



# ERP13-15VC

SPEC SHEET

1,300 - 1,500 kg

---

VC Series

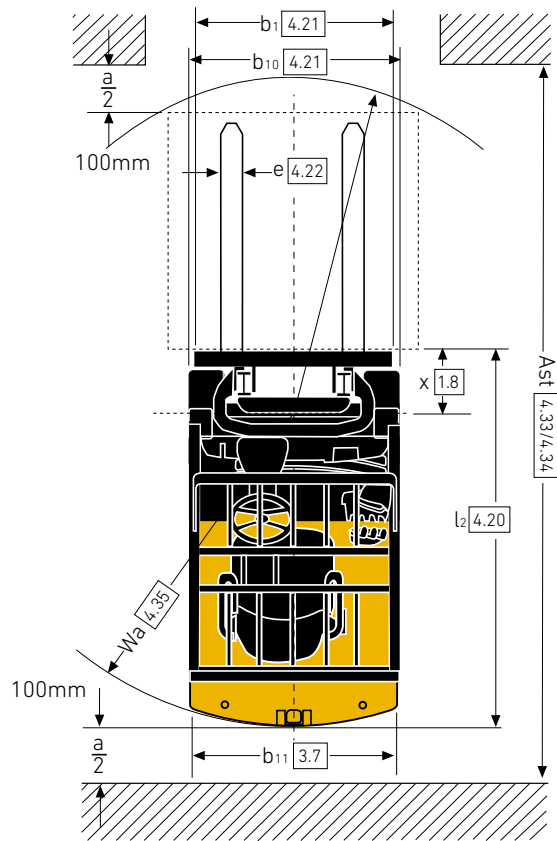
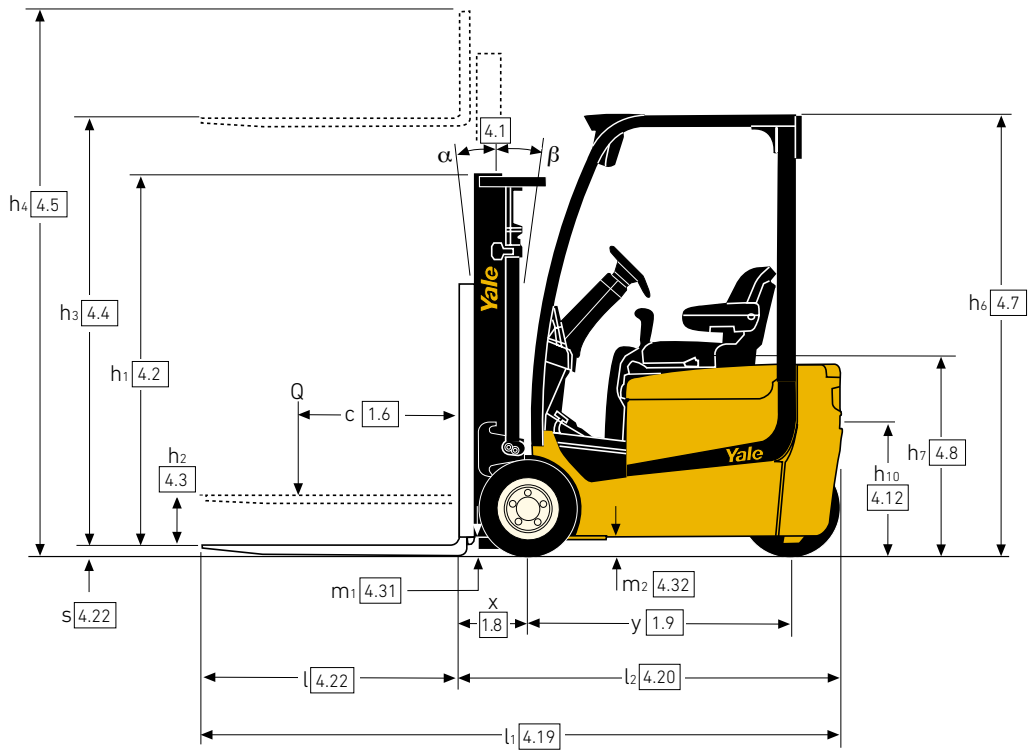
---

Electric Forklift Trucks



# TRUCK DIMENSIONS – VC SERIES

$$A_{st} = Wa + R + a = Wa + \sqrt{((l_6 + x)^2 + (b_{12}/2)^2) + a}$$



## VDI 2198 – GENERAL SPECIFICATIONS – VC SERIES

		Yale		
		ERP 13VC	ERP 15VC	
<b>GENERAL</b>	1.1	Manufacturer		
	1.2	Model designation		
	1.3	Drive	Electric (Battery)	
	1.4	Operator type	Seated	
	1.5	Rated capacity/rated load	1.3	1.5
	1.6	Load centre distance	500	
	1.8	Load distance, centre of drive axle to fork	326	
	1.9	Wheelbase	1168	1222
	<b>WEIGHT</b>	2.1	Service weight	2700
2.2		Axle loading, laden front/rear <sup>(1)</sup>	3319 / 631	3755 / 649
2.3		Axle loading, unladen front/rear <sup>(1)</sup>	1184 / 1516	1240 / 1665
<b>TYRES</b>	3.1	Tyres front/rear	Superelastic	
	3.2	Tyre size, front	18 x 7-8	
	3.3	Tyre size, rear	18 x 7-8	
	3.5	Wheels, number front/rear (x = driven wheels)	2 / 1X	
	3.6	Tread, front	836 / 896	
	3.7	Tread, rear	-	
	<b>DIMENSIONS</b>	4.1	Tilt of mast/fork carriage forward/backward	$\alpha / \beta$ (°)
4.2		Height, mast lowered	h <sub>1</sub> (mm)	
4.3		Free lift <sup>(2)</sup>	h <sub>2</sub> (mm)	
4.4		Lift <sup>(2)</sup>	h <sub>3</sub> (mm)	
4.5		Height, mast extended <sup>(3)</sup>	h <sub>4</sub> (mm)	
4.7		Height of overhead guard <sup>(4)</sup>	h <sub>6</sub> (mm)	
4.8		Seat height relating to SIP/stand height <sup>(5)</sup>	h <sub>7</sub> (mm)	
4.12		Coupling height	h <sub>10</sub> (mm)	
4.19		Overall length <sup>(1)</sup>	2724	2778
4.20		Length to face of forks <sup>(1)</sup>	l <sub>2</sub> (mm)	
4.21		Overall width	b <sub>1</sub> /b <sub>2</sub> (mm)	
4.22		Fork dimensions ISO2331	s/e/l (mm)	
4.23		Fork carriage ISO 2328, class/type A, B	IIA	
4.24		Fork carriage width <sup>(6)</sup>	b <sub>3</sub> (mm)	
4.31		Ground clearance, laden, below mast	m <sub>1</sub> (mm)	
4.32		Ground clearance, centre of wheelbase	m <sub>2</sub> (mm)	
4.34.1		Aisle width for pallets 1000 x 1200 crossways <sup>(7)</sup>	3053	3107
4.34.2		Aisle width for pallets 800 x 1200 lengthways <sup>(8)</sup>	3176	3230
4.35		Turning radius	1398	1452
4.36		Internal turning radius	b <sub>13</sub> (mm)	
<b>PERFORMANCE</b>	5.1	Travel speed, laden/unladen	km/h	
	5.2	Lift speed, laden/unladen	m/s	
	5.3	Lowering speed, laden/unladen	m/s	
	5.5	Drawbar pull, laden/unladen	951 / 975	942 / 970
	5.6	Max. drawbar pull, laden/unladen	6246 / 6221	6212 / 6242
	5.7	Gradeability, laden/unladen	8.2 / 12.1	7.3 / 11.2
	5.8	Max. gradeability, laden/unladen	16.3 / 24.3	14.5 / 22.4
	5.9	Acceleration time, laden/unladen <sup>(9)</sup>	5.6 / 4.7	5.7 / 4.9
	5.10	Service brake	Hydraulic	
	<b>ELECTRIC</b>	6.1	Drive motor rating S2 60 min	kW
6.2		Lift motor rating at S3 15%	kW	
6.3		Battery according to DIN 43531/35/36 A, B, C, no	DIN 43535A	
6.4		Battery voltage/nominal capacity K5	24 / 735 / 875	24 / 840 / 1000
6.5		Battery weight	570 / 630	642 / 710
6.6		Energy consumption according to VDI cycle <sup>(10) (11)</sup>	kWh/h @ no. of cycles	3.9
<b>OTHER</b>	8.1	Type of drive unit	AC	
	10.1	Operating pressure for attachments	bar	
	10.2	Oil volume for attachments <sup>(12)</sup>	l/min	
	10.7	Sound pressure level at the driver's seat <sup>(13)</sup>	dB (A)	
	10.8	Towing coupling, type DIN	Pin	

(1) With mast vertical

(2) Bottom of forks

(3) Without load backrest

(4) h<sub>6</sub> subject to +/- 5mm tolerance

(5) Full suspension seat

(6) Add 32mm with load backrest. Integral sideshift is 906mm wide or 939mm with load backrest

(7) 2 Stage and 3 Stage mast, deduct 3mm for FFL mast

(8) 2 Stage and 3 Stage mast, deduct 4mm for FFL mast

(9) HiP performance setting

(10) eLo performance setting

(11) 45 cycles

(12) Variable

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

**Spec sheet truck based on:** 3360mm 2 stage LFL mast with standard carriage, 1000mm forks and load backrest, manual hydraulics, DIN battery configuration supercushion drive and steer tyres

## MAST DIMENSIONS – ERP 13VC

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) Clear View</b>											
1980	140	2860	3368	5	5	1300	1150	1080	1280	1150	1040
2230	140	3360	3868	5	5	1300	1150	1080	1280	1140	1030
2580	140	3860	4368	5	5	1300	1150	1070	1270	1130	1030
2830	140	4360	4868	5	5	1300	1150	1070	1260	1130	1020
3180	140	4860	5368	5	5	1230	1090	1010	1190	1070	960
<b>2-Stage Full Free-Lift (FFL) Hi-Vis</b>											
1980	1405	3018	3613	5	5	1300 <sup>(1)</sup>	1150 <sup>(1)</sup>	1080 <sup>(1)</sup>	1260 <sup>(1)</sup>	1120 <sup>(1)</sup>	1020 <sup>(1)</sup>
2080	1505	3218	3813	5	5	1300 <sup>(1)</sup>	1150 <sup>(1)</sup>	1070 <sup>(1)</sup>	1250 <sup>(1)</sup>	1120 <sup>(1)</sup>	1020 <sup>(1)</sup>
2330	1805	3718	4313	5	5	1300 <sup>(1)</sup>	1150 <sup>(1)</sup>	1070 <sup>(1)</sup>	1250 <sup>(1)</sup>	1120 <sup>(1)</sup>	1010 <sup>(1)</sup>
2680	2105	4338	4913	5	5	1300 <sup>(1)</sup>	1150 <sup>(1)</sup>	1060 <sup>(1)</sup>	1230 <sup>(1)</sup>	1110 <sup>(1)</sup>	1000 <sup>(1)</sup>
<b>3-Stage Full Free-Lift (FFL) Mast Clear View</b>											
1980	1472	4300	4808	5	5	1300	1150	1060	1240	1110	1010
2080	1572	4600	5108	5	5	1270	1120	1040	1220	1090	990
2180	1672	4900	5408	5	5	1220	1080	1000	1160	1040	940
2330	1822	5200 <sup>(2)</sup>	5708	5	5	1170 <sup>(1)</sup>	1030 <sup>(1)</sup>	950 <sup>(1)</sup>	1110 <sup>(1)</sup>	990 <sup>(1)</sup>	900 <sup>(1)</sup>
2430	1942	5500 <sup>(2)</sup>	6008	5	5	1110 <sup>(1)</sup>	980 <sup>(1)</sup>	900 <sup>(1)</sup>	1050 <sup>(1)</sup>	940 <sup>(1)</sup>	850 <sup>(1)</sup>

(1) Wide tread required. Standard tread possible, contact your lift truck dealer.

(2) Tilt speed reduced to 1° per second by mechanical tilt speed restrictors for mast heights 5000mm and above. **Note:** Alternative capacities available with pneumatic or cushion tyres. Integral sideshift is 906.2mm wide or 939mm with load backrest.

## MAST DIMENSIONS – ERP 15VC

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) Clear View</b>											
1980	140	2860	3368	5	5	1500	1320	1250	1480	1320	1200
2230	140	3360	3868	5	5	1500	1320	1250	1480	1320	1200
2580	140	3860	4368	5	5	1500	1320	1240	1470	1310	1190
2830	140	4360	4868	5	5	1500	1320	1230	1460	1310	1180
3180	140	4860	5368	5	5	1430	1250	1170	1390	1240	1120
<b>2-Stage Full Free-Lift (FFL) Hi-Vis</b>											
1980	1405	3018	3613	5	5	1500 <sup>(1)</sup>	1320 <sup>(1)</sup>	1250 <sup>(1)</sup>	1460 <sup>(1)</sup>	1300 <sup>(1)</sup>	1180 <sup>(1)</sup>
2080	1505	3218	3813	5	5	1500 <sup>(1)</sup>	1320 <sup>(1)</sup>	1240 <sup>(1)</sup>	1450 <sup>(1)</sup>	1300 <sup>(1)</sup>	1180 <sup>(1)</sup>
2330	1805	3718	4313	5	5	1500 <sup>(1)</sup>	1320 <sup>(1)</sup>	1240 <sup>(1)</sup>	1450 <sup>(1)</sup>	1300 <sup>(1)</sup>	1170 <sup>(1)</sup>
2680	2105	4338	4913	5	5	1500 <sup>(1)</sup>	1320 <sup>(1)</sup>	1230 <sup>(1)</sup>	1440 <sup>(1)</sup>	1290 <sup>(1)</sup>	1170 <sup>(1)</sup>
<b>3-Stage Full Free-Lift (FFL) Mast Clear View</b>											
1980	1472	4300	4808	5	5	1500	1320	1230	1440	1290	1170
2080	1572	4600	5108	5	5	1470	1290	1210	1420	1270	1150
2180	1672	4900	5408	5	5	1400	1250	1160	1360	1220	1100
2330	1822	5200 <sup>(2)</sup>	5708	5	5	1360 <sup>(1)</sup>	1200 <sup>(1)</sup>	1110 <sup>(1)</sup>	1300 <sup>(1)</sup>	1170 <sup>(1)</sup>	1060 <sup>(1)</sup>
2430	1942	5500 <sup>(2)</sup>	6008	5	5	1210 <sup>(1)</sup>	1140 <sup>(1)</sup>	1060 <sup>(1)</sup>	1210 <sup>(1)</sup>	1110 <sup>(1)</sup>	1010 <sup>(1)</sup>

(1) Wide tread required. Standard tread possible, contact your lift truck dealer.

(2) Tilt speed reduced to 1° per second by mechanical tilt speed restrictors for mast heights 5000mm and above. **Note:** Alternative capacities available with pneumatic or cushion tyres. Integral sideshift is 906.2mm wide or 939mm with load backrest.

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





C26A C26B

Mail Lite Mail Lite Ma

Mail Lite Mail Lite

Mail Lite Mail Lite

Mail Lite Mail Lite

Mail Lite Mail Lite

Mail Lite Mail Lite

Mail Lite Mail Lite



# 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.

## MATERIALS HANDLING FOR:

- 3PL
- Auto Parts
- Beverage
- Cold & Frozen Foods
- Food Distribution
- Food Processing
- Furniture & Furnishings
- Health & Pharma
- Home Centres
- Retail
- E-Commerce

## Yale Lift Truck Technologies


Centennial House  
Frimley Business Park  
Frimley  
Surrey  
GU16 7SG  
United Kingdom

[www.yale.com](http://www.yale.com)



**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.

HYSTER-YALE UK LIMITED trading as Yale Lift Truck Technologies. Registered Address: Centennial House, Building 4.5, Frimley Business Park, Frimley, Surrey, GU16 7SG, United Kingdom. Registered in England and Wales. Company Registration Number: 02636775.

©2023 Hyster-Yale Group, Inc., all rights reserved. YALE and YALE  are trademarks of Hyster-Yale Group, 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.

**Notice:** Care must be exercised when handling elevated loads. Operators must be trained and must read, understand and follow the instructions contained in the Operating Manual. Consult your Yale® Dealer if any of the information shown is critical to your application.

Publication part no. 220991836 Rev.00 (0323DMS) EN