7.5/7.0 † 6.6/5.8 † STANDARD 9.4" MAST 150 135 120 103 95 N/A	73.5 OPTIONAL 8.0/7.0† 6.8/5.8† OPTIONAL 9.4" MAST 175 150 130 115 95 N/A
26 28 29 31 31a 31a 32 33 34 35 36	Stability TRAVEL SPEED Rearward (chassis first) Forward (forks first) LIFT SPEED **** Empty 1,000 lb. 2,000 lb. 3,000 lb. 3,500 lb. 4,000 lb.	21.25" battery compartment Right angle stack Comply with ANSI Empty/RL	in. mph mph ft/min ft/min ft/min ft/min ft/min ft/min ft/min	7.5/ 6.6/ STAN 5.5" I 13 11 9 7 N,	N DARD 7.0 † 5.8 † DARD MAST 30 10 5 8 /A /A	/A Se OPTIC N/ N/ OPTIC 9.4" N 15 13 11 10 N/	YE DNAL // A DNAL // A DNAL // A 33 5 5 00 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	77.6 le stack table ES STANDARD 7.5/7.0 † 6.6/5.8 † STANDARD 9.4" MAST 150 135 120 103 95 N/A N/A	73.5 OPTIONAL 8.0/7.0† 6.8/5.8† OPTIONAL 9.4" MAST 175 150 130 115 95 N/A N/A
28 29 31 31a 32 33 34 35 36 37	Stability TRAVEL SPEED Rearward (chassis first) Forward (forks first) LIFT SPEED **** Empty 1,000 lb. 2,000 lb. 3,000 lb. 3,500 lb. 4,000 lb. 4,500 lb.	21.25" battery compartment Right angle stack Comply with ANSI Empty/RL Empty/RL Empty/RL Empty **** RL	ft/min	7.5/ 6.6/ STAN 5.5" I 13 11 9 7 N, N,	N DARD 7.0 † 5.8 † DARD MAST 30 10 5 8 /A /A 10 10 10	/A Se OPTIC N/ N/ OPTIC 9.4" N 15 13 11 10 N/ N/ N/ N/ N/ N/	YE DNAL // A DNAL // A DNAL // A 33 5 5 00 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	77.6 le stack table ES STANDARD 7.5/7.0 † 6.6/5.8 † STANDARD 9.4" MAST 150 135 120 103 95 N/A N/A 140 140	73.5 OPTIONAL 8.0/7.0 † 6.8/5.8 † OPTIONAL 9.4" MAST 175 150 130 115 95 N/A N/A 160 ††
28 29 31 31a 32 33 34 35 36 37 38	Stability TRAVEL SPEED Rearward (chassis first) Forward (forks first) LIFT SPEED **** Empty 1,000 lb. 2,000 lb. 3,000 lb. 3,500 lb. 4,000 lb. 4,500 lb. Lowering speeds	21.25" battery compartment Right angle stack Comply with ANSI Empty/RL Empty/RL Empty/RL Empty **** RL ****	ft/min	7.5/ 6.6/ STAN 5.5" I 13 11 9 7 N, N,	N DARD 7.0 † 5.8 † DARD MAST 30 10 5 8 /A /A 10 10 10	/A Se OPTIC N/ N/ OPTIC 9.4" N 15 13 11 10 N/ N/ N/ N/ 14	YE DNAL // A DNAL // A DNAL // A 33 5 5 00 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	77.6 le stack table ES STANDARD 7.5/7.0 † 6.6/5.8 † STANDARD 9.4 MAST 150 135 120 103 95 N/A N/A 140 140 140	73.5 OPTIONAL 8.0/7.0 † 6.8/5.8 † OPTIONAL 9.4" MAST 175 150 130 115 95 N/A N/A N/A 160 †† 160 †† 5 x 2.9
28 29 31 31a 32 33 34 35 36 37 38	Stability TRAVEL SPEED Rearward (chassis first) Forward (forks first) LIFT SPEED **** Empty 1,000 lb. 2,000 lb. 3,000 lb. 3,500 lb. 4,000 lb. 4,500 lb. Lowering speeds Size - front load wheels, stand	21.25" battery compartment Right angle stack Comply with ANSI Empty/RL Empty/RL Empty/RL Empty **** RL ****	ft/min	7.5/ 6.6/ STAN 5.5" I 13 11 9 7 N, N,	DARD 7.0 † 5.8 † DARD MAST 300 110 55 8 //A //A 110 110 5 ×	/A Se OPTIC N/ N/ OPTIC 9.4" N 15 13 11 10 N/ N/ N/ N/ 14	YE DNAL	77.6 le stack table ES STANDARD 7.5/7.0 † 6.6/5.8 † STANDARD 9.4 MAST 150 135 120 103 95 N/A N/A 140 140 140	73.5 OPTIONAL 8.0/7.0 † 6.8/5.8 † OPTIONAL 9.4" MAST 175 150 130 115 95 N/A N/A N/A 160 †† 160 ††
28 29 31 31a 32 33 34 35 36 37 38	Stability TRAVEL SPEED Rearward (chassis first) Forward (forks first) LIFT SPEED **** Empty 1,000 lb. 2,000 lb. 3,000 lb. 3,500 lb. 4,000 lb. 4,500 lb. Lowering speeds Size - front load wheels, stand	21.25" battery compartment Right angle stack Comply with ANSI Empty/RL Empty/RL Empty **** RL ***** ard casters 14.25" battery compartment	in. mph mph ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min	7.5/ 6.6/ STAN 5.5" I 11 9 7 N, N, 11 11	DARD 7.0 † 5.8 † DARD MAST 30 10 10 55 8 //A //A //A 10 10 5 x	/A Se OPTIC N/ N/ OPTIC 9.4" N 15 13 11 10 N/ N/ N/ 2.9	YEDNAL /A	77.6 le stack table ES STANDARD 7.5/7.0 † 6.6/5.8 † STANDARD 9.4* MAST 150 135 120 103 95 N/A N/A 140 140 1/7.9 x 2.2	73.5 OPTIONAL 8.0/7.0 † 6.8/5.8 † OPTIONAL 9.4" MAST 175 150 130 115 95 N/A N/A 160 †† 160 †† 160 †† 170 170 170 170 170 170 170 1
28 29 31 31a 32 33 34 35 36 37 38	Stability TRAVEL SPEED Rearward (chassis first) Forward (forks first) LIFT SPEED **** Empty 1,000 lb. 2,000 lb. 3,000 lb. 4,000 lb. 4,500 lb. Lowering speeds Size - front load wheels, stand Size, standard - drive tire/dual	21.25" battery compartment Right angle stack Comply with ANSI Empty/RL Empty/RL Empty/RL Empty **** RL **** ard casters 14.25" battery compartment 16.25" battery compartment	in. mph mph ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min in. in.	7.5/ 6.6/ STAN 5.5" I 13 11 9 7 N, N, N,	N DARD 7.0 † 5.8 † DARD MAST 30 10 10 5 × MAST N/A N/A N/A	/A Se OPTIC N/ N/ OPTIC 9.4" N 15 13 11 10 N/ N/ N/ N/ N/ N/ 14 2.9	YEDNAL AA DNAL MAST 60 33 5 00 AA AA AA AA AA AA AA AA	77.6 le stack table ES STANDARD 7.5/7.0 † 6.6/5.8 † STANDARD 9.4" MAST 150 135 120 103 95 N/A N/A 140 140 1/7.9 x 2.2 9.4	73.5 OPTIONAL 8.0/7.0 † 6.8/5.8 † OPTIONAL 9.4" MAST 175 150 130 115 95 N/A N/A 160 †† 160 †† 160 †† 170 170 170 170 170 170 170 1
28 29 31 31a 32 33 34 35 36 37 38	Stability TRAVEL SPEED Rearward (chassis first) Forward (forks first) LIFT SPEED **** Empty 1,000 lb. 2,000 lb. 3,000 lb. 3,500 lb. 4,000 lb. 4,500 lb. Lowering speeds Size - front load wheels, stand	21.25" battery compartment Right angle stack Comply with ANSI Empty/RL Empty/RL Empty/RL Empty **** RL **** ard casters 14.25" battery compartment 16.25" battery compartment 18.25" battery compartment	in. mph mph ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min in. in.	7.5/ 6.6/ STAN 5.5" I 11 9 7 N, N, 11 11	DARD 7.0 † 5.8 † DARD MAST 30 110 15 8 7/A 7/A 110 10 5 x MAST N/A N/A N	/A Se OPTIC N/ N/ OPTIC 9.4" N 15 13 11 10 N/ N/ N/ N/ N/ N/ 14 2.9	YEDNAL /A	77.6 le stack table ES STANDARD 7.5/7.0 † 6.6/5.8 † STANDARD 9.4" MAST 150 135 120 103 95 N/A N/A 140 140 140 / 7.9 x 2.2 9.4	73.5 OPTIONAL 8.0/7.0 † 6.8/5.8 † OPTIONAL 9.4" MAST 175 150 130 115 95 N/A N/A 160 †† 160 †† 160 †† 5 × 2.9 "MAST N/A 58.5 60.5
28 29 31 31a 32 33 34 35 36 37 38 39 41	Stability TRAVEL SPEED Rearward (chassis first) Forward (forks first) LIFT SPEED **** Empty 1,000 lb. 2,000 lb. 3,000 lb. 4,000 lb. 4,500 lb. Lowering speeds Size - front load wheels, stand Size, standard - drive tire/dual	21.25" battery compartment Right angle stack Comply with ANSI Empty/RL Empty/RL Empty/RL Empty **** RL **** ard casters 14.25" battery compartment 16.25" battery compartment 18.25" battery compartment 21.25" battery compartment	in. mph mph ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min in. in. in.	7.5/ 6.6/ STAN 5.5" I 11 9 7 N, N, 11 11	DARD 7.0 † 5.8 † DARD MAST 30 110 15 8 7/A 7/A 110 10 5 x MAST N/A N/A N	/A Se OPTIC N/ N/ OPTIC 9.4" N 15 13 11 10 N/ N/ N/ N/ N/ N/ 14 2.9	YEDNAL AA AA DNAL MAST 50 33 5 00 AA AA AA AA AA AA AA AA	77.6 le stack table ES STANDARD 7.5/7.0 † 6.6/5.8 † STANDARD 9.4" MAST 150 135 120 103 95 N/A N/A 140 140 140 / 7.9 x 2.2 9.40 62.6 64.6 67.6	73.5 OPTIONAL 8.0/7.0 † 6.8/5.8 † OPTIONAL 9.4" MAST 175 150 130 115 95 N/A N/A 160 †† 160 †† 160 †† 170 170 170 170 170 170 170 1
28 29 31 31a 32 33 34 35 36 37 38 39 41	Stability TRAVEL SPEED Rearward (chassis first) Forward (forks first) LIFT SPEED **** Empty 1,000 lb. 2,000 lb. 3,000 lb. 4,000 lb. 4,000 lb. Lowering speeds Size - front load wheels, stand Size, standard - drive tire/dual	21.25" battery compartment Right angle stack Comply with ANSI Empty/RL Empty/RL Empty/RL Empty/RL All All All All All All All A	in. mph mph ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min in. in. in.	7.5/ 6.6/ STAN 5.5" I 11 9 7 N, N, 11 11	DARD 7.0 † 5.8 † DARD MAST 30 110 15 8 7/A 7/A 110 10 5 x MAST N/A N/A N	OPTIC N/ N/ OPTIC 9.4" N 15 13 11 10 N/ N/ N/ N/ N/ N/ A 2.9	YEDNAL AA AA DNAL MAST 50 33 5 50 AA AA AA AA AA AA AA AA	77.6 le stack table ES STANDARD 7.5/7.0 † 6.6/5.8 † STANDARD 9.4" MAST 150 135 120 103 95 N/A N/A 140 140 140 / 7.9 x 2.2 9.4 62.6 64.6 67.6 (Auto	73.5 OPTIONAL 8.0/7.0 † 6.8/5.8 † OPTIONAL 9.4" MAST 175 150 130 115 95 N/A N/A 160 †† 160 †† 160 †† 5 × 2.9 "MAST N/A 58.5 60.5
28 29 31 31a 32 33 34 35 36 37 38 39 41	Stability TRAVEL SPEED Rearward (chassis first) Forward (forks first) LIFT SPEED **** Empty 1,000 lb. 2,000 lb. 3,000 lb. 4,000 lb. 4,500 lb. Lowering speeds Size - front load wheels, stand Size, standard - drive tire/dual Wheelbase Brakes	21.25" battery compartment Right angle stack Comply with ANSI Empty/RL Empty/RL Empty/RL Empty **** RL **** ard casters 14.25" battery compartment 16.25" battery compartment 18.25" battery compartment 21.25" battery compartment	in. mph mph ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min in. in. in.	7.5/ 6.6/ STAN 5.5" I 11 9 7 N, N, 11 11	DARD 7.0 † 5.8 † DARD MAST 30 110 15 8 7/A 7/A 110 10 5 x MAST N/A N/A N	OPTIC N/ N/ OPTIC 9.4" N 15 13 11 10 N/ N/ N/ N/ 2.9 9.4" N 4 2.9	YEDNAL AA AA AA BONAL MAST BOO BOO BOO BOO BOO BOO BOO B	77.6 le stack table ES STANDARD 7.5/7.0 † 6.6/5.8 † STANDARD 9.4" MAST 150 135 120 103 95 N/A N/A 140 140 140 / 7.9 x 2.2 9.4 62.6 64.6 67.6 / Auto ly (electric release)	73.5 OPTIONAL 8.0/7.0 † 6.8/5.8 † OPTIONAL 9.4" MAST 175 150 130 115 95 N/A N/A 160 †† 160 †† 160 †† 5 × 2.9 "MAST N/A 58.5 60.5 63.5
28 29 31 31a 32 33 34 35 36 37 38 39 41 42 43 44 45	Stability TRAVEL SPEED Rearward (chassis first) Forward (forks first) LIFT SPEED **** Empty 1,000 lb. 2,000 lb. 3,500 lb. 4,000 lb. 4,500 lb. Lowering speeds Size - front load wheels, stand Size, standard - drive tire/dual Wheelbase Brakes Battery type	21.25" battery compartment Right angle stack Comply with ANSI Empty/RL Empty/RL Empty/RL Empty/RL All Empty **** RL 14.25" battery compartment 16.25" battery compartment 18.25" battery compartment 21.25" battery compartment Service/parking (method of operations)	in. mph mph ft/min ft/min ft/min ft/min ft/min ft/min ft/min in. in. in. in.	7.5/ 6.6/ STAN 5.5" I 11 9 7 N, N, 11 11	DARD 7.0 † 5.8 † DARD MAST 30 110 15 8 7/A 7/A 110 10 5 x MAST N/A N/A N	OPTIC N/ N/ OPTIC 9.4" N 15 13 11 10 N/ N/ N/ N/ 2.9 9.4" N 4 2.9	YEDNAL (A A DNAL (A	77.6 le stack table ES STANDARD 7.5/7.0 † 6.6/5.8 † STANDARD 9.4" MAST 150 135 120 103 95 N/A N/A 140 140 140 17.9 x 2.2 9.4 62.6 64.6 67.6 'Auto ly (electric release) ure Lead ⁶ Lithium-io	73.5 OPTIONAL 8.0/7.0 † 6.8/5.8 † OPTIONAL 9.4" MAST 175 150 130 115 95 N/A N/A 160 # 160 # 160 # 5 × 2.9 "MAST N/A 58.5 60.5 63.5
28 29 31 31a 32 33 34 35 36 37 38 39 41 42 43 44 45	Stability TRAVEL SPEED Rearward (chassis first) Forward (forks first) LIFT SPEED **** Empty 1,000 lb. 2,000 lb. 3,500 lb. 4,000 lb. 4,500 lb. Lowering speeds Size - front load wheels, stand Size, standard - drive tire/dual Wheelbase Brakes Battery type Traction motor rating (60 minu	21.25" battery compartment Right angle stack Comply with ANSI Empty/RL Empty/RL Empty/RL Empty/RL Empty **** RL ***** ard casters 14.25" battery compartment 16.25" battery compartment 18.25" battery compartment 21.25" battery compartment Service/parking (method of control Service/parking (method of operator) Empty **** Empty **** **** **** **** **** **** ****	in. mph mph ft/min	7.5/ 6.6/ STAN 5.5" I 11 9 7 N, N, 11 11	DARD 7.0 † 5.8 † DARD MAST 30 110 15 8 7/A 7/A 110 10 5 x MAST N/A N/A N	OPTIC N/ N/ OPTIC 9.4" N 15 13 11 10 N/ N/ N/ N/ 2.9 9.4" N 4 2.9	YEDNAL 'A	77.6 le stack table ES STANDARD 7.5/7.0 † 6.6/5.8 † STANDARD 9.4" MAST 150 135 120 103 95 N/A N/A 140 140 140 1/7.9 x 2.2 9.6 62.6 64.6 67.6 / Auto ly (electric release) ure Lead ⁰ Lithium-io (6.6)	73.5 OPTIONAL 8.0/7.0 † 6.8/5.8 † OPTIONAL 9.4" MAST 175 150 130 115 95 N/A N/A 160 †† 160 †† 160 †† 5 × 2.9 "MAST N/A 58.5 60.5 63.5
28 29 31 31a 32 33 34 35 36 37 38 39 41 42 43 44 45	Stability TRAVEL SPEED Rearward (chassis first) Forward (forks first) LIFT SPEED **** Empty 1,000 lb. 2,000 lb. 3,000 lb. 4,000 lb. 4,500 lb. Lowering speeds Size - front load wheels, stand Size, standard - drive tire/dual Wheelbase Brakes Battery type Traction motor rating (60 minuthoist motor rating (5 minute rating 15	21.25" battery compartment Right angle stack Comply with ANSI Empty/RL Empty/RL Empty/RL Empty/RL Empty/RL And casters 14.25" battery compartment 18.25" battery compartment 21.25" battery compartment Service/parking (method of control Service/parking (method of operatter rating) ting)	in. mph mph ft/min ft/min ft/min ft/min ft/min ft/min ft/min in. in. in. in.	7.5/ 6.6/ STAN 5.5" I 11 9 7 N, N, 11 11	DARD 7.0 † 5.8 † DARD MAST 30 110 15 8 7/A 7/A 110 10 5 x MAST N/A N/A N	OPTIC N/ N/ OPTIC 9.4" N 15 13 11 10 N/ N/ N/ N/ 2.9 9.4" N 4 2.9	YEDNAL YA ONAL MAST OO OO OO OO OO OO OO OO OO	77.6 le stack table ES STANDARD 7.5/7.0 † 6.6/5.8 † STANDARD 9.4" MAST 150 135 120 103 95 N/A N/A 140 140 140 1/7.9 x 2.2 9.6 62.6 64.6 67.6 / Auto ly (electric release) ure Lead ⁰ Lithium-io (6.6) (21.8)	73.5 OPTIONAL 8.0/7.0 † 6.8/5.8 † OPTIONAL 9.4" MAST 175 150 130 115 95 N/A N/A 160 †† 160 †† 160 †† 5 × 2.9 ** MAST N/A 58.5 60.5 63.5
28 29 31 31a 32 33 34 35 36 37 38 39 41 42 42 43 44 45 46 47 48	Stability TRAVEL SPEED Rearward (chassis first) Forward (forks first) LIFT SPEED **** Empty 1,000 lb. 2,000 lb. 3,000 lb. 4,000 lb. 4,500 lb. Lowering speeds Size - front load wheels, stand Size, standard - drive tire/dual Wheelbase Brakes Battery type Traction motor rating (60 minuthoist motor rating (5 minuters Traction motor control method	21.25" battery compartment Right angle stack Comply with ANSI Empty/RL Empty/RL Empty/RL Empty/RL Empty/RL And casters 14.25" battery compartment 18.25" battery compartment 21.25" battery compartment Service/parking (method of control Service/parking (method of operatter rating) ting)	in. mph mph ft/min	7.5/ 6.6/ STAN 5.5" I 11 9 7 N, N, 11 11	DARD 7.0 † 5.8 † DARD MAST 30 110 15 8 7/A 7/A 110 10 5 x MAST N/A N/A N	OPTIC N/ N/ OPTIC 9.4" N 15 13 11 10 N/ N/ N/ N/ 2.9 9.4" N 4 2.9	YEDNAL 'A	77.6 le stack table ES STANDARD 7.5/7.0 † 6.6/5.8 † STANDARD 9.4" MAST 150 135 120 103 95 N/A N/A 140 140 140 140 17.9 x 2.2 9.2 62.6 64.6 67.6 'Auto ly (electric release) ure Lead ⁰ Lithium-io (6.6) (21.8) sistor	73.5 OPTIONAL 8.0/7.0 † 6.8/5.8 † OPTIONAL 9.4" MAST 175 150 130 115 95 N/A N/A 160 †† 160 †† 160 †† 5 × 2.9 ** MAST N/A 58.5 60.5 63.5
28 29 31 31a 32 33 34 35 36 37 38 39 41 42 42 42 43 44 45 46 47	Stability TRAVEL SPEED Rearward (chassis first) Forward (forks first) LIFT SPEED **** Empty 1,000 lb. 2,000 lb. 3,000 lb. 4,000 lb. 4,500 lb. Lowering speeds Size - front load wheels, stand Size, standard - drive tire/dual Wheelbase Brakes Battery type Traction motor rating (60 minuthoist motor rating (5 minute rating 15	21.25" battery compartment Right angle stack Comply with ANSI Empty/RL Empty/RL Empty/RL Empty/RL Empty/RL And casters 14.25" battery compartment 18.25" battery compartment 21.25" battery compartment Service/parking (method of control Service/parking (method of operatter rating) ting)	in. mph mph ft/min	7.5/ 6.6/ STAN 5.5" I 11 9 7 N, N, 11 11	DARD 7.0 † 5.8 † DARD MAST 30 110 15 8 7/A 7/A 110 10 5 x MAST N/A N/A N	OPTIC N/ N/ OPTIC 9.4" N 15 13 11 10 N/ N/ N/ N/ 2.9 9.4" N 4 2.9	YEDNAL YA ONAL MAST OO OO OO OO OO OO OO OO OO	77.6 le stack table ES STANDARD 7.5/7.0 † 6.6/5.8 † STANDARD 9.4" MAST 150 135 120 103 95 N/A N/A 140 140 140 17.9 x 2.2 9.2 62.6 64.6 67.6 'Auto ly (electric release) ure Lead® Lithium-io (6.6) (21.8) sistor	73.5 OPTIONAL 8.0/7.0 † 6.8/5.8 † OPTIONAL 9.4" MAST 175 150 130 115 95 N/A N/A 160 †† 160 †† 160 †† 5 × 2.9 ** MAST N/A 58.5 60.5 63.5

^{*} Short or long wheelbase is for double reach only. LWB for double reach masts 332" and below

^{**} Static with rated load and max. wt. battery

^{***} Includes integral sideshift, subtract 1" for without sideshift

^{****} Lift and lower speeds reduced for UL 'EE'

Optional with Yale Power Key

 $^{^\}dagger$ Travel speed will be reduced to 7.5 / 7.0 mph (empty / rated load) with MFHs above 341" in the forks trailing direction. Travel speed will be reduced to 6.6 / 5.8 mph (empty / rated load) with MFHs above 341" in the forks leading direction. Travel speed is reduced to 7.0mph for loads 2500lbs and greater in the forks trailing direction. Travel speed is reduced to 5.8mph for loads 2500lbs and greater in the forks leading direction.

 $^{^{\}rm tf}$ High speed lowering and high speed lift are separate options SWB = short wheel base; LWB = long wheel base

NR035-040	NR035-040EC & NDR030EC MAST DIMENSIONS (5.5" STANDARD)											
Overall	Max. fork	Free-lift	Overall height (mast extended)	Overhead guard height	Operator		Head length (leng	th to face of forks)				
lowered ht.	height (TOF)	(TOF)	highest point w/36" LBR	to top	clearance	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			
125 (3175)	287 (7290)	86 (2184)	325 (8255)	95 (2416)	82.3 (2090)	52.16	57.83	54.21	59.88			
131 (3327)									59.88			

NR040-0	NR040-045EC & NDR030-035EC MAST DIMENSIONS (9.4" PREMIUM)												
Overall	Max. fork	Free-lift	Overall height (mast extended)	Overhead guard	Operator		Hea	nd length (leng	th to face of fo	forks)			
lowered ht.	height (TOF)	(TOF)	highest point w/36" LBR	height to top	clearance	16.	25"	18.	25"	21.	25"		
in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)	Single reach	Double reach	Single reach	Double reach	Single reach	Double reach		
	3-STAGE FULL FREE-LIFT (FFL) VISTA™ MAST												
95 (2413)	210 (5334)	59 (1509)	246 (6248)	95 (2416)	82.3 (2090)	57.20	62.91	59.17	64.92	62.12	67.91		
107 (2718)	241 (6121)	71 (1814)	277 (7036)	95 (2416)	82.3 (2090)	57.20	62.91	59.17	64.92	62.12	67.91		
110 (2794)	250 (6350)	74 (1890)	286 (7264)	95 (2416)	82.3 (2090)	57.20	62.91	59.17	64.92	62.12	67.91		
119 (3023)	272 (6909)	83 (2118)	308 (7823)	95 (2416)	82.3 (2090)	57.20	62.91	59.17	64.92	62.12	67.91		
125 (3175)	287 (7290)	89 (2271)	323 (8204)	95 (2416)	82.3 (2090)	57.20	62.91	59.17	64.92	62.12	67.91		
131 (3327)	302 (7671)	95 (2423)	338 (8585)	95 (2416)	82.3 (2090)	57.20	62.91	59.17	64.92	62.12	67.91		
140 (3556)	321 (8153)	104 (2652)	357 (9068)	95 (2416)	82.3 (2090)	57.20	62.91	59.17	64.92	62.12	67.91		
143 (3632)	332 (8433)	107 (2728)	368 (9347)	95 (2416)	82.3 (2090)	57.20	62.91	59.17	64.92	62.12	67.91		
149 (3785)	341 (8661)	113 (2880)	377 (9576)	95 (2416)	82.3 (2090)	57.20	62.91	59.17	64.92	62.12	67.91		
157 (3988)									62.12	67.91			

NR045EC &	NR045EC & NDR035EC MAST DIMENSIONS (9.4" XL PREMIUM)											
Overall	Max. fork	Free-lift	Overall height (mast extended)	Overhead guard height	Operator		Head length (leng	th to face of forks)			
lowered ht.	height (TOF)	(TOF)	highest point w/36" LBR	to top	clearance	18.	25"	21.	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											
140 (3556)	321 (8153)	104 (2652)	357 (9068)	95 (2416)	82.3 (2090)	59.17	64.92	62.12	67.91			
143 (3632)	332 (8433)	107 (2728)	368 (9347)	95 (2416)	82.3 (2090)	59.17	64.92	62.12	67.91			
149 (3785)	341 (8661)	113 (2880)	377 (9576)	95 (2416)	82.3 (2090)	59.17	64.92	62.12	67.91			
157 (3988)	368 (9347)	121 (3084)	404 (10262)	95 (2416)	82.3 (2090)	59.17	64.92	62.12	67.91			
170 (4318)	401 (10185)	134 (3414)	437 (11100)	95 (2416)	82.3 (2090)	59.17	64.92	62.12	67.91			
179 (4547)	422 (10719)	143 (3642)	458 (11633)	95 (2416)	82.3 (2090)	59.17	64.92	62.12	67.91			
188 (4775) 444 (11278) 152 (3871) 480 (12192) 95 (2416) 82.3 (2090) 59.17 64.92 62.12 67.91								67.91				

BATTER	BATTERY AND COMPARTMENT SPECIFICATIONS																					
	Battery specifications																					
Battery	age	EC	23	DEC	EC	SEC	Maxi	mum	Ва	ttery co	omparti	ment di	mensio	ns		Ва	ttery di	mensio	ns		Minimum	Maximum
compt.	. volt	NR035E	1040E	NDR030E	NR045EC	NDR035E	6 Hr	Rate	"X" ı	max.	"Y" ı	max.	"Z" ı	max.	"X"	max.	"Y" ı	max.	"Z"	max.	batt. wt.	batt. wt.
size	Batt	벌	NR0	2	Ä	9	AH	KWH	in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)	lb. (kg)	lb. (kg)
14.25"	36	Х	Х	Х	N/A	N/A	775	27.2	39	990	14.25	362	31.5	800	38.8	985	14	356	31	788	1600 (726)	2100 (953)
16.25"	36	Х	Х	Х	Х	Х	930	32.6	39	990	16.25	413	31.5	800	38.8	985	16	406	31	788	1850 (839)	2350 (1066)
18.25"	36	N/A	N/A	N/A	Х	Х	1085	38.1	39	990	18.25	464	31.5	800	38.8	985	18	457	31	788	2200 (998)	2800 (1270)
21.25"	36	N/A	N/A	N/A	Х	Х	1240	43.5	39	990	21.25	540	31.5	800	38.8	985	21	533	31	788	2500 (1134)	3100 (1406)

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.

PERFORMANCE	STD	0P1
		UP
36-Volt battery (includes 350 amp gray battery connector) AC traction, lift/lower and steering	•	
Transistor controller with regenerative braking		
Electric power steering		
4 Independent fully programmable performance modes -		
Programmable traction speed and acceleration, lift and lower	•	
speeds		
Load transport position		•
Fork camera (requires 9.4" mast)		•
Laser level line		•
High speed lift (NR040EC, NDR030EC)		•
High speed lift/travel (NR045EC, NDR035EC)		•
High speed lower (requires high speed lift/travel)		•
Shelf height selector		•
Return to set tilt		•
Return to center sideshifting		•
Load weight display Fork height display		-
Speed sensitive steering		•
DRIVE	STD	0P1
5" x 3.9" poly articulating tandem load wheels -	310	OP I
high load compound (std on NR035-045EC)	•	
5" x 2.9" poly articulating tandem load wheels -		
high load compound (std on NDR030-035EC)		
Dual articulating polyurethane caster wheels	•	
XL-AC [™] drive tire – 13.5" x 5.5"	•	
Steered caster		•
Various sizes of load wheels		•
Various drive tire compounds Tapered load wheel boxes		-
Bolt-on load wheel boxes		
LIFT	STD	0P1
91"/203"/52"-(5.5") 3-Stage FFL mast (NR035-040EC, NDR030EC)	010	
95"/210"/59" – (9.4") 3-Stage FFL mast (NR045EC, NDR035EC)		
Tilting carriage (3° fwd, 4° back)	•	
Single reach mast with 33.5" wide class II with integal		
sideshift (hook type carriage) (std on NR035-045EC)	•	
Double reach mast with 33.5" wide class II with integral	•	
sideshift (hook type carriage) (std on NDR030-035EC) 36" High load backrest extension		
Lift limit	_	•
48" High load backrest extension		
Single reach mast without integral sideshift		_
for standard 33.5" wide carriage		•
(9.4") 3-Stage full free lift mast (NR040EC, NDR030EC)		•
Various mast heights for 5.5" and 9.4" masts		•
various mast neights for 5.5 and 4.4 masts	STD	0P1
HANDLING		
HANDLING Forks: 1.8" x 3.9" (45 mm x 100 mm) 42"(1067 mm) –	•	
HANDLING Forks: 1.8" x 3.9" (45 mm x 100 mm) 42"(1067 mm) – class II, hook type (std on NR040-045EC)	•	
HANDLING Forks: 1.8" x 3.9" (45 mm x 100 mm) 42"(1067 mm) – class II, hook type (std on NR040-045EC) Forks: 1.6" x 3.9" (40 mm x 100 mm) 42" (1067 mm) –	•	
HANDLING Forks: 1.8" x 3.9" (45 mm x 100 mm) 42"(1067 mm) – class II, hook type (std on NR040-045EC)		
HANDLING Forks: 1.8" x 3.9" (45 mm x 100 mm) 42"(1067 mm) — class II, hook type (std on NR040-045EC) Forks: 1.6" x 3.9" (40 mm x 100 mm) 42" (1067 mm) — class II, hook type (std on NDR030-035EC and NR035EC)	•	
HANDLING Forks: 1.8" x 3.9" (45 mm x 100 mm) 42"(1067 mm) — class II, hook type (std on NR040-045EC) Forks: 1.6" x 3.9" (40 mm x 100 mm) 42" (1067 mm) — class II, hook type (std on NDR030-035EC and NR035EC) Fully proportional lift/lower control	•	
HANDLING Forks: 1.8" x 3.9" (45 mm x 100 mm) 42"(1067 mm) – class II, hook type (std on NR040-045EC) Forks: 1.6" x 3.9" (40 mm x 100 mm) 42" (1067 mm) – class II, hook type (std on NDR030-035EC and NR035EC) Fully proportional lift/lower control Control handle with simultaneous hydraulic functions	•	•
HANDLING Forks: 1.8" x 3.9" (45 mm x 100 mm) 42"(1067 mm) – class II, hook type (std on NR040-045EC) Forks: 1.6" x 3.9" (40 mm x 100 mm) 42" (1067 mm) – class II, hook type (std on NDR030-035EC and NR035EC) Fully proportional lift/lower control Control handle with simultaneous hydraulic functions Slack chain detection	•	•
HANDLING Forks: 1.8" x 3.9" (45 mm x 100 mm) 42"(1067 mm) – class II, hook type (std on NR040-045EC) Forks: 1.6" x 3.9" (40 mm x 100 mm) 42" (1067 mm) – class II, hook type (std on NDR030-035EC and NR035EC) Fully proportional lift/lower control Control handle with simultaneous hydraulic functions Slack chain detection Reduced travel speed with carriage extended	•	0P1
HANDLING Forks: 1.8" x 3.9" (45 mm x 100 mm) 42"(1067 mm) – class II, hook type (std on NR040-045EC) Forks: 1.6" x 3.9" (40 mm x 100 mm) 42" (1067 mm) – class II, hook type (std on NDR030-035EC and NR035EC) Fully proportional lift/lower control Control handle with simultaneous hydraulic functions Slack chain detection Reduced travel speed with carriage extended Various fork lengths	•	•

ERGONOMICS CONTINUED	STD	OPT
Adjustable armrest and backrest	0.5	0
(sidestance operator controls only)	•	
Steer tiller position adjustment	•	
Low step height	•	
Padded operator compartment	•	
5" Smart display: color touchscreen	•	
Yale Smart Ride® floor (full suspension floor)		•
7" Smart display: color touchscreen		•
Operator overhead fan		•
Dual LED headlights		•
Rear LED worklight		•
Operator LED desktop light		•
OPERATION	STD	OPT
Standard construction	•	
UL classification E	•	
Sidestance operator controls	•	
Key switch start	•	
Wire mesh mast guard	•	
Automotive steering	•	
2 USB ports	•	
Static strap	•	
Electronic horn	•	
Sealed battery rollers	•	
Operator's overhead guard	•	
Rear post operator protection	•	
Power disconnect button	•	
Forward stance with aft operator control handle		•
Reverse steering		•
Clear mast guard		•
Keyless start		•
Rotary joystick (standard for cooler/freezer)		•
Battery gate interlock		•
Cooler/freezer construction (0°F to 120°F) with rubber floormat		•
SubZero freezer construction (operating temperatures -40°F to		
120°F) with rubber floormat		_
SubZero freezer with heated floor and control handle (operating		•
temperatures -40°F to 120°F) with anti-slip floorplate covering		
UL classification EE		•
Outrigger ID - 34" to 49" in 1" Increments		•
Audible back-up and motion alarms		•
Visible amber strobe light - continuous activated		
Impact monitor		
Blue LED spotlights		•
RF terminal bracket RF handheld scanner holder		•
		•
12-Volt DC auxiliary power supply		•
Wire mesh on top overhead guard		
Rear operator compartment door (SPED) Yale Vision		•
Yale Vision Yale Reliant™ (available on NR045EC)		•
	CTD	ODT
ENERGY SYSTEM	STD	OPT
Lead acid	•	
Yale Power Key	CED	OPT
SUPPLEMENTAL	STD	OPT
12 Month / unlimited hours full truck warranty	•	
36 Month / 6,000 hour powertrain warranty	•	
Lifetime frame warranty	•	
Operating manual	•	

^{*} 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.

^{**} For 5.5" Mast Sideshift includes 7" travel (3.5" each side). Sideshift travel will be reduced to 3" total (1.5" each side) when Outrigger ID is less than 39" For 9.4" Mast Sideshift includes 8" travel (4" each side). Sideshift travel will be reduced to 4" total (2" each side) when Outrigger ID is less than 39"

About Yale



Yale Lift Truck Technologies leverages over a century of material handling experience and substantial investment in innovation to bring the most advanced technology-driven lift truck solutions to market. The company offers a full line of award-winning lift trucks, including reach trucks, order pickers, turret trucks, pallet jacks and trucks, pallet stackers, tow tractors and counterbalanced forklifts, as well as powerful operator assist solutions, proven robotics and a wide range of power sources to help customers adapt to today's demanding supply chain. Yale and its independent dealer network support these solutions with comprehensive after-sales service, parts, financing and training.

MATERIALS HANDLING FOR:

Third-party logistics (3PL)

Auto parts distribution

Beverage

Cold & frozen foods

Food distribution

Food processing

Furniture & furnishings

Government

Health & pharma

Home centers & durables

Retail & e-commerce

Yale Lift Truck Technologies P.O. Box 7367 Greenville, NC 27835-7367 U.S.A.

yale.com



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Trucks may be shown with optional equipment and/or features not available in all regions. Truck performance may be affected by the condition of the vehicle, how it is equipped and the application. Specifications are subject to change without notice.

Consult your Yale® Dealer if any of the information shown is critical to your application.

CERTIFICATION: Yale 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. Classified by Underwriters' Laboratories, Inc.