



# ERC16-20VA

SPEC SHEET

1,600 - 2,000 kg

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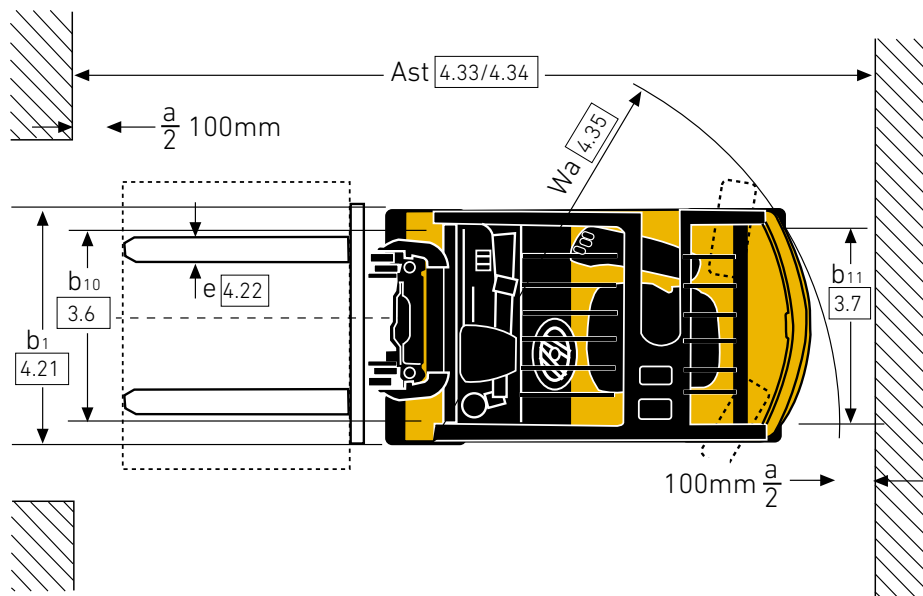
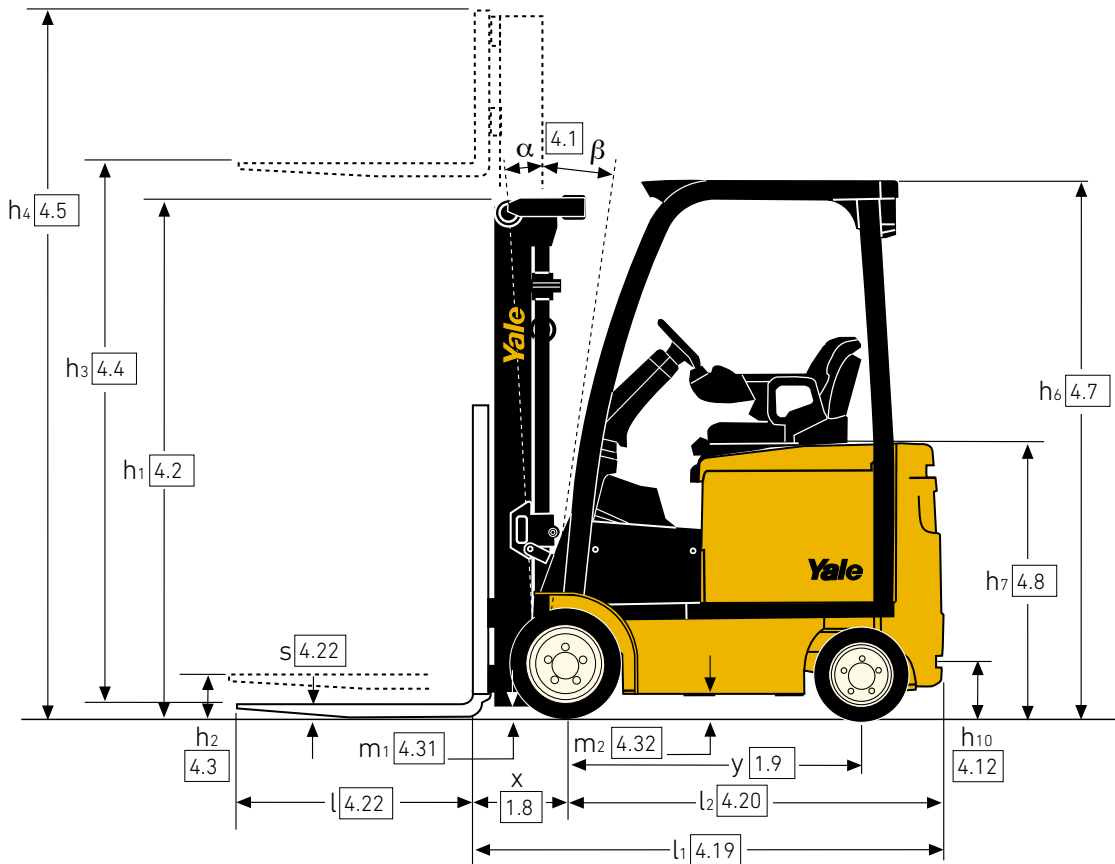
VA Series

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Electric Forklift Trucks



# TRUCK DIMENSIONS – VA SERIES



## VDI 2198 – GENERAL SPECIFICATIONS – VA SERIES

			Yale			
			ERC 16VA	ERC 18VA	ERC 20VA	
<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	Q (t)	1.6	1.8	2.0
	1.6	Load centre distance	c (mm)	500		
	1.8	Load distance, centre of drive axle to fork	x (mm)	360		
	1.9	Wheelbase	y (mm)	1220		
	<b>WEIGHT</b>	2.1	Service weight	kg	3414	3532
2.2		Axle loading, laden front/rear	kg	4233 / 782	4547 / 786	4881 / 838
2.3		Axle loading, unladen front/rear	kg	1506 / 1908	1479 / 2053	1473 / 2246
<b>TYRES</b>	3.1	Tyres front/rear		Cushion		
	3.2	Tyre size, front		18 x 6 x 12.125		
	3.3	Tyre size, rear		15 x 5 x 11.25		
	3.5	Wheels, number front/rear (x = driven wheels)		2X / 2		
	3.6	Tread, front	b <sub>10</sub> (mm)	788 / 939		
	3.7	Tread, rear	b <sub>11</sub> (mm)	822		
	<b>DIMENSIONS</b>	4.1	Tilt of mast/fork carriage forward/backward	α / β (°)	5 / 5	
4.2		Height, mast lowered	h <sub>1</sub> (mm)	2180		
4.3		Free lift <sup>(1)</sup>	h <sub>2</sub> (mm)	100		
4.4		Lift <sup>(1)</sup>	h <sub>3</sub> (mm)	3390		
4.5		Height, mast extended <sup>(2)</sup>	h <sub>4</sub> (mm)	4006		
4.7		Height of overhead guard (cabin) <sup>(3)</sup>	h <sub>6</sub> (mm)	2250		
4.8		Seat height relating to SIP/stand height <sup>(4)</sup>	h <sub>7</sub> (mm)	1161		
4.12		Coupling height	h <sub>10</sub> (mm)	232		
4.19		Overall length	l <sub>1</sub> (mm)	2908	2929	2968
4.20		Length to face of forks	l <sub>2</sub> (mm)	1908	1929	1968
4.21		Overall width	b <sub>1</sub> /b <sub>2</sub> (mm)	945 / 1091		
4.22		Fork dimensions ISO2331	s/e/l (mm)	40 / 80 / 1000		
4.23		Fork carriage ISO 2328, class/type A, B		2A		
4.24		Fork carriage width <sup>(5)</sup>	b <sub>3</sub> (mm)	907		
4.31		Ground clearance, laden, below mast	m <sub>1</sub> (mm)	87		
4.32		Ground clearance, centre of wheelbase	m <sub>2</sub> (mm)	92		
4.34.1		Aisle width for pallets 1000 x 1200 crossways	A <sub>st</sub> (mm)	3216	3226	3261
4.34.2		Aisle width for pallets 800 x 1200 lengthways	A <sub>st</sub> (mm)	3404	3417	3452
4.35		Turning radius	W <sub>a</sub> (mm)	1644	1657	1692
4.36		Internal turning radius	b <sub>13</sub> (mm)	417	447	
<b>PERFORMANCE</b>		5.1	Travel speed, laden/unladen <sup>(6)</sup>	km/h	18.4 / 18.4	
	5.2	Lift speed, laden/unladen	m/s	0.53 / 0.72	0.49 / 0.72	0.47 / 0.72
	5.3	Lowering speed, laden/unladen	m/s	0.51 / 0.47		
	5.5	Drawbar pull, laden/unladen	N	3156 / 2862	3088 / 2804	3023 / 2745
	5.6	Max. drawbar pull, laden/unladen	N	12964 / 12422	12709 / 12178	12459 / 11924
	5.7	Gradeability, laden/unladen	%	5.8 / 7.4	5.6 / 7.4	5.4 / 7.4
	5.8	Max. gradeability, laden/unladen	%	24.2 / 34.0	23.5 / 33.8	23.2 / 33.6
	5.9	Acceleration time, laden/unladen <sup>(6)</sup>	s	4.8 / 4.4	4.9 / 4.4	5.0 / 4.5
	5.10	Service brake		Hydraulic		
	<b>ELECTRIC</b>	6.1	Drive motor rating S2 60 min	kW	18.4	
6.2		Lift motor rating at S3 15%	kW	15.9		
6.3		Battery according to DIN 43531/35/36 A, B, C, no		No		
6.4		Battery voltage/nominal capacity K5	(V)/(Ah)	48 / 660		
6.5		Battery weight	kg	943 / 1132		
6.6		Energy consumption according to VDI cycle <sup>(7)</sup>	kWh/h @ no. of cycles	4.5	4.93	5.53
<b>OTHER</b>	10.1	Operating pressure for attachments	bar	180		
	10.2	Oil volume for attachments <sup>(8)</sup>	l/min	20-40		
	10.7	Sound pressure level at the driver's seat <sup>(9)</sup>	dB (A)	68		
	10.8	Towing coupling, type DIN		Pin		

(1) Bottom of forks

(2) Without load backrest

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

(4) Full suspension specified

(5) Add 43mm with load backrest

(6) HiP performance setting

(7) eLo performance setting

(8) Maximum flow set through dash display

(9) Measured according to the test cycles and based on the weighting values contained in EN12053

## MAST DIMENSIONS – ERC 16VA, ERC 18VA

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			Forks			Integral sideshift		
						Load centre (kg)			Load centre (kg)			Load centre (kg)			Load centre (kg)		
				F	B	500	600	700	500	600	700	500	600	700	500	600	700
<b>2-Stage Limited Free-Lift (LFL) Mast</b>																	
2180	140	3430	4006 <sup>(2)</sup>	5	5	1600	1530	1360	1600	1450	1320	1800	1700	1540	1790	1610	1460
2380	140	3830	4406 <sup>(2)</sup>	5	5	1600	1520	1360	1600	1440	1310	1800	1690	1530	1780	1600	1460
2730	140	4330	4906 <sup>(2)</sup>	5	5	1600	1510	1360	1560	1430	1300	1760	1640	1490	1690	1560	1420
<b>2-Stage Full Free-Lift (FFL) Mast</b>																	
2180	1505 <sup>(1)</sup>	3415	4012 <sup>(2)</sup>	5	5	1600	1530	1360	1600	1450	1320	1800	1700	1540	1790	1610	1460
<b>3-Stage Full Free-Lift (FFL) Mast</b>																	
2130	1466 <sup>(1)</sup>	4900	5474 <sup>(2)</sup>	5	5	1520 <sup>(3)</sup>	1440 <sup>(3)</sup>	1290 <sup>(3)</sup>	1520 <sup>(3)</sup>	1360 <sup>(3)</sup>	1240 <sup>(3)</sup>	1670 <sup>(3)</sup>	1570 <sup>(3)</sup>	1420 <sup>(3)</sup>	1650 <sup>(3)</sup>	1480 <sup>(3)</sup>	1350 <sup>(3)</sup>
2280	1616 <sup>(1)</sup>	5200	5774 <sup>(2)</sup>	5	5	1400 <sup>(3)</sup>	1400 <sup>(3)</sup>	1250 <sup>(3)</sup>	1410 <sup>(3)</sup>	1320 <sup>(3)</sup>	1200 <sup>(3)</sup>	1460 <sup>(3)</sup>	1460 <sup>(3)</sup>	1370 <sup>(3)</sup>	1470 <sup>(3)</sup>	1440 <sup>(3)</sup>	1300 <sup>(3)</sup>
2380	1716 <sup>(1)</sup>	5500	6074 <sup>(2)</sup>	5	5	1240 <sup>(3)</sup>	1240 <sup>(3)</sup>	1210 <sup>(3)</sup>	1240 <sup>(3)</sup>	1240 <sup>(3)</sup>	1160 <sup>(3)</sup>	1280 <sup>(3)</sup>	1280 <sup>(3)</sup>	1280 <sup>(3)</sup>	1280 <sup>(3)</sup>	1280 <sup>(3)</sup>	1260 <sup>(3)</sup>

(1) Deduct 649mm with load backrest extension

(2) Add 649mm with load backrest extension

(3) Wide tread required

## MAST DIMENSIONS – ERC 20VA

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		
						Load centre (kg)			Load centre (kg)		
				F	B	500	600	700	500	600	700
<b>2-Stage Limited Free-Lift (LFL) Mast</b>											
2180	140	3430	4006 <sup>(2)</sup>	5	5	2000	1900	1720	2000	1800	1630
2380	140	3830	4406 <sup>(2)</sup>	5	5	2000	1890	1710	1990	1790	1630
2730	140	4330	4906 <sup>(2)</sup>	5	5	1950	1840	1670	1920	1750	1590
<b>2-Stage Full Free-Lift (FFL) Mast</b>											
2180	1505 <sup>(1)</sup>	3415	4012 <sup>(2)</sup>	5	5	2000	1880	1710	1980	1790	1620
<b>3-Stage Full Free-Lift (FFL) Mast</b>											
2130	1466 <sup>(1)</sup>	4900	5474 <sup>(2)</sup>	5	5	1800 <sup>(3)</sup>	1780 <sup>(3)</sup>	1610 <sup>(3)</sup>	1810 <sup>(3)</sup>	1680 <sup>(3)</sup>	1530 <sup>(3)</sup>
2280	1616 <sup>(1)</sup>	5200	5774 <sup>(2)</sup>	5	5	1560 <sup>(3)</sup>	1560 <sup>(3)</sup>	1560 <sup>(3)</sup>	1570 <sup>(3)</sup>	1570 <sup>(3)</sup>	1490 <sup>(3)</sup>
2380	1716 <sup>(1)</sup>	5500	6074 <sup>(2)</sup>	5	5	1360 <sup>(3)</sup>	1360 <sup>(3)</sup>	1360 <sup>(3)</sup>	1360 <sup>(3)</sup>	1360 <sup>(3)</sup>	1360 <sup>(3)</sup>

(1) Deduct 649mm with load backrest extension

(2) Add 649mm with load backrest extension

(3) Wide tread required

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





Yale



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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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## Yale Lift Truck Technologies


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Publication part no. 220991804 Rev.00 (0323DMS) EN