

VC series

Electric Forklift Trucks

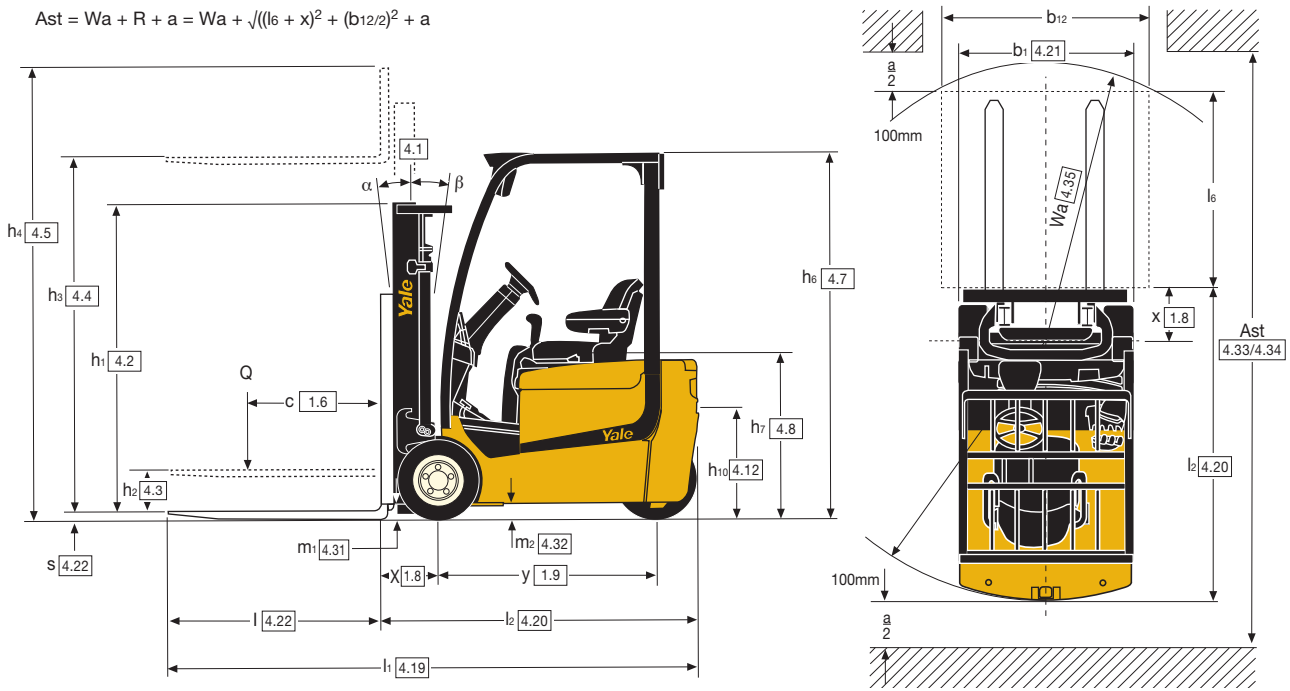
1,300kg / 1,500kg

- 24 volt rear-wheel drive with AC motors throughout
- Narrow truck width of 996mm with best in class working aisle width of 3053mm
- Clearview mast offers a combination of excellent load-handling capability and visibility
- Large footspace, low vibration seat and low noise motors for excellent operator comfort



Truck Dimensions

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



ERP13 VC mast details and capacity ratings (kg) - Supercushion tyres

Model						ERP 13 VC						
Tyre size, front						18 x 7-8						
Overall width, front						**996mm Standard / 1056mm Wide						
Mast	h1 (mm)	h2+s (mm)	h3+s (mm)	h4 (mm)	Tilt		Forks			Integral Sideshift		
							Load Centre (kg)			Load Centre (kg)		
					F	B	500	600	700	500	600	700
2 Stage LFL Clear View	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
2 Stage FFL Hi-Vis	1980	1405	3018	3613	5	5	1300*	1150*	1080*	1260*	1120*	1020*
	2080	1505	3218	3813	5	5	1300*	1150*	1070*	1250*	1120*	1020*
	2330	1805	3718	4313	5	5	1300*	1150*	1070*	1250*	1120*	1010*
	2680	2105	4338	4913	5	5	1300*	1150*	1060*	1230*	1110*	1000*
3 Stage FFL Clear View	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**	5708	5	5	1170*	1030*	950*	1110*	990*	900*
	2430	1942	5500**	6008	5	5	1110*	980*	900*	1050*	940*	850*

ERP15 VC mast details and capacity ratings (kg) - Supercushion tyres

Model						ERP 15 VC						
Tyre size, front						18 x 7-8						
Overall width, front						**996mm Standard / 1056mm Wide						
Masts	h1 (mm)	h2+s (mm)	h3+s (mm)	h4 (mm)	Tilt		Forks			Integral Sideshift		
							Load Centre (kg)			Load Centre (kg)		
					F	B	500	600	700	500	600	700
2 Stage LFL Clear View	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
2 Stage FFL Hi-Vis	1980	1405	3018	3613	5	5	1500*	1320*	1250*	1460*	1300*	1180*
	2080	1505	3218	3813	5	5	1500*	1320*	1240*	1450*	1300*	1180*
	2330	1805	3718	4313	5	5	1500*	1320*	1240*	1450*	1300*	1170*
	2680	2105	4338	4913	5	5	1500*	1320*	1230*	1440*	1290*	1170*
	1980	1472	4300	4808	5	5	1500	1320	1230	1440	1290	1170
3 Stage FFL Clear View	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**	5708	5	5	1360*	1200*	1110*	1300*	1170*	1060*
	2430	1942	5500**	6008	5	5	1210*	1140*	1060*	1210*	1110*	1010*

* Wide tread required. Standard tread possible, contact your lift truck dealer.

** 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. Contact your Yale dealer.
Integral sideshift is 906.2mm wide or 939mm with load backrest.

To calculate truck capacities with alternative truck specifications to the ones shown in the above tables, please use the YCPG software.

VDI 2198 - General Specifications

Distinguishing mark	1.1	Manufacturer (abbreviation)		Yale	Yale
	1.2	Manufacturer's type designation		ERP13 VC	ERP15 VC
	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas		Electric (battery)	Electric (battery)
	1.4	Operator type: hand, pedestrian, standing, seated, order-picker		Seated	Seated
	1.5	Rated capacity/rated load	Q (kg)	1300	1500
	1.6	Load centre distance	c (mm)	500	500
Weights	1.8	Load distance, centre of drive axle to fork	x (mm)	326	326
	1.9	Wheelbase	y (mm)	1168	1222
	2.1	Service weight	kg	2700	2905
Tyres/chassis	2.2	Axle loading, laden front/rear ●	kg	3319 / 631	3755 / 649
	2.3	Axle loading, unladen front/rear ●	kg	1184 / 1516	1240 / 1665
	3.1	Tyres: P = pneumatic, V = cushion, SE = Superelastic		SE	SE
	3.2	Tyre size, front		18 x 7-8	18 x 7-8
	3.3	Tyre size, rear		18 x 7-8	18 x 7-8
	3.5	Wheels, number front/rear (x = driven wheels)		2 / 1X	2 / 1X
Dimensions	3.6	Tread, front	b10 (mm)	836 / 896	836 / 896
	3.7	Tread, rear	b11 (mm)	-	-
	4.1	Tilt of mast/fork carriage forward/backward	α / β (°)	5 / 5	5 / 5
	4.2	Height of mast, lowered	h1 (mm)	2230	2230
	4.3	Free lift ▼	h2 (mm)	100	100
	4.4	Lift ▼	h3 (mm)	3320	3320
	4.5	Height, mast extended +	h4 (mm)	3868	3868
	4.7	Height of overhead guard (cabin) ○	h6 (mm)	2060 (1980*)	2060 (1980*)
	4.8	Seat height/stand height ✕	h7 (mm)	926	926
	4.12	Coupling height	h10 (mm)	540	540
	4.19	Overall length ●	l1 (mm)	2724	2778
	4.20	Length to face of forks ●	l2 (mm)	1724	1778
	4.21	Overall width	b1/b2 (mm)	996 / 1056	996 / 1056
	4.22	Fork dimensions ISO2331	s/e/l (mm)	40 / 80 / 1000	40 / 80 / 1000
	4.23	Fork carriage ISO 2328, class/type A,B		IIA	IIA
	4.24	Fork carriage width ▴	b3 (mm)	907	907
	4.31	Ground clearance, laden, below mast	m1 (mm)	88	88
	4.32	Ground clearance, centre of wheelbase	m2 (mm)	85	85
	4.34.1	Aisle width for pallets 1000 x 1200 crossways ■	Ast (mm)	3053	3107
	4.34.2	Aisle width for pallets 800 x 1200 lengthways □	Ast (mm)	3176	3230
Performance data	4.35	Turning radius	Wa (mm)	1398	1452
	4.36	Internal turning radius	b13 (mm)	0	0
	5.1	Travel speed, laden/unladen	km/h	12.0 / 12.5	12.0 / 12.5
	5.2	Lift speed, laden/unladen	m/s	0.30 / 0.51	0.30 / 0.51
	5.3	Lowering speed, laden/unladen	m/s	0.50 / 0.46	0.50 / 0.46
	5.5	Drawbar pull, laden/unladen	N	951 / 975	942 / 970
	5.6	Max. drawbar pull, laden/unladen	N	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 ☼	s	5.6 / 4.7	5.7 / 4.9
Electric-engine	5.10	Service brake		Hydraulic	Hydraulic
	6.1	Drive motor rating S2 60 min	kW	4.7	4.7
	6.2	Lift motor rating at S3 15%	kW	6.0	6.0
	6.3	Battery according to DIN 43531/35/36 A, B, C, no		DIN 43535A	DIN 43535A
	6.4	Battery voltage/nominal capacity K5	(V) / (Ah/Ah)	24 / 735 / 875	24 / 840 / 1000
	6.5	Battery weight	kg	570/ 630	642 / 710
Addition data	6.6	Energy consumption according to VDI cycle ✱ +	kWh/h @ Nr of Cycles	3.9	4.0
	8.1	Type of drive unit		AC	AC
Addition data	10.1	Operating pressure for attachments	bar	155	155
	10.2	Oil volume for attachments ✧	l/min	20	20
	10.7	Sound pressure level at the driver's seat ★	dB (A)	59	59
	10.8	Towing coupling, type DIN		Pin	Pin

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

▼ Bottom of forks

✕ Full Suspension seat

▴ Add 32mm with load backrest.

Integral sideshift is 906mm wide or 939mm with load backrest.

+ Without load backrest

○ h6 subject to +/- 5 mm tolerance

✧ Variable

● With mast vertical

■ 2 Stage and 3 Stage mast, deduct 3mm for FFL mast

□ 2 Stage and 3 Stage mast, deduct 4mm for FFL mast

☼ HiP performance setting

✱ eLo performance setting

+ 45 cycles

✱ Optional

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

VC series

Models: ERP 13VC, ERP 15VC



Product Features

The ERP13-15VC has been designed to manoeuvre in the tightest of spaces, delivering a cost effective, highly productive solution to meet the requirements of light/medium duty applications, such as loading/unloading lorries and handling pallets in containers and warehouses.

Productivity

- 24 volt rear-wheel drive with AC motors throughout provides smooth acceleration and excellent travel, torque and lifting performance, delivering efficient and productive load handling.
- The HiP (High Productivity) performance setting delivers a competitive top speed of 12.0km/h (laden) and lifting speed of 0.3m/s (laden), ideal for the demands of medium duty applications.
- With an overall width of 996mm to facilitate block stacking and a tight turning circle for excellent manoeuvrability in working aisles (AST with 1000 x 1200mm pallet = 3053mm with 40mm thick forks), the ERP13 VC is the most compact truck in its class, allowing the operator to manoeuvre more confidently in restricted spaces or congested loading/unloading bays.
- The Clearview mast offers class leading visibility allowing the operator to work quicker when picking and depositing loads.
- A range of batteries - 735-875Ah (1.3t) and 840-1000Ah (1.5t) - is available to ensure optimal shift life is achieved between charges.

Ergonomics

- The truck has been designed with the operator at the forefront, ensuring that they are as productive in the last hour as in the first hour of the shift.
- Generous foot space, intuitive pedal arrangement and low step height offer a comfortable working space for the driver. This means on/off access and driving in reverse cause less fatigue over long shifts.
- The operator compartment features a standard full suspension seat with 80mm suspension travel to help reduce truck vibrations, and provides unrivalled operator comfort and a smooth ride with low vibration levels from 0.3-0.5m/s², reducing the chance of back problems.
- A class leading low noise level of 59dB(A) reduces the stress on operators making them more productive for longer by

ensuring that they are comfortable at all times.

- A 'Heads-up' display keeps the driver's field of vision clear but provides him with 'at a glance' information on truck operating conditions or performance settings and also allows for maximum storage space in the dash.

Dependability

- Strong chassis construction provides excellent durability and stability, ensuring the operator can manoeuvre and carry out handling operations with confidence, enhancing productivity.
- The use of proven components, such as O-ring face seal fittings and sealed electrical connectors, as well as a CANbus communications network ensure long term reliability.
- Hall-Effect sensors on the transmission replace internal encoder bearings, making the truck more reliable and decreasing downtime.
- AC motor technology on traction and hoist allows the truck to work more reliably and for longer, reducing downtime significantly.
- A steel hood and durable side covers provide increased resistance to impact damage and general wear and tear.

Low Cost of Ownership

- The e-Balance of performance, manoeuvrability and battery shift life, which can be matched to the application needs, increases productivity and throughput, significantly reducing the cost per pallet moved.
- The eLo (Energy-Low) reduces energy costs, delivering the lowest energy consumption of 3.9kWh/h (1.3t) and 4.0 kWh/h (1.5t) on the VDI2198 test (45 cycles).
- The Vehicle System Manager (VSM) allows the adjustment of truck performance parameters as well as monitoring key functions, leading to application matched performance and low maintenance.
- In-built thermal protection on the traction motor protects truck components, leading to reduced maintenance costs.

Serviceability

- Access to diagnostic information via the display or plug-in point on the steering column allows engineers to monitor truck conditions and plan maintenance requirements.

- Easily removable two-piece floor plate provides easy access to power contactor, fuses and relays.
- The truck is fully serviceable without having to remove the battery – the motor, pump, controller and oil tank are easily accessible.
- Downtime for service requirements is minimised, thanks to features such as maintenance free AC motors, DIN wheel nuts, self-adjusting service brakes and gear driven steering (no chain - no lubrication required), as well as extended service intervals:
 - Standard service interval is 1000 hours / 6 months, the drive axle / transmission oil change is 4000 hours and the hydraulic oil change is 4000 hours. The standard warranty is 2000 hours or one year and the powertrain warranty is 4000 hours or two years.

Options

- 11 standard mast offerings
- Load backrest and forks
- Integral sideshift
- Wide tread (front) for wide load handling
- Non-marking tyres
- High Backrest seat with lumbar support and headrest
- Telescopic steering column with memory tilt
- Dual internal and Panoramic mirror
- Keyless start with Operator ID
- Daily Operator checklist
- FDC Pedal
- LED light packages with visible alarm strobe
- Audible back up alarm
- Batteries and chargers
- Extended Warranty (36 Months / 6000 hours)
- 12V power outlet
- Load weight indicator
- Impact sensor
- System Monitoring
- AccuTouch™ mini levers
- Return to Set Tilt (RTST)
- Front screen (with wiper) and top screen
- Sub-zero cold store construction
- Automatic speed reduction when cornering


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
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Safety. This truck conforms to the current EU requirements. Specification is subject to change without notice.

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Truck shown with optional equipment

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