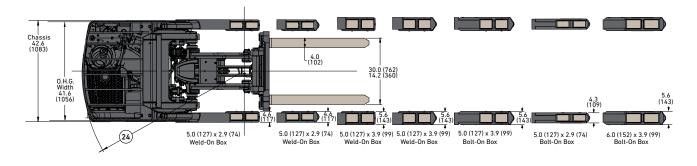


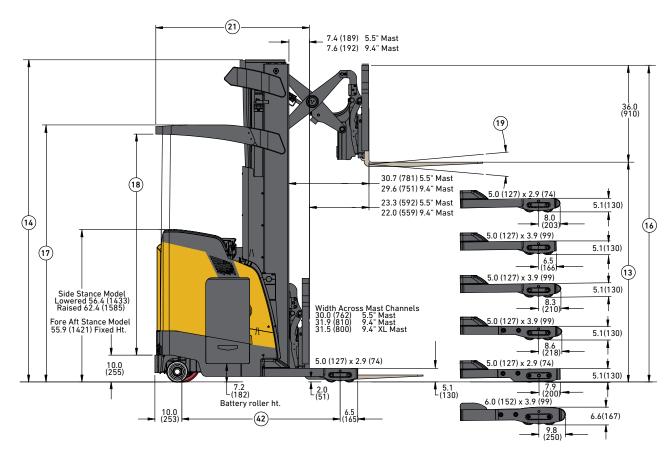


NR/NDR 030-045EC

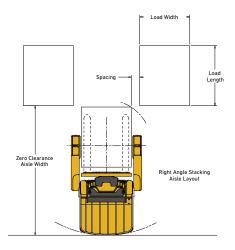
Pantograph reach truck

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	5-040E	C - 5.5	' MAST						
14.25"	14.25" Battery cmpartment and 42" ID								
3 Stage	e - 4" betv	veen loac	ls						
		Pallet	width (in	iches)					
Pallet		36	40	44	48				
length	36	85	85	85	85				
(inch-	40	87	87	86	86				
es)	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	e - 4" betv	veen load	S								
		Pallet	width (in	iches)							
		36	40	44	48						
Pallet	36	88	88	88	88						
length (inches)	40	92	92	91	91						
(	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)

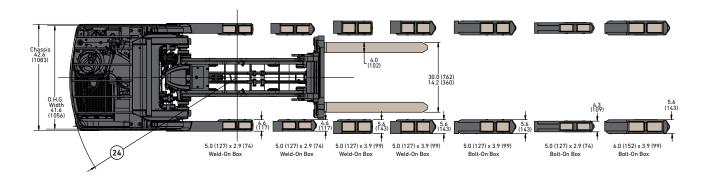
GEN	ERAL SPECIFICATIONS - I	NR035-045EC							
1	Manufacturer name			V-	alo.	Ya	lo.	V	ale
2	Manufacturer name  Model				ale	NR04			
3					35EC	SV			45EC WB
	Wheel base designation *		Ib (kg)		VB (1588)	4000 (			(2041)
GENERAL 6	Rated capacity	Distance	lb. (kg) in. (mm)	3300	(1300)	24 (		4500	(2041)
9 6	Power type	Electric, diesel, LPG	111. (111111)			Electri	,		
<b>5</b> 7	Operator type	Etectric, dieset, EFG				Sta			
8	Tire type	Load/caster/drive				Poly/Po			
9	Wheels, number load/drive (x:					4 / 2			
	Truck weight, without battery		lb.	54	.00	54		59	30
¥ 10 12			lb.		/4375	7459/			/4228
13	<u> </u>	Standard lift (TOF)	in. (mm)						
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)	1					
19	Mast tilt angle	Forward/back	degrees			3 /	/ 4		
20	Forks, standard (length x widt	h x thickness)	in.	1.60 x 3	3.9 x 42	1.80 x 3	3.9 x 42	1.80 x 3	3.9 x 42
<b>SN</b> 21	Headlength to face of forks	All battery compartments ***	in. (mm)			See ma	st table		
22	Outrigger ID		in.			34"- 49" (1"	increments)		
DIMENSIONS 22		14.25" - (LxWxH)	in.	39.0 x 14	.25 x 31.5	39.0 x 14.	.25 x 31.5	N	/A
≥ 23	Battery compartment size	16.25" - (LxWxH)	in.	39.0 x 16	.25 x 31.5	39.0 x 16.	.25 x 31.5	39.0 x 16	.25 x 31.5
	Battery compartment size	18.25" - (LxWxH)	in.	N	/A	N/	/A	39.0 x 18	.25 x 31.5
		21.25" - (LxWxH)	in.	N	/A	N/	/A	39.0 x 21	.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
24	Turning radius - min. outside	16.25" battery compartment	in.	67.6	N/A	67.6	68.5	68	3.5
24	Turring radius Trini. Outside	18.25" battery compartment	in.	N	/A	N/	/A	70	D.5
		21.25" battery compartment	in.	N	/A	N/		73	3.5
25	+	Right angle stack				See right ang			
26	,	Comply with ANSI				YE			
-	TRAVEL SPEED	5 (5)		STANDARD	OPTIONAL	STANDARD	OPTIONAL	STANDARD	OPTIONAL
28		Empty/RL	mph	7.5/7.0	N/A	7.5/7.0†	N/A	7.5/7.0 †	8.0/7.0 <sup>†</sup>
29	Forward (forks first)	Empty/RL	mph	6.6/5.8 STANDARD	N/A OPTIONAL	6.6/5.8 † STANDARD	N/A OPTIONAL	6.6/5.8 <sup>†</sup>	6.8/5.8 <sup>†</sup>
Ж	LIFT SPEED ****							CTANDADD	
N 31				5.5" MAST	9.4" MAST	5.5" MAST	9.4" MAST	STANDARD 9.4" MAST	OPTIONAL 9.4" MAST
V 0	Empty		ft/min						
31a	<u> </u>		ft/min ft/min	5.5" MAST	9.4" MAST	5.5" MAST	9.4" MAST	9.4" MAST	9.4" MAST
31a 31a	1,000 lb.			5.5" MAST 130	9.4" MAST N/A	5.5" MAST 130	<b>9.4" MAST</b> 150	9.4" MAST 150	<b>9.4" MAST</b> 175
31a	1,000 lb. 2,000 lb.		ft/min	130 110	9.4" MAST N/A N/A	5.5" MAST 130 110	9.4" MAST 150 133	9.4" MAST 150 133	9.4" MAST 175 150
34	a 1,000 lb. 2,000 lb. 3,000 lb. 3,500 lb.		ft/min ft/min	5.5" MAST 130 110 95	9.4" MAST N/A N/A N/A	5.5" MAST 130 110 95 78 75	9.4" MAST 150 133 115	9.4" MAST 150 133 115	9.4" MAST 175 150 130
ш —	a 1,000 lb. 2,000 lb. 3,000 lb. 3,500 lb.		ft/min ft/min ft/min	5.5" MAST 130 110 95 78	9.4" MAST N/A N/A N/A	5.5" MAST 130 110 95 78	9.4" MAST 150 133 115 100	9.4" MAST 150 133 115 100	9.4" MAST 175 150 130 115 105 100
34 35 36	a 1,000 lb. 2,000 lb. 3,000 lb. 3,500 lb. 4,000 lb.		ft/min ft/min ft/min ft/min	5.5" MAST 130 110 95 78 75 N/A	9.4" MAST N/A N/A N/A N/A N/A N/A	5.5" MAST 130 110 95 78 75	9.4" MAST 150 133 115 100 87	9.4" MAST 150 133 115 100 87 83 80	9.4" MAST 175 150 130 115 105 100 95
34 35 36 37	a 1,000 lb. 2,000 lb. 3,000 lb. 3,500 lb. 4,000 lb. 4,500 lb.	Empty ****	ft/min ft/min ft/min ft/min ft/min ft/min ft/min	5.5" MAST 130 110 95 78 75 N/A N/A 110	9.4" MAST N/A N/A N/A N/A N/A N/A N/A	5.5" MAST 130 110 95 78 75 70 N/A	9.4" MAST 150 133 115 100 87 83 N/A 140	9.4" MAST 150 133 115 100 87 83 80 140	9.4" MAST 175 150 130 115 105 100 95 160 #
34 35 36 37 38	a 1,000 lb. 2,000 lb. 3,000 lb. 3,500 lb. 4,000 lb. 4,500 lb. Lowering speeds	RL****	ft/min ft/min ft/min ft/min ft/min ft/min	5.5" MAST  130  110  95  78  75  N/A  N/A  110  110	9.4" MAST N/A	5.5" MAST 130 110 95 78 75 70 N/A 110 110	9.4" MAST 150 133 115 100 87 83 N/A 140 140	9.4" MAST 150 133 115 100 87 83 80 140 140	9.4" MAST 175 150 130 115 105 100 95 160 # 160 #
34 35 36 37 38 39	a 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	RL**** dard	ft/min ft/min ft/min ft/min ft/min ft/min ft/min	5.5" MAST  130  110  95  78  75  N/A  N/A  110  110	9.4" MAST N/A N/A N/A N/A N/A N/A N/A	5.5" MAST 130 110 95 78 75 70 N/A 110 110	9.4" MAST 150 133 115 100 87 83 N/A 140 140	9.4" MAST 150 133 115 100 87 83 80 140 140	9.4" MAST 175 150 130 115 105 100 95 160 #
34 35 36 37 38 39 41	a 1,000 lb. 2,000 lb. 3,000 lb. 3,500 lb. 4,000 lb. 4,500 lb. Lowering speeds	RL**** dard	ft/min ft/min ft/min ft/min ft/min ft/min ft/min	5.5" MAST  130  110  95  78  75  N/A  N/A  110  110  5 x	9.4" MAST N/A	5.5" MAST 130 110 95 78 75 70 N/A 110 110 5 x 13.5 x 5.5	9.4" MAST 150 133 115 100 87 83 N/A 140 140 3.9 / 7.9 x 2.2	9.4" MAST 150 133 115 100 87 83 80 140 140 5 x	9.4" MAST 175 150 130 115 105 100 95 160 # 160 #
34 35 36 37 38 39 41	a 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	RL**** Bland I casters	ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min	5.5" MAST  130  110  95  78  75  N/A  N/A  110  110  5 x	9.4" MAST  N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/	5.5" MAST  130  110  95  78  75  70  N/A  110  110  5 ×  13.5 × 5.5	9.4" MAST 150 133 115 100 87 83 N/A 140 140 3.9 7.7.9 x 2.2 9.4" MAST	9.4" MAST 150 133 115 100 87 83 80 140 140 5 x	9.4" MAST  175  150  130  115  105  100  95  160 #  160 #  3.9
34 35 36 37 38 39 41	a 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	RL**** Jard I casters  14.25" battery compartment	ft/min	5.5" MAST  130  110  95  78  75  N/A  N/A  110  110  5 x  5.5" MAST	9.4" MAST N/A	5.5" MAST  130  110  95  78  75  70  N/A  110  110  5 x  13.5 x 5.5  5.5" MAST	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	9.4" MAST  150  133  115  100  87  83  80  140  140  5 x	9.4" MAST 175 150 130 115 105 100 95 160 " 160 " 3.9
34 35 36 37 38 39 41	a 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/dua	RL**** Jard I casters  14.25" battery compartment 16.25" battery compartment	ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min in.	5.5" MAST  130  110  95  78  75  N/A  N/A  110  110  5 x  5.5" MAST  55.6  57.6	9.4" MAST N/A	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	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	9.4" MAST 150 133 115 100 87 83 80 140 140 5 x	9.4" MAST 175 150 130 115 105 100 95 160 # 160 # 3.9  MAST /A
34 35 36 37 38 39 41	a 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/dua	RL**** Jard I casters  14.25" battery compartment 16.25" battery compartment 18.25" battery compartment	ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min in. in.	5.5" MAST  130  110  95  78  75  N/A  N/A  110  110  5 x  5.5" MAST  55.6  57.6	9.4" MAST N/A	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	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	9.4" MAST  150  133  115  100  87  83  80  140  140  5 x  9.4"  N  58	9.4" MAST 175 150 130 115 105 100 95 160 # 160 # 3.9  MAST /A 3.5 0.5
34 35 36 37 38 39 41 42	a 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/dua	RL**** Jard I casters  14.25" battery compartment 16.25" battery compartment 18.25" battery compartment 21.25" battery compartment	ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min in. in. in.	5.5" MAST  130  110  95  78  75  N/A  N/A  110  110  5 x  5.5" MAST  55.6  57.6	9.4" MAST N/A	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	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	9.4" MAST  150  133  115  100  87  83  80  140  140  5 x  9.4"  N  58	9.4" MAST 175 150 130 115 105 100 95 160 # 160 # 3.9  MAST /A
34 35 36 37 38 39 41 42 43	a 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/dua  Wheelbase	RL**** Jard I casters  14.25" battery compartment 16.25" battery compartment 18.25" battery compartment 21.25" battery compartment Service/parking (method of con	ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min in. in. in. in. trol)	5.5" MAST  130  110  95  78  75  N/A  N/A  110  110  5 x  5.5" MAST  55.6  57.6	9.4" MAST N/A	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/  Foot /	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  // auto	9.4" MAST  150  133  115  100  87  83  80  140  140  5 x  9.4"  N  58  60  63	9.4" MAST 175 150 130 115 105 100 95 160 # 160 # 3.9  MAST /A 3.5 0.5
34 35 36 37 38 39 41 42 42 43 44	a 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/dua  Wheelbase  Brakes	RL**** Jard I casters  14.25" battery compartment 16.25" battery compartment 18.25" battery compartment 21.25" battery compartment	ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min in. in. in. in. trol)	5.5" MAST  130  110  95  78  75  N/A  N/A  110  110  5 x  5.5" MAST  55.6  57.6	9.4" MAST N/A	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/  Foot / spring app	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  / auto  ly (electric rele	9.4" MAST  150  133  115  100  87  83  80  140  140  5 x  9.4"  N  58  60  63	9.4" MAST 175 150 130 115 105 100 95 160 # 160 # 3.9  MAST /A 3.5 0.5
34 35 36 37 38 39 41 41 42 43 44 45	a 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/dua  Wheelbase  Brakes  Battery type	RL**** Jard I casters  14.25" battery compartment 16.25" battery compartment 18.25" battery compartment 21.25" battery compartment Service/parking (method of ope	ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min in. in. in. in. trol) ration)	5.5" MAST  130  110  95  78  75  N/A  N/A  110  110  5 x  5.5" MAST  55.6  57.6	9.4" MAST N/A	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/  Foot / spring app  Lead	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  / auto ly (electric releacid	9.4" MAST  150  133  115  100  87  83  80  140  140  5 x  9.4"  N  58  60  63	9.4" MAST 175 150 130 115 105 100 95 160 # 160 # 3.9  MAST /A 3.5 0.5
34 35 36 37 38 39 41 41 42 43 44 45	a 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/dua  Wheelbase  Brakes  Battery type  Traction motor rating (60 minum)	RL**** Jard I casters  14.25" battery compartment 16.25" battery compartment 18.25" battery compartment 21.25" battery compartment Service/parking (method of con Service/parking (method of ope ute rating)	ft/min	5.5" MAST  130  110  95  78  75  N/A  N/A  110  110  5 x  5.5" MAST  55.6  57.6	9.4" MAST N/A	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/  Foot / en / spring app  Lead  8.9 (	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  / auto ly (electric releacid (6.6)	9.4" MAST  150  133  115  100  87  83  80  140  140  5 x  9.4"  N  58  60  63	9.4" MAST 175 150 130 115 105 100 95 160 # 160 # 3.9  MAST /A 3.5 0.5
34 35 36 37 38 39 41 41 42 43 44 45	a 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/dua  Wheelbase  Brakes  Battery type  Traction motor rating (60 minuments) Hoist motor rating (5 minute references)	RL**** Jard I casters  14.25" battery compartment 16.25" battery compartment 18.25" battery compartment 21.25" battery compartment Service/parking (method of con Service/parking (method of ope ute rating) ating)	ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min in. in. in. in. trol) ration)	5.5" MAST  130  110  95  78  75  N/A  N/A  110  110  5 x  5.5" MAST  55.6  57.6	9.4" MAST N/A	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/  Foot / en / spring app  Lead  8.9 (  29.2 (	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  / auto ly (electric releacid (6.6) (21.8)	9.4" MAST  150  133  115  100  87  83  80  140  140  5 x  9.4"  N  58  60  63	9.4" MAST 175 150 130 115 105 100 95 160 # 160 # 3.9  MAST /A 3.5 0.5
34 35 36 37 38 39 41 42 43 44 45 46 47 48	a 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/dua  Wheelbase  Brakes  Battery type  Traction motor rating (60 minuments) Traction motor control method	RL**** Jard I casters  14.25" battery compartment 16.25" battery compartment 18.25" battery compartment 21.25" battery compartment Service/parking (method of con Service/parking (method of ope ute rating) ating)	ft/min	5.5" MAST  130  110  95  78  75  N/A  N/A  110  110  5 x  5.5" MAST  55.6  57.6	9.4" MAST N/A	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/  Foot / en / spring app  Lead  8.9 (  29.2 (  Trans	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  / auto ly (electric releacid (6.6) (21.8) sistor	9.4" MAST  150  133  115  100  87  83  80  140  140  5 x  9.4"  N  58  60  63	9.4" MAST 175 150 130 115 105 100 95 160 # 160 # 3.9  MAST /A 3.5 0.5
34 35 36 37 38 39 41 41 42 43 44 45	a 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/dua  Wheelbase  Brakes  Battery type  Traction motor rating (60 minuments) Hoist motor rottrol method Hoist motor control method	RL**** Jard I casters  14.25" battery compartment 16.25" battery compartment 18.25" battery compartment 21.25" battery compartment Service/parking (method of con Service/parking (method of ope ute rating) ating)	ft/min	5.5" MAST  130  110  95  78  75  N/A  N/A  110  110  5 x  5.5" MAST  55.6  57.6	9.4" MAST N/A	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/  Foot / en / spring app  Lead  8.9 (  29.2 (	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 // auto ly (electric released) acid (6.6) (21.8) sistor	9.4" MAST  150  133  115  100  87  83  80  140  140  5 x  9.4"  N  58  60  63	9.4" MAST 175 150 130 115 105 100 95 160 # 160 # 3.9  MAST /A 3.5 0.5

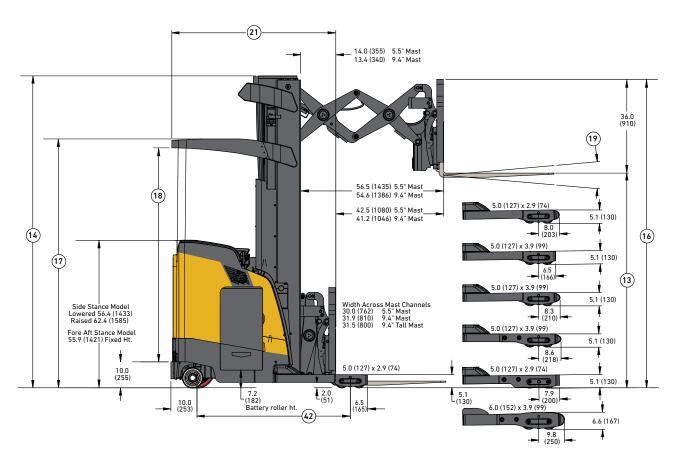
Short or long wheelbase is for double reach only. LWB for double reach masts 332" and below Static with rated load and max. wt. battery

Includes integral sideshift, subtract 1" for without sideshift
Lift and lower speeds reduced for UL 'EE'

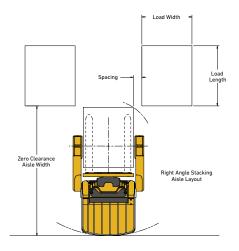
 $<sup>^\</sup>dagger$  Travel speed will be reduced to 7.5 / 7.0 mph (empty / rated load) with MFHs above 341" in the forks trailing direction. Travel speed will be reduced to 6.6 / 5.8 mph (empty / rated load) with MFHs above 341" in the forks leading direction. Travel speed is reduced to 7.0mph for 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.

 $<sup>^{\</sup>dag \dag}$  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	30EC -	5.5" M	AST		
14.25" E	Battery co	mpartme	nt and 42	" ID	
3 Stage	e - 6" betv	ween load	ls		
		Pallet	width (ir	iches)	
Pallet		36	40	44	48
length	36	87	86	86	86
(inch-	40	91	90	90	89
es)	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" E	16.25" Battery compartment and 42" ID											
3 Stage	e - 6" betv	veen loac	ls									
	Pallet width (inches)											
		36	40	44	48							
Pallet	36	92	91	91	90							
length (inches)	40	96	96	95	95							
(,	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	ERAL SPECIFICATIONS N	DR030-035EC							
1	Manufacturer name				Ya	ale		١	/ale
2	Model				NDRC	)30EC		NDR	R035EC
3	Wheel base designation *			LWB	SWB	LWB	SWB	LWB	SWB
4	Rated capacity		lb. (kg)		3000	(1361)		3500	(1588)
4 5 6	Load center	Distance	in. (mm)				24 (6	10)	
<b>6</b>	Power type	Electric, diesel, LPG					Electric	: - 36V	
7	Operator type						Sta	nd	
8	Tire type	Load/caster/drive					Poly/Po	ly/Poly	
9	Wheels, number load/drive (x	=driven)					4 / 2	(1x)	
<u>:</u> 10	Truck weight, without battery	(approximate)	lb.		56	50		6	190
<sup>≤</sup> 12	Axle loading with assembly re	tracted (front/rear) **	lb.		6409	/4589		7578	8/4458
13		Standard lift (TOF)	in. (mm)						
14		Standard mast lowered (OALH)	in. (mm)						
15	   Height	Freelift (TOF)	in. (mm)				See mas	at tahla	
16	ricigit	Standard mast extended w/LBR	in. (mm)				occ ma.	or table	
17		Top of OHG	in. (mm)						
18		Operator clearance	in. (mm)						
19	Mast tilt angle	Forward/back	degrees				3 /		
20	Forks, standard (length x widt		in.		1.60 x 3	3.9 x 42			3.9 x 42
21 2 = 21	Headlength to face of forks	All battery compartments ***	in. (mm)				See mas		
21 22 22 23 23 23 23 23 23 23 23 23 23 23	Outrigger ID		in.				4"- 49" (1" i	ncrements)	
MEN		14.25" - (LxWxH)	in.			.25 x 31.5			N/A
23	Battery compartment size	16.25" - (LxWxH)	in.		39.0 x 16	.25 x 31.5			6.25 x 31.5
		18.25" - (LxWxH)	in.			/A			8.25 x 31.5
		21.25" - (LxWxH)	in.			/A			1.25 x 31.5
				5.5" N		9.4" N			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	72.6 N/A 72.6 68.5		68.5	72.6	68.5
		18.25" battery compartment	in.			/A		74.6	70.5
		21.25" battery compartment	in.		N.	/A		77.6	73.5
25	Aisle width - zero clearance	Right angle stack				50	e right angl	e stack table	
0.4	0								
26	Stability	Comply with ANSI		CTAN	2400		YE	S	ORTIONAL
	TRAVEL SPEED			STANI		OPTIO	YE	S STANDARD	OPTIONAL
28	TRAVEL SPEED  Rearward (chassis first)	Empty/RL	mph	7.5/	7.0 <sup>†</sup>	OPTI(	YE DNAL 'A	S STANDARD 7.5/7.0†	8.0/7.0 <sup>†</sup>
	TRAVEL SPEED  Rearward (chassis first)  Forward (forks first)		mph mph	7.5/' 6.6/!	7.0 <sup>†</sup>	OPTIC N/	YE DNAL 'A	S STANDARD 7.5/7.0 † 6.6/5.8 †	8.0/7.0 <sup>†</sup> 6.8/5.8 <sup>†</sup>
28	TRAVEL SPEED  Rearward (chassis first)	Empty/RL	<del> </del>	7.5/ 6.6/! STANI	7.0 <sup>†</sup> 5.8 <sup>†</sup> DARD	0PTI0 N/ N/ 0PTI0	YE DNAL 'A 'A DNAL	S STANDARD 7.5/7.0 † 6.6/5.8 † STANDARD	8.0/7.0 <sup>†</sup> 6.8/5.8 <sup>†</sup> OPTIONAL
28	TRAVEL SPEED  Rearward (chassis first)  Forward (forks first)	Empty/RL	<del> </del>	7.5/' 6.6/!	7.0 <sup>†</sup> 5.8 <sup>†</sup> DARD MAST	OPTIC N/	YE DNAL 'A 'A DNAL MAST	S STANDARD 7.5/7.0 † 6.6/5.8 †	8.0/7.0 <sup>†</sup> 6.8/5.8 <sup>†</sup>
28	TRAVEL SPEED Rearward (chassis first) Forward (forks first) LIFT SPEED **** Empty	Empty/RL	mph	7.5/ 6.6/ STANI 5.5" N	7.0 <sup>†</sup> 5.8 <sup>†</sup> DARD MAST	OPTIC N/ N/ OPTIC 9.4" N	YEDNAL (A DNAL MAST	S STANDARD 7.5/7.0 † 6.6/5.8 † STANDARD 9.4" MAST	8.0/7.0 <sup>†</sup> 6.8/5.8 <sup>†</sup> OPTIONAL 9.4" MAST
28	TRAVEL SPEED Rearward (chassis first) Forward (forks first) LIFT SPEED **** Empty	Empty/RL	mph ft/min	7.5/ 6.6/9 STANI 5.5" N	7.0 † 5.8 † DARD MAST 50	OPTIC N/ N/ OPTIC 9.4" N	YEDNAL YA ONAL MAST 50	S STANDARD 7.5/7.0 † 6.6/5.8 † STANDARD 9.4" MAST 150	8.0/7.0 † 6.8/5.8 † OPTIONAL 9.4" MAST
28 29 31 31a	TRAVEL SPEED Rearward (chassis first) Forward (forks first) LIFT SPEED **** Empty 1,000 lb.	Empty/RL	mph ft/min ft/min	7.5/* 6.6/9 STANI 5.5" N 13	7.0 † 5.8 † DARD MAST 60 0	OPTIC N/ N/ OPTIC 9.4" N 15	YEDNAL YA DNAL MAST 50 33	S STANDARD 7.5/7.0 † 6.6/5.8 † STANDARD 9.4" MAST 150 135	8.0/7.0 <sup>†</sup> 6.8/5.8 <sup>†</sup> OPTIONAL 9.4" MAST 175
28 29 31 31a 32	TRAVEL SPEED Rearward (chassis first) Forward (forks first) LIFT SPEED **** Empty 1,000 lb. 2,000 lb.	Empty/RL	mph ft/min ft/min ft/min	7.5/ 6.6/S STANI 5.5" N 13	7.0 † 5.8 † DARD MAST 60 0 5	OPTIC N/ N/ OPTIC 9.4" N 15	YE DNAL  YA DNAL  MAST  60  83  5  00	S STANDARD 7.5/7.0 † 6.6/5.8 † STANDARD 9.4" MAST 150 135 120	8.0/7.0 <sup>†</sup> 6.8/5.8 <sup>†</sup> OPTIONAL 9.4" MAST 175 150 130
28 29 31 31a 32 32 33	TRAVEL SPEED Rearward (chassis first) Forward (forks first) LIFT SPEED **** Empty 1,000 lb. 2,000 lb. 3,000 lb.	Empty/RL	mph ft/min ft/min ft/min ft/min	7.5/ 6.6/S STANI 5.5" N 13 11	7.0 † 5.8 † DARD MAST 60 0 5 8	OPTIC N/ N/ OPTIC 9.4" N 15 13	YE  DNAL  'A  DNAL  MAST  50  00  (A	S STANDARD 7.5/7.0 † 6.6/5.8 † STANDARD 9.4" MAST 150 135 120 103	8.0/7.0 <sup>†</sup> 6.8/5.8 <sup>†</sup> OPTIONAL 9.4" MAST 175 150 130 115
28 29 31 31a 32 33 34	TRAVEL SPEED Rearward (chassis first) Forward (forks first) LIFT SPEED **** Empty 1,000 lb. 2,000 lb. 3,000 lb. 3,500 lb.	Empty/RL Empty/RL	ft/min ft/min ft/min ft/min ft/min	7.5/' 6.6/! STANI 5.5" N 13 11 9!	7.0 † 5.8 † DARD MAST 10 0 5 8 A	OPTIC N/ N/ OPTIC 9.4" N 15 13 11	YE DNAL	S STANDARD 7.5/7.0 † 6.6/5.8 † STANDARD 9.4" MAST 150 135 120 103 95	8.0/7.0 <sup>†</sup> 6.8/5.8 <sup>†</sup> <b>OPTIONAL</b> 9.4" MAST 175 150 130 115 95
28 29 31 31a 32 33 34 35	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.	Empty/RL Empty/RL Empty/RL	ft/min ft/min ft/min ft/min ft/min ft/min ft/min	7.5/' 6.6/! STANI 5.5" N 13 11 9! 7.6 N/	7.0 † 5.8 † DARD MAST 60 0 5 8 A A	OPTIC N/ N/ OPTIC 9.4" N 15 13 11 10 N/	YE DNAL /A /A DNAL MAST /50 /50 /53 /5 /50 /64 /64 /64	S STANDARD 7.5/7.0 † 6.6/5.8 † STANDARD 9.4" MAST 150 135 120 103 95 N/A	8.0/7.0 <sup>†</sup> 6.8/5.8 <sup>†</sup> <b>OPTIONAL</b> 9.4" MAST 175 150 130 115 95 N/A
28 29 31 31a 32 33 34 35 36	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.	Empty/RL Empty/RL	ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min	7.5/' 6.6/! STANI 5.5" N 13 11 9! 7: N/ N/	7.0 † 5.8 † DARD MAST 10 0 0 8 8 8 1 A 1 A 1 A 1 0 0 0 0 0 0 0 0 0 0 0 0 0	OPTIC N/ N/ OPTIC 9.4" N 15 13 11 10 N/	YE DNAL	S STANDARD 7.5/7.0 † 6.6/5.8 † STANDARD 9.4" MAST 150 135 120 103 95 N/A N/A	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	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.	Empty/RL  Empty/RL  Empty **** RL ****	ft/min	7.5/ 6.6/! STANI 5.5" N 13 11 9! 7: N/ N/	7.0 † 5.8 † DARD 1/AST 00 0 5 8 A A A 0 0	OPTIC N/ N/ OPTIC 9.4" N 15 13 11 10 N/ N/	YE DNAL	S STANDARD 7.5/7.0 † 6.6/5.8 † STANDARD 9.4" MAST 150 135 120 103 95 N/A N/A 140 140	8.0/7.0 <sup>†</sup> 6.8/5.8 <sup>†</sup> OPTIONAL 9.4" MAST 175 150 130 115 95 N/A N/A 160 <sup>††</sup>
28 29 31 31a 32 33 34 35 36 37 38 39 41	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	Empty/RL  Empty/RL  Empty **** RL ****	ft/min	7.5/ 6.6/9 STANI 5.5" N 13 11 99 73 N/ N/ N/	7.0 † 5.8 † DARD 1/AST 1/0 0 0 5 8 A A O 0 5 ×	OPTIC N/ N/ OPTIC 9.4" N 15 13 11 10 N/ N/ N/ 14 2.9	YEDNAL  /A  /A  DNAL  MAST  50  60  7A  /A  13.5 x 5.5	S STANDARD 7.5/7.0 † 6.6/5.8 † STANDARD 9.4" MAST 150 135 120 103 95 N/A N/A 140 140 5 (7.9 x 2.2	8.0/7.0 † 6.8/5.8 † OPTIONAL 9.4" MAST 175 150 130 115 95 N/A N/A 160 †† 160 ††
28 29 31 31a 32 33 34 35 36 37 38 39 41	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	Empty/RL Empty/RL  Empty **** RL **** lard I casters	ft/min	7.5/ 6.6/9 STANI 5.5" N 13 11 99 77 N/ N/ N/ 11 11	7.0 † 5.8 † DARD MAST 100 0 5 8 A A O 0 5 ×	OPTIC N/ N/ OPTIC 9.4" N 15 13 11 10 N/ N/ N/ 14 2.9	YEDNAL  /A  /A  /A  DNAL  MAST  60  83  5  00  /A  /A  /A  /A  /A  /A  /A  /A  /A	S STANDARD 7.5/7.0 † 6.6/5.8 † STANDARD 9.4" MAST 150 135 120 103 95 N/A N/A 140 140 5 (7.9 x 2.2 9.4"	8.0/7.0 † 6.8/5.8 † OPTIONAL 9.4" MAST 175 150 130 115 95 N/A N/A 160 †† 160 †† x 2.9
28 29 31 31a 32 33 34 35 36 37 38 39 41	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	Empty/RL Empty/RL  Empty **** RL **** dard l casters  14.25" battery compartment	mph  ft/min	7.5/ 6.6/9 STANI 5.5" N 13 11 99 73 N/ N/ N/ 11 11 5.5" N 60.6	7.0 † 5.8 † DARD 1/AST 1/0 0 0 5 8 A A A 0 0 5 x	OPTIC N/ N/ OPTIC 9.4" N 15 13 11 10 N/ N/ N/ 14 2.9	YEDNAL  /A  /A  /A  /A  /A  /A  /A  /A  /A	S STANDARD 7.5/7.0 † 6.6/5.8 † STANDARD 9.4" MAST 150 135 120 103 95 N/A N/A 140 140 5 17.9 x 2.2 9.4"	8.0/7.0 † 6.8/5.8 † OPTIONAL 9.4" MAST 175 150 130 115 95 N/A N/A 160 †† 160 †† 160 †† x 2.9
28 29 31 31a 32 33 34 35 36 37 38 39 41	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	Empty/RL Empty/RL Empty **** RL **** lard l casters  14.25" battery compartment 16.25" battery compartment	mph  ft/min	7.5/ 6.6/9 STANI 5.5" N 13 11 99 77 N/ N/ N/ 11 11	7.0 † 5.8 † DARD MAST 100 0 5 8 A A O 0 5 x  MAST N/A N/A	OPTIC N/ N/ OPTIC 9.4" N 15 13 11 10 N/ N/ N/ 14 2.9	YEDNAL  /A  /A  /A  DNAL  MAST  60  83  5  00  /A  /A  /A  /A  /A  /A  /A  /A  /A	S STANDARD 7.5/7.0 † 6.6/5.8 † STANDARD 9.4" MAST 150 135 120 103 95 N/A N/A 140 140 5 (7.9 x 2.2 9.4" 62.6	8.0/7.0 † 6.8/5.8 † OPTIONAL 9.4" MAST 175 150 130 115 95 N/A N/A 160 †† 160 †† 160 †† x 2.9
28 29 31 31a 32 33 34 35 36 37 38 39 41	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	Empty/RL Empty/RL Empty/RL  Empty **** RL **** dard l casters  14.25" battery compartment 16.25" battery compartment	ft/min in.	7.5/ 6.6/9 STANI 5.5" N 13 11 99 73 N/ N/ N/ 11 11 5.5" N 60.6	7.0 † 5.8 † DARD MAST 100 0 5 8 A A O 0 5 x  MAST N/A N/A	OPTIC N/ N/ OPTIC 9.4" N 15 13 11 10 N/ N/ N/ 14 2.9  9.4" N N/A 62.6 /A	YEDNAL  /A  /A  /A  /A  /A  /A  /A  /A  /A	S STANDARD 7.5/7.0 † 6.6/5.8 † STANDARD 9.4" MAST 150 135 120 103 95 N/A N/A 140 140 5 (7.9 x 2.2 9.4" 62.6 64.6	8.0/7.0 † 6.8/5.8 † OPTIONAL 9.4" MAST 175 150 130 115 95 N/A N/A 160 †† 160 †† 160 †† x 2.9  MAST N/A 58.5 60.5
28 29 31 31a 31a 32 33 34 35 36 37 38 39 41	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	Empty/RL Empty/RL Empty/RL  Empty **** RL **** lard I casters  14.25" battery compartment 16.25" battery compartment 18.25" battery compartment 21.25" battery compartment	mph  ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min in. in. in.	7.5/ 6.6/9 STANI 5.5" N 13 11 99 73 N/ N/ N/ 11 11 5.5" N 60.6	7.0 † 5.8 † DARD MAST 100 0 5 8 A A O 0 5 x  MAST N/A N/A	OPTIC N/ N/ OPTIC 9.4" N 15 13 11 10 N/ N/ N/ 14 2.9	YEDNAL  /A  /A  /A  /A  /A  /A  /A  /A  /A	S STANDARD 7.5/7.0 † 6.6/5.8 † STANDARD 9.4" MAST 150 135 120 103 95 N/A N/A 140 140 5 (7.9 x 2.2 9.4" 62.6 64.6 67.6	8.0/7.0 † 6.8/5.8 † OPTIONAL 9.4" MAST 175 150 130 115 95 N/A N/A 160 †† 160 †† 160 †† x 2.9
28 29 31 31a 31a 32 33 34 35 36 37 38 39 41	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	Empty/RL Empty/RL Empty/RL  Empty **** RL **** dard l casters  14.25" battery compartment 16.25" battery compartment 21.25" battery compartment Service/parking (method of contr	ft/min in. in. in. in.	7.5/ 6.6/9 STANI 5.5" N 13 11 99 73 N/ N/ N/ 11 11 5.5" N 60.6	7.0 † 5.8 † DARD MAST 100 0 5 8 A A O 0 5 x  MAST N/A N/A	OPTIC N/ N/ OPTIC 9.4" N 15 13 11 10 N/ N/ 14 2.9  9.4" N A 62.6 /A	YEDNAL  /A  /A  /A  /A  /A  /A  /A  /A  /A	S STANDARD 7.5/7.0 † 6.6/5.8 † STANDARD 9.4" MAST 150 135 120 103 95 N/A N/A 140 140 5 (7.9 x 2.2 9.4" 62.6 64.6 67.6 Auto	8.0/7.0 † 6.8/5.8 † OPTIONAL 9.4" MAST 175 150 130 115 95 N/A N/A 160 †† 160 †† 160 †† x 2.9  MAST N/A 58.5 60.5
28 29 31 31a 31a 32 33 34 35 36 37 38 39 41	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/dua	Empty/RL Empty/RL Empty/RL  Empty **** RL **** lard I casters  14.25" battery compartment 16.25" battery compartment 18.25" battery compartment 21.25" battery compartment	ft/min in. in. in. in.	7.5/ 6.6/9 STANI 5.5" N 13 11 99 73 N/ N/ N/ 11 11 5.5" N 60.6	7.0 † 5.8 † DARD MAST 100 0 5 8 A A O 0 5 x  MAST N/A N/A	OPTIC N/ N/ OPTIC 9.4" N 15 13 11 10 N/ N/ 14 2.9  9.4" N A 62.6 /A	YEDNAL  /A  /A  /A  /A  /A  /A  /A  /A  /A	S STANDARD 7.5/7.0 † 6.6/5.8 † STANDARD 9.4" MAST 150 135 120 103 95 N/A N/A 140 140 5 (7.9 x 2.2 9.4" 62.6 64.6 67.6 Auto y (electric release)	8.0/7.0 † 6.8/5.8 † OPTIONAL 9.4" MAST 175 150 130 115 95 N/A N/A 160 †† 160 †† 160 †† x 2.9  MAST N/A 58.5 60.5
28 29 31 31a 32 33 34 35 36 37 38 39 41 42 43 44 45	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/dua Wheelbase  Brakes Battery type	Empty/RL Empty/RL Empty/RL Empty/RL  Empty **** RL **** dard l casters  14.25" battery compartment 16.25" battery compartment 21.25" battery compartment Service/parking (method of operations)	ft/min in. in. in. ol)	7.5/ 6.6/9 STANI 5.5" N 13 11 99 73 N/ N/ N/ 11 11 5.5" N 60.6	7.0 † 5.8 † DARD MAST 100 0 5 8 A A O 0 5 x  MAST N/A N/A	OPTIC N/ N/ OPTIC 9.4" N 15 13 11 10 N/ N/ 14 2.9  9.4" N A 62.6 /A	YEDNAL  /A  /A  /A  /A  /A  /A  /A  /A  /A	S STANDARD 7.5/7.0 † 6.6/5.8 † STANDARD 9.4" MAST 150 135 120 103 95 N/A N/A 140 140 5/7.9 x 2.2 9.4" 106 62.6 64.6 67.6 Auto y (electric release) acid	8.0/7.0 † 6.8/5.8 † OPTIONAL 9.4" MAST 175 150 130 115 95 N/A N/A 160 †† 160 †† 160 †† x 2.9  MAST N/A 58.5 60.5
28 29 31 31a 32 33 34 35 36 37 38 39 41 42 42 43 44 45	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, stands Size, standard - drive tire/dua Wheelbase  Brakes Battery type Traction motor rating (60 min	Empty/RL Empty/RL Empty/RL  Empty **** RL **** lard l casters  14.25" battery compartment 16.25" battery compartment 21.25" battery compartment Service/parking (method of contr	ft/min in. in. in. in. hp (kw)	7.5/ 6.6/9 STANI 5.5" N 13 11 99 73 N/ N/ N/ 11 11 5.5" N 60.6	7.0 † 5.8 † DARD MAST 100 0 5 8 A A O 0 5 x  MAST N/A N/A	OPTIC N/ N/ OPTIC 9.4" N 15 13 11 10 N/ N/ 14 2.9  9.4" N A 62.6 /A	YEDNAL  /A  /A  /A  /A  /A  /A  /A  /A  /A	S STANDARD 7.5/7.0 † 6.6/5.8 † STANDARD 9.4" MAST 150 135 120 103 95 N/A N/A 140 140 5 / 7.9 x 2.2 9.4" 62.6 64.6 67.6 Auto y (electric release) acid 6.6)	8.0/7.0 † 6.8/5.8 † OPTIONAL 9.4" MAST 175 150 130 115 95 N/A N/A 160 †† 160 †† 160 †† x 2.9  MAST N/A 58.5 60.5
28 29 31 31a 32 33 34 35 36 37 38 39 41 42 42 43 44 45	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/dua  Wheelbase  Brakes  Battery type Traction motor rating (60 min Hoist motor rating (5 minute refered)	Empty/RL Empty/RL Empty/RL Empty/RL  Empty **** RL ****  Idard I casters  14.25" battery compartment 16.25" battery compartment 21.25" battery compartment Service/parking (method of contr Service/parking (method of opera	ft/min in. in. in. ol)	7.5/ 6.6/9 STANI 5.5" N 13 11 99 73 N/ N/ N/ 11 11 5.5" N 60.6	7.0 † 5.8 † DARD MAST 100 0 5 8 A A O 0 5 x  MAST N/A N/A	OPTIC N/ N/ OPTIC 9.4" N 15 13 11 10 N/ N/ 14 2.9  9.4" N A 62.6 /A	YEDNAL  /A  /A  /A  /A  /A  /A  /A  /A  /A	S STANDARD 7.5/7.0 † 6.6/5.8 † STANDARD 9.4" MAST 150 135 120 103 95 N/A N/A 140 140 5 (7.9 x 2.2 9.4" 62.6 64.6 67.6 Auto y (electric release) acid 6.6) 21.8)	8.0/7.0 † 6.8/5.8 † OPTIONAL 9.4" MAST 175 150 130 115 95 N/A N/A 160 †† 160 †† 160 †† x 2.9  MAST N/A 58.5 60.5
28 29 31 31a 32 33 34 35 36 37 38 39 41 42 43 44 45 46 47 48	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. 4,000 lb. Lowering speeds Size - front load wheels, stand Size, standard - drive tire/dua  Wheelbase  Brakes Battery type Traction motor rating (60 min Hoist motor rating (5 minute in Traction motor control methol	Empty/RL Empty/RL Empty/RL Empty/RL  Empty **** RL ****  Idard I casters  14.25" battery compartment 16.25" battery compartment 21.25" battery compartment Service/parking (method of contr Service/parking (method of opera	ft/min in. in. in. in. hp (kw)	7.5/ 6.6/9 STANI 5.5" N 13 11 99 73 N/ N/ N/ 11 11 5.5" N 60.6	7.0 † 5.8 † DARD MAST 100 0 5 8 A A O 0 5 x  MAST N/A N/A	OPTIC N/ N/ OPTIC 9.4" N 15 13 11 10 N/ N/ 14 2.9  9.4" N A 62.6 /A	YEDNAL  /A  /A  /A  /A  /A  /A  /A  /A  /A	S STANDARD 7.5/7.0 † 6.6/5.8 † STANDARD 9.4" MAST 150 135 120 103 95 N/A N/A 140 140 5 / 7.9 x 2.2 9.4" 62.6 64.6 67.6 Auto y (electric release) acid 6.6) 21.8) istor	8.0/7.0 † 6.8/5.8 † OPTIONAL 9.4" MAST 175 150 130 115 95 N/A N/A 160 †† 160 †† 160 †† x 2.9  MAST N/A 58.5 60.5
28 29 31 31a 31a 32 33 34 35 36 37 38 39 41 42 43 44 45 46 47	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/dua  Wheelbase  Brakes  Battery type Traction motor rating (60 min Hoist motor rating (5 minute refered)	Empty/RL Empty/RL Empty/RL Empty/RL  Empty **** RL ****  Idard I casters  14.25" battery compartment 16.25" battery compartment 21.25" battery compartment Service/parking (method of contr Service/parking (method of opera	ft/min in. in. in. in. hp (kw)	7.5/ 6.6/9 STANI 5.5" N 13 11 99 73 N/ N/ N/ 11 11 5.5" N 60.6	7.0 † 5.8 † DARD MAST 100 0 5 8 A A O 0 5 x  MAST N/A N/A	OPTIC N/ N/ OPTIC 9.4" N 15 13 11 10 N/ N/ 14 2.9  9.4" N A 62.6 /A	YEDNAL  /A  /A  /A  /A  /A  /A  /A  /A  /A	S STANDARD 7.5/7.0 † 6.6/5.8 † STANDARD 9.4" MAST 150 135 120 103 95 N/A N/A 140 140 5 / 7.9 x 2.2 9.4"	8.0/7.0 † 6.8/5.8 † OPTIONAL 9.4" MAST 175 150 130 115 95 N/A N/A 160 †† 160 †† 160 †† x 2.9  MAST N/A 58.5 60.5

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'

 $<sup>^\</sup>dagger$  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.

 $<sup>^{\</sup>dag \dag}$  High speed lowering and high speed lift are separate options SWB = short wheel base; LWB = long wheel base

NR035-040	DEC & NDR030	DEC MAST DIM	MENSIONS (5.5"	STANDARD)					
Overall	Max. fork	Free-lift	Overall height (mast extended)	Overhead	Operator		Head length (leng	th to face of forks	;)
lowered ht.	height (TOF)	(TOF)	highest point w/36" LBR	guard height to top	to top 14.25"		16.	6.25"	
in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)	Single reach Double reac		Single reach	Double reach
			3-STAGE	FULL FREE-LIF	T (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)	302 (7671)	92 (2337)	340 (8636)	95 (2416)	82.3 (2090)	52.16	57.83	54.21	59.88

NR040-0	45EC & NDI	R030-035E	C MAST DIMENS	SIONS (9.4"	PREMIUM)								
Overall	Max. fork height	Free-lift	Overall height (mast extended)	Overhead guard	Operator		Неа	d length (leng	th to face of fo	rks)			
lowered ht.	(TOF)	(TOF)	highest point w/36" LBR	height to top	o clearance		.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)	368 (9347)	121 (3084)	404 (10262)	95 (2416)	82.3 (2090)	57.20	62.91	59.17	64.92	62.12	67.91		

NR045EC 8	k NDR035EC N	MAST DIMENS	IONS (9.4" XL P	REMIUM)							
Overall	Max. fork	Free-lift	Overall height (mast extended)			Operator					
lowered ht.	height (TOF)	(TOF)	highest point w/36" LBR	to top	25"	21.25"					
in. (mm)	in. (mm)	in. (mm)	in. (mm)	(mm) in. (mm) in. (mm) Single reach Double reach					Double reach		
			3-STAGE	FULL FREE-LIF	T (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		

BATTER	RY AN	D CON	ИPAR	TMEN	IT SPI	ECIFIC	CATIO	NS														
										Batt	ery spe	cificati	ons									
Battery	tr. bt. D45 C						mum	Ва					Minimum	Maximum								
compt.		NR035EC	NR040EC	NDR030EC	NR045EC	NDR035EC	6 Hr	Rate	"X"	max.	"Y" r	nax.	"Z" ı	nax.	"X"	max.	"Y" :	max.	"Z"	max.	batt. wt.	batt. wt.
size	Batt	Ä	岁	N	Ä	N	АН	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	0P
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	OP
5" x 3.9" poly articulating tandem load wheels -	315	01
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	070	
LIFT	STD	O P
91"/203"/52"-(5.5") 3-Stage FFL mast (NR035-040EC, NDR030EC)	•	
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		
HANDLING	STD	OF
Forks: 1.8" x 3.9" (45 mm x 100 mm) 42"(1067 mm) –		01
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		OF
Various fork lengths ERGONOMICS	STD	
Various fork lengths ERGONOMICS Operator sensing system	SID	
Various fork lengths ERGONOMICS		
Various fork lengths ERGONOMICS Operator sensing system	•	

ERGONOMICS CONTINUED	STD	0P
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	0P
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 Reliant™ (available on NR045EC)		•
ENERGY SYSTEM	STD	OF
Lead acid	•	
SUPPLEMENTAL	STD	0P
Operating manual	•	

<sup>\*</sup> 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.

<sup>\*\*</sup> 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.

Yale Lift Truck Technologies is a trading name of Hyster-Yale Asia-Pacific Pty Ltd., a wholly owned subsidiary of Hyster-Yale Materials Handling, Inc. (NYSE:HY) which is headquartered in Cleveland, Ohio and operates globally.

### 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

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