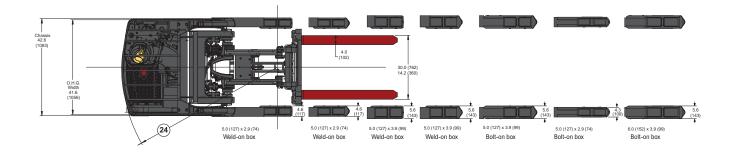
N35-45ZR3 AND N30-35ZDR3

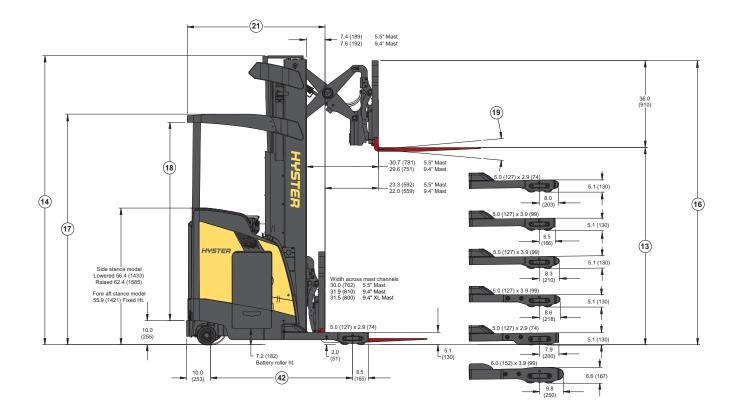
NARROW AISLE REACH TRUCK PRODUCT TECHNICAL GUIDE



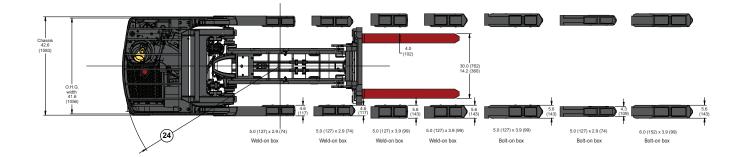
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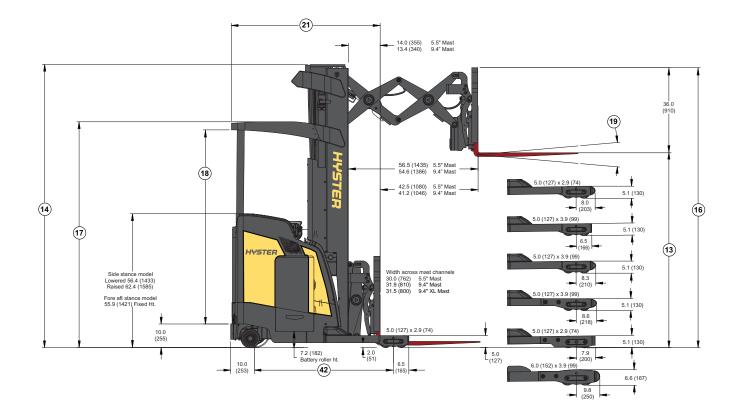
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Circled dimensions correspond to the line numbers on the tabulated chart inside the technical guide. Dimensions are in inches (millimeters).





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

SPECIFICATIONS

	1	Manufacturer name	1						Hys	tor					
	2	Model		N35	ZR3	N40	7R3			ZDR3		N44	5ZR3	N3F	ZDR3
	3	Wheel base designation ¹			VB	SV		LWB		LWB	SWB		WB	LWB	SWB
F	4	Rated capacity	lb (kg)		(1588)		(1814)	LIVD		(1361)	0110		(2041)		(1588)
ER/	5	Load center, distance	in (mm)	0000	(1000)	1000 (24 (6	· /		1000	(2011)	0000	(1000)
GENERAL	6	Power type - electric, diesel, LPG							Electric	,					
	7	Operator type							Sta						
	8	Tire type - load/caster/drive							Poly/po						
	9	Wheels, number load/drive (x=driven)							4/2 (
	10		lb	54	00	54	00			50		59	930	6	190
WT.	12		lb	6874	/ 4375	7459	/ 4290		6409	/ 4589		8546	/ 4228	7578	/ 4458
	13	Height, standard lift (TOF)	in (mm)												
	14	Height, standard mast lowered (OALH)	in (mm)												
	15	Height, freelift (TOF)	in (mm)						0						
	16	Height, standard mast extended w/LBR	in (mm)						See ma	st table					
	17	Height, top of OHG	in (mm)												
	18	Height, operator clearance	in (mm)												
	19	Mast tilt angle, forward/back	degrees						3/	4					
	20	Forks, standard (length x width x thickness)	in	1.60 x 3	3.9 x 42	1.80 x 3	3.9 x 42		1.60 x 3	3.9 x 42		1.80 x	3.9 x 42	1.60 x	3.9 x 42
NS	21	Head length to face of forks - all battery compartments ³	in (mm)						See ma	st table					
DIMENSIONS	22		in							increme	,				
MEN		Battery compartment size, 14.25" - (LxWxH)			.25 x 31.5	39.0 x 14.				.25 x 31			I/A		N/A
E	23	Battery compartment size, 16.25" - (LxWxH)	in		.25 x 31.5			3		.25 x 31	.5				6.25 x 31.5
		Battery compartment size, 18.25" - (LxWxH)	in		/A	N/				/A					8.25 x 31.5
		Battery compartment size, 21.25" - (LxWxH)	in		/A									1.25 x 31.5	
			i .			5.5" mast			mast		mast		mast	1	' mast
		Turning radius - min. Outside, 14.25" batt. compartment	in	65.6	N/A	65.6	N/A	70.6	N/A	N/A	N/A		I/A		V/A
	24	Turning radius - min. Outside, 16.25" batt. compartment	in	67.6	N/A	67.6	68.5	72.6	72.6 N/A 72.6 68.5 N/A			8.5	72.6	68.5	
		Turning radius - min. Outside, 18.25" batt. compartment	in	N		N/							0.5	74.6	70.5
	25	Turning radius - min. Outside, 21.25" batt. compartment Aisle width - zero clearance - right angle stack	in	IN	/A	N	A	Soo ri		/A le stack t	abla	1.	3.5	77.6	73.5
		Stability - comply with ANSI						366 11	YE		lable				
	20			01 1 1	Outlenal		Optional	Stan		Opti	onal	Ctondovd	Optional		0
		Iraval sheed		Standard		Standard								Standard	
	28	Travel speed Rearward (chassis first) - empty/RI	mnh	Standard	Optional N/A										1
	28 29	Rearward (chassis first) - empty/RL	mph mph	7.5/6.5 †	N/A	7.5/6.5 †	N/A	7.5/	6.5 †	N	/A	7.5/6.5 †	8.0/6.5 †	7.5/6.5 †	8.0/6.5 †
	28 29	Rearward (chassis first) - empty/RL Forward (forks first) - empty/RL	mph mph	7.5/6.5 [†] 7.5/6.5 [†]	N/A N/A	7.5/6.5 [†] 7.5/6.5 [†]		7.5/ 7.5/	6.5 † 6.5 †	N, N,	/A /A		8.0/6.5 [†] 8.0/6.5 [†]		8.0/6.5 [†] 8.0/6.5 [†]
CE	_	Rearward (chassis first) - empty/RL		7.5/6.5 [†] 7.5/6.5 [†] Standard	N/A N/A	7.5/6.5 [†] 7.5/6.5 [†] Standard	N/A N/A Optional 9.4"	7.5/ 7.5/ Stan	6.5 †	N, N, Opti	/A	7.5/6.5 ⁺ 7.5/6.5 ⁺ Standard 9.4"	8.0/6.5 [†] 8.0/6.5 [†]	7.5/6.5 [†] 7.5/6.5 [†] Standard 9.4"	8.0/6.5 [†] 8.0/6.5 [†]
MANCE	29	Rearward (chassis first) - empty/RL Forward (forks first) - empty/RL		7.5/6.5 [†] 7.5/6.5 [†] Standard	N/A N/A Optional	7.5/6.5 [†] 7.5/6.5 [†] Standard	N/A N/A Optional	7.5/ 7.5/ Stan 5.5"	<mark>6.5 †</mark> 6.5 † Idard	N, N Opti 9.4"	/A /A onal	7.5/6.5 [†] 7.5/6.5 [†] Standard	8.0/6.5 [†] 8.0/6.5 [†] Optional	7.5/6.5 [†] 7.5/6.5 [†] Standard	8.0/6.5 [†] 8.0/6.5 [†] Optional
ORMANCE	29 31 31a	Rearward (chassis first) - empty/RL Forward (forks first) - empty/RL Lift speed ⁴	mph	7.5/6.5 † 7.5/6.5 † Standard 5.5" mast	N/A N/A Optional 9.4" mast	7.5/6.5 [†] 7.5/6.5 [†] Standard 5.5" mast	N/A N/A Optional 9.4" mast	7.5/ 7.5/ Stan 5.5"	6.5 [†] 6.5 [†] Idard mast	N, N, 9.4"	/A /A onal mast	7.5/6.5 [†] 7.5/6.5 [†] Standard 9.4" mast	8.0/6.5 [†] 8.0/6.5 [†] Optional 9.4" mast	7.5/6.5 [†] 7.5/6.5 [†] Standard 9.4" mast	8.0/6.5 † 8.0/6.5 † Optional 9.4" mast
ERFORMANCE	29 31 31a 32	Rearward (chassis first) - empty/RL Forward (forks first) - empty/RL Lift speed ⁴ Empty	mph ft/min	7.5/6.5 [†] 7.5/6.5 [†] Standard 5.5" mast 130	N/A N/A Optional 9.4" mast	7.5/6.5 [†] 7.5/6.5 [†] Standard 5.5" mast 130	N/A N/A Optional 9.4" mast 150	7.5/ 7.5/ Stan 5.5"	6.5 † 6.5 † dard mast 30 10	N, Opti 9.4" 18	/A /A onal mast	7.5/6.5 † 7.5/6.5 † Standard 9.4" mast 150	8.0/6.5 [†] 8.0/6.5 [†] Optional 9.4" mast	7.5/6.5 † 7.5/6.5 † Standard 9.4" mast 150	8.0/6.5 [†] 8.0/6.5 [†] Optional 9.4" mast
PERFORMANCE	29 31 31a 32 33	Rearward (chassis first) - empty/RL Forward (forks first) - empty/RL Lift speed ⁴ Empty 1,000 lb	ft/min	7.5/6.5 [†] 7.5/6.5 [†] Standard 5.5" mast 130 110	N/A N/A Optional 9.4" mast N/A N/A	7.5/6.5 [†] 7.5/6.5 [†] Standard 5.5" mast 130 110	N/A N/A Optional 9.4" mast 150 133	7.5/ 7.5/ Stan 5.5"	6.5 [†] 6.5 [†] idard mast 30 10 5	N, N) 9.4" 15 13	/A /A onal mast 50 33	7.5/6.5 † 7.5/6.5 † Standard 9.4" mast 150 133	8.0/6.5 [†] 8.0/6.5 [†] 0ptional 9.4" mast 175 150	7.5/6.5 † 7.5/6.5 † Standard 9.4" mast 150 135	8.0/6.5 † 8.0/6.5 † Optional 9.4" mast 175 150
PERFORMANCE	29 31 31a 32 33 34	Rearward (chassis first) - empty/RL Forward (forks first) - empty/RL Lift speed ⁴ Empty 1,000 lb 2,000 lb	ft/min ft/min ft/min	7.5/6.5 † 7.5/6.5 † Standard 5.5" mast 130 110 95	N/A N/A Optional 9.4" mast N/A N/A N/A	7.5/6.5 [†] 7.5/6.5 [†] Standard 5.5" mast 130 110 95	N/A N/A Optional 9.4" mast 150 133 115	7.5/ 7.5/ Stan 5.5" 13 12 9	6.5 [†] 6.5 [†] dard mast 30 10 5 '8	N, N) 9.4" 15 13	/A /A onal mast 50 33 15 00	7.5/6.5 [†] 7.5/6.5 [†] Standard 9.4" mast 150 133 115	8.0/6.5 [†] 8.0/6.5 [†] 9.4" mast 175 150 130	7.5/6.5 † 7.5/6.5 † Standard 9.4" mast 150 135 120	8.0/6.5 † 8.0/6.5 † 0ptional 9.4" mast 175 150 130
PERFORMANCE	29 31 31a 32 33 34 35	Rearward (chassis first) - empty/RL Forward (forks first) - empty/RL Lift speed ⁴ Empty 1,000 lb 2,000 lb 3,000 lb 3,500 lb 4,000 lb	ft/min ft/min ft/min ft/min ft/min ft/min	7.5/6.5 † 7.5/6.5 † Standard 5.5" mast 130 110 95 78 78 75 N/A	N/A N/A Optional 9.4" mast N/A N/A N/A N/A N/A N/A N/A	7.5/6.5 [†] 7.5/6.5 [†] Standard 5.5" mast 130 110 95 78 75 70	N/A N/A Optional 9.4" mast 150 133 115 100 87 83	7.5/ 7.5/ Stan 5.5" 13 11 9 7 7	6.5 † 6.5 † dard mast 30 10 55 8 /A /A	N, N, 9,4" 11 11 11 10 N, N, N,	/A onal mast 50 33 15 00 /A /A	7.5/6.5 [†] 7.5/6.5 [†] Standard 9.4" mast 150 133 115 100 87 83	8.0/6.5 [†] 8.0/6.5 [†] Optional 9.4" mast 175 150 130 115 105 100	7.5/6.5 † 7.5/6.5 † Standard 9.4" mast 150 135 120 103 95 N/A	8.0/6.5 † 8.0/6.5 † Optional 9.4" mast 175 150 130 115 95 N/A
PERFORMANCE	29 31 31a 32 33 34 35 36	Rearward (chassis first) - empty/RL Forward (forks first) - empty/RL Lift speed ⁴ Empty 1,000 lb 2,000 lb 3,000 lb 3,500 lb 4,000 lb 4,500 lb	ft/min ft/min ft/min ft/min ft/min ft/min ft/min	7.5/6.5 † 7.5/6.5 † Standard 5.5" mast 130 110 95 78 75 N/A N/A	N/A N/A Optional 9.4" mast N/A N/A N/A N/A N/A N/A N/A N/A	7.5/6.5 [†] 7.5/6.5 [†] Standard 5.5" mast 130 110 95 78 75 70 N/A	N/A N/A Optional 9.4" mast 150 133 115 100 87 83 N/A	7.5/ 7.5/ Stan 5.5" 13 11 9 7 7 N. N.	6.5 † 6.5 † idard mast 30 10 15 5 78 /A /A /A	N, N, 9,4" 11 11 11 10 N, N, N, N, N, N, N,	/A onal mast 50 33 15 00 /A /A /A	7.5/6.5 [†] 7.5/6.5 [†] Standard 9.4" mast 150 133 115 100 87 83 80	8.0/6.5 [†] 8.0/6.5 [†] Optional 9.4" mast 175 150 130 115 105 100 95	7.5/6.5 † 7.5/6.5 † Standard 9.4" mast 150 135 120 103 95 N/A N/A	8.0/6.5 † 8.0/6.5 † Optional 9.4" mast 175 150 130 115 95 N/A N/A
PERFORMANCE	29 31 31a 32 33 34 35 36 37	Rearward (chassis first) - empty/RL Forward (forks first) - empty/RL Lift speed ⁴ Empty 1,000 lb 2,000 lb 3,000 lb 3,500 lb 4,000 lb 4,500 lb Lowering speeds, empty ⁴	 mph ft/min 	7.5/6.5 [†] 7.5/6.5 [†] Standard 5.5" mast 130 110 95 78 75 N/A N/A 110	N/A N/A Optional 9.4" mast N/A N/A N/A N/A N/A N/A	7.5/6.5 ¹ 7.5/6.5 ¹ Standard 5.5" mast 130 110 95 78 75 70 N/A 110	N/A N/A Optional 9.4" mast 150 133 115 100 87 83 N/A 140	7.5// 7.5// Stan 5.5" 13 11 9 7 7 N, N, N, N, 11	6.5 † 6.5 † dard mast 30 10 55 5 78 /A /A /A /A 10	N, Opti 9.4" 15 13 11 10 N, N, N, N, N, 14	/A onal mast 50 33 15 50 (A /A /A /A /A /A	7.5/6.5 [†] 7.5/6.5 [†] Standard 9.4" mast 150 133 115 100 87 83 80 140	8.0/6.5 ⁺ 8.0/6.5 ⁺ Optional 9.4" mast 175 150 130 115 105 100 95 160 ⁺⁺	7.5/6.5 [†] 7.5/6.5 [†] Standard 9.4" mast 150 135 120 103 95 N/A N/A 140	8.0/6.5 † 8.0/6.5 † Optional 9.4" mast 175 150 130 115 95 N/A N/A 160 ^{††}
PERFORMANCE	29 31 31a 32 33 34 35 36 37 38	Rearward (chassis first) - empty/RL Forward (forks first) - empty/RL Lift speed ⁴ Empty 1,000 lb 2,000 lb 3,000 lb 3,500 lb 4,000 lb 2,500 lb Lowering speeds, empty ⁴ Lowering speeds, RL ⁴	ft/min ft/min ft/min ft/min ft/min ft/min ft/min	7.5/6.5 [†] 7.5/6.5 [†] Standard 5.5" mast 130 95 78 75 N/A N/A 110 110	N/A N/A Optional 9.4" mast N/A N/A N/A N/A N/A N/A N/A N/A N/A	7.5/6.5 1 7.5/6.5 † Standard 5.5" mast 130 95 78 75 70 N/A 110 110	N/A N/A Optional 9.4" mast 150 1333 115 100 87 83 N/A 140 140	7.5/ 7.5/ Stan 5.5" 13 11 9 7 7 N. N.	6.5 † 6.5 † dard mast 30 10 55 8 /A /A /A /A /A 10 10	N, Opti 9.4" 15 13 11 10 N, N, N, N, 14 14	/A onal mast 50 33 15 00 /A /A /A	7.5/6.5 [†] 7.5/6.5 [†] Standard 9.4" mast 150 133 115 100 87 83 80 140 140	8.0/6.5 t 8.0/6.5 t 0ptional 9.4" masl 175 150 130 115 105 100 95 160 tt 160 tt	7.5/6.5 [†] 7.5/6.5 [†] Standard 9.4" mast 150 135 120 103 95 N/A N/A 140 140	8.0/6.5 1 8.0/6.5 1 9.4" mast 175 150 130 115 95 N/A N/A 160 ^{tt} 160 ^{tt}
PERFORMANCE	29 31 31a 32 33 34 35 36 37 38 39	Rearward (chassis first) - empty/RL Forward (forks first) - empty/RL Lift speed ⁴ Empty 1,000 lb 2,000 lb 3,000 lb 3,500 lb 4,000 lb 2,500 lb Lowering speeds, empty ⁴ Lowering speeds, RL ⁴ Size - front load wheels, standard	 mph ft/min 	7.5/6.5 [†] 7.5/6.5 [†] Standard 5.5" mast 130 95 78 75 N/A N/A 110 110	N/A N/A Optional 9.4" mast N/A N/A N/A N/A N/A N/A	7.5/6.5 ¹ 7.5/6.5 ¹ Standard 5.5" mast 130 110 95 78 75 70 N/A 110	N/A N/A Optional 9.4" mast 150 1333 115 100 87 83 N/A 140 140	7.5// 7.5// Stan 5.5" 13 14 9 7 7 N/ N/ N/ N/ 11	6.5 † 6.5 † dard mast 30 10 55 8 8 /A /A /A /A 10 10 10 5 x	N. N. 9.4" 15 13 11 10 N. N. N. 14 14 2.9	/A /A onal mast 50 33 15 50 /A /A /A /A /A /A 40 40	7.5/6.5 [†] 7.5/6.5 [†] Standard 9.4" mast 150 133 115 100 87 83 80 140 140	8.0/6.5 ⁺ 8.0/6.5 ⁺ Optional 9.4" mast 175 150 130 115 105 100 95 160 ⁺⁺	7.5/6.5 [†] 7.5/6.5 [†] Standard 9.4" mast 150 135 120 103 95 N/A N/A 140 140	8.0/6.5 † 8.0/6.5 † Optional 9.4" mast 175 150 130 115 95 N/A N/A 160 ^{††}
	29 31 31a 32 33 34 35 36 37 38 39	Rearward (chassis first) - empty/RL Forward (forks first) - empty/RL Lift speed ⁴ Empty 1,000 lb 2,000 lb 3,000 lb 3,500 lb 4,000 lb 2,500 lb Lowering speeds, empty ⁴ Lowering speeds, RL ⁴ Size - front load wheels, standard	mph ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min	7.5/6.5 [†] 7.5/6.5 [†] Standard 5.5" mast 130 95 78 75 N/A N/A 110 110 5 x	N/A N/A Optional 9.4" mast N/A N/A N/A N/A N/A N/A N/A N/A 3.9	7.5/6.5 [†] 7.5/6.5 [†] Standard 5.5" mast 130 95 78 75 70 N/A 110 110 5 x	N/A N/A Optional 9.4" mast 150 133 115 100 87 83 N/A 140 140 3.9	7.5// 7.5// Stan 5.5" 13 14 9 7 7 N/ N/ N/ N/ 11 11	6.5 † 6.5 † dard mast 30 10 55 8 /A /A /A /A /A 10 10 5 x 5.5 5	N. N. 9,4" 15 13 11 10 N. N. N. N. 14 2.9 (7.9 × 2.	/A /A onal mast 50 33 33 15 50 00 /A /A /A /A /A /A 2 /2	7.5/6.5 † 7.5/6.5 † Standard 9.4" mast 150 133 115 100 87 83 80 140 140 5 ×	8.0/6.5 t 8.0/6.5 t 0ptional 9.4" mast 175 150 130 115 105 100 95 160 tt 160 tt 160 tt 3.9	7.5/6.5 † 7.5/6.5 † Standard 9.4" mast 150 135 120 103 95 N/A N/A 140 140 5 ;	8.0/6.5 1 8.0/6.5 1 9.4" mast 175 150 130 115 95 N/A N/A 160 ⁺⁺ 160 ⁺⁺ x 2.9
	29 31 31a 32 33 34 35 36 37 38 39	Rearward (chassis first) - empty/RL Forward (forks first) - empty/RL Lift speed ⁴ Empty 1,000 lb 2,000 lb 3,000 lb 3,500 lb 4,000 lb 2,500 lb 2,000 lb 3,500 lb 4,000 lb 2,000 lb 3,500 lb 4,000 lb Size - front load wheels, standard Size, standard - drive tire/dual casters	mph ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min	7.5/6.5 [†] 7.5/6.5 [†] Standard 5.5" mast 130 95 78 75 N/A N/A 110 110 5.5" mast	N/A N/A Optional 9.4" mast N/A N/A N/A N/A N/A N/A N/A N/A 3.9 9.4" mast	7.5/6.5 [†] 7.5/6.5 [†] Standard 5.5" mast 130 95 78 75 70 N/A 110 110 5.5" mast	N/A N/A Optional 9.4" mast 150 133 115 100 87 83 N/A 140 140 3.9 9.4" mast	7.5// 7.5// Stan 5.5" 13 11 9 7 7 N, N, N, 11 11 11 13. 5.5"	6.5 † 6.5 † dard mast 30 10 55 8 /A /A /A /A /A 10 10 5 x 5.5 5 5 8 /A /A /A 10 10 5 5 8 /A /A /A /A /A /A /A /A /A /A /A /A /A	N, 0pti 9.4" 15 13 11 10 N, N, 14 2.9 (7.9 × 2. 9.4"	/A /A onal mast 50 33 33 15 50 00 /A /A /A /A /A /A /A 2 / //A //A //A //	7.5/6.5 † 7.5/6.5 † Standard 9.4" mast 150 133 115 100 87 83 80 140 140 5 ×	8.0/6.5 t 8.0/6.5 t 9.4" mast 175 150 130 115 105 100 95 160 tt 160 tt 3.9	7.5/6.5 † 7.5/6.5 † Standard 9.4" mast 150 135 120 103 95 N/A N/A 140 140 5 ;	8.0/6.5 1 8.0/6.5 1 9.4" mast 175 150 130 115 95 N/A N/A 160 ⁺⁺ 160 ⁺⁺ x 2.9
	29 31 31a 32 33 34 35 36 37 38 39 41	Rearward (chassis first) - empty/RL Forward (forks first) - empty/RL Lift speed ⁴ Empty 1,000 lb 2,000 lb 3,000 lb 3,000 lb 4,000 lb 4,000 lb Lowering speeds, empty ⁴ Lowering speeds, RL ⁴ Size - front load wheels, standard Size, standard - drive tire/dual casters Wheelbase - 14.25" battery compartment	mph ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min in	7.5/6.5 [†] 7.5/6.5 [†] Standard 5.5" mast 130 95 78 75 N/A N/A 110 110 5.5" mast 55.6	N/A N/A 9.4" mast N/A N/A N/A N/A N/A N/A N/A N/A 3.9 9.4" mast N/A	7.5/6.5 [†] 7.5/6.5 [†] Standard 5.5" mast 130 95 78 75 70 N/A 110 110 5.5" mast 55.6	N/A N/A Optional 9.4" mast 150 133 115 100 87 83 N/A 140 140 3.9 9.4" mast N/A	7.5// 7.5// Stan 5.5" 13 14 9 7 7 N, N, N, 11 11 13. 5.5" 60.6	6.5 † 6.5 † 10 mast 30 10 55 8 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	N, 0pti 9.4" 11 13 14 14 14 2.9 (7.9 × 2. 9.4" N/A	/A /A onal mast 50 33 15 50 00 /A /A /A 40 40 40 2 mast N/A	7.5/6.5 [†] 7.5/6.5 [†] Standard 9.4" mast 150 133 115 100 87 83 80 140 140 140 5 ×	8.0/6.5 ⁺ 8.0/6.5 ⁺ 9.4" mas 175 150 130 115 105 100 95 160 ⁺⁺ 160 ⁺⁺ 3.9	7.5/6.5 † 7.5/6.5 † Standard 9.4" mast 150 135 120 103 95 N/A N/A 140 140 5 ;	8.0/6.5 ⁺ 8.0/6.5 ⁺ 9.4" mast 175 150 130 115 95 N/A N/A 160 ⁺⁺ 160 ⁺⁺ 160 ⁺⁺ x 2.9
	29 31 31a 32 33 34 35 36 37 38 39	Rearward (chassis first) - empty/RL Forward (forks first) - empty/RL Lift speed ⁴ Empty 1,000 lb 2,000 lb 3,000 lb 3,000 lb 4,000 lb 4,000 lb 4,000 lb 4,000 lb 2,000 lb 3,500 lb Lowering speeds, empty ⁴ Lowering speeds, RL ⁴ Size - front load wheels, standard Size, standard - drive tire/dual casters Wheelbase - 14.25" battery compartment Wheelbase - 16.25" battery compartment	mph ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min in in	7.5/6.5 [†] 7.5/6.5 [†] Standard 5.5" mast 130 95 78 75 N/A N/A 110 110 5.5" mast 55.6 57.6	N/A N/A N/A 9.4" mast N/A N/A N/A N/A N/A N/A N/A 3.9 9.4" mast N/A	7.5/6.5 ¹ 7.5/6.5 [†] Standard 5.5" mast 1300 95 78 75 70 N/A 110 110 5.5" mast 55.6 57.6	N/A N/A Optional 9.4" mast 150 133 115 100 87 83 N/A 140 140 3.9 9.4" mast N/A 58.5	7.5// 7.5// Stan 5.5" 13 11 9 7 7 N, N, N, 11 11 11 13. 5.5"	6.5 † 6.5 † 10 mast 30 10 55 8 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	N, 0pti 9.4" 13 11 10 N, N, 14 2.9 (7.9 × 2. 9.4" N/A 62.6	/A /A onal mast 50 33 33 15 50 00 /A /A /A /A /A /A /A 2 / //A //A //A //	7.5/6.5 [†] 7.5/6.5 [†] Standard 9.4" mast 150 133 115 100 87 83 80 140 140 140 5 ×	8.0/6.5 ⁺ 8.0/6.5 ⁺ 9.4" mas 175 150 130 115 100 95 160 ⁺⁺ 160 ⁺⁺ 3.9 mast 1/A 8.5	7.5/6.5 [†] 7.5/6.5 [†] Standard 9.4" mast 150 135 120 103 95 N/A N/A 140 140 5 : 9.4"	8.0/6.5 ⁺ 8.0/6.5 ⁺ 9.4" mast 175 150 130 115 95 N/A N/A 160 ⁺⁺ 160 ⁺⁺ 160 ⁺⁺ x 2.9
	29 31 31a 32 33 34 35 36 37 38 39 41	Rearward (chassis first) - empty/RL Forward (forks first) - empty/RL Lift speed ⁴ Empty 1,000 lb 2,000 lb 3,000 lb 3,000 lb 4,000 lb 4,000 lb 4,000 lb 4,000 lb 2,000 lb 3,500 lb Lowering speeds, empty ⁴ Lowering speeds, RL ⁴ Size - front load wheels, standard Size, standard - drive tire/dual casters Wheelbase - 14.25" battery compartment Wheelbase - 16.25" battery compartment	mph ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min in in in in	7.5/6.5 [†] 7.5/6.5 [†] Standard 5.5" mast 130 95 78 75 N/A N/A 110 110 5.5" mast 55.6 57.6 N	N/A N/A N/A 9.4" mast N/A N/A N/A N/A N/A N/A N/A N/A 9.4" mast N/A A	7.5/6.5 [†] 7.5/6.5 [†] Standard 5.5" mast 1300 95 78 75 70 N/A 110 110 5.5" mast 55.6 57.6 N/	N/A N/A Optional 9.4" mast 150 133 115 100 87 83 N/A 140 140 3.9 9.4" mast N/A 58.5	7.5// 7.5// Stan 5.5" 13 14 9 7 7 N, N, N, 11 11 13. 5.5" 60.6	6.5 † 6.5 † 10 mast 30 10 55 8 /A /A /A /A /A 10 10 55 × 5.5 mast N/A N/A N	N, 0pti 9.4" 15 13 11 10 N, N, N, 14 14 2.9 / 7.9 x 2. 9.4" N/A 62.6 /A	/A /A onal mast 50 33 15 50 00 /A /A /A 40 40 40 2 mast N/A	7.5/6.5 [†] 7.5/6.5 [†] Standard 9.4" mast 150 133 115 100 87 83 80 140 140 140 5 ×	8.0/6.5 † 8.0/6.5 † 0ptional 9.4" mast 175 150 130 115 100 95 160 †† 160 †† 3.9 mast 1/A 8.5 0.5	7.5/6.5 † 7.5/6.5 † Standard 9.4" mast 150 135 120 103 95 N/A N/A 140 140 5 ; 9.4"	8.0/6.5 ⁺ 8.0/6.5 ⁺ 9.4" mast 175 150 130 115 95 N/A N/A 160 ⁺⁺ 160 ⁺⁺ 160 ⁺⁺ x 2.9
WHEELS & TIRES PERFORMANCE	29 31 31a 32 33 34 35 36 37 38 39 41 42	Rearward (chassis first) - empty/RL Forward (forks first) - empty/RL Lift speed ⁴ Empty 1,000 lb 2,000 lb 3,000 lb 3,000 lb 3,000 lb 4,000 lb 4,000 lb Lowering speeds, empty ⁴ Lowering speeds, RL ⁴ Size - front load wheels, standard Size, standard - drive tire/dual casters Wheelbase - 14.25" battery compartment Wheelbase - 18.25" battery compartment Wheelbase - 18.25" battery compartment Wheelbase - 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	7.5/6.5 [†] 7.5/6.5 [†] Standard 5.5" mast 130 95 78 75 N/A N/A 110 110 5.5" mast 55.6 57.6 N	N/A N/A N/A 9.4" mast N/A N/A N/A N/A N/A N/A N/A 3.9 9.4" mast N/A	7.5/6.5 ¹ 7.5/6.5 [†] Standard 5.5" mast 1300 95 78 75 70 N/A 110 110 5.5" mast 55.6 57.6	N/A N/A Optional 9.4" mast 150 133 115 100 87 83 N/A 140 140 3.9 9.4" mast N/A 58.5	7.5// 7.5// Stan 5.5" 13 14 9 7 7 N, N, N, 11 11 13. 5.5" 60.6	6.5 † 6.5 † 10 mast 30 10 55 8 /A /A /A /A /A 10 10 55 × 5.5 mast N/A N/A N	N, 0pti 9.4" 11 13 11 10 N, N, 14 14 2.9 / 7.9 x 2. 9.4" N/A 62.6 /A /A	/A /A onal mast 50 33 15 50 00 /A /A /A 40 40 40 2 mast N/A	7.5/6.5 [†] 7.5/6.5 [†] Standard 9.4" mast 150 133 115 100 87 83 80 140 140 140 5 ×	8.0/6.5 ⁺ 8.0/6.5 ⁺ 9.4" mas 175 150 130 115 100 95 160 ⁺⁺ 160 ⁺⁺ 3.9 mast 1/A 8.5	7.5/6.5 [†] 7.5/6.5 [†] Standard 9.4" mast 150 135 120 103 95 N/A N/A 140 140 5 : 9.4"	8.0/6.5 ⁺ 8.0/6.5 ⁺ 9.4" mast 175 150 130 115 95 N/A N/A 160 ⁺⁺ 160 ⁺⁺ 160 ⁺⁺ x 2.9
	29 31 31a 32 33 34 35 36 37 38 39 41 42	Rearward (chassis first) - empty/RL Forward (forks first) - empty/RL Lift speed ⁴ Empty 1,000 lb 2,000 lb 3,000 lb 3,000 lb 4,000 lb 4,000 lb 4,000 lb 4,000 lb 2,000 lb 3,500 lb Lowering speeds, empty ⁴ Lowering speeds, RL ⁴ Size - front load wheels, standard Size, standard - drive tire/dual casters Wheelbase - 14.25" battery compartment Wheelbase - 16.25" battery compartment	mph ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min in in in in	7.5/6.5 [†] 7.5/6.5 [†] Standard 5.5" mast 130 95 78 75 N/A N/A 110 110 5.5" mast 55.6 57.6 N	N/A N/A N/A 9.4" mast N/A N/A N/A N/A N/A N/A N/A N/A 9.4" mast N/A A	7.5/6.5 [†] 7.5/6.5 [†] Standard 5.5" mast 1300 95 78 75 70 N/A 110 110 5.5" mast 55.6 57.6 N/	N/A N/A Optional 9.4" mast 150 133 115 100 87 83 N/A 140 140 3.9 9.4" mast N/A 58.5 /A /A	7.5// 7.5// Stan 5.5" 13 11 9 7 N/ N/ N/ N/ 11 11 13 : 5.5" 60.6 62.6	6.5 † 6.5 † 10 mast 30 10 55 8 7 7 7 8 7 7 7 7 8 7 7 7 7 7 8 7 7 7 7 8 7 7 7 7 8 7	N, 0pti 9.4" 11 13 11 10 N, N, 14 14 2.9 / 7.9 x 2. 9.4" N/A 62.6 /A /A	/A /A onal mast 50 50 33 15 00 /A /A /A 40 40 40 2 mast N/A 58.5	7.5/6.5 [†] 7.5/6.5 [†] Standard 9.4" mast 150 133 115 100 87 83 80 140 140 5 × 9.4" N 55 61 61 61	8.0/6.5 † 8.0/6.5 † 0ptional 9.4" mast 175 150 130 115 100 95 160 †† 160 †† 3.9 mast 1/A 8.5 0.5	7.5/6.5 † 7.5/6.5 † Standard 9.4" mast 150 135 120 103 95 N/A N/A 140 140 5 ; 9.4"	8.0/6.5 ⁺ 8.0/6.5 ⁺ 9.4" mast 175 150 130 115 95 N/A N/A 160 ⁺⁺ 160 ⁺⁺ 160 ⁺⁺ x 2.9
	29 31 31a 32 33 34 35 36 37 38 39 41 41 42 43 44	Rearward (chassis first) - empty/RL Forward (forks first) - empty/RL Lift speed ⁴ Empty 1,000 lb 2,000 lb 3,000 lb 3,000 lb 3,000 lb 4,000 lb 4,000 lb 2,000 lb 3,000 lb 3,000 lb 3,000 lb 4,000 lb 4,000 lb Lowering speeds, empty ⁴ Lowering speeds, RL ⁴ Size - front load wheels, standard Size, standard - drive tire/dual casters Wheelbase - 14.25" battery compartment Wheelbase - 16.25" battery compartment Wheelbase - 18.25" battery compartment Wheelbase - 21.25" battery compartment Brakes, service/parking (method of control)	mph ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min in in in in	7.5/6.5 [†] 7.5/6.5 [†] Standard 5.5" mast 130 95 78 75 N/A N/A 110 110 5.5" mast 55.6 57.6 N	N/A N/A N/A 9.4" mast N/A N/A N/A N/A N/A N/A N/A N/A 9.4" mast N/A A	7.5/6.5 [†] 7.5/6.5 [†] Standard 5.5" mast 1300 95 78 75 70 N/A 110 110 5.5" mast 55.6 57.6 N/	N/A N/A Optional 9.4" mast 150 133 115 100 87 83 N/A 140 140 140 3.9 9.4" mast N/A 58.5 /A /A	7.5// 7.5// Stan 5.5" 13 13 19 7 N/ N/ N/ N/ N/ N/ N/ N/ N/ N/ 11 11 11 13 : 5.5" 60.6 62.6	6.5 † 6.5 † 10 mast 30 10 55 8 7 7 7 8 7 7 7 7 8 7 7 7 7 7 8 7 7 7 7 7 8 7	N, 9,4" 9,4" 15 13 11 10 N, N, 14 14 2.9 7,9 x 2. 9,4" N/A 62.6 /A /A auto	/A /A 50 50 33 15 00 /A /A /A 40 40 40 40 2 mast N/A 58.5 58.5	7.5/6.5 [†] 7.5/6.5 [†] Standard 9.4" mast 150 133 115 100 87 83 80 140 140 5 × 9.4" N 55 61 6	8.0/6.5 † 8.0/6.5 † 0ptional 9.4" mast 175 150 130 115 100 95 160 †† 160 †† 3.9 mast 1/A 8.5 0.5	7.5/6.5 † 7.5/6.5 † Standard 9.4" mast 150 135 120 103 95 N/A N/A 140 140 5 ; 9.4"	8.0/6.5 ⁺ 8.0/6.5 ⁺ 9.4" mast 175 150 130 115 95 N/A N/A 160 ⁺⁺ 160 ⁺⁺ 160 ⁺⁺ x 2.9
WHEELS & TIRES	29 31 31a 32 33 34 35 36 37 38 39 41 41 42 43 44	Rearward (chassis first) - empty/RL Forward (forks first) - empty/RL Lift speed4 Empty 1,000 lb 2,000 lb 3,000 lb 3,000 lb 3,000 lb 4,000 lb 4,000 lb 4,000 lb 2,000 lb 3,000 lb 3,000 lb 3,000 lb 4,000 lb Lowering speeds, empty4 Lowering speeds, RL4 Size - front load wheels, standard Size, standard - drive tire/dual casters Wheelbase - 14.25" battery compartment Wheelbase - 16.25" battery compartment Wheelbase - 18.25" battery compartment Wheelbase - 21.25" battery compartment Brakes, service/parking (method of control) Brakes, service/parking (method of control) Brakes, service/parking (method of operation) Battery type	mph ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min in in in in	7.5/6.5 [†] 7.5/6.5 [†] Standard 5.5" mast 130 95 78 75 N/A N/A 110 110 5.5" mast 55.6 57.6 N	N/A N/A N/A 9.4" mast N/A N/A N/A N/A N/A N/A N/A N/A 9.4" mast N/A A	7.5/6.5 [†] 7.5/6.5 [†] Standard 5.5" mast 1300 95 78 75 70 N/A 110 110 5.5" mast 55.6 57.6 N/	N/A N/A Optional 9.4" mast 150 133 115 100 87 83 N/A 140 140 140 3.9 9.4" mast N/A 58.5 /A /A	7.5// 7.5// Stan 5.5" 13 13 19 7 N/ N/ N/ N/ N/ N/ N/ N/ N/ N/ 11 11 11 13 : 5.5" 60.6 62.6	6.5 † 6.5 † 10 mast 30 10 55 8 7 7 7 8 7 7 7 7 8 7 7 7 7 7 8 7 7 7 7 7 8 7	N, 0pti 9.4" 15 13 11 10 N, 14 14 2.9 7.9 x 2. 9.4" N/A 62.6 /A (A auto / (electric ure Lead ⁶	/A /A 50 50 33 15 00 /A /A /A 40 40 40 40 2 mast N/A 58.5 58.5	7.5/6.5 [†] 7.5/6.5 [†] Standard 9.4" mast 150 133 115 100 87 83 80 140 140 5 × 9.4" N 55 61 6	8.0/6.5 † 8.0/6.5 † 0ptional 9.4" mast 175 150 130 115 100 95 160 †† 160 †† 3.9 mast 1/A 8.5 0.5	7.5/6.5 † 7.5/6.5 † Standard 9.4" mast 150 135 120 103 95 N/A N/A 140 140 5 ; 9.4"	8.0/6.5 ⁺ 8.0/6.5 ⁺ 9.4" mast 175 150 130 115 95 N/A N/A 160 ⁺⁺ 160 ⁺⁺ 160 ⁺⁺ x 2.9
WHEELS & TIRES	29 31 31a 32 33 34 35 36 37 38 39 41 42 43 44 45	Rearward (chassis first) - empty/RL Forward (forks first) - empty/RL Eift speed ⁴ Empty 1,000 lb 2,000 lb 3,000 lb 3,500 lb 4,000 lb 4,500 lb Lowering speeds, empty ⁴ Lowering speeds, empty ⁴ Lowering speeds, RL ⁴ Size - front load wheels, standard Size, standard - drive tire/dual casters Wheelbase - 14.25" battery compartment Wheelbase - 18.25" battery compartment Wheelbase - 18.25" battery compartment Brakes, service/parking (method of control) Brakes, service/parking (60 minute rating) Hoist motor rating (5 minute rating)	mph ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min ft/min in in in in	7.5/6.5 [†] 7.5/6.5 [†] Standard 5.5" mast 130 95 78 75 N/A N/A 110 110 5.5" mast 55.6 57.6 N	N/A N/A N/A 9.4" mast N/A N/A N/A N/A N/A N/A N/A N/A 9.4" mast N/A A	7.5/6.5 [†] 7.5/6.5 [†] Standard 5.5" mast 1300 95 78 75 70 N/A 110 110 5.5" mast 55.6 57.6 N/	N/A N/A Optional 9.4" mast 150 133 115 100 87 83 N/A 140 140 140 3.9 9.4" mast N/A 58.5 /A /A	7.5// 7.5// Stan 5.5" 13 13 19 7 N/ N/ N/ N/ N/ N/ N/ N/ N/ N/ 11 11 11 13 : 5.5" 60.6 62.6	6.5 † 6.5 † 6.5 † 6.3 † 6.3 † 6.3 † 7.3 10 7.5 7.5 10 7.6 × 7.5 10 7.5	N, 0pti 9.4" 15 13 11 10 N, 14 14 2.9 7.9 x 2. 9.4" N/A 62.6 /A /A auto / (electric ure Lead ⁶ 6.6)	/A /A 50 50 33 15 00 /A /A /A 40 40 40 40 2 mast N/A 58.5 58.5	7.5/6.5 [†] 7.5/6.5 [†] Standard 9.4" mast 150 133 115 100 87 83 80 140 140 5 × 9.4" N 55 61 6	8.0/6.5 † 8.0/6.5 † 0ptional 9.4" mast 175 150 130 115 100 95 160 †† 160 †† 3.9 mast 1/A 8.5 0.5	7.5/6.5 † 7.5/6.5 † Standard 9.4" mast 150 135 120 103 95 N/A N/A 140 140 5 ; 9.4"	8.0/6.5 ⁺ 8.0/6.5 ⁺ 9.4" mast 175 150 130 115 95 N/A N/A 160 ⁺⁺ 160 ⁺⁺ 160 ⁺⁺ x 2.9
WHEELS & TIRES	29 31 31a 32 33 34 35 36 37 38 39 41 42 43 44 45 46	Rearward (chassis first) - empty/RL Forward (forks first) - empty/RL Eift speed ⁴ Empty 1,000 lb 2,000 lb 3,000 lb 3,500 lb 4,000 lb 4,500 lb Lowering speeds, empty ⁴ Lowering speeds, RL ⁴ Size - front load wheels, standard Size, standard - drive tire/dual casters Wheelbase - 14.25" battery compartment Wheelbase - 16.25" battery compartment Wheelbase - 18.25" battery compartment Wheelbase - 21.25" battery compartment Brakes, service/parking (method of control) Brakes, service/parking (method of operation) Battery type Traction motor rating (60 minute rating)	<pre>mph mph ft/min in i</pre>	7.5/6.5 [†] 7.5/6.5 [†] Standard 5.5" mast 130 95 78 75 N/A N/A 110 110 5.5" mast 55.6 57.6 N	N/A N/A N/A 9.4" mast N/A N/A N/A N/A N/A N/A N/A N/A 9.4" mast N/A A	7.5/6.5 [†] 7.5/6.5 [†] Standard 5.5" mast 1300 95 78 75 70 N/A 110 110 5.5" mast 55.6 57.6 N/	N/A N/A Optional 9.4" mast 150 133 115 100 87 83 N/A 140 140 140 3.9 9.4" mast N/A 58.5 /A /A	7.5// 7.5// Stan 5.5" 13 13 19 7 N/ N/ N/ N/ N/ N/ N/ N/ N/ N/ 11 11 11 13 : 5.5" 60.6 62.6	6.5 † 6.5 † 6.5 † 7 7 8 7 7 7 7 8 7 7 7 7 7 7 7 7 7 7 7	N, N, 9,4" 15 13 11 10 N, N, 14 14 2.9 7.9 x 2. 9,4" N/A 62.6 /A /A auto / (electriu are Lead ⁶ 6.6) 21.8)	/A /A 50 50 33 15 00 /A /A /A 40 40 40 40 2 mast N/A 58.5 58.5	7.5/6.5 [†] 7.5/6.5 [†] Standard 9.4" mast 150 133 115 100 87 83 80 140 140 5 × 9.4" N 55 61 6	8.0/6.5 † 8.0/6.5 † 0ptional 9.4" mast 175 150 130 115 100 95 160 †† 160 †† 3.9 mast 1/A 8.5 0.5	7.5/6.5 † 7.5/6.5 † Standard 9.4" mast 150 135 120 103 95 N/A N/A 140 140 5 ; 9.4"	8.0/6.5 ⁺ 8.0/6.5 ⁺ 9.4" mast 175 150 130 115 95 N/A N/A 160 ⁺⁺ 160 ⁺⁺ 160 ⁺⁺ x 2.9
	29 31 31a 32 33 34 35 36 37 38 39 41 42 43 44 45 46 47	Rearward (chassis first) - empty/RL Forward (forks first) - empty/RL Eift speed ⁴ Empty 1,000 lb 2,000 lb 3,000 lb 3,500 lb 4,000 lb 4,000 lb 4,500 lb Lowering speeds, empty ⁴ Lowering speeds, empty ⁴ Lowering speeds, RL ⁴ Size - front load wheels, standard Size, standard - drive tire/dual casters Wheelbase - 14.25" battery compartment Wheelbase - 18.25" battery compartment Wheelbase - 18.25" battery compartment Wheelbase - 21.25" battery compartment Brakes, service/parking (method of control) Brakes, service/parking (method of operation) Battery type Traction motor rating (60 minute rating) Hoist motor control method	<pre>mph mph ft/min in i</pre>	7.5/6.5 [†] 7.5/6.5 [†] Standard 5.5" mast 130 95 78 75 N/A N/A 110 110 5.5" mast 55.6 57.6 N	N/A N/A N/A 9.4" mast N/A N/A N/A N/A N/A N/A N/A N/A 9.4" mast N/A A	7.5/6.5 [†] 7.5/6.5 [†] Standard 5.5" mast 1300 95 78 75 70 N/A 110 110 5.5" mast 55.6 57.6 N/	N/A N/A Optional 9.4" mast 150 133 115 100 87 83 N/A 140 140 140 3.9 9.4" mast N/A 58.5 /A /A	7.5// 7.5// Stan 5.5" 13 13 19 7 N/ N/ N/ N/ N/ N/ N/ N/ N/ N/ 11 11 11 13 : 5.5" 60.6 62.6	6.5 † 6.5 † 6.5 † 7 7 8 30 10 15 7 8 7 7 7 7 8 7 7 7 7 7 8 7 7 7 7 7 7	N, N, N, Opti 9.4" 15 13 11 10 N, N, 14 14 2.9 7.9 x 2. 9.4" N/A 62.6 /A /A auto / (electriu rre Lead ⁶ 6.6) 21.8) istor	/A /A 50 50 33 15 00 /A /A /A 40 40 40 40 2 mast N/A 58.5 58.5	7.5/6.5 [†] 7.5/6.5 [†] Standard 9.4" mast 150 133 115 100 87 83 80 140 140 5 × 9.4" N 55 61 6	8.0/6.5 † 8.0/6.5 † 0ptional 9.4" mast 175 150 130 115 100 95 160 †† 160 †† 3.9 mast 1/A 8.5 0.5	7.5/6.5 † 7.5/6.5 † Standard 9.4" mast 150 135 120 103 95 N/A N/A 140 140 5 ; 9.4"	8.0/6.5 ⁺ 8.0/6.5 ⁺ 9.4" mast 175 150 130 115 95 N/A N/A 160 ⁺⁺ 160 ⁺⁺ 160 ⁺⁺ x 2.9
WHEELS & TIRES	29 31 31a 32 33 34 35 36 37 38 39 41 42 43 44 45 46 47 48	Rearward (chassis first) - empty/RL Forward (forks first) - empty/RL Eift speed ⁴ Empty 1,000 lb 2,000 lb 3,000 lb 3,500 lb 4,000 lb 4,500 lb Lowering speeds, empty ⁴ Lowering speeds, empty ⁴ Lowering speeds, RL ⁴ Size - front load wheels, standard Size, standard - drive tire/dual casters Wheelbase - 14.25" battery compartment Wheelbase - 16.25" battery compartment Wheelbase - 18.25" battery compartment Wheelbase - 21.25" battery compartment Brakes, service/parking (method of control) Brakes, service/parking (method of operation) Battery type Traction motor rating (60 minute rating) Hoist motor control method Hoist motor control method	<pre>mph mph ft/min in i</pre>	7.5/6.5 [†] 7.5/6.5 [†] Standard 5.5" mast 130 95 78 75 N/A N/A 110 110 5.5" mast 55.6 57.6 N	N/A N/A N/A 9.4" mast N/A N/A N/A N/A N/A N/A N/A N/A 9.4" mast N/A A	7.5/6.5 [†] 7.5/6.5 [†] Standard 5.5" mast 1300 95 78 75 70 N/A 110 110 5.5" mast 55.6 57.6 N/	N/A N/A Optional 9.4" mast 150 133 115 100 87 83 N/A 140 140 140 3.9 9.4" mast N/A 58.5 /A /A	7.5// 7.5// Stan 5.5" 13 11 9 7 N, N, N, 11 13 13 5.5" 60.6 62.6 62.6	6.5 † 6.5 † 6.5 † 6.5 † 7 30 10 55 7 8 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	N, N, N, Opti 9.4" 15 13 11 10 N, N, 14 14 2.9 7.9 x 2. 9.4" N/A 62.6 /A /A auto / (electriu rre Lead ⁶ 6.6) 21.8) istor	/A /A 50 50 33 15 00 /A /A /A 40 40 40 40 2 mast N/A 58.5 58.5	7.5/6.5 [†] 7.5/6.5 [†] Standard 9.4" mast 150 133 115 100 87 83 80 140 140 5 × 9.4" N 55 61 6	8.0/6.5 † 8.0/6.5 † 0ptional 9.4" mast 175 150 130 115 100 95 160 †† 160 †† 3.9 mast 1/A 8.5 0.5	7.5/6.5 † 7.5/6.5 † Standard 9.4" mast 150 135 120 103 95 N/A N/A 140 140 5 ; 9.4"	8.0/6.5 ⁺ 8.0/6.5 ⁺ 9.4" mast 175 150 130 115 95 N/A N/A 160 ⁺⁺ 160 ⁺⁺ 160 ⁺⁺ x 2.9

¹ Short or long wheelbase is for double reach only. LWB for double reach masts 332" and below

² Static with rated load and max. wt. battery

³ Includes integral sideshift, subtract 1" for without sideshift

⁴ Lift and lower speeds reduced for UL 'EE
 ⁵ Optional with Hyster Power Cellect[™]

SWB = Short Wheel Base; LWB = Long Wheel Base

⁺ Travel speed will be reduced to 7.5 / 6.5 mph (empty/rated load) with MFHs above 341" in the forks trailing direction. Travel speed will be reduced to 7.0 / 6.0 mph (empty/rated load) with MFHs above 341" in the forks leading direction. Rated load (RL) travel speeds start at 1,500 lb and greater †† High speed lowering and high speed lift are separate options

CERTIFICATION: Hyster lift trucks meet the design and construction requirements of B56.1-1969, per OSHA Section 1910.178(a)(2), and also comply with the B56.1 revision in effect at time of manufacture. NOTE: Performance specifications/ratings are for truck equipped as described under standard equipment in this technical guide. Performance specifications are affected by the condition of the vehicle and how it is equipped, as well as by the nature and condition of the operating area. Specifications are subject to change and the proposed application should be discussed with your authorized Hyster Company Dealer.

MAST DIMENSIONS

N35-40ZR3	8 & N30ZDR	3 MAST DI	MENSIONS (5.	5" STANDARI))				
Overall lowered	Max. fork	Free-lift	Overall height (mast extended)	Overhead guard	Operator	н	ead length (leng	th to face of fork	s)
height	height (TOF)	(TOF)	highest point w/36" LBR	height to top	Clearance	14.25"		14.25" 16	
in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	Single reach	Double reach	Single reach	Double reach
			3-STAGE	FULL FREE-LIF	ſ (FFL) VISTA™ I	MAST			
87 (2,210)	191 (4,851)	48 (1,219)	230 (5,842)	87 (2,212)	74.3 (1,887)	52.16	57.83	54.21	59.88
91 (2,311)	203 (5,156)	52 (1,321)	242 (6,147)	91 (2,314)	78.3 (1,989)	52.16	57.83	54.21	59.88
95 (2,413)	212 (5,385)	56 (1,422)	251 (6,375)	95 (2,416)	82.3 (2,090)	52.16	57.83	54.21	59.88
101 (2,565)	227 (5,766)	62 (1,575)	266 (6,756)	95 (2,416)	82.3 (2,090)	52.16	57.83	54.21	59.88
107 (2,718)	242 (6,147)	68 (1,727)	281 (7,137)	95 (2,416)	82.3 (2,090)	52.16	57.83	54.21	59.88
110 (2,794)	251 (6,375)	71 (1,803)	290 (7,366)	95 (2,416)	82.3 (2,090)	52.16	57.83	54.21	59.88
119 (3,023)	272 (6,909)	80 (2,032)	311 (7,899)	95 (2,416)	82.3 (2,090)	52.16	57.83	54.21	59.88
125 (3,175)	287 (7,290)	86 (2,184)	325 (8,255)	95 (2,416)	82.3 (2,090)	52.16	57.83	54.21	59.88
131 (3,327)	302 (7,671)	92 (2,337)	340 (8,636)	95 (2,416)	82.3 (2,090)	52.16	57.83	54.21	59.88

N40-45ZR3	8 & N30-35Z	DR3 MAST	DIMENSIONS	(9.4" PREMI	UM)								
Overall	Max. fork	Free-lift	Overall height (mast extended)	Overhead quard	Operator		Head l	l length (length to face of forks)					
lowered ht.	height (TOF)	(TOF)	highest point w/36" LBR	height to top	clearance	16.	25"	18.	18.25"		18.25"		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 FR	EE-LIFT (FFL) V	STA™ MAST	-							
95 (2,413)	210 (5,334)	59 (1,509)	246 (6,248)	95 (2,416)	82.3 (2,090)	57.20	62.91	59.17	64.92	62.12	67.91		
107 (2,718)	241 (6,121)	71 (1,814)	277 (7,036)	95 (2,416)	82.3 (2,090)	57.20	62.91	59.17	64.92	62.12	67.91		
110 (2,794)	250 (6,350)	74 (1,890)	286 (7,264)	95 (2,416)	82.3 (2,090)	57.20	62.91	59.17	64.92	62.12	67.91		
119 (3,023)	272 (6,909)	83 (2,118)	308 (7,823)	95 (2,416)	82.3 (2,090)	57.20	62.91	59.17	64.92	62.12	67.91		
125 (3,175)	287 (7,290)	89 (2,271)	323 (8,204)	95 (2,416)	82.3 (2,090)	57.20	62.91	59.17	64.92	62.12	67.91		
131 (3,327)	302 (7,671)	95 (2,423)	338 (8,585)	95 (2,416)	82.3 (2,090)	57.20	62.91	59.17	64.92	62.12	67.91		
140 (3,556)	321 (8,153)	104 (2,652)	357 (9,068)	95 (2,416)	82.3 (2,090)	57.20	62.91	59.17	64.92	62.12	67.91		
143 (3,632)	332 (8,433)	107 (2,728)	368 (9,347)	95 (2,416)	82.3 (2,090)	57.20	62.91	59.17	64.92	62.12	67.91		
149 (3,785)	341 (8,661)	113 (2,880)	377 (9,576)	95 (2,416)	82.3 (2,090)	57.20	62.91	59.17	64.92	62.12	67.91		

N40-45ZF	N40-45ZR3 & N30-35ZDR3 MAST DIMENSIONS (9.4" XL PREMIUM)*												
			Overall height (mast	headrave head					to face of fo	iorks)			
Overall lowered ht.	Max. fork height (TOF)	Free-lift (TOF)	extended) highest point w/36" LBR	guard height to top	Operator 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-STA	GE FULL FRE	E-LIFT (FFL) \	/ISTA™ MA	ST						
157 (3,988)	368 (9,347)	121 (3,084)	404 (10,262)	95 (2,416)	82.3 (2,090)	57.20	62.91	59.17	64.92	62.12	67.91		
170 (4,318)	401 (10,185)	134 (3,414)	437 (11,100)	95 (2,416)	82.3 (2,090)	-	-	59.17	64.92	62.12	67.91		
179 (4,547)	422 (10,719)	143 (3,642)	458 (11,633)	95 (2,416)	82.3 (2,090)	-	-	59.17	64.92	62.12	67.91		
188 (4,775)	444 (11,278)	152 (3,871)	480 (12,192)	95 (2,416)	82.3 (2,090)	-	-	59.17	64.92	62.12	67.91		

* N40ZR3 and N30ZDR3 only available in 16.25" battery compartment N45ZR3 and N35ZDR3 available in 16.25", 18.25" and 21.25" battery compartments

SPECIFICATIONS

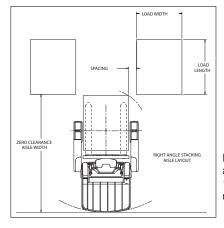
N	N35/40ZR3 (5.5" MAST)											
14.25" battery compartment and 42" ID												
3-stage - 4" between loads												
	Pallet width (inches)											
		36"	36" 40" 44"									
Pallet	36"	85	85	85	85							
length (inches)	40"	87	87	86	86							
	44"	92	91	91	90							
	48"	96	96	95	95							

Subtract 1" for without sideshift

Add 2" for 16.25" battery compartment

	N30ZE)R3 (5	.5" MA	AST)						
14.2	25" Batte	ry compa	rtment a	nd 42" I	D					
3-stage - 6" between loads										
	Pallet width (inches)									
		36"	44"	48"						
Pallet	36"	87	86	86	86					
length (inches)	40"	91	90	90	89					
	44"	96	95	95	94					
	48"	100	100	99	99					

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



	N40ZR3 (9.4" MAST)											
16.2	16.25" battery compartment and 42" ID											
3-stage - 4" between loads												
	Pallet width (inches)											
		36" 40" 44"										
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

	N30ZDR3 (9.4" MAST)											
16.2	nd 42" I	D										
	3-stag	3-stage - 6" between loads										
	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

N45ZR3 (9.4" MAST)

16.2	25" batte	ry compa	irtment a	nd 42" II)							
	3-stag	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							
	44"	97	96	96	96							
	48"	101	101	100	100							

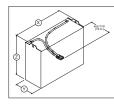
Subtract 1" for without sideshift Add 2" for 18.25" battery compartment Add 5" for 21.25" battery compartment

	N35ZE)R3 (9	.4" MA	AST)							
16.2	25" Batte	ry compa	irtment a	nd 42" II	D						
	3-stag	e - 6" be	tween lo	ads							
	Pallet width (inches)										
		36"	36" 40" 44"								
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 Add 5" for 21.25" battery compartment

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

BATTE	BATTERY AND COMPARTMENT SPECIFICATIONS																					
Battery		n	n	R3		ß	Maxi	mum	Bat	tery co	mparti	ment d	imensi	ons		Bat	tery d	mensi	ons		Min.	Max.
compt	Battery voltage	N35ZR3	N40ZR3	N30ZDR3	N45ZR3	N35ZDR3	6 hr	rate	"Х"	Max.	"Y"	Max.	"Z"	Max.	"Х"	Max.	"Y"	Max.	"Z"	Max.	batt. wt.	batt. wt.
size	J	Z	Z	N3	Z	N3	ah	kwh	in	(mm)	in	(mm)	in	(mm)	in	(mm)	in	(mm)	in	(mm)	lb (kg)	lb (kg)
14.25"	36	х	Х	x	N/A	N/A	775	27.2	39.0	990	14.25	362	31.5	800	38.8	985	14	356	31	788	1600 (726)	2100 (953)
16.25"	36	Х	Х	х	х	Х	930	32.6	39.0	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	39.0	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	39.0	990	21.25	540	31.5	800	38.8	985	21	533	31	788	2500 (1134)	3100 (1406)



Battery connector: 36v - gray; position "B", lead length 16"

Manufacturers standard cable size not to exceed 4/0 AWG

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

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

FEATURES AND OPTIONS

PERFORMANCE	STD	OPT
36-volt battery (includes 350 amp gray battery connector)	х	
AC traction, lift/lower and steering	х	
Transistor controller with regenerative braking	х	
Electric power steering	х	
4 independent fully programmable performance modes - programmable traction speed and acceleration	x	
Load transport position		х
Fork camera (requires 9.4" mast)		х
Laser level line		х
High speed lift (N40ZR3, N30ZDR3)		х
High speed lift/travel (N45ZR3, N35ZDR3)		х
High speed lower (requires high speed lift/travel)		Х
Shelf height selector		х
Return to set tilt		Х
Return to center sideshifting		Х
Load weight display		Х
Fork height display		X
Speed sensitive steering DRIVE	STD	X
5"x 3.9" poly articulating tandem load wheels - high load compound	510	OPT
(std on N35-45ZR3)	х	
5"x 2.9" poly articulating tandem load wheels - high load compound (std on N30-35ZDR3)	х	
Dual articulating polyurethane caster wheels	Х	
XL-AC™ drive tire – 13.5" x 5.5"	х	
Steered caster		Х
Various sizes of load wheels		Х
Various drive tire compounds		Х
Tapered load wheel boxes Bolt-on load wheel boxes		x
LIFT	STD	^ OPT
91"/203"/52"–(5.5") 3-stage FFL mast (N35-40ZR3, N30ZDR3)	X	
95"/210"/59"- (9.4") 3-stage FFL mast (N45ZR3, N35ZDR3)	x	
Tilting carriage (3° fwd, 4° back)	X	
Single reach mast with 33.5" wide Class II with integral sideshift (hook type carriage) (std on N35-452R3)	x	
Double reach mast with 33.5" wide Class II with integral sideshift (hook type carriage) (std on N30-352DR3)	x	
36" high load backrest extension	x	
Lift limit	^	х
48" high load backrest extension		x
Single reach mast without integral sideshift for standard 33.5" wide		x
carriage		х
carriage		
		х
carriage (9.4") 3-stage full free lift mast (N40ZR3, N30ZDR3)	STD	x OPT
carriage (9.4") 3-stage full free lift mast (N40ZR3, N30ZDR3) Various mast heights for 5.5" and 9.4" masts	STD x	
carriage (9.4") 3-stage full free lift mast (N40ZR3, N30ZDR3) Various mast heights for 5.5" and 9.4" masts HANDLING Forks: 1.8" x 3.9" (45 mm x 100 mm) 42"(1067 mm) – Class II, hook type		
carriage (9.4") 3-stage full free lift mast (N40ZR3, N30ZDR3) Various mast heights for 5.5" and 9.4" masts HANDLING Forks: 1.8" x 3.9" (45 mm x 100 mm) 42"(1067 mm) – Class II, hook type (std on N40-45ZR3) Forks: 1.6" x 3.9" (40 mm x 100 mm) 42" (1067 mm) – Class II, hook type	x	
carriage (9.4") 3-stage full free lift mast (N40ZR3, N30ZDR3) Various mast heights for 5.5" and 9.4" masts HANDLING Forks: 1.8" x 3.9" (45 mm x 100 mm) 42"(1067 mm) – Class II, hook type (std on N40-45ZR3) Forks: 1.6" x 3.9" (40 mm x 100 mm) 42" (1067 mm) – Class II, hook type (std on N30-35ZDR3 and N35ZR3)	x x	
carriage (9.4") 3-stage full free lift mast (N40ZR3, N30ZDR3) Various mast heights for 5.5" and 9.4" masts HANDLING Forks: 1.8" x 3.9" (45 mm x 100 mm) 42"(1067 mm) – Class II, hook type (std on N40-45ZR3) Forks: 1.6" x 3.9" (40 mm x 100 mm) 42" (1067 mm) – Class II, hook type (std on N30-35ZDR3 and N35ZR3) Fully proportional lift/lower control	x x x	
carriage (9.4") 3-stage full free lift mast (N40ZR3, N30ZDR3) Various mast heights for 5.5" and 9.4" masts HANDLING Forks: 1.8" x 3.9" (45 mm x 100 mm) 42"(1067 mm) – Class II, hook type (std on N40-45ZR3) Forks: 1.6" x 3.9" (40 mm x 100 mm) 42" (1067 mm) – Class II, hook type (std on N30-35ZDR3 and N35ZR3) Fully proportional lift/lower control Control handle with simultaneous hydraulic functions	x x x x	
carriage (9.4") 3-stage full free lift mast (N40ZR3, N30ZDR3) Various mast heights for 5.5" and 9.4" masts HANDLING Forks: 1.8" x 3.9" (45 mm x 100 mm) 42"(1067 mm) – Class II, hook type (std on N40-45ZR3) Forks: 1.6" x 3.9" (40 mm x 100 mm) 42" (1067 mm) – Class II, hook type (std on N30-35ZDR3 and N35ZR3) Fully proportional lift/lower control Control handle with simultaneous hydraulic functions Slack chain detection	x x x x	OPT
carriage (9.4") 3-stage full free lift mast (N40ZR3, N30ZDR3) Various mast heights for 5.5" and 9.4" masts HANDLING Forks: 1.8" x 3.9" (45 mm x 100 mm) 42"(1067 mm) – Class II, hook type (std on N40-45ZR3) Forks: 1.6" x 3.9" (40 mm x 100 mm) 42" (1067 mm) – Class II, hook type (std on N30-35ZDR3 and N35ZR3) Fully proportional lift/lower control Control handle with simultaneous hydraulic functions Slack chain detection Reduced travel speed with carriage extended	x x x x	OPT
carriage (9.4") 3-stage full free lift mast (N40ZR3, N30ZDR3) Various mast heights for 5.5" and 9.4" masts HANDLING Forks: 1.8" x 3.9" (45 mm x 100 mm) 42"(1067 mm) – Class II, hook type (std on N40-45ZR3) Forks: 1.6" x 3.9" (40 mm x 100 mm) 42" (1067 mm) – Class II, hook type (std on N30-35ZDR3 and N35ZR3) Fully proportional lift/lower control Control handle with simultaneous hydraulic functions Slack chain detection Reduced travel speed with carriage extended Various fork lengths	x x x x x	OPT
carriage (9.4") 3-stage full free lift mast (N40ZR3, N30ZDR3) Various mast heights for 5.5" and 9.4" masts HANDLING Forks: 1.8" x 3.9" (45 mm x 100 mm) 42"(1067 mm) – Class II, hook type (std on N40-45ZR3) Forks: 1.6" x 3.9" (40 mm x 100 mm) 42" (1067 mm) – Class II, hook type (std on N30-35ZDR3 and N35ZR3) Fully proportional lift/lower control Control handle with simultaneous hydraulic functions Slack chain detection Reduced travel speed with carriage extended Various fork lengths ERGONOMICS	X X X X X STD	OPT

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

¹ 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". 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".

² Doors are intended to protect the operator from objects that may enter the operator's compartment but they may also slow the operator's egress in emergency situations. A review of the forklift's intended environment should be conducted before selecting a door as optional equipment. Available only through Hyster[®] SPED Engineering.





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