



# ERP25-30VLL

SPEC SHEET

2,500 - 3,000 kg

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VLL Series

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Electric Forklift Trucks



## VDI 2198 – GENERAL SPECIFICATIONS – VLL SERIES

		Yale					
		ERP 25VLL	ERP 30VLL	ERP 25VLL	ERP 30VLL		
GENERAL	1-1	Manufacturer	Yale				
	1-2	Model designation	Value				
		Model	Productivity				
	1-3	Drive	Electric (battery)				
	1-4	Operator type	Seated				
	1-5	Rated capacity/rated load	Q (t)	2500	3000	2500	3000
	1-6	Load centre distance	c (mm)	500			
	1-8	Load distance, centre of drive axle to fork <sup>(1)</sup>	x (mm)	419	431	419	431
	1-9	Wheelbase	y (mm)	1750			
WEIGHT	2-1	Service weight (max. battery)	kg	4280	4710	4280	4710
	2-2	Axle loading laden, front/rear (max. battery)	kg	5957 / 821	7596 / 610	5957 / 821	7596 / 610
	2-3	Axle loading unladen, front/rear (max. battery)	kg	2144 / 2135	2233 / 2473	2144 / 2135	2233 / 2473
TYRES	3-1	Tyres	Superelastic				
	3-2	Tyre size, front	ø mm x mm	23 X 10 -12			
	3-3	Tyre size, rear	ø mm x mm	18 X 7 - 8			
	3-5	Wheels, number front/rear (x = driven wheels)		2X / 2			
	3-6	Tread, front	b1ø (mm)	938 / 1054			
	3-7	Tread, rear	b1i (mm)	992			
	DIMENSIONS	4-1	Tilt of mast/fork carriage forward/backward	α/β (°)	5 / 5		
4-2		Height, mast lowered	h1 (mm)	2192			
4-3		Free lift <sup>(10)</sup>	h2 (mm)	100			
4-4		Lift height <sup>(2)</sup>	h3 (mm)	3350	3155	3350	3155
4-5		Height, mast extended <sup>(3)</sup>	h4 (mm)	3960	3865	3960	3865
4-7		Height of overhead guard <sup>(4)</sup>	h5 (mm)	2193			
4-8		Seat height relating to SIP/stand height <sup>(5)</sup>	h7 (mm)	984			
4-12		Coupling height	h1ø (mm)	262			
4-19		Overall length	l1 (mm)	3480	3570	3480	3570
4-20		Length to face of forks	l2 (mm)	2480	2570	2480	2570
4-21		Overall width, standard/wide tread	b1/b2 (mm)	1173 / 1289			
4-22		Fork dimensions DIN ISO 2331	s/e/l (mm)	40 x 100 x 1000	50 x 120 x 1000	40 x 100 x 1000	50 x 120 x 1000
4-23		Fork carriage DIN 15173. Class, A/B		2A	3A	2A	3A
4-24		Fork carriage width <sup>(6)</sup>	b3 (mm)	1067			
4-31		Ground clearance, laden, below mast	m1 (mm)	98			
4-32		Ground clearance, centre of wheelbase	m2 (mm)	137			
4-34-1	Aisle width for pallets 1000 x 1200 crossways	Ast (mm)	3750	3828	3750	3828	
4-34-2	Aisle width for pallets 800 x 1200 lengthways	Ast (mm)	3906	3984	3906	3984	
4-35	Turning radius	Wa (mm)	2073	2139	2073	2139	
4-36	Inner turning radius	b13 (mm)	189				
PERFORMANCE	5-1	Travel speed laden/unladen <sup>(7)</sup>	km/h	18.0 / 18.0	17.0 / 18.0	21.0 / 21.0	19.5 / 21.0
	5-2	Lift speed, laden/unladen	m/s	0.38 / 0.63	0.33 / 0.59	0.49 / 0.72	0.42 / 0.63
	5-3	Lowering speed, laden/unladen	m/s	0.57 / 0.51	0.56 / 0.46	0.57 / 0.51	0.56 / 0.46
	5-5	Drawbar pull, laden/unladen, 60 minute rating	N	5591 / 5726	5441 / 5588	6037 / 6185	5877 / 6035
	5-6	Maximum drawbar pull, laden/unladen, 5 minute rating	N	18451 / 18897	17956 / 18441	19927 / 20409	19393 / 19916
	5-7	Gradeability laden/unladen, 30 minute rating,	%	9 / 13	8 / 12	10 / 14	9 / 13
	5-8	Maximum gradeability, laden/unladen, 5 minute rating,	%	24 / 35	22 / 34	26 / 38	24 / 37
	5-9	Acceleration time, laden/unladen <sup>(7)</sup>	s	4.45 / 4.11	4.56 / 4.18	4.04 / 3.71	4.14 / 3.78
	5-10	Service brake		Hydraulic			
	ELECTRIC	6-1	Drive motor rating, (S2 60 minute rating)	kW	2x 10.0		
6-2		Lift motor rating, (S3 15% rating)	kW	16.0			24.0
6-3		Battery according to DIN 43531/35/36 A, B, C, no		No			
6-4		Battery voltage/capacity at 5hr rate	(V)/(Ah)	80 / 420			
6-5		Battery weight (min/max)	kg	362 / 394			
6-6		Energy consumption according to VDI cycle <sup>(7)</sup>	kWh/h @ no. of Cycles	7.89		8.66	9.74
OTHER	8-1	Type of drive unit		AC Electronic			
	10-1	Operating pressure for attachments	bar	155			
	10-2	Oil flow for attachments, manual hydraulics <sup>(8)</sup>		20 - 40			
	10-7	Sound pressure level at the driver's seat <sup>(9)</sup>	dB(A)	67			
	10-8	Towing coupling, type DIN		Pin			

(1) Add 34mm for ISS Carriage up to and including 2500kg capacity. Add 36mm for ISS Carriage for greater than 2500kg capacity

(2) Measurement from ground to bottom of forks

(3) Add 666mm with Load Backrest up to and including 2500kg. Add 583 with Load Backrest for greater than 2500kg capacity

(4) h5 subject to +/- 5 mm tolerance. Add 20mm with cab option. Add 104mm for battery side removal option. Add 124mm for battery side removal with cab option

(5) Full Suspension (FLM80) specified, compressed condition. Add 40mm for nominal position. Add 104mm for battery side removal option

(6) Add 28mm with load backrest

(7) Standard performance, extended shift function turned on

(8) Maximum flow set through dash display

(9) LPAZ, measured according to the test cycles and based on the weighting values contained in EN12053.

(10) 2LFL masts only

**Specification sheet based on:** Standard seat, Standard Overhead Guard, Standard 1067mm wide carriage, Extended shift on with standard battery configuration, 2LFL mast.

All values are nominal values and they are subject to tolerances.



### MAST DIMENSIONS – ERP 25VLL

h <sub>1</sub> (mm)	h <sub>2+S</sub> (mm)	h <sub>3+S</sub> (mm)	h <sub>4</sub> (mm)	Tilt		Forks			Integral sideshift		
				F	B	Load centre (kg)			Load centre (kg)		
						500	600	700	500	600	700
<b>2-Stage Limited Free-Lift (LFL) Mast</b>											
2195	140	3390	3956	5	5	2500	2270	2170	2500	2270	2090
2395	140	3790	4356	5	5	2500	2270	2170	2500	2270	2090
2745	140	4330	4896	5	5	2500	2270	2160	2500	2270	2080
2995	140	4830	5396	5	5	2500	2270	2150	2500	2270	2070
<b>2-Stage Full Free-Lift (FFL) Mast</b>											
2195	1625	3400	3966	5	5	2500	2270	2170	2500	2270	2090
2395	1825	3800	4366	5	5	2500	2270	2160	2500	2270	2090
2745	2175	4420	4986	5	5	2500	2270	2150	2500	2270	2070
<b>3-Stage Full Free-Lift (FFL) Mast</b>											
2145	1595	4950	5496	5	5	2500	2270	2140	2500	2250	2060
2395	1845	5550	6096	5	5	2410	2190	2050	2380	2150	1960
2595	2045	6000	6546	5	5	2310	2100	1960	2290	2070	1890

All capacities calculated with 1000mm long forks and are less load backrest

### MAST DIMENSIONS – ERP 30VLL

h <sub>1</sub> (mm)	h <sub>2+S</sub> (mm)	h <sub>3+S</sub> (mm)	h <sub>4</sub> (mm)	Tilt		Forks			Integral sideshift		
				F	B	Load centre (kg)			Load centre (kg)		
						500	600	700	500	600	700
<b>2-Stage Limited Free-Lift (LFL) Mast</b>											
2195	145	3200	3861	5	5	3000	2720	2550	2960	2680	2440
2395	145	3600	4261	5	5	3000	2720	2540	2950	2670	2440
2745	145	4100	4761	5	5	3000	2720	2530	2940	2660	2430
2995	145	4600	5261	5	5	2920	2650	2460	2850	2580	2360
<b>2-Stage Full Free-Lift (FFL) Mast</b>											
2195	1535	3205	3862	5	5	3000	2720	2550	2960	2680	2440
2595	1935	3905	4562	5	5	3000	2720	2530	2940	2660	2430
2845	2185	4405	5062	5	5	2960	2680	2500	2900	2620	2390
<b>3-Stage Full Free-Lift (FFL) Mast</b>											
2145	1500	4610	5252	5	5	2970	2690	2500	2900	2620	2390
2295	1650	4910	5552	5	5	2900	2630	2440	2830	2560	2340
2395	1750	5210	5852	5	5	2840	2570	2380	2760	2500	2280
2645	2000	5810	6452	5	5	2690	2440	2250	2600	2350	2150

All capacities calculated with 1000mm long forks and are less load backrest

All values are nominal values and they are subject to tolerances.

### FEATURES LIST – VLL SERIES

PERFORMANCE	STD	OPT	VISIBILITY	STD	OPT
80 Volt	•		Audible Reverse Alarm		•
Advance Performance	•		Amber Strobe Light - Ignition Activated		•
Standard Construction	•		Without Lights	•	
Sealed Drive Axle, Belly Pan & Side Shields	•		Halogen Work Lights		•
Advance: Low Noise Performance		•	Halogen Rear Lights		•
Sub-Zero Freezer (-40° C to 30° C)		•	Halogen Rear Lights - Stop/Tail/Reverse		•
Outdoor Protection / Washdown Package		•	Halogen Rear Lights - Stop/Tail/Reverse/Turn		•
Advance+ Performance		•	LED Work Lights		•
Advance+: Low Noise Performance		•	LED Rear Lights		•
System Monitoring Package	•		LED Rear Lights - Stop/Tail/Reverse		•
Battery Removal without Rollers - Lift Out	•		LED Rear Lights - Stop/Tail/Reverse/Turn		•
Hinged Door	•		<b>ERGONOMICS</b>	<b>STD</b>	<b>OPT</b>
Removable Panels	•		Aftermarket Cabin Kit Ready Dash	•	
Side Extraction (Using Fork Pockets)		•	Overhead Guard - 2193mm/2297mm	•	
Side Extraction (Using Rollers)		•	Front/Top Cabin Panels with Front Wiper Motor All Chassis		•
Primary DC/DC Converter	•		Steel Modular Cab with PVC Doors		•
Auxiliary DC/DC Converter		•	Full Steel Cab		•
Without Battery	•		Heater and Demister		•
Battery Options		•	LED Dome / Reading Light		•
Without Charger	•		Dual Mirrors Side View		•
Charger Options		•	Panoramic Mirror		•
<b>DRIVE</b>	<b>STD</b>	<b>OPT</b>	12V Outlet - automotive style socket on dash		•
Integrated Directional Switch	•		Full Suspension Vinyl Seat	•	
MONOTROL® Directional Control Pedal		•	Full Suspension Cloth Seat		•
Tyres - Super Elastic	•		Full Suspension Swivel Vinyl Seat		•
Tyres - Super Elastic - Non-Marking		•	Full Suspension Swivel Cloth Seat		•
Standard Tread	•		High Backrest Lumbar Support Vinyl Seat with Headrest		•
Wide Tread		•	High Backrest Lumbar Support Cloth Seat with Headrest		•
Steer Column with Infinitely Adjustable Tilt	•		Standard Seat Belt	•	
Telescopic Steering Column with Tilt Memory		•	HI VIS Red Seat Belt		•
Steering Wheel with Spinner Knob	•		HI VIS Red Seat Belt with Interlock		•
On Demand Power Steering	•		<b>OPERATION</b>	<b>STD</b>	<b>OPT</b>
On Demand Power Steering with Synchronous Steering		•	Key Switch Start	•	
<b>LIFT</b>	<b>STD</b>	<b>OPT</b>	Key Switch Start with Operator Password		•
2 Stage Limited Free Lift Mast - Class II/III	•		Keyless with Operator Password		•
2 Stage Full Free Lift Mast - Class II/III		•	Impact Sensor		•
3 Stage Full Free Lift Mast - Class II/III		•	Programmable Maintenance Reminder		•
5° Forward / 5° Back Mast Tilt	•		Operator Pre-Shift Electronic Checklist		•
5° Forward / 4° Back Mast Tilt		•	Two Battery Stands	•	
<b>HANDLING</b>	<b>STD</b>	<b>OPT</b>	Conventional Battery Charge Truck Arrangement	•	
With Tilt Cylinder Boots	•		Gravity Feed Water Reservoir		•
Hook Type Standard Carriage - 1070mm	•		Manual Filler Gun		•
Hook Type Integral Sideshift Carriage - 1070mm		•	Pressure Reduction Valve		•
Hook Type Integral Sideshift Carriage with Fork Positioner - 1070mm		•	Aquamatic Filling Trolley		•
Without Load Backrest	•		Front Mud Guard and Rear Mud Shield		•
1220mm High Load Backrest		•	<b>SUPPLEMENTAL</b>	<b>STD</b>	<b>OPT</b>
Hook Type Standard Taper Forks - 1000mm	•		12 Months / 2,000 Hours Manufacturer's Warranty	•	
Hook Type Standard Taper Forks - 1100mm	•		36 Months / 6,000 Hours Extended Warranty		•
Hook Type Standard Taper Forks - 1200mm	•		48 Months / 8,000 Hours Comprehensive Protection Plan		•
3 Function (1 Auxiliary) Hydraulic Valve	•		Literature Package	•	
4 Function (2 Auxiliary) Hydraulic Valve		•			
Manual Lever Hydraulic Controls	•				
Mini Lever Hydraulic Controls		•			
Clamping Function		•			
Return To Set Tilt Function		•			
Without Hose Group	•				
3 Function Hose Group (1 Auxiliary)		•			
4 Function Hose Group (2 Auxiliary)		•			

All values are nominal values and they are subject to tolerances.



# About Yale®

Yale Materials Handling Corporation is one of the oldest manufacturers of lift trucks in the world. We've been in the business of lifting since 1875 and we apply that experience to help customers solve materials handling challenges. Our full line of lift trucks range in capacity from 1 to 16 tonne and are powered by internal combustion engines or electric options. Yale also offers robotic solutions, telemetry, fleet management, parts, financing and training. From traditional lift truck equipment to emerging technologies, our goal, every day, is to work with our nationwide dealer network to continually improve and provide the solutions you need, when and how you need them.

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- Cold & Frozen Foods
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## Yale Lift Truck Technologies


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**Safety:** All Yale products sold into EU countries, UK, and Turkey conform to the EU requirements of Machinery Directive 2006/42/EC and contain **CE** marking. Yale trucks sold into other countries may be ordered for production in conformance with Machinery Directive requirements, and when so ordered will contain **CE** marking.

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Publication part no. 220991884 Rev.01 (0623TLC) EN