

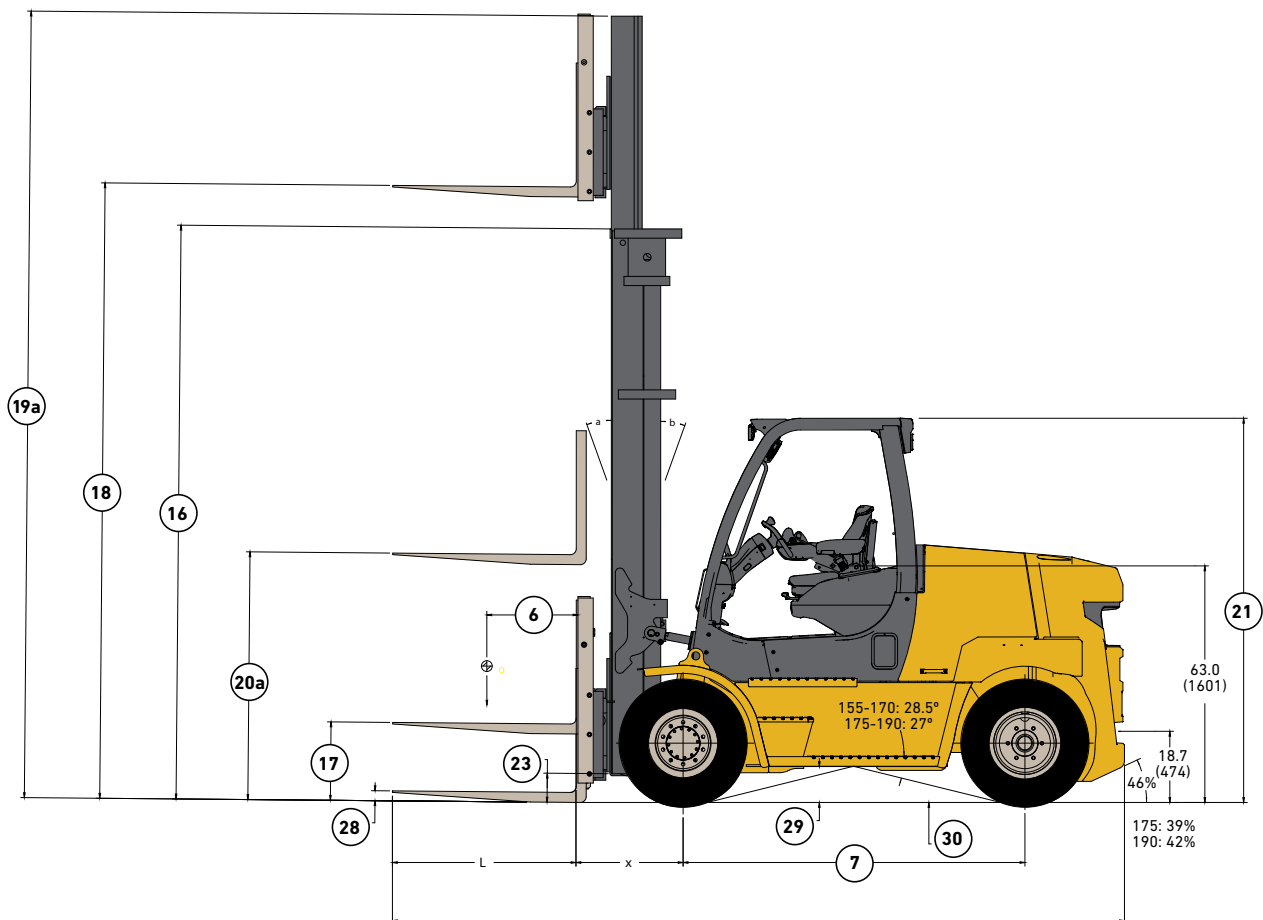
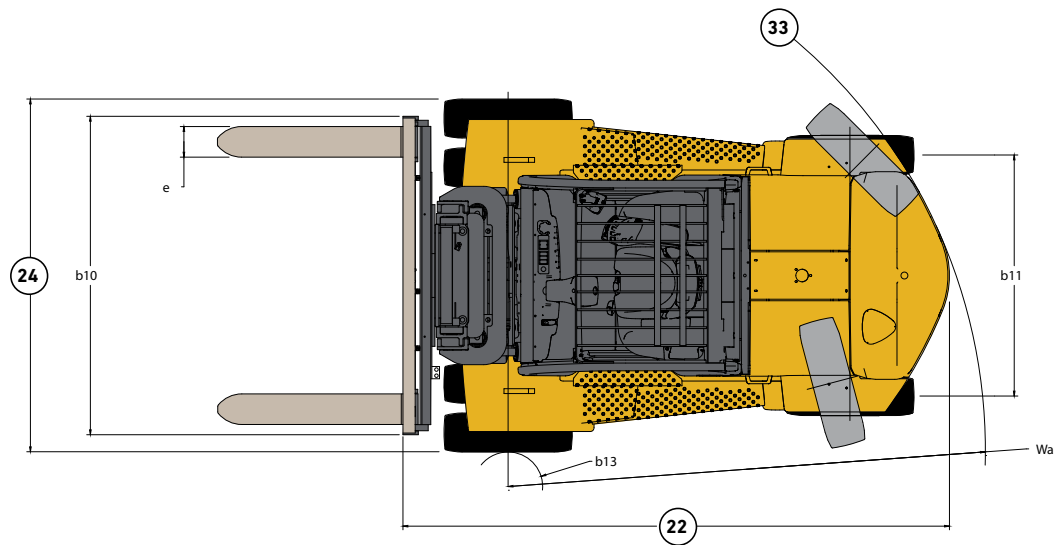


ERP 155-190VNL

SPEC SHEET

Pneumatic tire integrated
lithium-ion counterbalanced forklift

15,500-19,000 lbs.



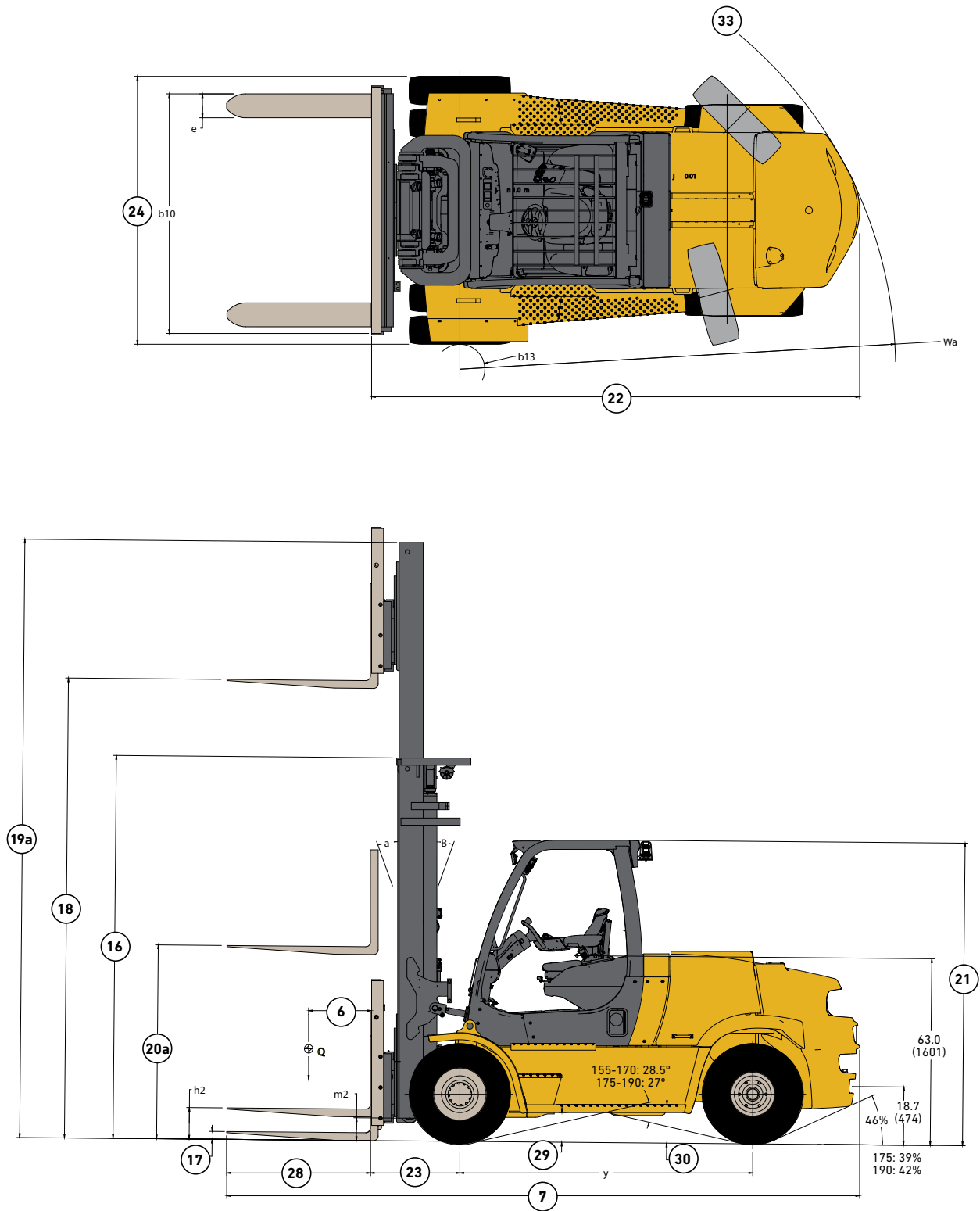
Circled truck dimensions correspond to the line numbers in the General Specifications chart. Dimensions are listed in inches (millimeters).

GENERAL SPECIFICATIONS - ERP155-170SVNL

GENERAL	1	Manufacturer				Yale	Yale
	2	Model				ERP155SVNL	ERP170SVNL
	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	NL	lb. (kg)	33495 (15193) / 5975 (2710)	37891 (17187) / 6158 (2793)
	10	Axle loading	Static front/rear	RL	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)
OTHER	47	Pump motor power	S2 60 Minute rating		hp (kW)	80.4 hp (60kW)	80.4 hp (60kW)
	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 ERP155SVNL: 129.3 in (3282mm); ERP170SVNL: 131.8 in (3347mm)

- 5 Measured with Turn Assist System equipped. ITR without Turn Assist System is ERP155SVNL: 9.1 in (230mm); ERP170SVNL: 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			ERP175VNL36	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	NL	lb. (kg)	40627 (18428) / 4048 (1836)	40654 (18440) / 4593 (2083)
	10	Axle loading		Static front/rear	RL	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)	
	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)
	Center of wheelbase			in. (mm)	10.0 (253)	10.0 (253)		
	29	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)
	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)
	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	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 ERP155SVNL: 129.3 in (3282mm); ERP170SVNL: 131.8 in (3347mm)

- 5 Measured with Turn Assist System equipped. ITR without Turn Assist System is ERP155SVNL: 9.1 in (230mm); ERP170SVNL: 9.1 in (230mm)
- 6 Extended Shift OFF (Max Performance)
- 7 Nominal values

STANDARD LIFT SPECIFICATIONS - ERP155SVNL

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 - ERP170SVNL, ERP175VNL36 & 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)

The battery run time and battery charge time tables below are a helpful guide to visualize the truck run time with different batteries in different applications. (The tables are a guide only and not a replacement for a site survey and full power study.)

Heavy – High throughput, typically runs full capacity, runs either attachments or has high lifts

Medium – High throughput, runs near capacity without attachments or high lifts

Light – lower throughput, runs less than rated capacity without attachments or high lifts

Note: Run time is from 100% to Lift-lock out. Charge time is from Lift-lock out to 100%.

Charge times with * are limited to 1C charging (i.e. cannot charge faster than 1 hour).

BATTERY SPECIFICATIONS

ERP155SVNL BATTERY RUN TIME

Battery size	Application		
	Heavy	Medium	Light
54.9kWh	3h 0m	4h 15m	5h 30m

ERP190VNL BATTERY RUN TIME

Battery size	Application		
	Heavy	Medium	Light
54.9kWh	2h 30m	3h 30m	4h 45m

ERP155-190VNL BATTERY CHARGE TIME

Charger size	Battery size
	54.9kWh
50kW	1h 15m
40kW	1h 30m
30kW	2h 0m
20kW	2h 45m
10kW	5h 30m

FEATURES LIST

PERFORMANCE	STD	OPT
350-Volt integrated lithium-ion battery with battery management system	●	
Permanent magnet AC traction and pump motors	●	
High voltage traction and pump motor controllers	●	
Liquid cooling system for motors and controllers	●	
Oil-cooled wet disc brakes	●	
Turn Assist System (155 and 170 models only)	●	
Reverse Speed System		●
DRIVE	STD	OPT
Dual drive tires, pneumatic 8.25 X 15-14PR	●	
Steer tires, pneumatic 8.25 X 15-14PR	●	
Multiple drive and steer tire options		●
LIFT	STD	OPT
2-stage mast with maximum fork height of 118" (3000 mm) – (155 only)	●	
2-stage mast with maximum fork height of 121" (3065 mm) – (170, 175, 190)	●	
5° forward / 10° backward mast tilt – (155 Only)	●	
5° forward / 9° backward mast tilt – (170, 175, 190)	●	
Multiple mast height options		●
5° forward / 6° backward mast tilt		●
HANDLING	STD	OPT
78" (1981 mm) wide hook-type carriage with 48" (1219 mm) tall load backrest extension – (155 Only)	●	
80" (2030 mm) wide hook-type carriage with 48" (1219 mm) tall load backrest extension – (170, 175, 190)	●	
47" (1200 mm) long hook type standard taper forks	●	
Hydraulic clamping function		●
Attachment extension tubes		●
Hang-on side shift – (155 only)		●
Hang-on side shift fork positioner – (155 only)		●
Integral side shift		●
Integral side shift fork positioner – (170, 175, 190)		●
Multiple fork types and lengths		●
ERGONOMICS	STD	OPT
Seat side directional control	●	
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	●	
Multifunction display (low mount)		●
Air suspension vinyl seat w/ black seat belt	●	
Adjustable steer column	●	
12" Steering wheel with wheel spinner knob	●	
Rubber floor mat	●	
Accutouch mini-levers with fully adjustable armrest	●	
Seat side power disconnect button	●	
Hydraulic accumulator		●
Foot Directional 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)		●

OPERATION	STD	OPT
3 Function (1 Aux.) hydraulic valve for non-clamping attachments	●	
Single brake pedal	●	
Electronic horn	●	
Auto Deceleration System with regenerative motor braking	●	
Traction speed limiting	●	
Operator Presence System (OPS)	●	
Keyswitch start	●	
Mechanical park brake	●	
Fully integrated CANbus communication	●	
On demand power steering	●	
Rear OHG mounted mirror	●	
Lifting eye		●
Programmable maintenance reminder		●
Keyless start (with auxiliary key switch)		●
Return to set tilt		●
Impact monitoring with shutdown		●
Load weight display		●
Operator pre-shift check list		●
Operator password protection		●
Audible reverse alarm		●
Overhead guard mounted amber LED strobe light		●
LED work light package		●
Brake / tail / backup light package		●
4 function (2 Aux.) hydraulic valve		●
Dual side view mirrors		●
Fire extinguisher		●
Yale Vision		●
Yale Reliant™		●
CONSTRUCTION	STD	OPT
100" (2531mm) Tall overhead guard	●	
Full steel cab, including the following: - Front and rear wiper - Full light package - Integral heater - Removable doors - Operator dome light - Fan		●
ENERGY SYSTEM	STD	OPT
Integrated lithium-ion	●	
SUPPLEMENTAL	STD	OPT
Operating manual	●	
12 Month / 2,000 hour full truck warranty	●	
36 Month / 6,000 hour powertrain warranty	●	
60 Month / 10,000 hour factory installed integrated li-ion battery warranty	●	

About Yale



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

MATERIALS HANDLING FOR:

Third-party logistics (3PL)

Auto parts distribution

Beverage

Cold & frozen foods

Food distribution

Food processing

Furniture & furnishings

Government

Health & pharma

Home centers & durables


Retail & e-commerce

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

yale.com



EXPLORE MORE
ONLINE.
←

© 2024 Hyster-Yale Materials Handling, Inc., all rights reserved. YALE and  are trademarks of Hyster-Yale Materials Handling, Inc.

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

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