

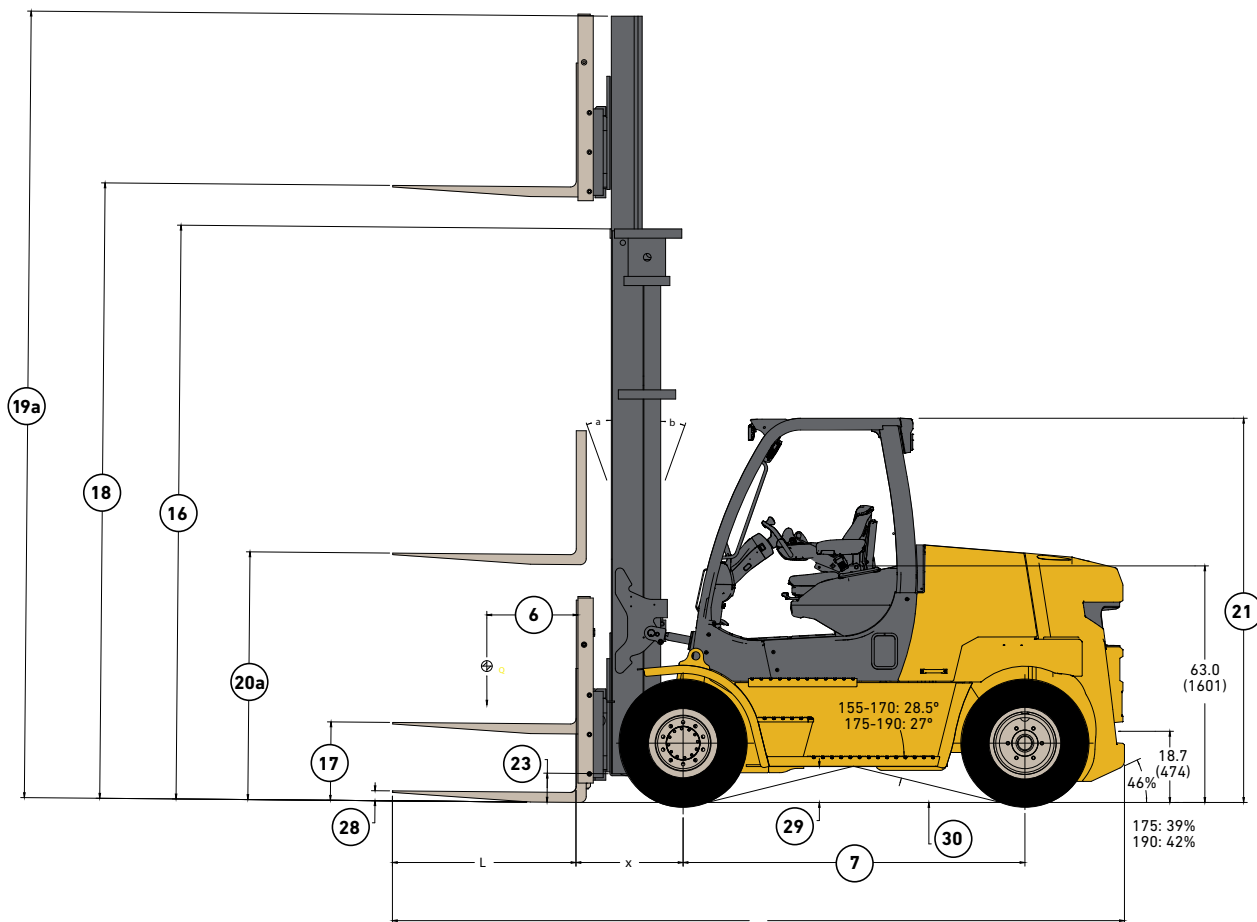
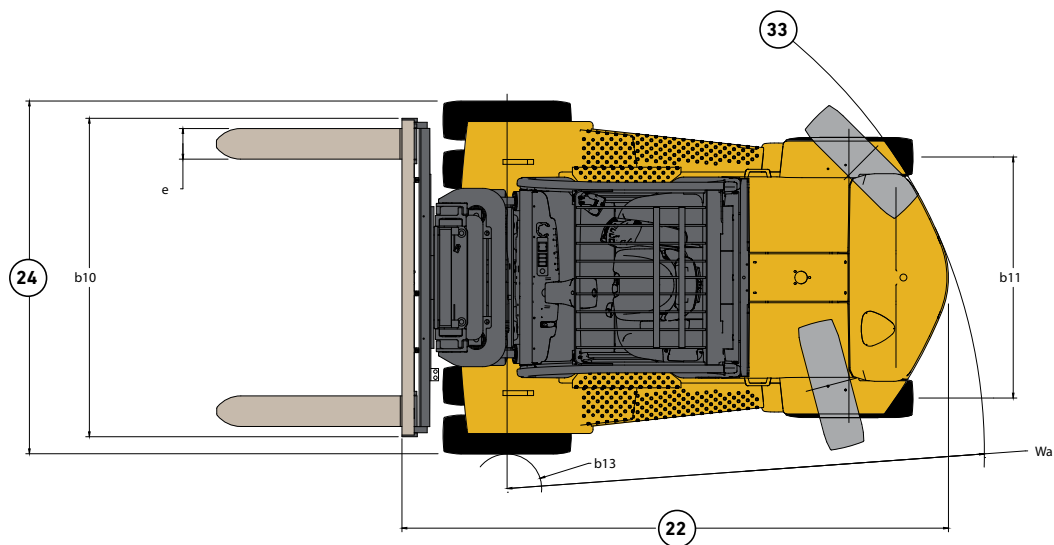


ERP 155-190VNL

SPEC SHEET

Pneumatic tire integrated
lithium-ion counterbalanced forklift

15,500-19,000 lbs.



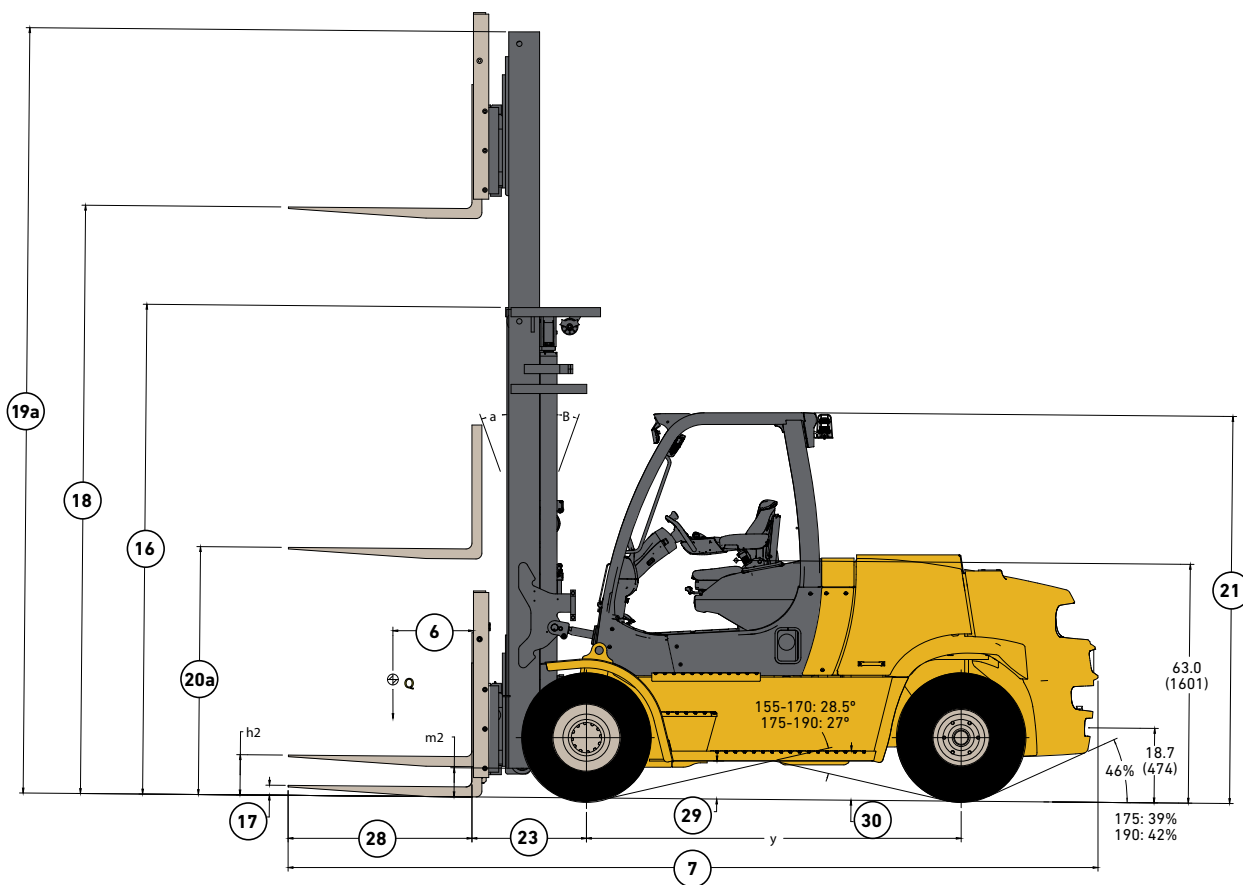
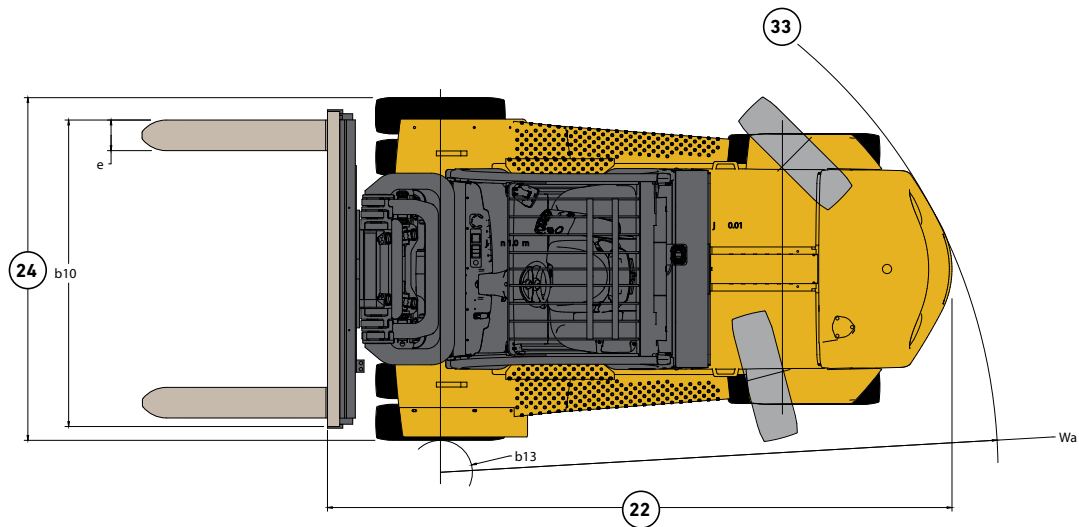
Circled truck dimensions correspond to the line numbers in the General Specifications chart. Dimensions are listed in inches (millimeters).

GENERAL SPECIFICATIONS - ERP155-170VNL

GENERAL	1	Manufacturer			Yale	Yale	
	2	Model			ERP155VNL	ERP170VNL	
	3	Power type			Electric	Electric	
	4	Operator type			Seated rider	Seated rider	
	5	Rated capacity		lb. (kg)	15,500 (7,000)	17,000 (8,000)	
	6	Load center - distance		in. (mm)	24 (600)	24 (600)	
	7	Wheelbase		in. (mm)	88 (2235)	88 (2235)	
WT.	8	Truck weight	RL/NL	lb. (kg)	39470 (17903) / 24035 (10902)	44048 (19980) / 26410 (11979)	
	9	Axle loading	Static front/rear	lb. (kg)	33495 (15193) / 5975 (2710)	37891 (17187) / 6158 (2793)	
	10	Axle loading	Static front/rear	lb. (kg)	9714 ((4406) / 14322 (6496)	10677 (4843) / 15733 (7136)	
TIRES & WHEELS	11	Tire type			Pneumatic	Pneumatic	
	12	Tire size		Front/rear	8.25x15 14PR / 8.25x15 14PR	8.25x15 14PR / 8.25x15 14PR	
	13	Wheels - number	X = driven	Front/rear	4X/2	4X/2	
	14	Track width		Front/rear	in. (mm)	72.7 (1847) / 60.5 (1536)	72.7 (1847) / 60.5 (1536)
DIMENSIONS	15	Mast tilt	Forward/backward	degrees	5/10 ²	5/9 ²	
	16	Mast - lowered height	Std mast	in. (mm)	96.7 (2456)	106.8 (2712)	
	17	Std Free Lift Height (TOF)	Rounded down	in. (mm)	3.9 (100)	0 (0)	
	18	Lift Height, w/LBR (TOF)	Rounded down	in. (mm)	118 (3000)	121 (3065)	
	19a	Mast - extended height	Std mast w/o LBR (rounded up)	in. (mm)	159.1 (4040)	166.9 (4239)	
	19b		Std mast w/ LBR (rounded up)	in. (mm)	171.3 (4350)	171.2 (4337)	
	20a	Optional full free lift w/ LBR (TOF)	Rounded down	in. (mm)	43 (1098) ¹	53 (1355) ¹	
	20b	Optional full free lift w/o LBR (TOF)	Rounded down	in. (mm)	56 (1425) ¹	57.5 (1461) ¹	
	21a	Height, standard overhead guard (high)	Rounded up	in. (mm)	100 (2531)	100 (2531)	
	21b	Height, standard overhead guard (cab)	Rounded up	in. (mm)	101 (2549)	101 (2549)	
	22	Overall length (to face of forks) ³		in. (mm)	137.6 (3495)	140.6 (3570)	
	23	Length, center of wheels to face of forks ³		in. (mm)	24 (609)	24.2 (614)	
	24	Overall width		in. (mm)	82.0 (2082)	82.0 (2082)	
	25	Standard forks	Thickness x width x length	in. (mm)	2.5 x 6.0 x 47 (60 x 150 x 1200)	2.5 x 7.9 x 47 (65 x 200 x 1200)	
	26a	Standard fork spread	Minimum inside dimensions	in. (mm)	6.2 (160)	3 (75)	
	26b	Standard fork spread	Maximum outside dimensions	in. (mm)	73.8 (1876)	82.5 (2100)	
	27	Standard carriage width		in. (mm)	78 (1981)	80 (2030)	
	28	Ground clearance	Under mast	RL	in. (mm)	4.9 (125)	6.8 (175)
	29		Center of wheelbase		in. (mm)	9.7 (246)	9.7 (246)
	30	Step height		in. (mm)	12.6 (321)	12.6 (321)	
31a	Aisle width, right angle stack (pallet w=42", L=48")		in. (mm)	193.2 (4908)	196 (4978)		
31b	Aisle width, right angle stack (add length of load)		in. (mm)	145.2 (3688)	148 (3760)		
32	Equal aisle	90° intersecting aisle (pallet w=42", L=48")	in. (mm)	Need imperial pallet	Need imperial pallet		
33	Turning radius, minimum outside (OTR) ⁴		in. (mm)	121.3 (3080)	123.8 (3145)		
34	Turning radius, minimum inside (ITR) ⁵		in. (mm)	-3.5 (-90)	-3.5 (-90)		
PERFORMANCE	35	Travel speed	RL/NL ⁶	mph (km/h)	14.9 (24) / 14.9 (24)	14.9 (24) / 14.9 (24)	
	36a	Lift speed	Std 2-stg LFL mast	RL/NL	ft/min (m/s)	84.6 (0.43) / 129.9 (0.66)	78.7 (0.40) / 90.5 (0.46)
	36b		Opt 3-stg FFL mast	RL/NL	ft/min (m/s)	78.7 (0.40) / 129.9 (0.66)	76.7 (0.39) / 90.5 (0.46)
	37a	Lowering speed	Std 2-stg LFL mast	RL/NL	ft/min (m/s)	114.1 (0.58) / 104.3 (0.53)	80.7 (0.41) / 72.8 (0.37)
	37b		Opt 3-stg FFL mast	RL/NL	ft/min (m/s)	104.3 (0.53) / 80.7 (0.41)	76.7 (0.39) / 64.9 (0.33)
	38a	Drawbar pull	60 Minute rating ⁶	RL/NL	lb. (kg)	10986 (48871) / 5824 (25907)	10986 (48871) / 6408 (28506)
	38b	Maximum drawbar pull	5 Minute Rating ⁶	RL/NL	lb. (kg)	11138 (49547) / 5824 (25907)	11138 (49547) / 6408 (28506)
	39a	Gradeability	30 Minute Rating ⁶	RL/NL	%	30 / 24	26 / 24
	39b	Maximum gradeability	5 Minute Rating ⁶	RL/NL	%	30 / 24	27 / 24
40	Service Brake	Method of control/operation			Foot / hydraulic	Foot / hydraulic	
41	Park Brake	Method of control/operation			Hand / mechanical	Hand / mechanical	
POWERTRAIN	42	Battery type			Integrated lithium-ion	Integrated lithium-ion	
	43	Battery voltage/capacity ⁷		V/Ahr	350/192	350/192	
	44	Traction motor type			Permanent magnet	Permanent magnet	
	45	Pump motor type			Permanent magnet	Permanent magnet	
	46	Traction motor power	S2 60 Minute rating	hp (kW)	53.6 hp (40kW)	53.6 hp (40kW)	
	47	Pump motor power	S2 60 Minute rating	hp (kW)	80.4 hp (60kW)	80.4 hp (60kW)	
OTHER	48	Auxiliary hydraulic pressure relief for attachments		PSI (Mpa)	2509 (173)	2509 (173)	
	49	Auxiliary hydraulic flow for attachments		gal/min (l/min)	24.4 (92.7)	24.4 (92.7)	
	50	Sound level (with/without cab)		dB(A) LPAZ	68/67	68/67	

1 Measured with lowest offered height 3-stage FFL mast
 2 Back tilt is limited to 6 degrees with some mast options
 3 Measured with standard mast and carriage
 4 Measured with Turn Assist System equipped. OTR without Turn Assist System is ERP155VNL: 129.3 in (3282mm); ERP170VNL: 131.8 in (3347mm)

5 Measured with Turn Assist System equipped. ITR without Turn Assist System is ERP155VNL: 9.1 in (230mm); ERP170VNL: 9.1 in (230mm)
 6 Extended shift OFF (max performance)
 7 Nominal values



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

GENERAL SPECIFICATIONS - ERP175-190VNL

GENERAL	1	Manufacturer			Yale	Yale	
	2	Model			ERP175VNL	ERP190VNL	
	3	Power type			Electric	Electric	
	4	Operator type			Seated rider	Seated rider	
	5	Rated capacity		lb. (kg)	17,500 (8,000)	19,000 (9,000)	
	6	Load center - distance		in. (mm)	36 (900)	24 (600)	
	7	Wheelbase		in. (mm)	96.5 (2450)	96.5 (2450)	
WT.	8	Truck weight	RL/NL	lb. (kg)	44677 (20265) / 27040 (12265)	45245 (20523) / 25407 (11524)	
	9	Axle loading	Static front/rear	lb. (kg)	40627 (18428) / 4048 (1836)	40654 (18440) / 4593 (2083)	
	10	Axle loading	Static front/rear	lb. (kg)	11736 (5323) / 15305 (6942)	10986 (4983) / 14421 (6541)	
TIRES & WHEELS	11	Tire type			Pneumatic	Pneumatic	
	12	Tire size		Front/rear	8.25x15 14PR / 8.25x15 14PR	8.25x15 14PR / 8.25x15 14PR	
	13	Wheels - number	X = driven	Front/rear	4X/2	4X/2	
	14	Track width		Front/rear	in. (mm)	78.9 (2003) / 60.4 (1535)	78.9 (2003) / 60.4 (1535)
DIMENSIONS	15	Mast tilt	Forward/backward	degrees	5/9°	5/9°	
	16	Mast - lowered height	Std mast	in. (mm)	106.8 (2712)	106.8 (2712)	
	17	Std Free Lift Height (TOF)	Rounded down	in. (mm)	0 (0)	0 (0)	
	18	Lift Height, w/LBR (TOF)	Rounded down	in. (mm)	121 (3065)	121 (3065)	
	19a	Mast - extended height	Std mast w/o LBR (rounded up)	in. (mm)	166.9 (4239)	166.9 (4239)	
	19b		Std mast w/ LBR (rounded up)	in. (mm)	171.2 (4337)	171.2 (4337)	
	20a	Optional full free lift w/ LBR (TOF)	Rounded down	in. (mm)	53 (1355) ¹	53 (1355) ¹	
	20b	Optional full free lift w/o LBR (TOF)	Rounded down	in. (mm)	57.5 (1461) ¹	57.5 (1461) ¹	
	21a	Height, standard overhead guard (high)	Rounded up	in. (mm)	100 (2531)	100 (2531)	
	21b	Height, standard overhead guard (cab)	Rounded up	in. (mm)	101 (2549)	101 (2549)	
	22	Overall length (to face of forks) ³		in. (mm)	159 (4038)	156 (3958)	
	23	Length, center of wheels to face of forks ³		in. (mm)	24.2 (614)	24.2 (614)	
	24	Overall width		in. (mm)	88 (2239)	88 (2239)	
	25	Standard forks	Thickness x width x length	in. (mm)	2.5 x 7.9 x 47 (65 x 200 x 1200)	2.5 x 7.9 x 47 (65 x 200 x 1200)	
	26a	Standard fork spread	Minimum inside dimensions	in. (mm)	3 (75)	3 (75)	
	26b	Standard fork spread	Maximum outside dimensions	in. (mm)	82.5 (2100)	82.5 (2100)	
	27	Standard carriage width		in. (mm)	80 (2030)	80 (2030)	
	28	Ground clearance	Under mast	RL	in. (mm)	6.4 (163)	6.4 (163)
	29		Center of wheelbase		in. (mm)	10.0 (253)	10.0 (253)
	30	Step height		in. (mm)	12.6 (321)	12.6 (321)	
	31a	Aisle width, right angle stack (pallet w=42", L=48")		in. (mm)	221 (5613)	218.2 (5542)	
	31b	Aisle width, right angle stack (add length of load)		in. (mm)	173 (4394)	170.2 (4323)	
	32	Equal aisle	90° intersecting aisle (pallet w=42", L=48")	in. (mm)	122.9 (3122)	121.3 (3081)	
33	Turning radius, minimum outside (OTR) ⁴		in. (mm)	149 (3794)	147 (3723)		
34	Turning radius, minimum inside (ITR) ⁵		in. (mm)	14.3 (362)	14.3 (362)		
PERFORMANCE	35	Travel speed	RL/NL ⁶	mph (km/h)	13 (21) / 13 (21)	13 (21) / 13 (21)	
	36a	Lift speed	Std 2-stg LFL mast	RL/NL	ft/min (m/s)	62.9 (0.32) / 80.7 (0.41)	70.8 (0.36) / 90.5 (0.46)
	36b		Opt 3-stg FFL mast	RL/NL	ft/min (m/s)	62.9 (0.32) / 80.7 (0.41)	68.8 (0.35) / 90.5 (0.46)
	37a	Lowering speed	Std 2-stg LFL mast	RL/NL	ft/min (m/s)	74.8 (0.38) / 64.9 (0.33)	64.9 (0.33) / 64.9 (0.33)
	37b		Opt 3-stg FFL mast	RL/NL	ft/min (m/s)	74.8 (0.38) / 64.9 (0.33)	74.8 (0.38) / 64.9 (0.33)
	38a	Drawbar pull	60 Minute rating ⁶	RL/NL	lb. (kg)	11000 (48933) / 7043 (31331)	11000 (48933) / 6593 (29330)
	38b	Maximum drawbar pull	5 Minute Rating ⁶	RL/NL	lb. (kg)	11112 (49430) / 7043 (31331)	(49430) / 6593 (29330)
	39a	Gradeability	30 Minute Rating ⁶	RL/NL	%	26 / 26	26 / 26
	39b	Maximum gradeability	5 Minute Rating ⁶	RL/NL	%	26 / 26	26 / 26
	40	Service Brake	Method of control/operation			Foot / hydraulic	Foot / hydraulic
41	Park Brake	Method of control/operation			Hand / mechanical	Hand / mechanical	
POWERTRAIN	42	Battery type			Integrated lithium-ion	Integrated lithium-ion	
	43	Battery voltage/capacity ⁷		V/Ahr	350/192	350/192	
	44	Traction motor type			Permanent magnet	Permanent magnet	
	45	Pump motor type			Permanent magnet	Permanent magnet	
	46	Traction motor power	S2 60 Minute rating	hp (kW)	53.6 hp (40kW)	53.6 hp (40kW)	
47	Pump motor power	S2 60 Minute rating	hp (kW)	80.4 hp (60kW)	80.4 hp (60kW)		
OTHER	48	Auxiliary hydraulic pressure relief for attachments		PSI (Mpa)	2509 (173)	2509 (173)	
	49	Auxiliary hydraulic flow for attachments		gal/min (l/min)	24.4 (92.7)	24.4 (92.7)	
	50	Sound level (with/without cab)			dB(A) LPAZ	68/67	

1 Measured with lowest offered height 3 Stage FFL Mast
 2 Back tilt is limited to 6 degrees with some mast options
 3 Measured with standard mast and carriage
 4 Measured with Turn Assist System equipped. OTR without Turn Assist System is ERP155VNL: 129.3 in (3282mm); ERP170VNL: 131.8 in (3347mm)

5 Measured with Turn Assist System equipped. ITR without Turn Assist System is ERP155VNL: 9.1 in (230mm); ERP170VNL: 9.1 in (230mm)
 6 Extended Shift OFF (Max Performance)
 7 Nominal values

STANDARD LIFT SPECIFICATIONS - ERP155VNL

Maximum fork height (TOF)	Overall lowered height	Overall extended highest w/ load backrest	Overall extended highest w/o load backrest	Free-lift (TOF) w/ load backrest	Free-lift (TOF) w/o load backrest
in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)
2-STAGE LFL MAST					
118 (3000)	100 (2540)	172 (4354)	166 (4195)	6 (160)	6 (160)
133 (3400)	108 (2740)	188 (4754)	181 (4595)	6 (160)	6 (160)
173 (4400)	128 (3240)	227 (5754)	221 (5595)	6 (160)	6 (160)
212 (5400)	148 (3740)	266 (6754)	260 (6595)	6 (160)	6 (160)
236 (6000)	164 (4165)	292 (7417)	277 (7040)	6 (160)	6 (160)
3-STAGE LFL MAST					
185 (4700)	102 (2570)	239 (6054)	230 (5830)	47 (1216)	56 (1440)
220 (5600)	113 (2870)	274 (6954)	265 (6730)	59 (1516)	68 (1740)
244 (6200)	123 (3120)	298 (7554)	289 (7330)	69 (1766)	78 (1990)

STANDARD LIFT SPECIFICATIONS - ERP170VNL, ERP175VNL & ERP190VNL

Maximum fork height (TOF)	Overall lowered height	Overall extended highest w/ load backrest	Overall extended highest w/o load backrest	Free-lift (TOF) w/ load backrest	Free-lift (TOF) w/o load backrest
in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)
2-STAGE LFL MAST					
121 (3065)	107 (2715)	171 (4347)	167 (4239)	0 (0)	0 (0)
140 (3565)	117 (2965)	191 (4847)	187 (4739)	0 (0)	0 (0)
179 (4565)	137 (3465)	230.2 (5847)	226 (5739)	0 (0)	0 (0)
219 (5565)	156 (3965)	267 (6847)	265 (6739)	0 (0)	0 (0)
238 (6065)	166 (4215)	289 (7347)	285 (7239)	0 (0)	0 (0)
3-STAGE LFL MAST					
181 (4615)	107 (2705)	232 (5897)	228 (5791)	56 (1420)	60 (1526)
217 (5515)	118 (3005)	268 (6797)	263 (6691)	68 (1720)	72 (1826)
234 (5965)	125 (3115)	285 (7247)	281 (7141)	74 (1870)	78 (1976)
258 (6565)	132 (3355)	309 (7847)	305 (7741)	82 (2070)	86 (2176)

FEATURES LIST

PERFORMANCE	STD	OPT	OPERATION	STD	OPT
350 Volt integrated lithium-ion battery with battery management system	●		3 Function (1 Aux.) hydraulic valve for non-clamping attachments	●	
Permanent magnet AC traction and pump motors	●		Single brake pedal	●	
High voltage traction and pump motor controllers	●		Electronic horn	●	
Liquid cooling system for motors and controllers	●		Auto deceleration system with regenerative motor braking	●	
Oil-cooled wet disc brakes	●		Traction speed limiting	●	
Turn Assist System (155 and 170 models only)	●		Operator Presence System (OPS)	●	
DRIVE	STD	OPT	Keyswitch start	●	
Dual drive tires, pneumatic 8.25 X 15-14PR	●		Mechanical park brake	●	
Steer tires, pneumatic 8.25 X 15-14PR	●		Fully integrated CANbus communication	●	
Multiple drive and steer tire options		●	On demand power steering	●	
LIFT	STD	OPT	Rear OHG mounted mirror	●	
2-Stage mast with maximum fork height of 118" (3000 mm) – (155 only)	●		Lifting eye		●
2-Stage mast with maximum fork height of 121" (3065 mm) – (170, 175, 190)	●		Programmable maintenance reminder		●
5° Forward / 10° backward mast tilt – (155 Only)	●		Keyless start (with auxiliary key switch)		●
5° Forward / 9° backward mast tilt – (170, 175, 190)	●		Return to set tilt		●
Multiple mast height options		●	Impact monitoring with shutdown		●
5° Forward / 6° backward mast tilt		●	Load weight display		●
HANDLING	STD	OPT	Operator pre-shift check list		●
78" (1981 mm) Wide hook-type carriage with 48" (1219 mm) tall load backrest extension – (155 Only)	●		Operator password protection		●
80" (2030 mm) Wide hook-type carriage with 48" (1219 mm) tall load backrest extension – (170, 175, 190)	●		Audible reverse alarm		●
47" (1200 mm) Long hook type standard taper forks	●		Overhead guard mounted amber LED strobe light		●
Hydraulic clamping function		●	LED work light package		●
Attachment extension tubes		●	Brake / tail / backup light package		●
Hang-on side shift – (155 only)		●	4 Function (2 Aux.) hydraulic valve		●
Hang-on side shift fork positioner – (155 only)		●	Dual side view mirrors		●
Integral side shift		●	Fire extinguisher		●
Integral side shift fork positioner – (170, 175, 190)		●	Yale Vision		●
Multiple fork types and lengths		●	Yale Reliant™		●
ERGONOMICS	STD	OPT	CONSTRUCTION	STD	OPT
Seat side directional control	●		100" (2531mm) Tall overhead guard	●	
Multifunction display (high mount): - LCD backlit screen - Battery state of charge indicator with lift interrupt - Four operator selectable, programmable performance modes - System status indicator icons & digital clock - Fault indicator (audible & visible) - Hour meters – traction motor, hydraulic pump motor, and truck	●		Full steel cab, including the following: - Front and rear wiper - Full light package - Integral heater - Removable doors - Operator dome light - Fan		●
Multifunction display (low mount)		●	ENERGY SYSTEM	STD	OPT
Air suspension vinyl seat w/ black seat belt	●		Integrated lithium-ion	●	
Adjustable steer column	●		SUPPLEMENTAL	STD	OPT
12" Steering wheel with wheel spinner knob	●		Operating manual	●	
Rubber floor mat	●		12 Month / 2,000 hour full truck warranty	●	
Accutouch mini-levers with fully adjustable armrest	●		36 Month / 6,000 hour powertrain warranty	●	
Seat side power disconnect button	●		60 Month / 10,000 hour factory installed integrated li-ion battery warranty	●	
Hydraulic accumulator		●			
Foot direction control pedal		●			
Rear drive handle with horn button		●			
Air suspension cloth seat w/ black seat belt		●			
Steering wheel without spinner knob		●			
Rear view display (155 and 170 Only)		●			

About Yale



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

MATERIALS HANDLING FOR:

Third-party logistics (3PL)

Auto parts distribution

Beverage

Cold & frozen foods

Food distribution

Food processing

Furniture & furnishings

Government

Health & pharma

Home centers & durables


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CERTIFICATION: Yale lift trucks meet the design and construction requirements of B56.1-1969, per OSHA Section 1910.178(a)(2), and also comply with the B56.1 revision in effect at time of manufacture.